Volume

#

R0514

BOOK A-514

4—679 b

INDEX DIAGRAM.

Township 20 South, Range 12 East

34

6	133	5	103	4	87	3	69	2	52	1	32
131		130		102		86		67		50	
7	128	8	101	9	84	10	66	11	48	12	31
126		125		100		83		65		47	
18	124	17	96	16	81	15	63	14	46	13	28
121		118		95		80		62		44	
19	116	20	94	21	78	22	61	23	42	24	27
113		111		93		75		59		41	
30	109	29	91	28	74	27	57	26	39	25	24
107		106		90		72		56		38	
31	105	32	89	33	70	34	53	35	35	36	23
21		20		19		17		16		15	

6—1817

Blank

Page

BOOK A-514

4—679 b

INDEX DIAGRAM.

Township 20 South, Range 11 East

	148		148				147		147			
181	6	298	5	265	4	243	3	223	2	201	1	166
	294		293		263		240		219		198	
178	7	290	8	261	9	238	10	217	11	196	12	164
	286		285		259		235		215		193	
175	18	283	17	257	16	233	15	214	14	190	13	162
	282		280		255		232		213		188	
172	19	278	20	253	21	231	22	211	23	187	24	161
	276		274		251		230		210		185	
169	30	272	29	249	28	228	27	209	26	184	25	159
	270		268		247		227		206		183	
168	31	267	32	246	33	226	34	204	35	181	36	158
148	157		156		155		154		152		151	

6—4817

Blank

Page

BOOK A-514

4—679 b

INDEX DIAGRAM.

Township 21 South, Range 17 East

6	5	4	3	2	316 1 312 315
7	8	9	10	11	12 311
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6—1817

Blank

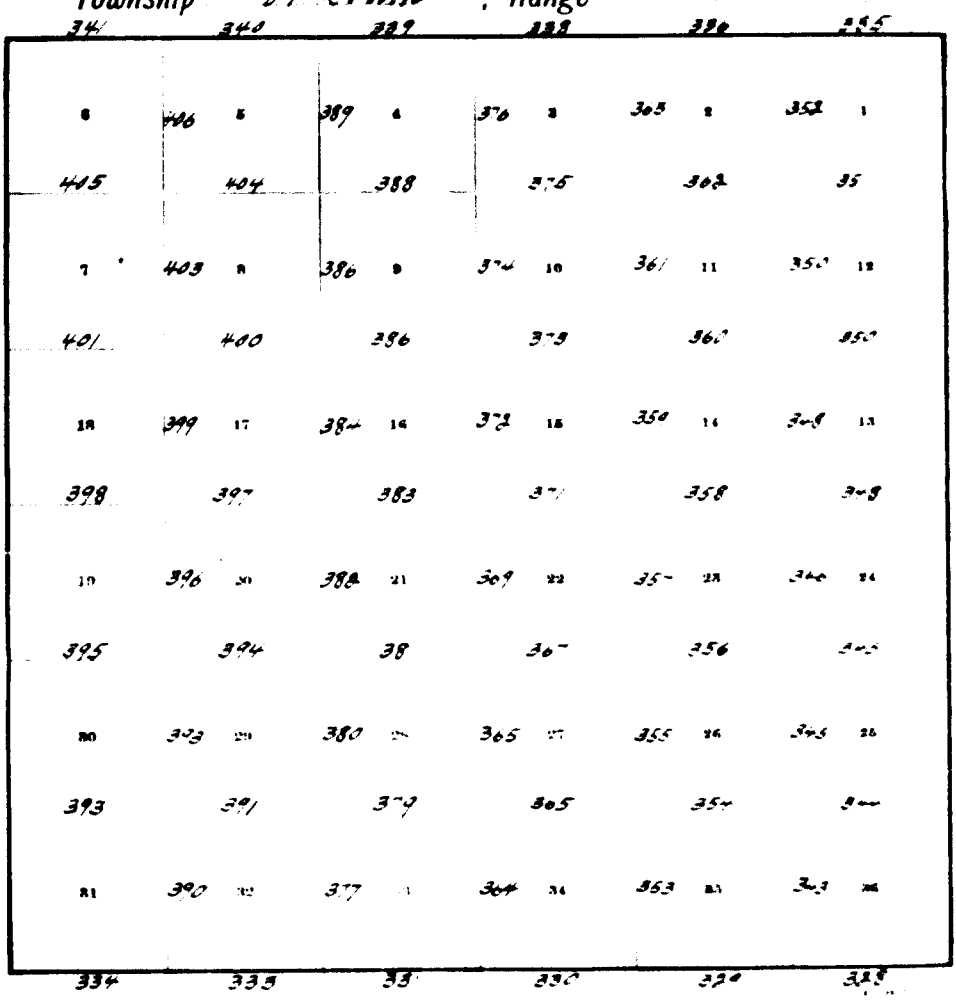
Page

BOOK A-514

4—679 b

INDEX DIAGRAM.

Township 21 ~~South~~, Range 8 East



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Page

BOOK A-514

4—679 b

INDEX DIAGRAM.

Township 37 South, Range 13 West

423 422 420

	6 440	5 443	447 4 446 484	482 3 481	473 2 472	459 1 458
426	7 500	442 8 499	445 9 489	479 10 479	471 11 471	457 12 455
431	18 495	496 17 490	487 16 485	477 15 477	469 14 468	454 13 453
429	19 493	492 20 437	486 21 485	475 22 466	467 23 465	452 24 451
428 425	30 440	438 29	28	434 27 463	464 26 462	450 25 449
	31	32	33	432 34	461 35	448 36

419 417 415

6—4817

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Page

4—979
(April 1938)

BOOK A-514 B

RECEIVED
FEB 14 1938
District No. 6

FIELD NOTES

OF THE SURVEY

OF THE

FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 12 EAST,

CLARKS VALLEY GUIDE MERIDIAN OR EAST BOUNDARY,

ESTABLISHMENT OF LOT CORNER BETWEEN SECTIONS 6 AND 31 ON NORTH BOUNDARY,

AND SUBDIVISION OF

TOWNSHIP 20 SOUTH, RANGE 12 EAST

Of the Salt Lake *Meridian,*

In the State of Utah.

EXECUTED BY

J. C. CLARK, SURVEYOR

Under special instructions dated February 17, *19* 25, *which provided for the surveys included under Group No.* 163, *bearing the approval of the Commissioner of the General Land Office under date of* February 27, 1925 *and assignment instructions dated* October 25, *19* 27.

Supplemental Assignment Instructions dated April 12, 1933.

Survey commenced May 23, *19* 33.

Survey completed October 14, *19* 33.

U. S. GOVERNMENT PRINTING OFFICE 6—151

INDEX DIAGRAM.

Township 20 South, *Range* 12 East.

6 12 1 119	5 9 1 118	4 7 5 90	3 5 7 74	2 4 0 55	1 38
7 11 6 114	8 8 9 113	9 7 2 88	10 5 4 71	11 3 6 53	12 35
18 11 2 109	17 8 4 106	16 6 9 83	15 5 1 68	14 3 4 50	13 32
19 10 4 101	20 8 2 99	21 6 6 81	22 4 8 63	23 3 0 47	24 29
30 9 7 95	29 7 9 94	28 6 2 78	27 4 5 60	26 2 7 44	25 26
31 9 3 2	32 7 7 2	33 5 8 2	34 4 1 2	35 2 3 2	36 2

22 3 20 3 19 3 16 3 15 3 12 3 11

9 8 7 5 6—151 4 3

TOWNSHIP 20 SOUTH, RANGE 12 EAST

Survey commenced May 23, 1933, and executed with a W. and L. E. Gurley transit No.262684. The instrument is equipped with a Smith solar attachment and full vertical circle, the horizontal limb being provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs, and vertical circle.

The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer for district No. 6, in assignment instructions dated October 25, 1927, and in supplemental assignment instructions dated April 12, 1933, conditional upon satisfactory field tests. I also examined all the instrumental adjustments and corrected all errors before making the field tests hereinafter described.

The directions of the lines were determined by the solar transit method, except the line obtained by observations upon Polaris at elongation upon which to test the solar apparatus as stated in the field notes. This special meridian derived from Polaris observations at elongation was checked by an hour angle observation upon Polaris, and during suitable weather the solar attachment was tested every week on the meridian..Determinations for latitude and declination were taken whenever practicable, and in computing the declinations of the sun, the refractions were corrected for altitudes, varying from 4500 to 6000 feet above sea level. During the progress of the survey of this township, the bearings of the boundaries of the township and the meridional section lines were frequently checked by day light observations upon Polaris at elongation.

The measurements were made with Lallie steel tapes, 5 and 8 chains in length, graduated every link for the first 100 links, and the balance at intervals of 10 links. The tapes were tested by comparison with a Lufkin standard and found correct. All measurements were made on the slope, and the vertical angle of each interval was ascertained by clinometers in good adjustment; and the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position for the SE. cor. of the Tp., as follows: latitude 39°02' N., and longitude 110°33' W.

The observed general average magnetic declination is 16°18' east, which gives the magnetic bearing of the true meridian, N.16°18'W.

INITIAL TEST OF INSTRUMENT

May 28, 1933, in camp, in the NE.$\frac{1}{4}$ of sec. 3, T. 20 S., R. 12 E., at 3h 18.9m a. m., l. m. t., or 3h 41.2m a. m. by my watch which reads correct 105th. meridian time as determined by the Western Union telegraph office at Price, Utah, I observe Polaris at eastern elongation, making two sights each with the telescope in direct and reversed positions, and place a nail at the mean point, on a peg driven firmly in the ground 8 chains N.

After sunrise, I lay off the azimuth of Polaris 1°21'30", and make a meridian mark on a second peg, 18.97 lks. (12.52 ft.) to the west of the mean point in the line determined by the observation; I verify the angle by a vernier reading of the instrument.

During the tests on the meridian just described, the instrument by hourly a. m. and p. m. solar observations, on May 28, 1933, from 7:30 to 10:30 a. m. and from 1:30 to 4:30 p. m., defines positions for meridians that differ, no more than one and one half minutes from the meridian

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

established by observations upon Polaris. At apparent noon, I make the proper setting, on the declination arc, and observe the sun on the meridian; the resulting reading of the latitude arc agrees within one half minute of the calculated latitude.

FINAL TEST OF INSTRUMENT

October 15, 1933, on the same meridian which was established by observations upon Polaris, for the purpose of making the initial test of the instrument, I test the solar attachment every hour from 7:30 to 10:30 a. m. and from 1:30 to 4:30 p. m., making the proper settings on the arcs of the instrument; and ascertain that the lines determined with the solar, when compared with the meridian established by Polaris observations, have a maximum error of less than one and one half minutes. At apparent noon, I set the calculated latitude on the latitude arc, and observe the sun on the meridian; the resulting reading of the declination arc agrees within one half minute of the computed declination of the sun.

The latitudes obtained by the solar attachment on the Polaris meridian and the calculated latitude practically agree, and as the instrument using the solar apparatus gives positions for meridians that differ no more than one and one half minutes from the meridian established from Polaris observations, I conclude that the transit has been in adjustment during the progress of the survey of this township.

METHOD AND ORDER OF PROCEDURE

The north and west boundaries of the township have been previously surveyed and established under this group. The standard corner of Tps. 20 S., Rs. 12 and 13 E. is set at the intersection of a line run east from the standard corner of Tps. 20 S., Rs. 11 and 12 E., with a line projected south from the corner of Tps. 19 and 20 S., Rs. 12 and 13 E. Fractional measurements of the fourth standard parallel south in range 12 east, and in the Clarks valley guide meridian or east boundary of the township, are placed in the western and northern half miles, respectively. Beginning at the standard corner of sections 35 and 36, on the south boundary, the township is subdivided in the regular manner from south to north and from east to west, placing the fractional measurements against the north and west boundaries. Lot corners are established on the meridional boundary lines of the north tier of sections and on the latitudinal boundary lines of the west range of sections. The south boundary of the township, which is the fourth standard parallel south, was run by the tangent method, determining the line by a solar observation.

FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 12 EAST

Beginning at the standard cor. of Tps. 20 S., Rs. 11 and 12 E., heretofore described in the official field notes of T. 20 S., R. 11 E., in this group,

East, on a random line with the establishment of the fourth standard parallel south, along the S. bdy. of sec. 31, T. 20 S., R. 12 E., on a transit line describing the tangent, which starts at the standard Tp. cor., and bears east.

On the standard parallel, I set a temp. standard lot cor.

Chains	
	and a temp. standard ¼ sec. cor. for sec. 31 at 17.59 chs. and 57.59 chs., respectively, and thereafter establish temp. standard ¼ sec. and sec. cors. at intervals of 40.00 chs., until, at 497.59 chs., the distance equal to the length of the N. bdy. of the Tp., allowing for convergency, set temp. standard cor. for Tps. 20 S., Rs. 12 and 13 E., after making the proper offsets from the tangent N. to the parallel.
	From the cor. of Tps. 19 and 20 S., Rs. 12 and 13 E., heretofore described in the official field notes of T. 19 S., R. 12 E., in this group,
	South, on a random line for alignment only, along E. bdy. of T. 20 S., R. 12 E.
	Intersect the fourth standard parallel south, west 25 lks. dist. from the temp. standard cor. of Tps. 20 S., Rs. 12 and 13 E.
	From the temp. standard cor. of Tps. 20 S., Rs. 12 and 13 E.,
	West 25 lks. dist. to the point of intersection of the fourth standard parallel south run east from the standard cor. of Tps. 20 S., Rs. 11 and 12 E., and a line projected south from the cor. of Tps. 19 and 20 S., Rs. 12 and 13 E., where I set an iron post, 3 ft. long, 3 ins. diam., 14 ins. in the ground to bedrock, with a sandstone, 8x6x2 ins., mkd. X, deposited at the base, and in a mound of stone, 5 ft. base, 1½ ft. high, for standard cor. of Tps. 20 S., Rs. 12 and 13 E., with brass cap mkd. SC T20S R12E | R13E S36 | S31 1933
	Thence, from the standard cor. of Tps. 20 S., Rs. 12 and 13 E.,
	West, on a true line with the establishment of the fourth standard parallel south, along the S. bdy. of sec. 36, T. 20 S., R. 12 E.
	Over rough and broken land, through scattering undergrowth; asc. gradually 10 ft. along NE. slope.
1.30	Spur, from NW., projects S.80°E.; desc. SW. slope 35 ft.
6.80	Wash, 20 lks. wide, 4 ft. deep, in the bottom of draw, heads NW. about 15 chs. dist., drains SE.; asc. 280 ft. along general S. slope, across small spurs and draws, putting to the S. and SE.
18.50	Top of broken shale and sandstone ledge, 25 ft. high, bears N. and SW.
32.70	Spur, projects S. approximately 8 chs. dist.; desc. W. slope 85 ft. to
39.20	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to bedrock, with a sandstone, 8x4x2 ins., mkd. X, at the base, and in a mound of stone, 5 ft. base, 2½ ft. high, for witness standard ¼ sec. cor., with brass cap mkd. SC WC ¼ S36 1933

FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 12 EAST

Chains	
40.00	True point for the standard ¼ sec. cor. falls in bottom of wash, 8 lks. wide, 1 ft. deep, draining S., 5 ft. below the witness standard ¼ sec. cor.
52.50	Head of draw, 95 ft. below the true point for standard ¼ sec. cor., drains S.; asc. gradually 25 ft. over gentle E. slope of bench.
59.10	W. edge of bench, bears N. and S.; abrupt descent of 125 ft.
62.90	Wash, 20 lks. wide, 3 ft. deep, in the bottom of draw, drains S. approximately 4 chs. dist., thence southeasterly; asc. steep E. slope 55 ft.
65.90	Spur, slopes S. about 4 chs. dist.; desc. 65 ft.
70.00	Wash, 20 lks. wide, 4 ft. deep, in the bottom of draw, heads N. about 7 chs. dist., drains SE.; asc. abrupt E. slope 175 ft.
74.00	Top of broken and nearly perpendicular limestone ledge or E. rim of bench, 25 ft. high, bears N. about 4 chs. dist., and S.; asc. gradually 15 ft. over nearly level top to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 3 ins. in the ground to bedrock, with a sandstone, 6x4x1½ ins., mkd. X, deposited at the base, and in a mound of stone, 5 ft. base, 2½ ft. high, for standard cor. of secs. 35 and 36, with brass cap mkd.

SC

T20S	R12E
S35	S36

1933

Land, rough, and broken by rims of draws and gulches; broken and nearly perpendicular ledges, outcroppings, and boulders of blue limestone, shale, and varied colored sandstone formation; drainage generally to the SE.

Soil, rocky and shallow red sand, lying on bedrock, 2nd. to 4th. rate.

Undergrowth, scattering yellow top, mountain rush, shadscale, and white sagebrush; sparse to fair growth of bunch and gramma grass.

Poor to fair grazing land. No timber.

West, along the S. bdy. of sec. 35.

Asc. gradually 15 ft. over nearly level top of bench, across small spurs and heads of washes and draws, draining SE., through scattering undergrowth.

11.50 Leave nearly level top of bench, bears NE. and SW.; asc. abruptly 320 ft. over general S. slope to

40.00 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, with a sandstone, 4x3x1 ins., mkd. X, deposited at the base, and in a mound of stone, 3 ft. base, 1 ft. high, for standard ¼ sec. cor., with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 12 EAST

Chains	
	SC ¼ S35 1933
54.10	Top of ascent on S. slope, 90 ft. above the standard ¼ sec. cor.; desc. abruptly 230 ft.
71.80	Top of broken and nearly perpendicular shale and sandstone ledge, 25 ft. high, bears N.70°W. and S.70°E.
76.10	Base of abrupt descent, bears NW. and SE.; desc. gradual SW. slope 10 ft. to
78.00	Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground to solid rock, with a limestone, 8x3x1 ins., mkd. X, deposited at the base, and in a mound of stone, 5 ft. base, 1½ ft. high, for witness standard cor. of secs. 34 and 35, with brass cap mkd.
	SC T20S | R12E S34 | S35 WC 1933
80.00	True point for the standard cor. of secs. 34 and 35, falls in wash, 15 lks. wide, 2 ft. deep, near head of draw, draining NW. about 1.50 chs. dist., thence SW., 40 ft. below the witness standard sec. cor.
	Land, rough, and broken by rims of draws; broken and nearly perpendicular ledges, outcroppings, and boulders of varied colored sandstone, blue limestone, and shale formation; drainage generally to the SE.
	Soil, rocky and shallow red sand, lying on bedrock or on alternate layers of varied colored clays, 3rd. and 4th. rate.
	Timber, a few scattering scrubby cedar.
	Undergrowth, scattering yellow top, mountain rush, shadscale, white sagebrush, and service berry bushes; sparse to fair growth of bunch and gramma grass.
	Poor to fair grazing land.
	From the true point for the standard cor. of secs. 34 and 35,
	West, along the S. bdy. of sec. 34.
	Over rolling, rough, and broken land, through scattering undergrowth; asc. NE. slope 10 ft.
0.30	Spur, slopes N. 50 lks. dist.; desc. 35 ft.
3.20	Wash, 10 lks. wide, 5 ft. deep, in the bottom of draw, drains SW. about 2.50 chs. dist., thence northwesterly; asc. 10 ft.
4.30	Spur, slopes S. about 50 lks. dist.; desc. abrupt W. slope 60 ft.
6.70	Wash, 20 lks. wide, 3 ft. deep, in the bottom of draw, drains NW.; asc. 45 ft.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 12 EAST

Chains

11.10 Spur, slopes NW. about 3 chs. dist.; desc. gradual SW. slope 180 ft. to

40.00 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with a sandstone, 5x4x2 ins., mkd. X, deposited at the base, and in a mound of stone, 6½ ft. base, 2¼ ft. high, for standard ¼ sec. cor., with brass cap mkd.

SC
¼ S34
1933

49.30 Draw, 70 ft. below standard ¼ sec. cor., drains northwesterly; asc. E. slope 45 ft.

55.30 Spur, projects N. approximately 12 chs. dist.; desc. W. slope 105 ft.

64.60 Lockhart Wash, 30 lks. wide, 3 ft. deep, in the bottom of hollow, from NE., drains NW. about 8 chs. dist., thence southwesterly; asc. NE. slope 20 ft.

68.20 Spur, slopes NW. about 3 chs. dist.; desc. SW. slope 45 ft.

72.20 E. bank of Lockhart Wash, 20 ft. high, bears NE. and SW.; wash in bottom of hollow, draining SW.

74.10 W. bank of Lockhart wash, which is a broken and nearly perpendicular shale ledge, 20 ft. high, bearing N.10°E. and S.10°W., at the top of ascent, bearing same as ledge; desc. NW. slope 30 ft.

76.50 Old wagon road, bears NW. to Castle Dale and Huntington, Utah and SE. to Mexican Bend on the San Rafael River.

79.50 Wash, 20 lks. wide, 5 ft. deep, in the bottom of draw, drains SW.; asc. SE. slope 15 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to bedrock, with a sandstone, 6x5x1½ ins., mkd. X, deposited at the base, and in a mound of stone, 6 ft. base, 2 ft. high, for standard cor. of secs. 33 and 34, with brass cap mkd.

SC
T20S | R12E
S33 | S34
1933

Land, rolling, rough, and broken by draws and hollows, draining generally to the S.; outcroppings of blue limestone and shale, and varied colored sandstone formation.

Soil, red sand and varied colored clays, about 4 ins. to several ft. deep, lying on a clay subsoil or on bedrock of shale, limestone or sandstone, 3rd. and 4th. rate.

Timber, a few scattering cedar.

Undergrowth, scattering to medium dense yellow top, shadscale, mountain rush, white sagebrush, and service berry bushes; sparse to fair growth of bunch and gramma grass.

Poor to fair grazing land.

Chains	
	West, along the S. bdy. of sec. 33.
	Over rolling, rough, and broken land, through scattering undergrowth; asc. SE. slope 30 ft.
6.60	Spur, slopes SW. about 1 ch. dist.; desc. 10 ft.
14.90	Draw, heads N. approximately 3 chs. dist., drains S.; asc. 15 ft. over numerous small draws and spurs, putting S. and southwesterly.
32.50	Top of ascent, bears NW. and SE.; desc. W. slope 55 ft.
38.30	Draw, drains S.; asc. gradual E. slope 10 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2¾ ft. high, for standard ¼ sec. cor., with brass cap mkd.
	SC ¼ S33 1933
52.80	Top of ascent, 40 ft. above standard ¼ sec. cor., bears N. and S.; desc. W. slope 50 ft. to
57.90	E. edge of San Rafael River channel or top of broken and nearly perpendicular limestone ledge, 45 ft. high, bears N.30°W. and S.10°E.; desc. abrupt SW. slope 195 ft.
67.00	E. edge of San Rafael River, which is a stream of alkali water, 120 lks. wide, 3 to 4 ft. deep, having a southeasterly course.
68.20	From the W. edge of the stream, over nearly level dry river bottom.
71.80	Top of ascent, 5 ft. above W. edge of stream, bears N. about 3 chs. dist. and S.; continue over nearly level dry river bottom.
75.60	E. edge of San Rafael River, stream 100 lks. wide, 3 to 4 ft. deep, course northeasterly about 5 chs. dist., thence southeasterly.
76.60	From the W. edge of the stream, over nearly level dry river bottom to
80.00	True point for the standard cor. of secs. 32 and 33 falls on dry river bottom, making the establishment of a cor. monument unsafe, due to high water in the spring of the year and during flood seasons; no cor. set.
	West 8.00 chs. dist. from the true point for the standard cor. of secs. 32 and 33, on the fourth standard parallel south, on the S. bdy. of sec. 32, I establish a witness standard cor. of secs. 32 and 33, hereinafter described.
	Land, rolling, rough, and broken with outcroppings of blue shale and limestone and varied colored sandstone, E. 67.00 chs.; nearly level San Rafael River bottom, W. 13.00 chs.; general drainage to the SE. by the San Rafael River.
	Soil, red sand and varied colored clays, about 4 ins. to several ft. deep, lying on a clay subsoil or on bedrock of shale, limestone or sandstone, 3rd. and 4th. rate, E. 67.00 chs.; red sand and sandy loam, several ft. deep, 1st. rate, on dry river bottom.

FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 12 EAST

Chains	
	Timber, a few scattering scrubby cedar; scattering and groves of cottonwood on the San Rafael River bottom land.
	Undergrowth, scattering to medium dense yellow top, shadscale, mountain rush, and white sagebrush; scattering greasewood on river bottom land; sparse to fair growth of bunch and gramma grass.
	Fair grazing land.
	From the true point for the standard cor. of secs. 32 and 33,
	West, along the S. bdy. of sec. 32.
	Over San Rafael River bottom land, through scattering undergrowth; gradual ascent of 40 ft. to
8.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for witness standard cor. of secs. 32 and 33, with brass cap mkd. SC / T20S S32 | R12E S33 / WC / 1933 raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
	From this cor.; leave bottom land, bears NE. and SW.; begin gradual ascent of 10 ft. over SE. slope.
12.70	Spur, projects SW. approximately 7 chs. dist.; desc. NW. slope 105 ft. to
16.50	E. edge or bank of San Rafael River channel, 4 ft. high, bears NW. and SE. about 4 chs. dist., thence northeasterly; over nearly level dry river bottom.
24.40	E. edge of San Rafael River, which is a stream of alkali water, 100 lks. wide, 3 to 4 ft. deep, having a southeasterly course approximately 8 chs. dist., thence northeasterly.
25.40	From the W. edge of the stream, over nearly level dry river bottom to
26.30	Top of broken and nearly perpendicular shale ledge, 20 ft. high, bears NW. and SE., and forms the right bank of the San Rafael River channel; asc. E. slope 30 ft.
30.40	Spur, slopes N. about 1 ch. dist.; desc. 35 ft.
37.20	Wash, 15 lks. wide, 3 ft. deep, in the bottom of draw, heads S. approximately 12 chs. dist., drains NE.; asc. E. slope 55 ft. to
40.00	At the top of ascent, bearing N. and S., set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for standard ¼ sec. cor., with brass cap mkd. SC / ¼ S32 / 1933

Chains	
	raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.
52.00	Top of broken and nearly perpendicular shale ledge, 25 ft. high, bears NE. and SW., and forms the E. rim of a gulch.
59.80	Wash, 100 lks. wide, 4 ft. deep, in the bottom of gulch, 80 ft. below the standard ¼ sec. cor., drains NE.; asc. abrupt E. slope 235 ft.
74.30	Top of broken shale ledge, 15 ft. high, bears N. and SE., and forms the W. rim of the gulch.
76.90	Spur, projects SE. approximately 10 chs. dist.; desc. 50 ft. along SW. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for standard cor. of secs. 31 and 32, with brass cap mkd.

SC
T20S | R12E
S31 | S32

1933

raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

Land, rolling, rough, and broken, and nearly level bottom land of the San Rafael River; surface rocky and outcroppings of blue limestone and shale on tops and slopes, and mostly red and yellow sandstone formation on E. 26.30 chs.; drainage NE. and S. into the San Rafael River, thence southeasterly.

Soil, red sand and sandy loam, about 1 to several ft. deep, lying on bedrock, 1st. and 2nd. rate, on bottom land; shallow and rocky red sand, lying on bedrock of shale, limestone or sandstone, 3rd. and 4th. rate, on other portions of mile.

Timber, a few scattering scrubby cedar; scattering and groves of cottonwood on the San Rafael River bottom land.

Undergrowth, scattering to medium dense yellow top, shadscale, and mountain rush; scattering greasewood on river bottom land; sparse to fair growth of bunch and gramma grass.

Fair grazing land.

	West, along the S. bdy. of sec. 31.
	Over rolling, rough, and broken land, through scattering undergrowth; desc. SW. slope 10 ft.
0.40	Head of draw, drains SE.; asc. general E. slope 75 ft.
11.00	Top of ascent, bears N. and S.; desc. gradual W. slope 35 ft.
15.30	Wash, 25 lks. wide, 3 ft. deep, in the bottom of draw, drains N. about 3 chs. dist., thence northeasterly; asc. gradually 40 ft.
24.70	Spur, slopes N. about 3 chs. dist.; desc. 40 ft.

U. S. GOVERNMENT PRINTING OFFICE: 1933 6—8155

FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 12 EAST

Chains	
35.20	Wash, 25 lks. wide, 4 ft. deep, in the bottom of draw, drains N.; asc. gradual SE. slope 40 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, with a limestone, 5x3x1 ins., mkd. X, deposited at the base, and in a mound of stone, 5½ ft. base, 2½ ft. high, for standard ¼ sec. cor., with brass cap mkd. SC ¼ S31 / 1933
54.10	Spur, 5 ft. above standard ¼ sec. cor., projects NE. approximately 20 chs. dist.; desc. gradually 15 ft.
58.70	Wash, 15 lks. wide, 3 ft. deep, in the bottom of draw, drains NE.; asc. E. slope 20 ft.
64.30	Spur, slopes N. about 3 chs. dist.; desc. abrupt W. slope 50 ft.
69.80	Wash, 20 lks. wide, 2 ft. deep, in the bottom of draw, drains N.; asc. 35 ft.
71.90	Top of ascent, bears N. and S.; desc. gradual W. slope 10 ft. to
72.50	E. rim of gulch or top of nearly perpendicular limestone ledge, 5 ft. high, bears N.10°E. and SW.; begin abrupt descent of 60 ft. over NW. slope.
75.70	Wash, 50 lks. wide, 4 ft. deep, in the bottom of the gulch, drains NE.; asc. gradually 10 ft.
78.90	Top of ascent, bears N. and S.; desc. gradually 5 ft. to
80.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for standard cor. of lots Nos. 7 and 8, sec. 31, with brass cap mkd. SC S31 7 | 8 / 1933 raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor.
81.00	Same wash as noted at 75.70 chs., 40 lks. wide, 2 ft. deep, in the bottom of gulch, 5 ft. below the standard lot cor., drains SE. about 2.50 chs. dist., thence northeasterly; asc. gradual E. slope 55 ft.
85.50	Spur, slopes N. approximately 4 chs. dist.; desc. W. slope 40 ft.
88.30	Wash, 30 lks. wide, 3 ft. deep, in the bottom of draw, drains N. about 2.50 chs. dist. into wash noted at 81.00 chs.; asc. 20 ft.
89.50	Spur, slopes N. about 2 chs. dist.; desc. 15 ft.
90.60	Same wash as noted at 75.70 chs., 40 lks. wide, 3 ft. deep, in the bottom of gulch, drains NE. approximately 6 chs. dist., thence southeasterly; asc. abrupt SE. slope 80 ft. to

FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 12 EAST

Chains	
94.10	W. rim of gulch or top of broken limestone ledge, 5 ft. high, bears N.80°E. and SW.; asc. gradual SE. slope 5 ft. to
97.34	The standard cor. of Tps. 20 S., Rs. 11 and 12 E., heretofore described.
	Land, rolling and rough, and benches broken by draws and gulches; surface rocky and outcroppings of limestone formation; general drainage northeasterly into the San Rafael River.
	Soil, rocky and shallow red sand, lying on bedrock, 2nd. to 4th. rate.
	Timber, a few scattering cedar.
	Undergrowth, scattering to medium dense yellow top, shadscale, and mountain rush; fair growth of bunch and gramma grass.
	Fair grazing land.

CLARKS VALLEY GUIDE MERIDIAN

EAST BOUNDARY OF T. 20 S., R. 12 E.

	From the standard cor. of Tps. 20 S., Rs. 12 and 13 E., hereinbefore described,
	North, on a true line, along the E. bdy. of T. 20 S., R. 12 E., bet. secs. 31 and 36.
	Over rough and broken land, through sparse undergrowth; desc. abrupt general N. slope 50 ft.
1.40	Head of draw, drains NE.; asc. gradual S. slope 10 ft.
5.30	Spur, slopes E. about 1 ch. dist.; desc. 240 ft.
22.50	Wash, 2.40 chs. wide, 10 ft. deep, in the bottom of draw, from NW., drains easterly; asc. abrupt S. slope 265 ft. to
38.33	On top of red sandstone spur, projecting E. approximately 8 chs. dist., set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with a sandstone, 6x5x1½ ins., mkd. X, deposited at the base, and in a mound of stone, 5 ft. base, 1½ ft. high, for witness ¼ sec. cor., with brass cap mkd.

WC
¼
S 36 | S 31
1933

39.80	Wash, 10 lks. wide, 3 ft. deep, in the bottom of draw, 85 ft. below the witness ¼ sec. cor., drains E.; asc. abrupt S. slope 10 ft. to
40.00	True point for the ¼ sec. cor. falls on steep slope, which is washing and breaking away, making the establishment of a cor. monument impracticable.
43.00	Red sandstone spur, 90 ft. above true point for ¼ sec.

U. S. GOVERNMENT PRINTING OFFICE: 1935 6—8155

Chains

cor., projects E. approximately 8 chs. dist.; desc. 240 ft. over general NW, slope, across small washes, spurs, and draws, putting to the NE.

61.40 S. bank of wash, 6 ft, high, bears easterly and southwesterly; wash in bottom of gulch, drains southeasterly.

63.50 N. bank of the wash, 3 ft. high, bears easterly and southwesterly; begin precipitous ascent of 595 ft. to witness cor. of secs. 25, 30, 31, and 36, over series of small red sandstone ledges and large boulders, on S. slope.

74.25 At the base of a high, sloping, and nearly perpendicular red sandstone ledge, wall, or rim of mountain, about 400 ft. high, bearing N.70°W. and S.70°E., set an iron post, 3 ft. long, 2 ins. diam., 15 ins. in the ground to bedrock, with a sandstone, 6x5x1 ins., mkd. X, deposited at the base, and in a mound of stone, 5 ft. base, 1½ ft. high, for witness cor. of secs. 25, 30, 31, and 36, with brass cap mkd.

WC
T20S

R12E	R13E
S25	S30
S36	S31

1933

80.00 True point for cor. of secs. 25, 30, 31, and 36, falls on the inaccessible SE. face of the ledge, wall, or rim of mountain, about 200 ft. above the witness sec. cor., where it is impracticable to establish a cor. monument or make a cross (X).

Land, abrupt, rough, and broken, draining generally to the SE.; outcroppings, large boulders, and broken, sloping and perpendicular ledges of varied colored sandstone, and shale formation.

Soil, shallow red sand or alternate layers of varied colored clays, lying on shale or sandstone bedrock, 3rd. and 4th. rate.

Undergrowth, sparse to scattering shadscale, mountain rush, and yellow top; sparse growth of bunch and gramma grass.

Poor grazing land. No timber.

North, bet. secs. 25 and 30.

As the true point for cor. of secs. 25, 30, 31, and 36 is inaccessible, and it is impracticable to chain and project a line north from the witness cor. of said secs., on account of the high ledge, wall, or rim of mountain, I return to the standard cor. of Tps. 20 S., Rs. 12 and 13 E., the most suitable site for a base line, and make the following triangulation: Designate the standard cor. of Tps. 20 S., Rs. 12 and 13 E. as point A, and set a flag B on line north on top of mountain. Then, from point A measure a base line east 56.25 chs. dist. to a flag C, which from flag B bears S.30°03'E. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.

CLARKS VALLEY GUIDE MERIDIAN

EAST BOUNDARY OF T. 20 S., R. 12 E.

Chains	
	Angle at point A = 90°00' Angle at flag B = 30°03' Angle at flag C = 59°57'
	Distance from the standard cor. of Tps. 20 S., Rs. 12 and 13 E. or point A to flag B..... 97.23 chs. Distance from point A to the true point for cor. of secs. 25, 30, 31, and 36... 80.00 chs. Distance from the true point for cor. of secs. 25, 30, 31, and 36 to flag B..... 17.23 chs.
	Thence, from flag B, South, 3.93 chs. by direct measurement, or at
13.30	Top of the sloping and nearly perpendicular ledge, wall, or rim of mountain, about 200 ft. above the true point for cor. of secs. 25, 30, 31, and 36, bears N.70°W. and S.70°E.
	Thence, north
	Over rough, broken, and nearly barren sandstone top of mountain.
16.90	Point of offset, 55 ft. above the rim of mountain.
	N. from this station for a distance of about 20 chs., chaining and the projection of line are impracticable, on account of two large sandstone domes or buttes located as follows at
21.00	Approximate. Top of a bell shaped, barren, sandstone dome or butte, about 200 ft. high.
28.00	Approximate. Rugged draw, about 300 ft. below top of dome or butte, drains easterly.
33.00	Approximate. Top of barren sandstone dome or butte, about 200 ft. high, bears northeasterly approximately 6 chs. dist. and southwesterly about 2 chs. dist., about 300 ft. above draw.
	From point of offset at 16.90 chs., offset
	West, 11.05 chs. dist. to top of E. extremity of barren sandstone dome or butte, 100 ft. high, bearing NW. approximately 5 chs. dist.
	Thence, on offset line,
	North, 20.00 chs. dist.; then, offset
	East, 11.05 chs. dist. to true line.
	Thence,
	North, bet. secs. 25 and 30.
	Desc. abrupt rugged NE. slope, through scattering timber and undergrowth.

CLARKS VALLEY GUIDE MERIDIAN

EAST BOUNDARY OF T. 20 S., R. 12 E.

Chains

40.00 True point for ¼ sec. cor. falls on the NE. face of a broken and sloping sandstone ledge, 50 ft. high, bearing NW. and SE., in the head of a box canyon or gorge, draining S.60°E., about 400 ft. below top of dome or butte approximately noted at 33.00 chs.

Series of ledges and outcroppings on the steep sides of the box canyon make it impracticable to establish a cor. monument on line within 10 chs. dist. of the true cor. point; therefore, from the true point for ¼ sec. cor.,

West, 4.30 chs. dist. to a point where I set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, 2¾ ft. high, for witness ¼ sec. cor., with brass cap mkd.

¼
S 25 | S 30 WC
1933

All trees within a reasonable distance are too scrubby for marking.

Thence,

East, 4.30 chs. dist. to true line.

50.00 Broad spur, 50 ft. above the true point for ¼ sec. cor., projects easterly; desc. gradually 15 ft. to

52.90 Top of broken and nearly perpendicular sandstone ledge or S. rim of Walker Canyon, 35 ft. high, bears N.70°W. and S.70°E.; desc. abrupt NE. slope 375 ft.

66.00 Wash, 50 lks. wide, 5 ft. deep, in the bottom of Walker Canyon, drains easterly; asc. steep SW. slope 335 ft. to

80.00 True point for the cor. of secs. 19, 24, 25, and 30, falls at the base of a nearly perpendicular light colored sandstone ledge, about 180 ft. high, bearing northwesterly and southeasterly, on a steep SW. slope which is breaking and crumbling away, making the establishment of a cor. monument impracticable.

The most convenient and suitable place for a witness cor. is on line bet. secs. 24 and 25; therefore, on line bet. secs. 24 and 25, S.89°57'W. 6.86 chs. dist. from the true point for the cor. of secs. 19, 24, 25, and 30, subsequently, set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 1¾ ft. high, for witness cor. of secs. 19, 24, 25, and 30, with brass cap mkd.

T20S
R12E | R13E
S24 | S19 WC
S25 | S30
1933

from which

A pinon pine limb, 6 ins. diam., bears N.88°00'E., 31 lks. dist., mkd. WC T20S R12 E S 24 B T.

A pinon pine, 5 ins. diam., bears S.75°00'E., 112 lks. dist., mkd. W C T 20 S R 12 E S 25 B T.

CLARKS VALLEY GUIDE MERIDIAN

EAST BOUNDARY OF T. 20 S., R. 12 E.

Chains	
	A pinon pine limb, 5 ins. diam., bears S.84°45'W., 37 lks. dist., mkd. W C T 20 S R 12 E S 25 B T.
	A cedar, 4 ins. diam., bears N.35°15'W., 167 lks. dist., mkd. W C T 20 S R 12 E S 24 B T.
	This witness cor. stands on a broad shelf on rough general SE. slope, 80 ft. above the true point for cor. of secs. 19, 24, 25, and 30.
	Land, broken, rugged, and mountainous; outcroppings, rims, domes or buttes, and broken, sloping, and nearly perpendicular ledges of gray, yellow, red, and light colored sandstone formation; drainage southeasterly into the San Rafael River.
	Soil, sandstone surface rock on nearly all of S. 36.90 chs.; rocky and shallow red sand, lying on sandstone and shale bedrock, 4th. rate, on N. 43.10 chs.
	Timber, scattering to a heavy growth of cedar and pinon pine on N. 43.10 chs.
	Undergrowth, nearly barren on S. 36.90 chs.; scattering black brush and mountain rush, and sparse to a fair growth of bunch grass, on N. 43.10 chs.
	Poor grazing land.
	From the true point for the cor. of secs. 19, 24, 25, and 30,
	North, bet. secs. 19 and 24.
	Asc. SW. face of nearly perpendicular sandstone ledge, 180 ft. high, bearing southeasterly and northwesterly about 2 chs. dist., thence southwesterly, forming N. rim of Walker Canyon.
1.10	Top of the ledge; enter a medium heavy growth of timber, bears NW. and SE.; asc. gradually 10 ft. over rough and broken top, through scattering undergrowth.
6.00	Spur, projects easterly; desc. gradual N. slope 65 ft. to
23.70	Top of broken and nearly perpendicular sandstone ledge or S. rim of Nates Canyon, 90 ft. high, bears NE. and SW.; desc. precipitous N. slope 250 ft.
28.40	Wash, 40 lks. wide, 5 ft. deep, in the bottom of Nates Canyon, drains northeasterly; asc. abrupt SE. slope 240 ft.
33.30	Top of broken and nearly perpendicular sandstone ledge, or N. rim of Nates Canyon, 15 ft. high, bears NW. and SE.; asc. gradually 10 ft.
35.20	Spur, projects easterly; desc. gradually 10 ft. to
37.00	Top of broken and nearly perpendicular sandstone ledge or S. rim of gulch, 110 ft. high, bears E. and W.; desc. steep general NE. slope 340 ft. to
40.00	At the base of steep descent, bearing northwesterly and southeasterly, set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

CLARKS VALLEY GUIDE MERIDIAN

EAST BOUNDARY OF T. 20 S., R. 12 E.

Chains

$\frac{1}{4}$

S 24 | S 19

1933

raise a mound of stone, 3½ ft. base, 3 ft. high, W. of cor.

There are no trees within a reasonable distance suitable for marking.

From this cor., desc. gradual NE. slope 10 ft. to

42.10 Wash, 30 lks. wide, 3 ft. deep, in the bottom of gulch, drains southeasterly; asc. abrupt SW. slope 85 ft.

44.30 Top of nearly perpendicular sandstone ledge or N. rim of gulch, 65 ft. high, bears NW. and SE.; asc. 35 ft. over rolling, rough, and broken land to

75.40 Base of an impassable, barren sandstone dome or butte, bears E. about 6 chs. dist. and W. approximately 6 chs. dist.

I return to the 65.70 chs. point, the most suitable site for offsetting; and offset

West, 11.05 chs. dist., then on offset line

North, 30.00 chs. dist.; thence offset

East, 11.05 chs. dist. to true line.

Thence,

South, 7.90 chs. dist. to the base of the same impassable, barren sandstone dome or butte as noted at 75.40 chs. bet. secs. 19 and 24; set temp. witness cor. for secs. 13, 18, 19, and 24, hereinafter established and described.

80.00 True point for the cor. of secs. 13, 18, 19, and 24, falls on the inaccessible, abrupt, rugged, and broken W. face of the barren sandstone dome or butte, where the establishment of a cor. monument or the marking of a cross (X) are impracticable.

Land, broken and rugged; surface rock, outcroppings, broken, sloping, and nearly perpendicular rims and ledges, and large domes or buttes of gray, light colored, and yellow sandstone formation; drainage easterly by gulches, gorges, and box canyons.

Soil, shallow red sand, lying on sandstone bedrock, 3rd. and 4th. rate.

Timber, scattering to a heavy growth of cedar and pinon pine.

Undergrowth, sparse to scattering black brush and mountain rush; scattering bunch and gramma grass on portions of mile.

Poor grazing land.

North, bet. secs. 13 and 18, counting the distance from the true point for cor. of secs. 13, 18, 19, and 24.

CLARKS VALLEY GUIDE MERIDIAN

EAST BOUNDARY OF T. 20 S., R. 12 E.

Chains	
7.80	Base of the impassable, barren sandstone dome or butte, about 150 ft. high, bears easterly about 12 chs. dist. and westerly approximately 6 chs. dist.; temp. witness cor. of secs. 13, 18, 19, and 24.
	Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base, 1 ft. high, for witness cor. of secs. 13, 18, 19, and 24, with brass cap mkd.
	T20S R12E | R13E S13 | S18 S24 | S19 WC 1933
	from which
	A pinon pine, 4 ins. diam., bears N.80°45'E., 52 lks. dist., mkd. W C T 20 S R 13 E S 18 B T.
	A pinon pine, 5 ins. diam., bears S.64°00'E., 91½ lks. dist., mkd. W C T 20 S R 13 E S 18 B T.
	A pinon pine, 4 ins. diam., bears S.89°15'W., 8 lks. dist., mkd. W C T 20 S R 12 E S 13 B T.
	A pinon pine, 9 ins. diam., bears N.14°15'W., 49½ lks. dist., mkd. W C T 20 S R 12 E S 13 B T.
	This witness cor. is located about 100 ft. below the true point for the cor. of secs. 13, 18, 19, and 24.
	From this witness cor., over rough and broken land, through a medium heavy growth of timber and scattering undergrowth; desc. gradual N. slope 20 ft.
10.60	Draw, drains easterly; asc. SW. slope 15 ft.
15.50	A water hole known as Moonshine water hole, 50 lks. diam., 5 ft. deep, bears west 6.40 chs. dist. The hole lies at the base of a nearly perpendicular ledge or water jump, about 50 ft. high, bearing NE. and SE., in the bottom of a draw or gulch, draining NE. At this time the water in the hole is about 40 lks. diam., 2 ft. deep.
15.90	Spur, projects SE. approximately 6 chs. dist.; desc. 65 ft.
22.50	Draw, drains SE.; asc. S. slope 15 ft.
24.10	Spur, projects easterly; desc. 140 ft.
28.20	Gulch, drains northeasterly approximately 10 chs. dist., thence easterly; asc. 65 ft.
31.60	Spur, slopes NE. about 6 chs. dist.; desc. 180 ft.
38.30	Gulch, drains northeasterly; asc. S. slope 75 ft. to
40.00	True point for ¼ sec. cor. falls on a broken and nearly perpendicular sandstone ledge, 30 ft. high, bearing NE. and SW., where the establishment of a cor. monument or the marking of a cross (X) are impracticable.
40.50	Spur, 15 ft. above the true point for ¼ sec. cor., slopes E. about 2 chs. dist.; desc. N. slope 10 ft. to

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

CLARKS VALLEY GUIDE MERIDIAN

EAST BOUNDARY OF T. 20 S., R. 12 E.

Chains	
40.86	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, and in a mound of stone, 3 ft. base, 1 ft. high, for witness ¼ sec. cor., with brass cap mkd.

¼
S 13 | S 18
WC.
1933

from which

A pinon pine limb, 4 ins. diam., bears S.58°45'E., 78 lks. dist., mkd. W C ¼ S 18 B T.

A pinon pine, 10 ins. diam., bears S.26°15'W., 35 lks. dist., mkd. W C ¼ S 13 B T.

42.90	Gulch, 10 ft. below witness ¼ sec. cor., drains SE. about 2 chs. dist., thence northeasterly; asc. abrupt SW. slope 245 ft. to E. slope of dome or butte.
44.30	Top of broken and sloping sandstone ledge or N. rim of gulch, 130 ft. high, bears NW. and SE. about 1.50 chs. dist., thence northeasterly; continue ascent.
59.10	Top of broken and nearly perpendicular sandstone ledge, 170 ft. high, bears NE. and SW.
59.50	E. slope of barren sandstone dome or butte, which is about 200 ft. high and bears SW. approximately 7 chs. dist., at the top of ascent, bearing southeasterly and southwesterly; desc. general NE. slope 185 ft.
70.20	Wash, 30 lks. wide, 3 ft. deep, in the bottom of gulch, drains southeasterly; asc. abrupt SW. slope 220 ft. to sec. cor.
74.20	Top of broken and nearly perpendicular sandstone ledge, 200 ft. high, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, 2½ ft. high, for cor. of secs. 7, 12, 13, and 18, with brass cap mkd.

T20S
R12E | R13E
S12 | S7
S13 | S18
1933

from which

A pinon pine, 12 ins. diam., bears N.77°15'E., 85½ lks. dist., mkd. T 20 S R 13 E S 7 B T.

A pinon pine, 10 ins. diam., bears S.22°00'E., 241½ lks. dist., mkd. T 20 S R 13 E S 18 B T.

A pinon pine, 4 ins. diam., bears S.79°00'W., 82 lks. dist., mkd. T 20 S R 12 E S 13 B T.

A pinon pine, 7 ins. diam., bears N.58°15'W., 126 lks. dist., mkd. T 20 S R 12 E S 12 B T.

Land, broken, and rugged with outcroppings, rims, and broken, sloping, and nearly perpendicular ledges of gray, yellow, and light colored sandstone formation; drainage to the E. by draws, gulches, gorges, and box canyons, which are forks of Cottonwood Canyon.

U. S. GOVERNMENT PRINTING OFFICE 1935 G—8155

Chains	
	Soil, shallow red sand, lying on sandstone bedrock, 3rd. and 4th. rate.
	Timber, varies from a sparse to a heavy growth of cedar and pinon pine.
	Undergrowth, sparse to scattering black brush, mountain rush, and service berry bushes; scattering bunch grass.
	Poor grazing land.
	North, bet. secs. 7 and 12.
	Over rough and broken land, through scattering timber and undergrowth; asc. gradual SW. slope 10 ft.
2.00	Ridge, bears NW. and SE.; desc. NE. slope 30 ft. to
7.30	Top of broken sandstone ledge or S. rim of draw, 10 ft. high, bears NE. and NW.; desc. N. slope 55 ft.
11.50	Draw, drains northeasterly; asc. abrupt SE. slope 50 ft.
13.20	Top of broken sandstone ledge or N. rim of draw, 25 ft. high, bears NE. approximately 10 chs. dist. and SW. about 7 chs. dist.; asc. more gradual SE. slope 15 ft.
14.80	Spur, projects NE. about 10 chs. dist.; desc. NW. slope 65 ft. to
28.40	Top of broken and nearly perpendicular sandstone ledge or S. rim of box canyon, 105 ft. high, bears SE. and W.; precipitous descent of 355 ft. to witness ¼ sec. cor., over general N. slope.
38.30	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4½ ft. base, 2½ ft. high, for witness ¼ sec. cor., with brass cap mkd.
	W C ¼ S 12 | S 7 1933
	from which
	A pinon pine limb, 7 ins. diam., bears N.79°15'E., 45 lks. dist., mkd. W C ¼ S 7 B T.
	A pinon pine limb, 5 ins. diam., bears N.0°15'W., 65 lks. dist., mkd. W C ¼ S 12 B T.
40.00	True point for ¼ sec. cor. falls in a wash, 20 lks. wide, 10 ft. deep, draining NE. about 2 chs. dist., thence easterly, 15 ft. below the witness ¼ sec. cor.
44.80	Wash, 20 lks. wide, 5 ft. deep, in the bottom of box canyon, 10 ft. below the true point for ¼ sec. cor., drains easterly; asc. abrupt S. slope 340 ft. to
50.30	Top of nearly perpendicular sandstone ledge or N. rim of box canyon, 290 ft. high, bears E. and W.; asc. gradual S. slope 15 ft.
53.50	Spur, projects E.; desc. gradual N. slope 80 ft. to

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

CLARKS VALLEY GUIDE MERIDIAN

EAST BOUNDARY OF T. 20 S., R. 12 E.

Chains	
74.30	Top of nearly perpendicular sandstone ledge or S. rim of box canyon, 150 ft. high, bears E. and W.; desc. abrupt general N. slope 200 ft.
76.50	Wash, 25 lks. wide, 4 ft. deep, in the bottom of box canyon, drains easterly; asc. SW. slope 25 ft. to
80.00	True point for cor. of secs. 1, 6, 7, and 12, falls on a sloping sandstone ledge, 120 ft. high, bearing NW. and SE., where the establishment of a cor. monument or the marking of a cross (X) are impracticable.
	North 4.90 chs. dist. from the true point for the cor. of secs. 1, 6, 7, and 12, on the E. bdy. of Tp., bet. secs. 1 and 6, I establish a witness cor. of secs. 1, 6, 7, and 12, hereinafter described.
	Land, broken, and rugged with outcroppings, rims, and broken, sloping, and nearly perpendicular ledges of gray, yellow, and light colored sandstone formation; also blue limestone outcroppings; drainage to the E. by draws, gulches, gorges, and box canyons.
	Soil, shallow red sand, lying on sandstone bedrock, 3rd. and 4th. rate; surface rock exposed on greater portion of mile.
	Timber, varies from a sparse to a heavy growth of cedar and pinon pine.
	Undergrowth, scattering black brush, mountain rush, and service berry bushes; scattering to a fair growth of bunch grass.
	Poor to fair grazing land.

From the true point for the cor. of secs. 1, 6, 7, and 12,

North, bet. secs. 1 and 6.

Asc. abrupt, rough, and barren SW. slope 220 ft. to

4.30 Top of sloping and nearly perpendicular sandstone ledge or N. rim of box canyon, 200 ft. high, bears NW. and SE.; desc. gradually 5 ft. to witness sec. cor., on N. slope, over rough and broken land, through scattering timber.

4.90 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock, and in a mound of stone, 4½ ft. base, 1¾ ft. high, for witness cor. of secs. 1, 6, 7, and 12, with brass cap mkd.

T20S

R12E	R13E
S1	S6
S12	S7

WC
1933

from which

A pinon pine, 12 ins. diam., bears N.59°15'E., 102 lks. dist., mkd. W C T 20 S R 13 E S 6 B T.

A cedar, 8 ins. diam., bears S.38°45'E., 36 lks. dist., mkd. W C T 20 S R 13 E S 6 B T.

Chains	
	A cedar, 12 ins. diam., bears S.37°15'W., 35 lks. dist., mkd. W C T 20 S R 12 E S 1 B T.
	A cedar, 12 ins. diam., bears N.33°45'W., 84 lks. dist., mkd. W C T 20 S R 12 E S 1 B T.
5.00	Enter scattering undergrowth, and a medium heavy growth of timber, bears E. and W.
7.90	Top of sloping sandstone ledge or S. rim of box canyon, 15 ft. high, bears E. and NW., 25 ft. below the witness cor. of secs. 1, 6, 7, and 12; desc. more abrupt N. slope 125 ft.
12.20	Bottom of box canyon, heads W. about 5 chs. dist., drains E.; asc. abruptly 125 ft.
15.80	Top of nearly perpendicular sandstone ledge or N. rim of box canyon, 55 ft. high, bears E. and W.; asc. gradual S. slope 5 ft.
16.90	Top of ascent, bears E. and W.; desc. gradual N. slope 15 ft. to
24.70	Descent becomes more abrupt, slope changing from N. to NW.
28.70	Top of sloping sandstone ledge or S. rim of box canyon, 45 ft. high, bears E. and NW., 35 ft. below top of abrupt descent; continue steep descent of 80 ft.
32.50	Head of box canyon, drains northwesterly; asc. abrupt SW. slope 60 ft. to
37.80	Top of sloping sandstone ledge or N. rim of box canyon, 55 ft. high, bears NW. and SE.; asc. gradual SW. slope 5 ft. to
40.00	On top of spur, projecting NW., set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

$$\begin{array}{ccc} & \frac{1}{4} & \\ S\ 1 & | & S\ 6 \\ & 1933 & \end{array}$$

from which

	A pinon pine, 8 ins. diam., bears N.61°15'E., 72 lks. dist., mkd. ¼ S 6 B T.
	A pinon pine, 9 ins. diam., bears N.89°45'W., 52 lks. dist., mkd. ¼ S 1 B T.
44.60	Wash, 10 lks. wide, 3 ft. deep, in the bottom of draw, drains NW. about 3 chs. dist.; thence northeasterly, 70 ft. below ¼ sec. cor.; asc. S. slope 15 ft.
47.40	Spur, slopes W. about 2 chs. dist.; desc. abrupt N. slope 35 ft. to
51.70	Wash, 30 lks. wide, 6 ft. deep, in the bottom of draw, drains N.; desc. gradually 115 ft. along the bottom of draw to
69.50	Leave wash, 30 lks. wide, 6 ft. deep, in the bottom of draw, drains NW.; asc. abrupt SW. slope 45 ft.
71.90	Spur, projects NW.; desc. gradual NE. slope 70 ft. to

U. S. GOVERNMENT PRINTING OFFICE: 1961 6—8155

CLARKS VALLEY GUIDE MERIDIAN

EAST BOUNDARY OF T. 20 S., R. 12 E.

Chains

80.00 Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2¾ ft. high, for cor. of lots Nos. 4 and 5, sec. 6, and lots Nos. 1 and 8, sec. 1, with brass cap mkd.

S 1 — 1 | 4 / 8 | 5 — S 6

1933

There are no trees within a reasonable distance suitable for marking.

82.40 Descent becomes abrupt over sandstone outcroppings, and broken and sloping ledges, bearing northeasterly and northwesterly; leave timber, bears NW. and SE.

87.41 Intersect the cor. of Tps. 19 and 20 S., Rs. 12 and 13 E., heretofore described, 150 ft. below cor. of lots 1, 4, 5, and 8.

Land, broken and mountainous, with outcroppings, rims, and broken, sloping, and nearly perpendicular ledges of light colored, gray, and yellow sandstone formation; blue limestone outcroppings; general drainage E., S. 16.90 chs.; remainder of mile drains NW. into a large wash, thence NE.

Soil, shallow red sand, lying on bedrock, 3rd. and 4th. rate; surface rock exposed on portions of mile.

Timber, scattering to a heavy growth of cedar and pinon pine.

Undergrowth, scattering black brush, mountain rush, and service berry bushes; sparse to fair growth of bunch grass.

Poor to fair grazing land.

ESTABLISHMENT OF LOT CORNER BETWEEN SECTIONS 6 AND 31 ON NORTH BOUNDARY OF T. 20 S., R. 12 E.

Commence at the cor. of Tps. 19 and 20 S., Rs. 11 and 12 E., heretofore described in the official field notes of T. 19 S., R. 12 E., in this group.

East, on a true line bet. secs. 6 and 31, along the N. bdy. of T. 20 S., R. 12 E.

17.00 Westing of 80.00 chs. from the cor. of secs. 5, 6, 31, and 32, on the N. bdy. of T. 20 S., R. 12 E., set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with a sandstone, 8x4x1 ins., mkd. X, deposited at the base, and in a mound of stone, 5½ ft. base, 2¼ ft. high, for cor. of lots Nos. 4 and 5, sec. 6, and lots Nos. 7 and 8, sec. 31, with brass cap mkd.

S 31

7 | 8 / 5 | 4

S 5

1933

ESTABLISHMENT OF LOT CORNER BETWEEN SECTIONS 6 AND 31 ON NORTH BOUNDARY OF T. 20 S., R. 12 E.

Chains	
	from which
	A pinon pine, 6 ins. diam., bears N.1°30'E., 240 lks. dist., mkd. Lot 8 S 31 B T.
	A pinon pine, 14 ins. diam., bears S.43°30'W., 132 lks. dist., mkd. Lot 5 S 6 B T.
	A pinon pine, 16 ins. diam., bears N.42°15'W., 36 lks. dist., mkd. Lot 7 S 31 B T.
	There are no available trees suitable for marking in lot 4, sec. 6.
	SUBDIVISION OF T. 20 S., R. 12 E.
	Commence the subdivisional survey at the standard cor. of secs. 35 and 36, on the S. bdy. of the Tp., hereinbefore described.
	N.0°01'W., bet. secs. 35 and 36.
	Over broken land, across rough and nearly level top of bench, through scattering undergrowth.
1.00	Leave top of bench, bears NW. and SE.; begin precipitous ascent of 690 ft. over broken, rugged general SW. slope to
24.90	Top of nearly perpendicular red sandstone ledge or S. rim of bench or mesa, 120 ft. high, bears N.70°W. and S.70°E.; desc. gradually 75 ft. to witness ¼ sec. cor., over nearly level top of almost surface rock, through a medium heavy growth of timber, bearing NW. and SE.
34.75	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground and over a X chiseled into bedrock, and in a mound of stone, 5 ft. base, 2½ ft. high, for witness ¼ sec. cor., with brass cap mkd.
	W C ¼ S 35 | S 36 1933
	from which
	A pinon pine, 9 ins. diam., bears N.54°15'E., 62 lks. dist., mkd. W C ¼ S 36 B T.
	A pinon pine, 7 ins. diam., bears N.83°30'W., 100 lks. dist., mkd. W C ¼ S 35 B T.
40.00	Near the head of a rugged gulch, draining E., 30 ft. below the witness ¼ sec. cor., the true point for ¼ sec. cor. falls on steep E. slope of surface rock and outcroppings, making the establishment of a cor. monument or the marking of a cross (X) impracticable.
	From the true point for ¼ sec. cor., asc. 100 ft. over rough and broken top of the bench or mesa to.
61.00	Leave timber, bears E. and NW.; N. edge of bench or mesa, bears NE. and NW., at the base of a nearly perpendicular red sandstone ledge, 375 ft. high, bearing E. about 3 chs.

Chains

dist., thence northeasterly, and NW.

It is impracticable to chain over this ledge, and as there is no suitable or convenient site for laying off a base line for triangulation, nearer than the S. bdy. of the township, I determine the distance from the standard cor. of secs. 35 and 36 to the top of the ledge, as hereinafter described, after the following procedure:

From the 61.00 chs. point,

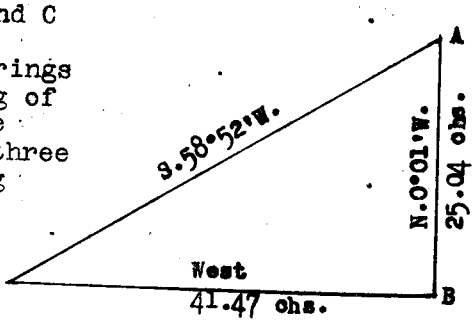
S.0°01'E., by direct measurement to verify the positions of the true point for $\frac{1}{4}$ sec. cor. and the witness $\frac{1}{4}$ sec. cor.

At 21.00 chs., intersect the true point for $\frac{1}{4}$ sec. cor.

At 26.25 chs., intersect the witness $\frac{1}{4}$ sec. cor.

At 35.96 chs., from this station, which is near the top of the ledge or S. rim of bench or mesa noted at 24.90 chs., I check the remaining distance of the 61.00 chs. by triangulation as follows:

Erect a flag A at the 35.96 chs. point and a flag B on the standard cor. of secs. 35 and 36. From flag A, a flag C previously set on the S. bdy. of the Tp., west 1.47 chs. dist. from the standard $\frac{1}{4}$ sec. cor. of sec. 35, bears S.58°52'W. The base line bet. flags B and C has a bearing of west and a length of 41.47 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



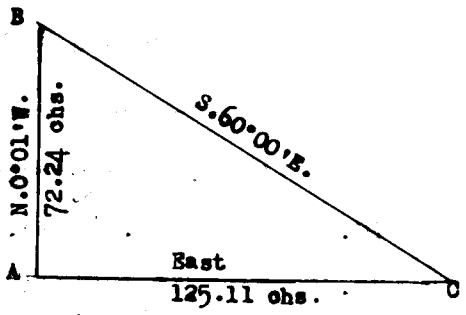
Angle at flag A = 58°53'
Angle at flag B = 89°59'
Angle at flag C = 31°08'

Distance from flag A to flag B on the standard cor. of secs. 35 and 36..... = 25.04 chs.
Distance from the 61.00 chs. point to flag A..... = 35.96 chs.
Distance from flag B on the standard cor. of secs. 35 and 36 to the 61.00 chs. point by direct measurement and triangulation..... = 61.00 chs.,
which agrees with the distance obtained by chaining from the standard cor. of secs. 35 and 36 to the 61.00 chs. point.

To determine the distance from the standard cor. of secs. 35 and 36 to a point beyond the 61.00 chs. point at the base of the high ledge, I make the following triangulation:

Designate the standard cor. of secs. 35 and 36 as point A; from point A, erect a flag B on line approximately 70.00 chs. dist. From flag B, a flag C previously set east 45.11 chs. dist. from the standard cor. of Tps. 20 S., Rs. 12 and 13E., on the base line used in determining a portion of the distance bet. secs. 31 and 36, and 25 and 30, on the E. bdy. of the Tp., bears S.60°00'E. The base line from the standard cor. of secs. 35 and 36 or point A to

Chains	
	flag C has a bearing of west and a length of 125.11 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°. Angle at point A = 90°01' Angle at flag B = 59°59' Angle at flag C = 30°00'



Distance from the standard cor. of secs. 35 and 36 or point A to flag B.....= 72.24 chs., or at

72.24 Triangulation flag B.

Thence,

S0°01'E., 5.34 chs. dist. to the top of the nearly perpendicular red sandstone ledge, the base of which is noted and described at 61.00 chs. The top of the ledge bears same as the base.

Thence, from the top of the ledge;

N.0°01'W., over rough and broken top of bench or shelf, through scattering timber; asc. gradually 60 ft.

75.70 Spur, projects E. about 3 chs. dist.; desc. gradual N. slope 30 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, $2\frac{3}{4}$ ft. high, for cor. of secs. 25, 26, 35, and 36, with brass cap mkd.

T20S	R12E
S26	S25
S35	S36

1933

from which

A pinon pine limb, 10 ins. diam., bears N.56°45'E., 49 lks. dist., mkd. T 20 S R 12 E S 25 B T.

A pinon pine limb, 6 ins. diam., bears S.64°00'E., 32 lks. dist., mkd. T 20 S R 12 E S 36 B T.

A pinon pine limb, 7 ins. diam., bears S.36°45'W., 156 lks. dist., mkd. T 20 S R 12 E S 35 B T.

A pinon pine limb, 7 ins. diam., bears N.34°15'W., 163 lks. dist., mkd. T 20 S R 12 E S 26 B T.

Land, abrupt, broken, and rugged with outcroppings, large boulders, rims, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone formation; general drainage to the SE.

Soil, shallow and rocky red sand, lying on sandstone bedrock, 4th. rate; surface rock exposed on portions of mile.

Timber, cedar and pinon pine.

Undergrowth, black brush, mountain rush, service berry bushes, yellow top, and shadscale; scattering to fair

Chains

growth of bunch grass.

Poor grazing land.

East, on a random line bet. secs. 25 and 36.

40.00 Set temp. ¼ sec. cor.

72.40 Base of a sloping and nearly perpendicular red sandstone ledge, wall, or rim of mountain, about 400 ft. high, bears N.70°W. and S.70°E.

The true point for cor. of secs. 25, 30, 31, and 36, falls on the SW. face of the ledge, making it inaccessible, and as it is impracticable to continue chaining east from this station, I return to the 70.00 chs. point, which is a suitable and convenient site for offsetting, and offset

South, 5.75 chs. dist.; then on offset line

East, 10.03 chs. dist. to

80.03 Intersect the E. bdy. of the Tp., 5 lks. S. of the witness cor. of secs. 25, 30, 31, and 36, or 5.80 chs. S. of the true point for cor. of said secs, hereinbefore described.

Thence, from the witness cor. of secs. 25, 30, 31, and 36,

S.89°58'W., 10.03 chs. dist. on offset line.

Thence, offset

North, 5.75 chs. dist. to true line or at

10.03 Point of offset, about 250 ft. below the true point for the cor. of secs. 25, 30, 31, and 36.

Thence,

S.89°58'W., on a true line bet. secs. 25 and 36.

Desc. precipitous rough and broken general SW. slope, 350 ft. through scattering timber and undergrowth.

24.60 Rugged gulch, drains southeasterly; asc. abrupt NE. slope 450 ft. to

33.20 Top of broken and nearly perpendicular sandstone ledge or E. rim of bench, mesa, or shelf, 75 ft. high, bears NE. and SW.; over nearly level top, through a medium heavy growth of timber, bearing NE. and SW.

35.10 Top of broken and nearly perpendicular sandstone ledge or N. rim of gulch or draw, 40 ft. high, bears N.70°W. and S.70°E.; desc. 45 ft. along SW. slope to

40.02 True point for ¼ sec. cor. falls in the bottom of rugged gulch or draw, draining S.70°E., where the establishment of a cor. monument is unsafe from flood water, and rough outcroppings make the marking of cross (X) impracticable.

From the true point for ¼ sec. cor., S.64°00'E. 0.89 chs. dist., set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 4½ ft. base, 2¾ ft. high, for witness ¼ sec. cor., with brass cap mkd.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	WC $\frac{S\ 25}{\frac{1}{4}\ S\ 36}$ 1933
	from which
	A pinon pine limb, 4 ins. diam., bears N.61°15'E., 21 lks. dist., mkd. W C ¼ S 36 B T.
	A pinon pine, 7 ins. diam., bears S.86°30'W., 74 lks. dist., mkd. W C ¼ S 36 B T.
	There is no suitable place for a witness cor. on line within 10.00 chs. dist. of the true point for ¼ sec. cor.
41.50	Top of broken and nearly perpendicular sandstone ledge or N. rim of gulch or draw, 15 ft. high, bears N.60°E. and S.60°W., 30 ft. above the true point for ¼ sec. cor.; asc. gradually 120 ft. over rough and broken top of bench, mesa, or shelf to
63.20	Leave top of bench, mesa or shelf, bears NE. and SW.; timber becomes scattering, bearing northeasterly and southwesterly; begin precipitous ascent of 425 ft. over SE. slope.
71.20	Top of nearly perpendicular red sandstone ledge, 320 ft. high, bears N.30°E. and S.30°W., and forms the E. rim of a bench or shelf; asc. gradually 30 ft. along N. slope, over rough and broken top to
80.03	The cor. of secs. 25, 26, 35, and 36.
	Land, abrupt, broken, and mountainous; rugged with outcroppings, large boulders, rims, sliderock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone and shale formation; general drainage to the SE.
	Soil, shallow and rocky red sand and clay, lying on alternate layers of varied colored clays and bedrock, 4th. rate.
	Timber, cedar and pinon pine.
	Undergrowth, mountain rush, black brush, service berry bushes, yellow top, and shadscale; scattering to a fair growth of bunch grass.
	Poor grazing land.
	N.0°01'W., bet. secs. 25 and 26.
	Over rough and broken mountainous land, through scattering timber and undergrowth; desc. gradual N. slope 10 ft., across bench or shelf.
0.40	Wash, 20 lks. wide, 5 ft. deep, in the head of draw, draining E.; asc. gradually 35 ft. to
18.80	Leave bench or shelf at the base of a sloping sandstone ledge, 165 ft. high, bearing NW. and SE.; asc. S. slope 65 ft. from the top of ledge.
26.10	Spur, projects easterly; desc. abrupt N. slope 380 ft. to

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
40.00	True point for $\frac{1}{4}$ sec. cor. falls in wash, 30 lks. wide, 5 ft. deep, in the bottom of gulch, draining northeasterly; asc. S. slope 25 ft. to
43.70	On top of spur, sloping E. about 2 chs. dist., set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, with a sandstone, 8x3x2 ins., mkd. X, deposited at the base, and in a mound of stone, 6 ft. base, $2\frac{1}{2}$ ft. high, for witness $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 26 | S 25 WC 1933
	There are no trees within a reasonable distance suitable for marking.
48.20	Wash, 40 lks. wide, 4 ft. deep, in the bottom of gulch, 35 ft. below the witness $\frac{1}{4}$ sec. cor., drains SE. approximately 4 chs. dist., thence northeasterly; asc. abrupt S. slope 280 ft.
53.60	Top of nearly perpendicular sandstone ledge, 120 ft. high, bears E. and W. about 8 chs. dist., thence southeasterly.
57.20	Spur, projects E. approximately 15 chs. dist.; desc. gradual N. slope 25 ft. to
64.70	Top of sloping sandstone ledge, 220 ft. high, bears E. and SW. about 2 chs. dist., thence N.; begin steep descent of 290 ft. over NW. slope.
74.20	Head of gulch, drains NE. approximately 5 chs. dist., thence easterly; asc. SE. slope 45 ft.
77.20	Spur, projects NE. about 3 chs. dist.; desc. 30 ft.
79.00	Gorge, drains easterly; asc. abrupt S. slope 15 ft. over surface rock to
80.00	The true point for cor. of secs. 23, 24, 25, and 26, falls on surface sandstone on the sloping and nearly perpendicular N. side or wall of the gorge, where it is impracticable to establish a cor. monument, but I chisel a cross (X).
	N.0°01'W. 6.60 chs. dist. from the true point for cor. of secs. 23, 24, 25, and 26, on line bet. secs. 23 and 24, I establish a witness cor. of secs. 23, 24, 25, and 26, hereinafter described.
	Land, abrupt, broken, and mountainous; rugged with rims, outcroppings, large boulders, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone and shale formation; general drainage to the NE.
	Soil, shallow and rocky red sand, lying on bedrock, 4th. rate. Surface rock exposed on portions of mile.
	Timber, scattering to a medium growth of cedar and pinon pine.
	Undergrowth, black brush, mountain rush, service berry bushes, yellow top, and shadscale; scattering to a fair growth of bunch grass.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Poor grazing land.
	From the true point for the cor. of secs. 23, 24, 25, and 26,
	N.89°58'E., on a random line bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the E. bdy. of the Tp., 2 lks. S. of the true point for cor. of secs. 19, 24, 25, and 30, hereinbefore described.
	Thence,
	S.89°57'W., on a true line bet. secs. 24 and 25.
	Over rough and broken mountainous land, through scattering timber and undergrowth; desc. steep SW. slope 20 ft.
1.00	Wash, 10 lks. wide, 6 ft. deep, in the bottom of gulch, drains southwesterly; asc. abrupt general SE. slope 100 ft. to
6.86	Establish the witness cor. of secs. 19, 24, 25, and 30, hereinbefore described.
12.40	Ascent becomes more gradual.
21.00	Top of ascent, 175 ft. above the witness cor. of secs. 19, 24, 25, and 30, bears northeasterly and southwesterly; over nearly level top of spur from W., projects northeasterly, through a medium heavy growth of timber, bearing NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 5 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 24 / S 25 1933
	from which
	A pinon pine, 12 ins. diam., bears N.16°45'W., 52 lks. dist., mkd. ¼ S 24 B T.
	There are no trees available in sec. 25, suitable for marking.
	This ¼ sec. cor. stands 40 ft. above top of ascent noted at 21.00 chs.
40.20	Leave medium heavy growth of timber, bears NW. and SE., and enter scattering.
40.40	Top of nearly perpendicular red sandstone ledge or N. rim of a fork of Walker Canyon, 175 ft. high, bears NW. and SE.; leave nearly level top of spur, begin precipitous descent of 350 ft. over rugged SW. slope.
51.00	Wash, 40 lks. wide, 4 ft. deep, in the bottom of gulch or fork of Walker Canyon, drains southeasterly; asc. general SE. slope 150 ft.

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SUBDIVISION OF T., 20 S., R. 12 E.

Chains

69.20 Spur, slopes NE. about 6 chs. dist.; desc. 110 ft.

74.90 Wash, 40 lks. wide, 4 ft. deep, in the bottom of the same gulch or fork of Walker Canyon as noted at 51.00 chs., drains northeasterly; asc. abrupt rugged general SE. slope 160 ft., over surface rock to

80.00 The true point for the cor. of secs. 23, 24, 25, and 26.

Land, abrupt, broken, and mountainous, and rugged with rims, outcroppings, large boulders, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone and shale formation, E. 21.00 chs. and W. 39.60 chs.; gently rolling and nearly level top of spur, remainder of mile; general drainage easterly by Walker Canyon.

Soil, shallow red sand, lying on bedrock, 4th. rate. Surface rock exposed on portions of mile.

Timber, cedar and pinon pine.

Undergrowth, black brush, mountain rush, and yellow top; scattering to a fair growth of bunch, gramma, and red top grass.

Poor to fair grazing land.

From the true point for the cor. of secs. 23, 24, 25, and 26,

N.0°01'W., bet. secs. 23 and 24.

Over rough and broken mountainous land; asc. abrupt SE. face of ledge 160 ft. to

2.80 Top of sloping and nearly perpendicular sandstone ledge or N. side or wall of gorge, 175 ft. high, bears NE. about 60 lks. dist., thence N.10°E., and S.60°W.; enter scattering timber and undergrowth; asc. gradual S. slope 10 ft. to

6.60 Set an iron post, 3 ft. long, 2 ins. diam., over a X chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2¾ ft. high, for witness cor. of secs. 23, 24, 25, and 26, with brass cap mkd.

T20S	R12E
S23	S24
S26	S25

WC
1933

from which

A pinon pine, 8 ins. diam., bears N.21°15'E., 78 lks. dist., mkd. W C T 20 S R 12 E S 24 B T.

A pinon pine, 5 ins. diam., bears S.63°45'E., 37 lks. dist., mkd. W C T 20 S R 12 E S 24 B T.

A pinon pine, 10 ins. diam., bears S.64°00'W., 90 lks. dist., mkd. W C T 20 S R 12 E S 23 B T.

A pinon pine limb, 4 ins. diam., bears N.77°15'W., 87 lks. dist., mkd. W C T 20 S R 12 E S 23 B T.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
7.00	Enter a medium heavy growth of timber, bears N.60°W. and S.60°E.
12.80	Spur, 30 ft. above the witness cor. of secs. 23, 24, 25, and 26, projects easterly; desc. 10 ft.
15.40	Draw, drains NW.; asc. S. slope 10 ft.
19.90	Top of ascent, bears E. and W.; desc. N. slope 35 ft.
24.90	Draw, drains NW.; gradual ascent of 10 ft.
30.20	Spur, projects NW.; desc. 60 ft.
39.00	Head of draw, drains NW.; asc. SW. slope 5 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd. ¼ S 23 | S 24 1933 from which A pinon pine limb, 6 ins. diam., bears S.34°30'E., 40 lks. dist., mkd. ¼ S 24 B T. A pinon pine, 10 ins. diam., bears S.53°45'W., 80 lks. dist., mkd. ¼ S 23 B T.
41.40	Top of ascent, 10 ft. above ¼ sec. cor., bears NW. and SE.; desc. NE. slope 140 ft.
75.80	Wash, 25 lks. wide, 6 ft. deep, in the bottom of draw, drains NW.; asc. 25 ft.
79.00	Spur, slopes NW. about 3 chs. dist.; desc. NE. slope 10 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, 2¾ ft. high, for cor. of secs. 13, 14, 23, and 24, with brass cap mkd. T20S R12E S14 | S13 S23 | S24 1933 from which A pinon pine, 5 ins. diam., bears N.86°15'E., 118 lks. dist., mkd. T 20 S R 12 E S 13 B T. A pinon pine, 10 ins. diam., bears S.19°00'E., 44 lks. dist., mkd. T 20 S R 12 E S 24 B T. A pinon pine, 6 ins. diam., bears S.42°30'W., 32 lks. dist., mkd. T 20 S R 12 E S 23 B T. A pinon pine, 12 ins. diam., bears N.64°30'W., 20 lks. dist., mkd. T 20 S R 12 E S 14 B T. Land, broken, and rough with outcroppings and rimrock of light colored, gray, and yellow sandstone formation; drainage SE. into Walker Canyon, S. 12.80 chs.; remainder of mile drains NW.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Soil, red sand, varying in depth from a few ins. to about 2 ft., lying on bedrock, 2nd. to 4th. rate.
	Timber, medium to heavy growth of cedar and pinon pine.
	Undergrowth, black brush, mountain rush, service berry bushes, yellow top, and shadscale; scattering growth of bunch and gramma grass.
	Poor grazing land.
	N.89°57'E., on a random line bet. secs. 13 and 24.
4.50	Base of impassable, barren sandstone dome or butte, about 200 ft. high, bears N. approximately 6 chs. dist. and S. about 2 chs. dist.
	From this station, offset
	S.0°01'E., 6.16 chs. dist., then on offset line
	N.89°57'E., 4.50 chs. dist.; thence offset
	N.0°01'W., 6.16 chs. dist. to the E. base of the dome or butte.
	Thence,
	N.89°57'E., on random line.
40.00	Set temp. ¼ sec. cor.
74.50	Base of impassable, barren sandstone dome or butte, about 150 ft. high, bears N. and S. The true point for the cor. of secs. 13, 18, 19, and 24, falls on the inaccessible, abrupt, and broken W. face of this dome or butte.
	I return to the 70.00 chs. point, the most suitable site for offsetting, and offset
	North, 15.62 chs. dist., then on offset line
	N.89°57'E., 11.05 chs. dist. to
80.05	Intersect the E. bdy. of the Tp., North 7.88 chs. dist. from the witness cor. of secs. 13, 18, 19, and 24, or 15.68 chs. dist. from the true point for the cor. of said secs., hereinbefore described.
	Thence, from the witness cor. of secs. 13, 18, 19, and 24, offset
	North, 7.88 chs. dist., then on offset line
	S.89°59'W., 11.05 chs. dist.; thence offset
	South, 15.68 chs. dist. to true line, or at
11.05	Point of offset, about 150 ft. below the true point for the cor. of secs. 13, 18, 19, and 24, and 50 ft. below the base of the impassable, barren sandstone dome or butte noted at 74.50 chs. on random line.
	Thence,
	S.89°59'W., on a true line bet. secs. 13 and 24.

U. S. GOVERNMENT PRINTING OFFICE: 1921 G—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Over rough and broken land, through a medium heavy growth of timber and scattering undergrowth; desc. gradually 10 ft.
12.10	Base of descent, bears N. and S.; asc. gradually 10 ft.
15.20	Spur, slopes N. about 1 ch. dist.; desc. gradually 5 ft.
18.10	Wash, 10 lks. wide, 1 ft. deep, in the bottom of draw, drains NE.; asc. gradual SE. slope 45 ft.
31.00	Extreme NE. point of spur, from SW.; desc. NW. slope 15 ft. to
40.02	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2¾ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 13 / S 24 1933
	from which
	A pinon pine limb, 8 ins. diam., bears S.20°45'E., 60 lks. dist., mkd. ¼ S 24 B T.
	A pinon pine, 10 ins. diam., bears N.45°45'W., 42 lks. dist., mkd. ¼ S 13 B T.
40.40	Draw, 5 ft. below ¼ sec. cor., drains northeasterly; asc. general E. slope 55 ft.
57.00	Divide bet. Cottonwood and Walker Canyons' drainage on the E. and Red Canyon drainage on the W., bears N. and S.; desc. 70 ft. to wash in bottom of draw, hereinafter noted at 77.80 chs. bet. secs. 13 and 24.
61.00	Top of rocky point or knoll, about 250 ft. high.
71.05	Point of offset at the base of the impassable, barren sandstone dome or butte, bearing N. and S.
73.30	Approximate dist. Top of the dome or butte, bears N. and S.
	From the point of offset at 71.05 chs., offset
	S.0°01'E., 6.16 chs. dist., then on offset line
	S.89°59'W., 4.50 chs. dist.; thence offset
	N.0°01'W., 6.16 chs. dist. to true line.
	Thence,
	S.89°59'W., on true line.
77.80	Wash, 20 lks. wide, 5 ft. deep, in the bottom of draw, drains northwesterly; asc. 10 ft. along NE. slope to
80.05	The cor. of secs. 13, 14, 23, and 24.
	Land, rolling, rough, and broken, draining to the NE.; blue limestone and yellow and light colored sandstone ledges, rim rock, and outcroppings, and red and yellow sandstone domes or buttes.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Soil, shallow and rocky red sand, varying in depth from surface rock to several ft., lying on bedrock, 2nd. to 4th. rate.
	Timber, scattering to a heavy growth of cedar and pinon pine.
	Undergrowth, mountain rush, yellow top, and white sagebrush; scattering shadscale in bottoms of draws and gulches; scattering to a fair growth of bunch and gramma grass.
	Poor to fair grazing land.
	N.0°01'W., bet. secs. 13 and 14.
	Desc. gradual NE. slope 155 ft., over rough and broken land, through a medium heavy growth of timber and scattering undergrowth.
1.50	Wash, 20 lks. wide, 5 ft. deep, drains NW.
28.80	Head of draw, drains westerly; asc. SE. slope 55 ft.
29.80	A sandstone dome or butte, about 100 ft. high, extending N. and S. approximately 2 chs. dist. and E. and W. about 1.50 chs. dist., bears west 1.00 chs. dist. from line.
38.80	Top of ascent, bears NE. and SW.; desc. gradual NW. slope 5 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 14 | S 13

1933

from which

A cedar limb, 4 ins. diam., bears S.31°15'E., 65 lks. dist., mkd. ¼ S 13 B T.

A cedar, 7 ins. diam., bears S.48°30'W., 27 lks. dist., mkd. ¼ S 14 B T.

60.50	Wash, 15 lks. wide, 2 ft. deep, in the bottom of draw, 65 ft. below ¼ sec. cor., drains NW.; asc. general S. slope 40 ft.
67.80	Top of ascent on W. point of knoll, sloping W. about 20 lks. dist.; desc. abrupt general N. slope 80 ft.
72.70	Wash, 25 lks. wide, 6 ft. deep, in the bottom of draw, drains northwesterly; asc. steep SE. slope 50 ft.
75.30	Spur, slopes SW. approximately 3 chs. dist.; desc. 55 ft. to sec. cor., across head of draw.
78.30	Head of the draw, drains westerly.
80.00	On SW. slope near top of spur, set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, 1 ft. high, for cor. of secs. 11, 12, 13, and 14, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 1933 G—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	T20S | R12E S11 | S12 S14 | S13 1933 from which
	A pinon pine, 6 ins. diam., bears N.67°45'E., 59 lks. dist., mkd. T 20 S R 12 E S 12 B T.
	A pinon pine limb, 8 ins. diam., bears S.73°00'E., 135 lks. dist., mkd. T 20 S R 12 E S 13 B T.
	A pinon pine, 9 ins. diam., bears S.84°00'W., 50 lks. dist., mkd. T 20 S R 12 E S 14 B T.
	A pinon pine limb, 8 ins. diam., bears N.26°15'W., 105 lks. dist., mkd. T 20 S R 12 E S 11 B T.
	Land, rough, broken, and mountainous, draining NW., thence northeasterly; gray and light colored sandstone rim rock, outcroppings, and domes or buttes.
	Soil, shallow red sand, lying on sandstone bedrock, 4th. rate.
	Timber, scattering to a heavy growth of cedar and pinon pine.
	Undergrowth, scattering mountain rush, yellow top, shadscale, black brush, and service berry bushes; scattering growth of bunch grass.
	Poor to fair grazing land.
	N.89°59'E., on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect the E. bdy. of the Tp., 12 lks. S. of the cor. of secs. 7, 12, 13, and 18, hereinbefore described.
	Thence,
	S.89°54'W., on a true line bet. secs. 12 and 13.
	Over rough and broken land, through scattering timber and undergrowth; desc. SW. slope of surface rock and outcroppings.
4.60	Top of broken and nearly perpendicular sandstone ledge, 55 ft. high, bears NW. and SE.
11.20	Head of gulch, 140 ft. below sec. cor., drains southeasterly; asc. abruptly 60 ft.
11.90	Top of ascent, bears NW. and SE.; desc. 10 ft.
17.00	Wash, 20 lks. wide, 5 ft. deep, in the bottom of draw, drains northeasterly; asc. general E. slope 135 ft. to
27.60	Top of broken and sloping sandstone ledge, 85 ft. high, bears NE. approximately 12 chs. dist., thence easterly, and SW. about 3 chs. dist., thence southeasterly; asc. gradual general E. slope 35 ft.

U. S. GOVERNMENT PRINTING OFFICE: 1924 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
33.90	Top of ascent, bears N. and S.; desc. gradual W. slope 25 ft. to
40.03	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, $5\frac{1}{2}$ ft. base, $2\frac{3}{4}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$ S. 12 / S 13 1933

from which

A pinon pine limb, 6 ins. diam., bears S.8°30'W., 62 lks. dist., mkd. $\frac{1}{4}$ S 13 B T.

A pinon pine, 10 ins. diam., bears N.51°00'W., 128 lks. dist., mkd. $\frac{1}{4}$ S 12 B T.

60.20	Top of broken and nearly perpendicular sandstone ledge, 120 ft. high, bears NW. and S.30°E., 35 ft. below $\frac{1}{4}$ sec. cor.; desc. more abruptly 250 ft. over W. slope.
67.50	Wash, 25 lks. wide, 6 ft. deep, in the bottom of gulch, heads SE. about 15 chs. dist., drains northwesterly; asc. abruptly 135 ft.
77.30	Spur, projects NW.; desc. SW. slope 35 ft. to
80.06	The cor. of secs. 11, 12, 13, and 14.

Land, rough and broken; yellow and light colored sandstone outcroppings, rim rock, and broken, sloping, and nearly perpendicular ledges; drainage southeasterly, E. 33.90 chs.; W. 46.16 chs. drain northwesterly.

Soil, shallow and rocky red sand, lying on bedrock, 3rd. and 4th. rate.

Timber, scattering to a heavy growth of cedar and pinon pine.

Undergrowth, black brush, mountain rush, yellow top, service berry bushes, and shadscale; scattering to a fair growth of bunch and gramma grass.

Poor to fair grazing land.

N.0°01'W., bet. secs. 11 and 12.

Over rough and broken mountainous land, through scattering timber and undergrowth; asc. gradual SW. slope 5 ft.

2.70	Spur, projects NW.; desc. NE. slope 165 ft.
6.80	Top of nearly perpendicular sandstone ledge, 65 ft. high, bears NW. about 2 chs. dist., thence southwesterly, and SE.
10.10	Wash, 30 lks. wide, 5 ft. deep, in the bottom of draw, drains NW.; asc. abruptly 50 ft.
13.00	Rocky spur, projects W. about 1.50 chs. dist.; desc. N. slope 65 ft.
24.90	Wash, 20 lks. wide, 5 ft. deep, in the bottom of draw,

Chains	
	drains NW, approximately 4 chs. dist., thence NE.; asc. gradual S. slope 5 ft.
29.60	Top of knoll; desc. N. slope 20 ft.
31.90	Wash, 20 lks. wide, 5 ft. deep, in the bottom of draw, drains NW. about 3 chs. dist., thence NE.; asc. gradual SW. slope 5 ft., through a heavy growth of timber, bearing NW. and SE.
33.30	A two strand barb wire fence, bears E. about 30 lks. dist. and W.
35.80	Western extremity of spur from SE.; desc. NW. slope 40 ft.
38.30	Wash, 10 lks. wide, 2 ft. deep, in the bottom of draw, drains NE.; gradual ascent of 5 ft. to
39.80	On SE. slope, set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 5 ft. base, $2\frac{3}{4}$ ft. high, for witness $\frac{1}{4}$ sec. cor., with brass cap mkd. W C $\frac{1}{4}$ S 11 | S 12 1933 from which A cedar, 10 ins. diam., bears S.84°15'E., 56 lks. dist., mkd. W C $\frac{1}{4}$ S 12 B T. A pinon pine, 10 ins. diam., bears N.20°15'W., 143 lks. dist., mkd. W C $\frac{1}{4}$ S 11 B T.
40.00	True point for $\frac{1}{4}$ sec. cor. falls on a shale ledge or outcropping, 6 ft. high, bearing NE. and SW., on top of spur, sloping NE. about 2 chs. dist., where the establishment of a cor. monument or the marking of a cross (X) are impracticable. The true point for $\frac{1}{4}$ sec. cor. is located 10 ft. above the witness $\frac{1}{4}$ sec. cor.
40.90	Wash, 30 lks. wide, 3 ft. deep, in the bottom of draw, 10 ft. below the true point for $\frac{1}{4}$ sec. cor., drains NE. approximately 8 chs. dist., thence northwesterly; asc. S. slope 15 ft.
43.10	Spur, slopes E. about 2 chs. dist.; leave timber, bears NE. and NW.; desc. gradual N. slope 25 ft., across basin.
55.40	Wash, 30 lks. wide, 3 ft. deep, in the bottom of basin, drains NW.; asc. gradual S. slope 35. ft.
58.40	Enter a medium heavy growth of timber, bears E. and W.
60.60	Spur, projects W.; desc. abrupt N. slope 65 ft.
61.50	Top of broken sandstone ledge or S. rim of basin, 20 ft. high, bears E. and W.; leave timber, bears E. and W.; descent becomes more abrupt.
68.20	Base of steep descent, bears E. and W.; desc. gradually 5 ft., over nearly level bottom of basin.
74.50	Wash, 40 lks. wide, 5 ft. deep, in the bottom of the basin, drains northeasterly; asc. gradual SE. slope 100 ft. to

U. S. GOVERNMENT PRINTING OFFICE: 1964 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
78.90	Top of broken sandstone ledge or N. rim of basin, 60 ft. high, bears NE. and SW.; enter a medium heavy growth of timber, bears NE. and SW.; asc. gradual SE. slope 10 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the ground to bedrock, with a sandstone, 6x4x1 ins., mkd. X, deposited at the base, and in a mound of stone, 3½ ft. base, 1 ft. high, for cor. of secs. 1, 2, 11, and 12, with brass cap mkd.

T20S R12E
S2 | S1
S11 | S12
1933

from which

A cedar, 5 ins. diam., bears S.51°45'W., 53 lks. dist., mkd. T 20 S R 12 E S 11 B T.

A cedar, 7 ins. diam., bears N.9°00'W., 123 lks. dist., mkd. T 20 S R 12 E S 2 B T.

There are no trees in secs. 1 and 12 within a reasonable distance suitable for marking.

Land, rough and broken mountains, draining generally to the NE.; outcroppings, rim rock, and broken, sloping, and nearly perpendicular ledges of blue limestone, and gray, yellow, and light colored sandstone formation.

Soil, red sand, shallow on tops and slopes, and about 1 to several ft. deep in the bottoms of draws, gulches, and basins, 1st. to 4th. rate.

Timber, scattering to a heavy growth of cedar and pinon pine.

Undergrowth, mountain rush, yellow top, shadscale, black brush, service berry bushes, and willows; bunch and gramma grass, good in bottoms, scattering to fair on tops and slopes.

Poor to fair grazing land.

N.89°54'E., on a random line bet. secs. 1 and 12.

40.00	Set temp. ¼ sec. cor.
80.04	Intersect the E. bdy. of the Tp., 2 lks. N. of the true point for cor. of secs. 1, 6, 7, and 12, or 4.88 chs. south of the witness cor. of said secs., hereinbefore described.

Thence, from the true point for cor. of secs. 1, 6, 7, and 12,

S.89°55'W., on a true line bet. secs. 1 and 12.

Desc. abrupt, rough, and barren SW. slope 35 ft. to

1.80	Wash, 25 lks. wide, 3 ft. deep, in the bottom of box canyon, drains southeasterly; enter scattering undergrowth; asc. precipitous NE. slope 225 ft. to
3.90	Top of nearly perpendicular sandstone ledge or W. rim of

Chains	
	box canyon, 200 ft. high, bears N.25°E. and S.25°W.; enter a medium heavy growth of timber, bears same as top of ledge; asc. gradual E. slope 10 ft.
12.30	Top of ascent, bears N. and S.; desc. W. slope 30 ft.
19.90	Wash, 10 lks. wide, 6 ft. deep, in the bottom of draw, drains NW.; asc. NE. slope 20 ft.
22.80	Spur, projects NW. approximately 12 chs. dist.; desc. 45 ft.
29.50	Wash, 10 lks. wide, 5 ft. deep, in the bottom of draw, heads SW. about 6 chs. dist., drains NW.; gradual ascent of 10 ft.
35.30	Spur, projects NW.; desc. SW. slope 45 ft. to
40.02	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 5 ft. base, 2¾ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 1 / S 12 1933
	All trees within a reasonable distance are too scrubby for marking for bearing trees.
46.70	Wash, 30 lks. wide, 4 ft. deep, in the bottom of draw, 95 ft. below ¼ sec. cor., drains NW.; asc. abruptly 40 ft.
49.30	Spur, slopes NW. approximately 6 chs. dist.; desc. gradual SW. slope 25 ft. to
55.50	Descent becomes abrupt, slope changing from SW. to W.
57.90	Top of broken and nearly perpendicular sandstone ledge or E. rim of basin, 105 ft. high, bears N. and S., 35 ft. below top of abrupt descent; continue steep descent of 185 ft.
61.00	Wash, 50 lks. wide, 5 ft. deep, in the bottom of basin, drains northwesterly approximately 8 chs. dist., thence northeasterly; leave medium heavy growth of timber, bears NW. and SE.; and enter scattering; asc. E. slope 20 ft.
72.00	S. extremity of knoll or butte, extending N. about 8 chs. dist.; desc. gradual W. slope 5 ft.
75.20	Draw, drains southeasterly approximately 6 chs. dist., thence northeasterly; asc. abrupt general SW. slope 90 ft. to W. rim of basin.
75.30	Enter a medium heavy growth of timber, bears NW. and SE.
79.60	Top of broken and nearly perpendicular sandstone ledge or W. rim of basin, 80 ft. high, bears NE. and SW.; asc. gradual SE. slope 5 ft. to
80.04	The cor. of secs. 1, 2, 11, and 12.
	Land, broken and mountainous, and rugged with outcroppings, rim rock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone and blue limestone formation; drainage easterly and southeasterly by a deep box canyon, E. 12.30 chs.; W. 67.74 chs. drain generally to the NE.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains

Soil, shallow and rocky red sand, lying on bedrock, 4th. rate; red sand and sandy loam, several ft. deep, in the bottom of basin on W. ½ mile, 1st. and 2nd. rate.

Timber; cedar and pinon pine.

Undergrowth, black brush, mountain rush, service berry bushes, shadscale, and yellow top; bunch and gramma grass, good in basin on W. ½ mile, scattering on other portions of mile.

Poor to fair grazing land.

North, on a random line bet. secs. 1 and 2.

40.00 Set temp. ¼ sec. cor.

80.00 Set temp. lot cor.

87.40 Intersect the N. bdy. of the Tp., 7 lks. W. of the cor. of secs. 1, 2, 35, and 36, heretofore described in the official field notes of T. 19 S., R. 12 E., in this group.

Thence,

S.0°03'W., on a true line bet. secs. 1 and 2.

Over rolling and broken land, through a medium heavy growth of timber and scattering undergrowth; asc. gradually 10 ft. to lot cor., along top of bench.

7.40 Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to solid rock, and in a mound of stone, 5½ ft. base, 2½ ft. high, for cor. of lots Nos. 4 and 5, sec. 1, and lots Nos. 1 and 8, sec. 2, with brass cap mkd.

S 2	1 | 4	S 1
	8 | 5	

1933

from which

A cedar, 5 ins. diam., bears N.29°30'E., 161 lks. dist., mkd. Lot 4 S 1 B T.

A cedar limb, 5 ins. diam., bears S.65°00'E., 196 lks. dist., mkd. Lot 5 S 1 B T.

A cedar limb, 4 ins. diam., bears S.35°30'W., 12 lks. dist., mkd. Lot 8 S 2 B T.

A cedar limb, 6 ins. diam., bears N.53°30'W., 154 lks. dist., mkd. Lot 1 S 2 B T.

10.20 S. edge of bench, 10 ft. above lot cor., bears NW. about 1 ch. dist., thence N.10°E., and SE.; desc. SW. slope 20 ft.

18.40 Leave timber, bears E. and W.

26.90 Draw, drains NE. approximately 10 chs. dist., thence southeasterly; asc. gradual N. slope 30 ft.

41.60 Top of ascent, bears E. and W.; desc. S. slope 30 ft. to ¼ sec. cor.

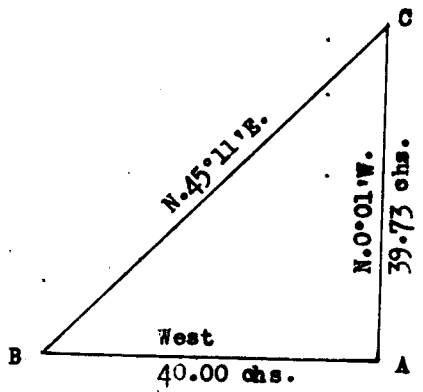
Chains	
46.80	Enter a medium heavy growth of timber, bears E. and W.
47.40	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2¾ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 2 | S 1 1933
	from which
	A pinon pine, 7 ins. diam., bears N.51°30'E., 24 lks. dist., mkd. ¼ S 1 B T.
	A pinon pine, 6 ins. diam., bears N.82°00'W., 55 lks. dist., mkd. ¼ S 2 B T.
49.20	Wash, 30 lks. wide, 3 ft. deep, in the bottom of draw, 20 ft. below ¼ sec. cor., drains NE.: asc. NW. slope 150 ft., over broken sandstone surface rock.
52.20	Leave sandstone surface rock, bears NE. and SW.
64.50	Ascent becomes gradual over nearly level NW. slope.
83.20	Ridge, bears NE. and SW.; desc. gradual SE. slope 10 ft. to
87.40	The cor. of secs. 1, 2, 11, and 12.
	Land, rolling and broken, draining generally to the NE.; blue limestone, and yellow and light colored sandstone outcroppings.
	Soil, red sand and sandy loam, about 6 ins. to 2 ft. deep, on tops and slopes, and several ft. deep in bottoms of draws, lying on bedrock, 1st. to 4th. rate.
	Timber, scattering to a medium heavy growth of cedar and pinon pine.
	Undergrowth, mountain rush, yellow top, shadscale, and black brush; bunch and gramma grass, fair on tops, and good growth on slopes and in bottoms.
	Fair grazing land.
	From the true point for the standard cor. of secs. 34 and 35, on the S. bdy. of the Tp., hereinbefore described,
	N.0°01'W., bet. secs. 34 and 35.
	Over rough and broken land, through scattering undergrowth; asc. abrupt S. slope 25 ft.
1.80	Spur, slopes westerly about 5 chs. dist.; desc. 35 ft. over washes, small draws, and spurs, putting to the SW.
18.40	Wash, 40 lks. wide, 5 ft. deep, in the bottom of draw, drains SW.; asc. gradual S. slope 10 ft.
24.30	Top of ascent, bears E. and W.; desc. 40 ft.

U. S. GOVERNMENT PRINTING OFFICE: 1901 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
26.80	Wash, 10 lks. wide, 2 ft. deep, in the bottom of draw, heads NE. about 4 chs. dist., drains SW.; asc. 35 ft.
28.20	Top of ascent, bears E. and W.; desc. 60 ft.
30.70	Wash, 20 lks. wide, 6 ft. deep, in the bottom of draw, heads NE. approximately 10 chs. dist., drains SW.; asc. 265 ft. to witness $\frac{1}{4}$ sec. cor., over rugged general SW. slope.
30.90	Base of abrupt ascent, bears NW. and SE.
39.75	N. from this station for a distance of approximately 18 chs., the line passes over series of high ledges on the steep and nearly barren SW. slope, making chaining impracticable; and as there are no suitable sites for base lines for triangulation nearer than the S. bdy. of the Tp., to determine the distance N. from this station, I verify the position of the 39.75 chs. point by triangulation as follows:

Set a flag A on the true point for standard cor. of secs. 34 and 35, and a flag B on the standard $\frac{1}{4}$ sec. cor. of sec. 34, on the S. bdy. of the Tp. Then erect a flag C at the 39.75 chs. point, which from flag B bears N.45°11'E. The base line from flag A to flag B has a bearing of west and a length of 40.00 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 89°59'
Angle at flag B = 44°49'
Angle at flag C = 45°12'

Distance from flag A to flag C by triangulation =39.73 chs.
Distance from flag A to flag C by chaining..... =39.75 chs.
Mean distance from flag A to flag C.....=39.74 chs.

Thence, from flag C

S.0°01'E., 0.08 chs. dist., or at

39.66 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to bedrock, with a sandstone, 7x2½x1½ ins., mkd. X, deposited at the base, and in a mound of stone, 5½ ft. base, 2 ft. high, for witness $\frac{1}{4}$ sec. cor., with brass cap mkd.

W C°
$\frac{1}{4}$

S 34 | S 35

1933

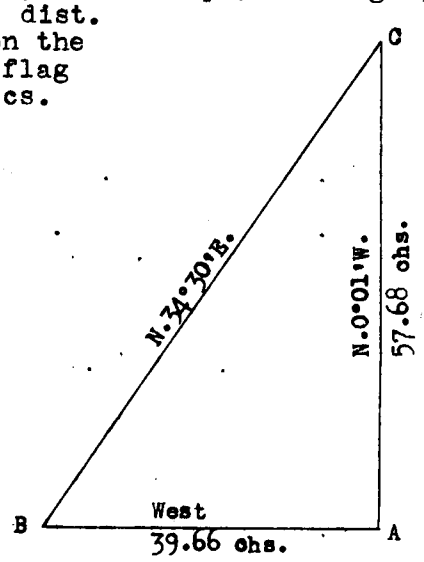
40.00 True point for $\frac{1}{4}$ sec. cor. falls on the SW. face of a nearly perpendicular red sandstone ledge, about 80 ft. high, bearing NW. and SE., where the establishment of a cor. monument or the marking of a cross (X) are impracticable.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains

I determine the distance from the true point for the standard cor. of secs. 34 and 35, on the S. bdy. of the Tp., to a point on line on top of spur, N. approximately 18 chs. dist. from the witness ¼ sec. cor. of secs. 34 and 35, by the following triangulation:

Designate the flag on the true point for the standard cor. of secs. 34 and 35, on the S. bdy. of the Tp., as flag A; and erect a flag B east 34 lks. dist. from the standard ¼ sec. cor. on the S. bdy. of sec. 34. Then, from flag A, set a flag C on line bet. secs. 34 and 35, N.0°01'W. about 18 chs. dist. from the witness ¼ sec. cor. From flag B, flag C bears N.34°30'E., and the base line from flag A to flag B has a bearing of west and a length of 39.66 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 89°59'
Angle at flag B = 55°30'
Angle at flag C = 34°31'

Distance from flag A to flag C.....= 57.68 chs., or at

57.68 Triangulation flag C, on top of rugged spur, 1260 ft. above the true point for the standard cor. of secs. 34 and 35, projecting W. approximately 25 chs. dist.

Thence, from flag C by direct measurement,

Desc. precipitous rough general N. slope 630 ft. to sec. cor., through scattering timber.

73.80 Enter a medium heavy growth of timber, bears E. and W.; descent becomes more gradual, bearing NE. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 15 ins. in the ground to bedrock, with a sandstone, 4x3x1 ins., mkd. X, deposited at the base, and in a mound of stone, 4 ft. base, 1½ ft. high, for cor. of secs. 26, 27, 34, and 35, with brass cap mkd.

T20S | R12E
S27 | S26
S34 | S35
1933

There are no trees within a reasonable distance from the cor., suitable for marking as bearing trees.

Land, rough and broken, S. 30.90 chs.; steep and rough mountainous, N. 49.10 chs.; outcroppings, large boulders, rim rock, sliderock, and series of broken, sloping, and nearly perpendicular ledges of varied colored sandstone; red and blue shale and blue limestone outcroppings; general drainage S. and SW. into the San Rafael River.

Soil, shallow red sand, lying on bedrock; or alternate layers of red sand, varied colored clays, red and blue shale, blue limestone, and sandstone, 4th. rate.

U. S. GOVERNMENT PRINTING OFFICE: 1934 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Timber, scrubby cedar and pinon pine; sparse growth on S. 73.80 chs., medium heavy growth on N. 6.20 chs. Undergrowth, mountain rush, black brush, yellow top, shadscale, and service berry bushes; scattering growth of bunch and gramma grass. Poor grazing land.
	East on a random line bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
79.84	Intersect N. and S. line, 6 lks. N. of the cor. of secs. 25, 26, 35, and 36. Thence, N.89°57'W., on a true line bet. secs. 26 and 35. Over rough and broken mountainous land, through scattering timber and undergrowth; asc. 85 ft. along gradual N. slope, across bench or shelf.
4.00	Bearing of slope changes from E. and W. to N. and S.
5.30	Top of ascent, bears N. and S.; gradual descent of 65 ft. over W. slope, through a medium heavy growth of timber, bearing N. and S.
14.30	Draw, drains S.; asc. gradual E. slope 40 ft.
31.90	Spur, slopes S. about 4 chs. dist.; desc. gradual W. slope 10 ft. to
39.92	At the base of descent, bearing N. and S., set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 4½ ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 26 / S 35 1933 from which A pinon pine limb, 4 ins. diam., bears S.20°45'E., 54 lks. dist., mkd. ¼ S 35 B T. A pinon pine, 8 ins. diam., bears N.5°15'E., 58 lks. dist., mkd. ¼ S 26 B T. From this cor., asc. gradually 35 ft. over nearly level and rolling E. slope to
48.50	Leave bench or shelf, bears N. and S.; leave medium heavy growth of timber, bears N.15°W. and S.15°E.; and enter scattering; begin steep ascent of 70 ft. over E. slope.
57.00	Spur, projects N.10°W. approximately 20 chs. dist.; desc. precipitous W. slope 680 ft.
61.80	Top of broken and nearly perpendicular sandstone ledge, 120 ft. high, bears northwesterly and S. about 12 chs. dist., thence southwesterly.

U. S. GOVERNMENT PRINTING OFFICE: 1931 G—8155

Chains	
78.20	Wash, 40 lks. wide, 4 ft. deep, in the bottom of gulch, drains N.70°W.; asc. 15 ft. along general N. slope to
79.84	The cor. of secs. 26, 27, 34, and 35.
	Land, rough and broken top of bench or shelf, E. 48.50 chs.; steep and rough mountainous, W. 31.34 chs.; outcroppings, large boulders, rim rock, sliderock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone; red and blue shale outcroppings; drainage generally SE. into the San Rafael River, E. 57.00 chs.; remainder of mile drains westerly into Lockhart Wash.
	Soil, shallow red sand, lying on bedrock, 4th. rate, on top of bench or shelf; shallow red sand, lying on bedrock, or alternate layers of red sand, varied colored clays, red and blue shale, or sandstone, 4th. rate, on steep and rough portions of mile. Surface rock exposed on parts of mile.
	Timber, cedar and pinon pine.
	Undergrowth, mountain rush, black brush, yellow top, shadscale, and service berry bushes; scattering to a fair growth of bunch grass.
	Poor to fair grazing land.

N.0°01'W., bet. secs. 26 and 27.

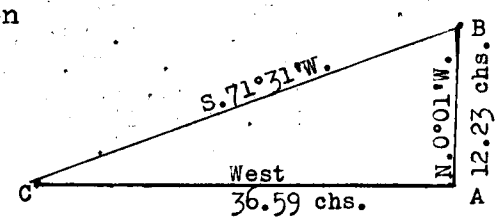
Desc. rough and broken N. slope 40 ft., through scattering timber and undergrowth.

1.10 Wash, 40 lks. wide, 4 ft. deep, in the bottom of gulch, drains W.; asc. precipitous S. slope 230 ft. to

7.90 Base of broken and nearly perpendicular red sandstone ledge, 265 ft. high, bears NW. and SE.

It is impracticable to chain over this ledge; therefore, I return to the 0.69 chs. point and triangulate as follows:

Erect a flag A at the 0.69 chs. point, and set a flag B on line on top of the ledge. Then, from flag A, measure a base line west 36.59 chs. dist. to a flag C, which from flag B, bears S.71°31'W. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 89°59'
Angle at flag B = 71°32'
Angle at flag C = 18°29'

Distance from flag A to flag B.....: 12.23 chs.
Distance from the cor. of secs. 26, 27, 34, and 35 to flag A.....: 0.69 chs.
Distance from the cor. of secs. 26, 27, 34, and 35 to flag B.....: 12.92 chs.,

or at

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains

12.92 Triangulation flag C, on top of the ledge, which bears same as the base.

Thence, from flag C by direct measurement,

Asc. gradual S. slope 65 ft.

27.20 Ridge, bears N.60°W. and S.60°E.; desc. gradual NE. slope 35 ft. to

29.30 Top of broken sandstone ledge or S. rim of a fork of Red Canyon, 50 ft. high, bears northwesterly, and southeasterly about 7 chs. dist., thence northerly; desc. steep NE. slope 475 ft. to

40.00 True point for ¼ sec. cor. falls in a slide of large rugged boulders, where it is impracticable to establish a cor. monument or mark a cross (X). Continue descent of 50 ft. to

42.10 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness ¼ sec. cor., with brass cap mkd.

¼

S 27 | S 26

W C
1933

from which

A pinon pine, 10 ins. diam., bears N.23°15'E., 98 lks. dist., mkd. W C ¼ S 26 B T.

A pinon pine, 8 ins. diam., bears S.78°15'W., 97 lks. dist., mkd. W C ¼ S 27 B T.

51.10 Wash, 30 lks. wide, 5 ft. deep, in the bottom of a fork of Red Canyon, 175 ft. below witness ¼ sec. cor., drains NW.; gradual ascent of 20 ft.

56.70 Spur, slopes NW. approximately 6 chs. dist.; desc. NE. slope 35 ft.

59.00 Wash, 25 lks. wide, 15 ft. deep, in the bottom of gulch, heads SE. approximately 25 chs. dist., drains NW. about 8 chs. dist. into a fork of Red Canyon, thence N.; asc. S. slope 25 ft.

66.20 Spur, projects W. about 7 chs. dist.; desc. gradual N. slope 85 ft. to

79.50 On top of a sloping sandstone ledge or S. rim of a box gulch, 40 ft. high, bearing N.80°W. and S.80°E., set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 2¼ ft. high, for witness cor. of secs. 22, 23, 26, and 27, with brass cap mkd.

WC

T20S	R12E
S22	S23
S27	S26

1933

from which

A pinon pine, 8 ins. diam., bears N.41°30'E., 60 lks. dist., mkd. W C T 20 S R 12 E S 26 B T.

A pinon pine, 10 ins. diam., bears S.39°30'E., 181 lks. dist., mkd. W C T 20 S R 12 E S 26 B T.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	A pinon pine, 8 ins. diam., bears S.68°15'W., 124 lks. dist., mkd. W C T 20 S R 12 E S 27 B T.
	A pinon pine limb, 7 ins. diam., bears N.85°15'W., 252 lks. dist., mkd. W C T 20 S R 12 E S 27 B T.
80.00	The true point for the cor. of secs. 22, 23, 26, and 27, falls on the abrupt and rough NE. face of the ledge or S. rim of the box gulch, 30 ft. below the witness sec. cor., where it is impracticable to establish a cor. monument or mark a cross (X).
	Land, steep, broken, and rough mountainous; outcroppings, rim rock, large boulders, sliderock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone formation; drainage generally S. into the San Rafael River, S. 27.20 chs.; N. 52.80 chs. drain generally N. into Red Canyon.
	Soil, shallow red sand, lying on bedrock, or red sand, alternate layers of varied colored clays, red shale, and sandstone, 4th. rate. Surface rock exposed on portions of mile.
	Timber, scattering to a medium heavy growth of cedar and pinon pine.
	Undergrowth, service berry bushes, mountain rush, and black brush; sparse to a fair growth of bunch grass.
	Poor grazing land.
	From the true point for the cor. of secs. 22, 23, 26, and 27,
	S.89°57'E., on a random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
79.84	Intersect N. and S. line, 17 lks. N. of the true point for cor. of secs. 23, 24, 25, and 26.
	Thence,
	N.89°54'W., on a true line bet. secs. 23 and 26.
	Over rough and broken mountainous land; asc. abruptly 160 ft. along SE. face of ledge to
3.90	Top of sloping and nearly perpendicular sandstone ledge or N. side or wall of gorge, 140 ft. high, bears northeasterly and southeasterly; enter a medium heavy growth of timber, bears northeasterly and southeasterly; asc. gradual NE. slope 15 ft., through scattering undergrowth.
5.00	Top of ascent, bears NW. and SE.; desc. 10 ft.
8.80	Draw, drains SE.; asc. E. slope 20 ft.
13.40	Top of ascent, bears N. and S.; desc. 25 ft. over W. slope.
16.20	Head of draw, drains SE.; asc. gradual E. slope 35 ft.
19.60	Spur, projects N. approximately 7 chs. dist.; desc. gradual W. slope 10 ft. to

U. S. GOVERNMENT PRINTING OFFICE: 1901 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
27.40	Top of nearly perpendicular sandstone ledge, 165 ft. high, bears N. about 4 chs. dist., thence southeasterly, and S.; desc. abrupt W. slope 305 ft. to
35.80	Base of steep descent, bears N. and S.; desc. gradually 20 ft., over nearly level and gently rolling top of bench or shelf.
39.00	Wash, 20 lks. wide, 6 ft. deep, in the bottom of draw, drains NW.; asc. gentle E. slope 5 ft. to
39.92	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2¾ ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 23 / S 26 1933 from which A pinon pine limb, 5 ins. diam., bears N.23°15'E., 50 lks. dist., mkd. ¼ S 23 B T. A pinon pine, 9 ins. diam., bears S.52°15'W., 10 lks. dist., mkd. ¼ S 26 B T.
45.00	Top of ascent, 15 ft. above ¼ sec. cor., bears NE. and SW.; desc. gradual NW. slope 70 ft. to
58.50	Top of broken and nearly perpendicular sandstone ledge or W. rim of bench or shelf, 250 ft. high, bears N. approximately 7 chs. dist., thence northeasterly, and SE.; precipitous descent of 675 ft., over rugged SW. slope to
74.10	Top of broken and nearly perpendicular sandstone ledge or E. rim of a box gulch, 20 ft. high, bears NW. and SE.
77.00	Bottom of the gulch, 40 ft. below E. rim, drains N.80°W.; asc. gradually 15 ft. along SE. side of gulch to
79.84	The true point for the cor. of secs. 22, 23, 26, and 27.

Land, steep, broken, and rough mountainous; outcroppings, rim rock, large boulders, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone formation; red and blue shale outcroppings; drainage easterly by Walker Canyon, E. 19.60 chs.; remainder of mile drains generally westerly by the East Fork of Red Canyon.

Soil, shallow red sand, lying on bedrock, or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate.

Timber, scattering to a heavy growth of cedar and pinon pine.

Undergrowth, black brush, mountain rush, and service berry bushes; scattering to a fair growth of bunch grass on portions of mile.

Poor grazing land.

From the true point for the cor. of secs. 22, 23, 26, and 27,

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	N.0°01'W., bet. secs. 22 and 23.
	Over rough and broken mountainous land, through scattering timber and undergrowth; desc. NE. slope 15 ft.
1.50	Wash, 20 lks. wide, 3 ft. deep, in the bottom of gulch, drains W. about 5 chs. dist. into a fork of Red Canyon, thence N.; asc. abrupt S. slope 40 ft. to
3.10	Top of broken and nearly perpendicular sandstone ledge or N. rim of box gulch, 20 ft. high, bears E. and W.; enter a medium heavy growth of timber, bears E. and W.; asc. gradual S. slope 5 ft.
5.00	Spur, slopes W. about 4 chs. dist.; desc. N. slope 95 ft.
28.90	Draw, drains SW.; asc. gradually 5 ft.
30.60	Spur, slopes SW. about 2.50 chs. dist.; desc. gradually 15 ft.
32.60	Wash, 70 lks. wide, 6 ft. deep, in the bottom of the E. fork of Red Canyon, drains S.25°W.; asc. gradual S. slope 40 ft.
38.20	Spur, slopes W. about 1 ch. dist.; desc. gradual N. slope 10 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	S 22 | S 23 1933
	from which
	A pinon pine, 9 ins. diam., bears N.41°15'E., 11 lks. dist., mkd. ¼ S 23 B T.
	A cedar, 8 ins. diam., bears S.36°15'W., 73 lks. dist., mkd. ¼ S 22 B T.
42.00	Wash, 50 lks. wide, 5 ft. deep, in the bottom of the E. fork of Red Canyon, 10 ft. below ¼ sec. cor., drains southwesterly approximately 5 chs. dist., thence southeasterly; seepage of water, slightly alkaline, rises and sinks in places in the bottom of this canyon; asc. abrupt SE. slope 335 ft. to
48.50	Top of broken and nearly perpendicular red sandstone ledge or W. rim of the E. fork of Red Canyon, 205 ft. high, bears NE. and SW.; asc. gradually 35 ft., over nearly level top of bench or shelf.
57.20	Top of broken and nearly perpendicular sandstone ledge, 180 ft. high, bears NE. and SW.; desc. gradually 15 ft., over nearly level top of bench or shelf.
75.80	Top of broken and sloping red sandstone ledge or W. rim of the E. fork of Red Canyon, 100 ft. high, bears NW. and SE. approximately 3 chs. dist., thence S.; leave medium heavy growth of timber, bears NW. and SE., and enter scattering; desc. steep NE. slope 210 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	ground to bedrock, with a sandstone, 5x5x1 ins., mkd. X, deposited at the base, and in a mound of stone, 4 ft. base, 1 ft. high, for cor. of secs. 14, 15, 22, and 23, with brass cap mkd. T20S R12E S15 | S14 S22 | S23 1933 There are no trees within a reasonable distance suitable for bearing trees. This cor. stands at the base of descent, bearing NE. and SE. Land, steep, broken, and rough mountainous; outcroppings, rim rock, large boulders, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone formation; red and blue shale outcroppings; drainage southwesterly and westerly by the E. fork of Red Canyon. Soil, shallow red sand, lying on bedrock, or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate. Timber, cedar and pinon pine. Undergrowth, black brush, mountain rush, and service berry bushes; scattering to a fair growth of bunch grass on portions of mile. Poor grazing land.
	S.89°54'E., on a random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
79.68	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 13, 14, 23, and 24.
	Thence,
	N.89°52'W., on a true line bet. secs. 14 and 23.
	Asc. gradual NE. slope 5 ft., over rough and broken land, through a medium heavy growth of timber and scattering undergrowth.
1.00	Spur, slopes NW. about 1 ch. dist.; desc. gradual SW. slope 90 ft.
28.90	Wash, 20 lks. wide, 4 ft. deep, in the bottom of draw, drains NW. about 1 ch. dist., thence westerly; asc. gradual NE. slope 10 ft.
30.00	Spur, slopes N. approximately 1.50 chs. dist.; desc. gradually 45 ft. along bottom of wash, 20 lks. wide, 4 ft. deep, in draw from the SE.
35.70	Leave wash, 20 lks. wide, 4 ft. deep, in draw, drains NW.; asc. NE. slope 20 ft.
36.80	Spur, slopes NW. about 3 chs. dist.; desc. gradual SW. slope 20 ft. to
38.70	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, 2¾ ft. high, for witness ¼ sec. cor., with brass cap mkd.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	W ¼ C $\frac{S\ 14}{S\ 23}$ 1933
	There are no trees within a reasonable distance suitable for bearing trees.
39.20	Top of broken and sloping sandstone ledge or E. rim of the E. fork of Red Canyon, 145 ft. high, bears NW. and SE., 5 ft. below the witness ¼ sec. cor.; precipitous descent of 210 ft. to the top of spur, across the head of draw, draining SW.
39.64	True point for ¼ sec. cor. falls on the SW. face of the ledge or E. rim of the E. fork of Red Canyon, where it is impracticable to establish a cor. monument or mark a cross (X).
65.20	Spur, projects SW. approximately 6 chs. dist.; desc. abruptly 240 ft.
72.10	Wash, 30 lks. wide, 10 ft. deep, in the bottom of the E. fork of Red Canyon, drains S. about 12 chs. dist., thence southwesterly; asc. steep general NE. slope 230 ft. to
79.68	The cor. of secs. 14, 15, 22, and 23.
	Land, rugged; rolling and broken with outcroppings of gray and light colored sandstone on E. 39.20 chs.; steep sides of the E. fork of Red Canyon with outcroppings, rim rock, large boulders, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone and red shale on W. 40.48 chs.; general drainage S. by the E. fork of Red Canyon.
	Soil, shallow red sand, lying on bedrock, 4th. rate. Sandstone exposed on nearly entire mile.
	Timber, cedar and pinon pine; medium to heavy growth on E. 39.20 chs., sparse to scattering on remainder of mile.
	Undergrowth, black brush, mountain rush, and service berry bushes; sparse to a fair growth of bunch grass.
	Poor grazing land.
	N.0°01'W., bet. secs. 14 and 15.
	Asc. abrupt rugged SE. slope 180 ft., through a sparse growth of timber and undergrowth.
4.40	Top of nearly perpendicular red sandstone ledge or W. rim of the E. fork of Red Canyon, 120 ft. high, bears NE. and SW.; asc. more gradual rough and broken S. slope 140 ft., through scattering timber and undergrowth.
19.40	Top of ascent, bears E. and W.; a sandstone dome or butte, about 125 ft. high, and extending approximately 5 chs. N. and S. and 8 chs. E. and W., bears east 2.10 chs. dist.; desc. N. slope 90 ft.
29.90	Wash, 10 lks. wide, 2 ft. deep, in the bottom of draw, heads SW. about 6 chs. dist., drains NE.; asc. 20 ft.
34.40	Spur, projects NE. approximately 10 chs. dist.; desc.

Chains

gradual N. slope 30 ft.

39.60 Draw, drains NE.; asc. gradual S. slope 5 ft. to

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 15 | S 14

1933

from which

A pinon pine limb, 7 ins. diam., bears N.30°15'E., 121 lks. dist., mkd. ¼ S 14 B T.

A pinon pine limb, 7 ins. diam., bears S.75°30'W., 116 lks. dist., mkd. ¼ S 15 B T.

From this cor., continue gradual ascent of 10 ft. over S. slope to

43.70 Base of sandstone dome or butte, bears E. and W.; asc. abruptly 130 ft. to

46.70 Top of the sandstone dome or butte, bears E. approximately 7 chs. dist. and W. about 1.50 chs. dist.; desc. broken and almost perpendicular N. face 140 ft. to

49.70 Base of sandstone dome or butte, bears E. and W.; desc. gradual NW. slope 30 ft.

55.60 Draw, drains NE.; asc. gradual SE. slope 25 ft. to

59.60 Base of abrupt ascent, bears NE. and SW.; asc. broken and sloping sandstone ledge, 65 ft. high, bearing NE. and SW.

64.90 Top of ascent, 145 ft. above base of abrupt ascent, bears NE. and SW.; desc. gradually 65 ft.

72.80 Draw, drains NE.; asc. gradual SE. slope 50 ft. to

80.00 At the top of ascent, bearing NE. and SW., set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 7 ft. base, 2¼ ft. high, for cor. of secs. 10, 11, 14, and 15, with brass cap mkd.

T20S	R12E
S10	S11
S15	S14

1933

from which

A pinon pine, 7 ins. diam., bears N.55°15'E., 130 lks. dist., mkd. T 20 S R 12 E S 11 B T.

A pinon pine, 7 ins. diam., bears S.64°15'E., 104 lks. dist., mkd. T 20 S R 12 E S 14 B T.

A pinon pine, 12 ins. diam., bears S.19°30'W., 167 lks. dist., mkd. T 20 S R 12 E S 15 B T.

A cedar, 10 ins. diam., bears N.18°15'W., 83 lks. dist., mkd. T 20 S R 12 E S 10 B T.

Land, abrupt and rough mountainous, S. 4.40 chs.; rolling and broken, with sandstone domes and buttes, and grassy

Chains	
	draws, swales, and parks, N. 75.60 chs.; yellow and light colored sandstone and blue limestone outcroppings, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone; drainage generally S. by the E. fork of Red Canyon, S. 19.40 chs.; remainder of mile drains NE. Soil, shallow and rocky red sand, lying on bedrock, on tops and slopes, and red sand and sandy loam, about 1 to 4 ft. deep, lying on bedrock, in the bottoms of draws, swales, and parks, 1st. to 4th. rate. Timber, varies from a sparse to a heavy growth of cedar and pinon pine. Undergrowth, mountain rush, yellow top, shadscale, and white sagebrush; gramma and bunch grass, scattering to fair on rough portions and good to excellent growth in the bottoms of draws, swales, and parks. Poor to good grazing land.
	S.89°52'E., on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
79.61	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 11, 12, 13, and 14. Thence, N.89°55'W., on a true line bet. secs. 11 and 14. Over rough and broken mountainous land, through a medium heavy growth of timber and scattering undergrowth; desc. gradual SW. slope 80 ft. to
16.20	Top of series of broken sandstone ledges or E. rim of a basin known as Box Flat, bears N. and S.; leave medium heavy growth of timber, bears N. and S., and enter scattering; desc. steep W. slope 105 ft. to
21.10	Base of abrupt descent, bears N. and S.; desc. gradual W. slope 25 ft., across gently rolling Box Flat.
27.20	Wash, 40 lks. wide, 4 ft. deep, in the bottom of draw, drains NW.; asc. gradual E. slope 25 ft. to ¼ sec. cor.
34.60	Wagon road, bears N. to Castle Dale and Huntington, Utah and S. to D. S. Olsen's house on his homestead in secs. 11 and 14.
39.80	At the top of ascent, bearing N. and S., set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd. ¼ S 11 / S 14 1933 from which A cedar limb, 7 ins. diam., bears S.28°15'E., 984 lks. dist., mkd. ¼ S 14 B T. A cedar limb, 5 ins. diam., bears N.26°00'W., 596 lks. dist., mkd. ¼ S 11 B T.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	From this $\frac{1}{4}$ sec. cor., D. S. Olsen's frame house, 12x15 ft., bears S.17°25'E. 10.51 chs. dist.
48.40	A stock trail, bears northwesterly and southwesterly.
51.40	Wash, 40 lks. wide, 4 ft. deep, in the bottom of Box Flat, 30 ft. below $\frac{1}{4}$ sec. cor., drains NE.; asc. gradual SE. slope 60 ft. to
67.10	Leave nearly level and gently rolling bottom of Box Flat, bears NE. and SW.; asc. more abrupt SE. slope 80 ft. to
70.40	Top of broken sandstone ledge or W. rim of Box Flat, 35 ft. high, bears NE. and SW.; enter a medium heavy growth of timber, bears NE. and SW.; asc. gradual SE. slope 50 ft. to
79.61	The cor. of secs. 10, 11, 14, and 15.
	Land, rough, broken, and mountainous, E. 21.10 chs. and W. 12.51 chs.; nearly level and gently rolling bottom of basin known as Box Flat, remainder of mile; blue limestone outcroppings, and broken and sloping ledges, and outcroppings of yellow and light colored sandstone; general drainage northeasterly.
	Soil, shallow and rocky red sand, lying on bedrock, 3rd. and 4th. rate, on rough portions; red sand and sandy loam, several ft. deep, lying on bedrock, 1st. rate, in bottom of Box Flat.
	Timber, cedar and pinon pine; a sparse growth in bottom of Box Flat.
	Undergrowth, scattering mountain rush and yellow top on rough portions, and scattering shadscale and white sagebrush in Box Flat; bunch and gramma grass, scattering on rough parts, and good to an excellent growth in Box Flat.
	Poor to good grazing land.
	N.0°01'W., bet. secs. 10 and 11.
	Over rolling and broken land, through a medium to heavy growth of timber and scattering undergrowth; desc. gradual NW. slope 65 ft.
6.90	Wash, 10 lks. wide, 1 ft. deep, in the bottom of draw, heads SW. about 7 chs. dist., drains NE.; asc. 40 ft.
10.30	Spur, projects NE. approximately 15 chs. dist.; desc. 85 ft.
26.10	Wash, 35 lks. wide, 2 ft. deep, in the bottom of draw, drains NE.; asc. SE. slope 25 ft. to
40.00	On top of spur, projecting E. about 8 chs. dist., set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, $5\frac{1}{2}$ ft. base, $2\frac{3}{4}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 10 | S 11

1933

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	from which
	A cedar, 7 ins. diam., bears S.52°30'E., 30 lks. dist., mkd. ¼ S 11 B T.
	A cedar, 5 ins. diam., bears N.15°30'W., 111 lks. dist., mkd. ¼ S 10 B T.
49.80	Wash, 10 lks. wide, 1 ft. deep, in the bottom of draw, 145 ft. below ¼ sec. cor., drains NE.; asc. 95 ft.
53.80	Spur, projects E. approximately 6 chs. dist.; desc. 40 ft.
64.00	Wash, 30 lks. wide, 5 ft. deep, in the bottom of draw, drains easterly; asc. SW. slope 70 ft. to sec. cor.
71.40	Wagon road, bears NW. to Castle Dale and Huntington, Utah and SE. to D. S. Olsen's homestead in secs. 11 and 14.
80.00	On top of spur, projecting W. about 5 chs. dist., set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 5½ ft. base, 2 ft. high, for cor. of secs. 2, 3, 10, and 11, with brass cap mkd.

T20S R12E

S3	S2
S10	S11

1933

from which

A pinon pine, 10 ins. diam., bears N.50°45'E., 144 lks. dist., mkd. T 20 S R 12 E S 2 B T.

A cedar limb, 6 ins. diam., bears S.55°45'E., 45 lks. dist., mkd. T 20 S R 12 E S 11 B T.

A cedar, 7 ins. diam., bears S.62°15'W., 91 lks. dist., mkd. T 20 S R 12 E S 10 B T.

A cedar limb, 6 ins. diam., bears N.73°15'W., 170 lks. dist., mkd. T 20 S R 12 E S 3 B T.

Land, rolling and broken, draining generally to the NE.: blue limestone and yellow and light colored sandstone outcroppings.

Soil, rocky red sand and sandy loam, varying in depth from about 6 to 12 ins. on tops and slopes to about 2 ft. in the bottoms of draws, lying on bedrock, 2nd. to 4th. rate.

Timber, cedar and pinon pine.

Undergrowth, yellow top, mountain rush, and white sagebrush; scattering to a fair growth of bunch and gramma grass.

Fair grazing land.

S.89°55'E., on a random line bet. secs. 2 and 11.

40.00 Set temp. ¼ sec. cor.

79.59 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 1, 2, 11, and 12.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Thence,
	N.89°54'W., on a true line bet. secs. 2 and 11.
	Over rolling, rough, and broken land, through scattering timber and undergrowth; asc. gradual SE. slope 25 ft.
1.20	Ridge, bears N.20°E. and S.20°W. about 3 chs. dist.; desc. 45 ft.
7.60	Draw, drains S.; asc. 70 ft.
13.90	Spur, slopes S. about 3 chs. dist.; enter a medium heavy growth of timber, bears N. and S.; desc. gradually 25 ft.
18.60	Head of draw, drains S.; asc. 45 ft.
28.80	Spur, projects N. approximately 10 chs. dist.; desc. 55 ft.
33.40	Wash, 20 lks. wide, 2 ft. deep, in the bottom of draw, heads SW. about 10 chs. dist., drains NE.; asc. E. slope 65 ft.
37.80	Spur, projects N. approximately 6 chs. dist.; desc. W. slope 10 ft. to
39.79	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 2 / S 11 1933
	from which
	A cedar limb, 4 ins. diam., bears S.51°15'E., 32 lks. dist., mkd. ¼ S 11 B T.
	A pinon pine limb, 5 ins. diam., bears N.36°00'W., 125 lks. dist., mkd. ¼ S 2 B T.
44.30	Wash, 15 lks. wide, 2 ft. deep, in the bottom of draw, heads SW. about 8 chs. dist., drains NE.; 60 ft. below ¼ sec. cor., asc. E. slope 60 ft.
57.10	Spur, slopes N. about 3 chs. dist.; desc. 15 ft.
59.30	Wash, 10 lks. wide, 2 ft. deep, in the bottom of draw, heads S. approximately 12 chs. dist., drains N.; asc. abrupt NE. slope 65 ft. to
65.80	Top of steep ascent, bears NE. and SW.; asc. gradually 35 ft. to sec. cor., over nearly level top of spur, projecting W., across the head of draw.
68.90	Head of the draw, drains NE.
79.59	The cor. of secs. 2, 3, 10, and 11.
	Land, rolling, rough, and broken, draining generally to the NE.; blue limestone and yellow and light colored sandstone outcroppings.
	Soil, red sand and sandy loam, varying in depth from surface rock to about 1 ft. on tops and slopes to about 1 to 2 ft. in the bottoms of draws, lying on bedrock, 2nd. to 4th. rate.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Timber, varies from a scattering to a heavy growth of cedar and pinon pine. Undergrowth, yellow top, mountain rush, shadscale, and white sagebrush; scattering to a fair growth of bunch and gramma grass. Fair grazing land.
	N.0°03'E., on a random line bet. secs. 2 and 3.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. lot cor.
87.23	Intersect the N. bdy. of the Tp., 46 lks. E. of the cor. of secs. 2, 3, 34, and 35, heretofore described in the official field notes of T. 19 S., R. 12 E., in this group. Thence, S.0°15'E., on a true line bet. secs. 2 and 3. Over rough and broken land, through scattering timber and undergrowth; asc. NW. slope 35 ft.
4.30	Top of ascent, bears NE. and SW.; desc. SE. slope 15 ft. to
7.23	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for cor. of lots Nos. 4 and 5, sec. 2, and lots Nos. 1 and 8, sec. 3, with brass cap mkd. S 3 (1 | 4 / 8 | 5) S 2 1933 from which A cedar limb, 5 ins. diam., bears N.76°30'E., 69 lks. dist., mkd. Lot 4 S 2 B T. A cedar limb, 7 ins. diam., bears S.51°45'E., 7[illegible] lks. dist., mkd. Lot 5 S 2 B T. A cedar, 9 ins. diam., bears S.45°30'W., 72 lks. dist., mkd. Lot 8 S 3 B T. A cedar limb, 7 ins. diam., bears N.55°30'W., 43 lks. dist., mkd. Lot 1 S 3 B T.
12.10	Base of descent, 10 ft. below lot cor., bears northeasterly and southeasterly; asc. NE. slope 45 ft.
19.30	Spur, projects NE. about 7 chs. dist.; desc. abruptly 80 ft.
24.80	Wash, 50 lks. wide, 3 ft. deep, in the bottom of draw, drains NE.; abrupt ascent of 100 ft.
34.40	Spur, projects NE. approximately 20 chs. dist.; desc. 70 ft.
40.50	Wash, 20 lks. wide, 3 ft. deep, in the bottom of draw, drains NE.; asc. N. slope 30 ft. to

SUBDIVISION OF T. 20 S., R. 12 E.

Chains

47.25 Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to solid rock, and in a mound of stone, 5½ ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.

¼

S 3 | S 2

1933

from which

A pinon pine, 4 ins. diam., bears N.65°30'E., 64 lks. dist., mkd. ¼ S 2 B T.

A pinon pine, 5 ins. diam., bears S.34°30'W., 56 lks. dist., mkd. ¼ S 3 B T.

54.20 Spur, 60 ft. above ¼ sec. cor., projects E. about 6 chs. dist.; gradual descent of 15 ft.

71.40 Draw, drains E.; asc. gradual N. slope 90 ft. to

77.23 The cor. of secs. 2, 3, 10, and 11.

Land, rolling and broken, draining generally to the NE.; blue limestone and yellow and light colored sandstone outcroppings.

Soil, red sand and sandy loam, rocky and shallow on tops and slopes, and about 1 to 2 ft. deep, in the bottoms of draws, lying on bedrock, 3rd. to 4th. rate.

Timber, varies from a scattering to a heavy growth of cedar and pinon pine.

Undergrowth, yellow top, mountain rush, shadscale, and white sagebrush; scattering to a fair growth of bunch and grama grass.

Fair grazing land.

From the standard cor. of secs. 33 and 34, on the S. bdy. of the Tp., hereinbefore described,

N.0°02'W., bet. secs. 33 and 34.

Over rolling, rough and broken land, through scattering undergrowth; asc. 525 ft. along general SE. slope to witness ¼ sec. cor., across numerous washes, draws, and spurs, putting to the SE.

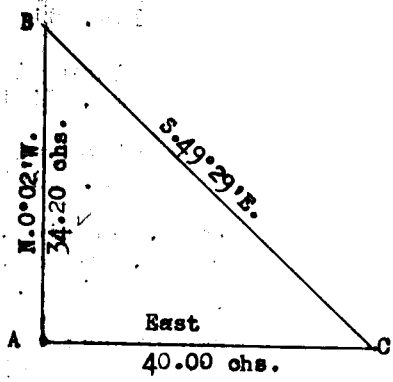
4.20 Old wagon road, bears westerly to Castle Dale and Huntington, Utah and southeasterly to Mexican Bend on the San Rafael River.

30.30 Base of nearly perpendicular red sandstone ledge, about 20 ft. high, bears N.20°E. and S.20°W.

It is impracticable to chain over this ledge; therefore, I triangulate as follows:

Erect a flag A on the standard cor. of secs. 33 and 34, and then set a flag B on line on the abrupt SE. slope of shelf, just beyond the top of the ledge noted at 30.30 chs. From flag B, a flag C previously set on the standard ¼

Chains	
	sec. cor. on the S. bdy. of sec. 34, bears S.49°29'E. The base line from flag A to flag C has a bearing of east and a length of 40.00 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 90°02'
Angle at flag B = 49°27'
Angle at flag C = 40°31'

Distance from flag A to flag B..... 34.20 chs.

Thence, from flag B

S.0°02'E., 0.16 chs., or at

34.04 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness ¼ sec. cor., with brass cap mkd.

W¼C
S 33 | S 34
1933

raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.

Thence, from this witness cor.

N.0°02'W., by direct measurement.

34.20 Triangulation flag B.

38.10 Base of a sloping and nearly perpendicular red sandstone ledge, 175 ft. high, bears N.20°E. and S.20°W.

40.00 True point for ¼ sec. cor. falls on the SE. face of the ledge, making it impracticable to establish a cor. monument or mark a cross (X).

41.10 Top of the ledge, bears same as base; asc. gradual SE. slope.

45.50 Spur, 235 ft. above witness ¼ sec. cor., projects N.80°E. approximately 7 chs. dist.; desc. gradually 125 ft. to sec. cor., over nearly level, rolling, rough, and broken top of bench, through a scattering to a medium heavy growth of timber.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the ground to solid rock, and in a mound of stone, 4 ft. base, 1 ft. high, for cor. of secs. 27, 28, 33, and 34, with brass cap mkd.

T20S R12E
S28 | S27
S33 | S34
1933

from which

A cedar limb, 4 ins. diam., bears N.19°30'E., 119 lks. dist., mkd. T 20 S R 12 E S 27 B T.

U. S. GOVERNMENT PRINTING OFFICE: 1961 O—8155

SUBDIVISION OF T.20 S., R. 12 E.

Chains

A pinon pine, 8 ins, diam., bears S.7°00'E., 168 lks. dist., mkd. T. 20 S R 12 E S 34 B T.

A pinon pine limb, 5 ins. diam., bears S.29°15'W., 203 lks. dist., mkd. T 20 S R 12 E S 33 B T.

A pinon pine limb, 8 ins. diam., bears N.42°45'W., 199 lks. dist., mkd. T 20 S R 12 E S 28 B T.

Land, rolling, rough, and broken, S. 30.30 chs.; steep, rough, broken, and mountainous with bench, N. 49.70 chs.; outcroppings, large boulders, rim rock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone; red and blue shale and blue limestone outcroppings; general drainage SE., thence S. into the San Rafael River.

Soil, shallow red sand, lying on bedrock, or alternate layers of red sand, varied colored clays, red and blue shale, blue limestone, and sandstone, 4th. rate.

Timber, scattering to a medium heavy growth of cedar and pinon pine on N. 34.50 chs.

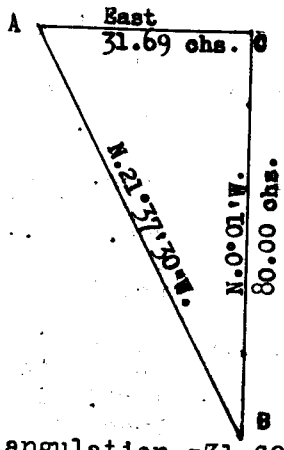
Undergrowth, mountain rush, black brush, yellow top, shadscale, and service berry bushes; sparse to scattering growth of bunch and gramma grass.

Poor grazing land.

East, on a random line bet. secs. 27 and 34.

8.31 E. from this station on the W. ½ mile bet. secs. 27 and 34, the line crosses two deep gulches which are rimmed with high and nearly perpendicular ledges or walls that make chaining impracticable. Therefore, I triangulate as follows:

Erect a flag A at the 8.31 chs. point; then, from a flag B previously set on the standard ¼ sec. cor., on the S. bdy. of sec. 34, measure a base line N.0°01'W. 80.00 chs. dist. to a flag C at the point of intersection of this base line with the random line bet. secs. 27 and 34. From flag B, flag A bears N.21°37'30"W. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 68°22'30"
Angle at flag B = 21°36'30"
Angle at flag C = 90°01'00"

Distance from flag A to flag C by triangulation = 31.69 chs.
Distance from the cor. of secs. 27, 28, 33, and 34 to flag A by direct measurement..... = 8.31 "
Distance from the cor. of secs. 27, 28, 33, and 34 to flag C..... 40.00 "

or at

40.00 Set temp. ¼ sec. cor.

Chains	
	Thence, from flag C by direct measurement.
80.01	Intersect N. and S. line at the cor. of secs. 26, 27, 34, and 35.
	Thence,
	West, on a true line bet. secs. 27 and 34.
	Desc. 105 ft. along rough and broken N. slope, through scattering timber and undergrowth.
8.00	Enter a medium heavy growth of timber, bears NW. and SE.
8.40	Wash, 20 lks. wide, 4 ft. deep, in the bottom of draw, drains NW.; asc. 30 ft.
12.80	Spur, slopes N. about 4 chs. dist.; desc. gradual general SW. slope 160 ft. to
36.77	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, 2½ ft. high, for witness ¼ sec. cor., with brass cap mkd.
	W ¼ S 27 / C S 34 1933
	There are no trees within a reasonable distance suitable for marking as accessories to the cor.
39.30	Top of broken and nearly perpendicular sandstone ledge or E. rim of Lockhart Canyon or Gulch, 50 ft. high, bears NW. approximately 12 chs. dist., thence southwesterly, and SE.; timber becomes scattering, bearing NW. and SE.; desc. abrupt SW. slope 70 ft. to
40.00	True point for ¼ sec. cor. falls amongst large boulders and slide rock on the steep slope, which is breaking and crumbling away, making the establishment of a cor. monument impracticable.
40.01	Thence, from triangulation flag C, giving the approximate distances and elevations to topography as far as triangulation flag A.
50.00	Lockhart Canyon or Gulch, near head, 200 ft. below the true point for ¼ sec. cor., drains S.; asc. abruptly 250 ft. to
57.00	Top of broken and nearly perpendicular sandstone ledge or W. rim of Lockhart Canyon or Gulch, 50 ft. high, bears N.25°E. and S.25°W.; asc. more gradually 75 ft.
61.00	Spur, projects S. about 5 chs. dist. to rim of gulch, then slopes off abruptly to the S.; desc. gradually 75 ft. to
65.00	Top of nearly perpendicular sandstone ledge or E. rim or wall of gulch, 125 ft. high, bears NW. and SE.; precipitous descent of 250 ft.
68.00	Gulch, drains S.; asc. abruptly 250 ft. to triangulation flag A at
71.70	Top of nearly perpendicular sandstone ledge or W. rim or wall of gulch, 200 ft. high, bears N.25°E. and S.70°W.; asc. gradually 15 ft. to sec. cor., over nearly level and

Chains	
	gently rolling top of bench.
72.20	Enter a medium heavy growth of timber, bears NE. and SW.
80.01	The cor. of secs. 27, 28, 33, and 34.
	Land, steep, broken, and rough mountainous, with benches; outcroppings, large boulders, slide rock, rim rock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone; red and blue shale and blue limestone outcroppings; general drainage S. by Lockhart Canyon into the San Rafael River.
	Soil, shallow red sand, lying on bedrock, or alternate layers of red sand, varied colored clays, red and blue shale, blue limestone, and sandstone, 4th. rate. Surface rock exposed on greater portion of mile.
	Timber, cedar and pinon pine.
	Undergrowth, mountain rush, black brush, yellow top, shadscale, and service berry bushes; sparse to scattering growth of bunch and gramma grass.
	Poor grazing land.
	N.0°02'W., bet. secs. 27 and 28.
	Asc. gradual SW. slope 5 ft., over nearly level and gently rolling top of bench, through a medium heavy growth of timber and scattering undergrowth.
2.10	Top of ascent, bears NW. and SE.; gradual descent of 15 ft.
14.30	Draw, drains NW.; asc. gradual SW. slope 65 ft.
23.70	The W. base or extremity of a sandstone dome or butte, about 150 ft. high, and extending N. and S. approximately 10 chs. and E. and W. about 15 chs., bears east 12.50 chs. dist.
30.90	Rocky spur, projects W. about 50 lks. dist.; desc. N. slope 110 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, $2\frac{3}{4}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 28 | S 27

1933

from which

A pinon pine, 6 ins. diam., bears N.14°00'E., 103 lks. dist., mkd. $\frac{1}{4}$ S 27 B T.

A pinon pine, 8 ins. diam., bears S.55°00'W., 130 lks. dist., mkd. $\frac{1}{4}$ S 28 B T.

51.40 Top of nearly perpendicular sandstone ledge or S. rim of the E. fork of Red Canyon, 160 ft. high, bears SE. approximately 10 chs. dist., thence northeasterly, and NW. about 3 chs. dist., thence westerly, 70 ft. below $\frac{1}{4}$ sec. cor.; leave nearly level, rolling, and broken top of bench, bears NW. and SE.; timber becomes scattering;

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

Chains	
	precipitous descent of 605 ft., over NE. slope.
63.00	Ravine, heads SE. about 12 chs. dist., drains NW.; a seep of good water rises SE. 1.00 chs. dist.; asc. abrupt SW. slope 130 ft.
73.60	Spur, slopes NW. approximately 6 chs. dist.; desc. NE. slope 105 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the ground to bedrock, and in a mound of stone, 5 ft. base, 1 ft. high, for cor. of secs. 21, 22, 27, and 28, with brass cap mkd.

T20S	R12E
S21	S22
S28	S27

1933

from which

A pinon pine, 6 ins. diam., bears N.5°30'E., 39 lks. dist., mkd. T 20 S R 12 E S 22 B T.

A cedar, 5 ins. diam., bears S.27°30'E., 49 lks. dist., mkd. T 20 S R 12 E S 27 B T.

A pinon pine, 7 ins. diam., bears S.8°45'W., 160 lks. dist., mkd. T 20 S R 12 E S 28 B T.

A cedar, 4 ins. diam., bears N.30°45'W., 87 lks. dist., mkd. T 20 S R 12 E S 21 B T.

Land, nearly level, rolling, and broken top of bench, S. 51.40 chs.; steep general S. side of the E. fork of Red Canyon, N. 28.60 chs.; outcroppings and surface rock exposed on S. 51.40 chs.; outcroppings, large boulders, rim rock, and broken, sloping, and nearly perpendicular ledges on N. 28.60 chs.; red and blue shale and varied colored sandstone formation; general drainage S. by Lockhart Canyon, S. 2.10 chs.; N. 77.90 chs. drain NW. into the E. fork of Red Canyon.

Soil, shallow red sand, lying on bedrock, 3rd. and 4th. rate, on top of bench; shallow red sand or alternate layers of red sand, varied colored clays, red and blue shale, and sandstone, 4th. rate, on the S. side of the E. fork of Red Canyon.

Timber, cedar and pinon pine.

Undergrowth, mountain rush, black brush, yellow top, shadscale, and service berry bushes; sparse to a scattering growth of gramma and bunch grass.

Poor grazing land.

East, on a random line bet. secs. 22 and 27.

Sharp and narrow sandstone spurs and high bluffs make chaining and the projection of the line impracticable on the greater portion of the mile. Therefore, from the cor. of secs. 21, 22, 27, and 28, on traverse line,

N.34°23'E., 9.31 chs. dist., thence

N.60°15'E., 31.00 chs. dist., thence

Chains	
	S.75°45'E., 8.40 chs. dist., thence
	S.9°00'E., 21.25 chs. dist. to random line.
	Thence,
	West, 3.64 chs. dist., or at
40.00	Set temp. ¼ sec. cor.
	Thence,
	East, 3.64 chs. dist., thence on traverse line
	N.9°00'W., 21.25 chs. dist., thence
	S.75°45'E., 41.00 chs. dist., thence
	S.0°01'E., 10.90 chs. dist. to the true point for the cor. of secs. 22, 23, 26, and 27, or at
80.05	Intersect N. and S. line at the true point for cor. of secs. 22, 23, 26, and 27.
	Thence,
	West, on a true line bet. secs. 22 and 27.
	Over rough and broken mountainous land, through scattering timber and undergrowth; asc. NE. face of sloping ledge 25 ft. to
0.80	Top of sloping sandstone ledge or W. rim of a box gulch, 40 ft. high, bears NW. and SE.; asc. gradual NE. slope 5 ft.
1.50	Top of ascent, bears NW. and SE.; gradual descent of 15 ft. to
3.40	Top of nearly perpendicular sandstone ledge or E. rim of a fork of Red Canyon, 25 ft. high, bears N. and S.; desc. abruptly 40 ft.
5.50	Wash, 30 lks. wide, 5 ft. deep, in the bottom of the fork of Red Canyon, drains N.; steep ascent of 65 ft. to
7.10	Top of nearly perpendicular sandstone ledge or W. rim of the fork of Red Canyon, 20 ft. high, bears N. and S.
	From this station, the line begins to ascend abruptly over the E. slope of an impassable sharp and narrow sandstone spur, rimmed with high and nearly perpendicular ledges; therefore, I describe and give the approximate distances and elevations to topography on the remainder of mile, counting from the true point for the cor. of secs. 22, 23, 26, and 27, as follows:
32.00	Sandstone spur, 350 ft. above the W. rim of the fork of Red Canyon, projects NE. approximately 6 chs. dist., then breaks off abruptly; desc. steep NW. slope 150 ft. to
36.50	The witness ¼ sec. cor., hereinafter described.
38.00	Ravine, 60 ft. below witness ¼ sec. cor., drains NW.; asc. abrupt NE. slope 80 ft. to
40.02	The true point for the ¼ sec. cor. falls on broken and sloping ledges, where the establishment of a cor. monument and the marking of a cross (X) are impracticable.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
50.00	Sandstone spur, 230 ft. above the true point for ¼ sec. cor., projects N. about 8 chs. dist., then breaks off abruptly; steep descent of 400 ft.
60.00	Draw, drains N.20°W.; asc. 200 ft. along NE. slope.
73.00	Spur, slopes N. approximately 6 chs. dist.; abrupt descent of 150 ft. to
80.05	The cor. of secs. 21, 22, 27, and 28.
	Then, I return to the true point for the cor. of secs. 22, 23, 26, and 27, and offset
	N.0°01'W. to the 10.90 chs. point bet. secs. 22 and 23.
	Thence, on traverse line
	N.75°45'W., 41.00 chs. dist. At the beginning of course, desc. gradually 15 ft. along N. slope, over rough and broken land, through a medium heavy growth of timber and scattering undergrowth.
	At 3.90 chs., top of nearly perpendicular sandstone ledge or E. rim of a fork of Red Canyon, 20 ft. high, bears NW. and SE.; desc. abruptly 70 ft.
	At 5.80 chs., wash, 40 lks. wide, 5 ft. deep, in the bottom of the fork of Red Canyon, drains NW.; steep ascent of 65 ft.
	At 7.30 chs., top of nearly perpendicular sandstone ledge or W. rim of the fork of Red Canyon, 20 ft. high, bears NW. and SE.; asc. gradual E. slope 65 ft.
	At 25.90 chs., top of ascent, bears N. and S.; desc. 45 ft.
	At 41.00 chs., end of course, draw, drains NW.
	Thence,
	S.9°00'E., 21.25 chs. dist. At the beginning of course, asc. abrupt general NW. slope 525 ft.
	At 11.80 chs., enter a series of broken and sloping sandstone ledges, bearing NE. and SW.
	At 21.25 chs., end of course, intersect true line bet. secs. 22 and 27.
	Thence,
	West, 0.09 chs. dist.; set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, with a sandstone, 7x5x2 ins., mkd. X, deposited at the base, and in a mound of stone, 6 ft. base, 1 ft. high, for witness ¼ sec. cor., with brass cap mkd.

W ¼ C $\frac{\text{S 22}}{\text{S 27}}$
1933

U. S. GOVERNMENT PRINTING OFFICE: 1931. 6—8155

Chains

There are no trees within a reasonable distance suitable for marking as accessories to the cor.

Thence, from this cor.,

East, 0.09 chs. dist.; then, on traverse line

N.9°00'W., 21.25 chs. dist.

Thence,

N.75°45'W., 8.40 chs. dist. At the beginning of course, asc. gradual NE. slope 10 ft.

At 3.80 chs., top of ascent, bears NW. and SE.; desc. gradually 5 ft.

At 8.40 chs., end of course.

Thence,

S.60°15'W., 31.00 chs. dist. At the beginning of course, desc. gradual SW. slope 10 ft.

At 12.90 chs., draw, drains NW. about 8 chs. dist. into the E. fork of Red Canyon.

At 31.00 chs., end of course.

Thence,

S.34°23'W., 9.31 chs. dist. At the beginning of course, asc. gradual NE. slope 40 ft.

At 9.31 chs., end of course, intersect the cor. of secs. 21, 22, 27, and 28.

Land, abrupt, rough, and broken general S. side of the E. fork of Red Canyon, draining westerly; outcroppings, large boulders, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone formation; blue and red shale outcroppings, and sandstone spurs.

Soil, shallow red sand, lying on bedrock, or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate.

Timber, cedar and pinon pine.

Undergrowth, mountain rush, black brush, yellow top, shadscale, and service berry bushes; scattering growth of bunch grass.

Poor grazing land.

N.0°02'W., bet. secs. 21 and 22.

Desc. gradual NE. slope 10 ft., over rough bench or shelf, through scattering timber and undergrowth.

1.20 N. edge of the bench or shelf, bears NE. and SW.; desc. abrupt NW. slope 200 ft.

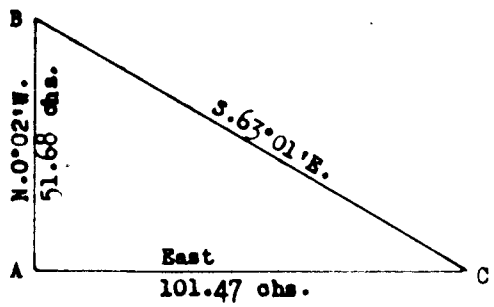
9.20 Wash, 80 lks. wide, 5 ft. deep, in the bottom of the E. fork of Red Canyon, drains SW. approximately 10 chs. dist.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	thence northwesterly; asc. precipitous general SE. slope 1085 ft.
15.10	Top of nearly perpendicular sandstone ledge or S. rim of shelf, 15 ft. high, bears NE. and SW., 150 ft. above wash; asc. 75 ft. over rough and broken top to
26.00	Base of series of high, broken, and nearly perpendicular sandstone ledges, bears NE. and SW.

N. from this station for a distance of approximately 13 chs., chaining is impracticable; therefore, I triangulate as follows:

Erect a flag A on the cor. of secs. 21, 22, 27, and 28; then, set a flag B on line N. of the N. rim of the E. fork of Red Canyon. From flag B, a flag C previously set on top of the W. rim of a bench or shelf, east 21.42 chs. dist. from the true point for the cor. of secs. 22, 23, 26, and 27, bears S.63°01'E. The base line has a bearing of east and a length of 101.47 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 90°02'
Angle at flag B = 62°59'
Angle at flag C = 26°59'

Distance from flag A to flag B..... 51.68 chs.

Thence, from flag B by direct measurement

S.0°02'E., 13.28 chs. dist., or at

38.40	Top of the series of high ledges or the N. rim of the E. fork of Red Canyon, bears NE. and SW., 875 ft. above the cor. of secs. 21, 22, 27, and 28.

Thence,

N.0°02'W.

Asc. gradually 15 ft. to ¼ sec. cor., over gently rolling top of bench or shelf.

39.50	Enter a medium heavy growth of timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

S 21 | S 22

1933

from which

A pinon pine limb, 8 ins. diam., bears N.81°45'E., 180 lks. dist., mkd. ¼ S 22 B T.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	A pinon pine, 8 ins. diam., bears S.55°00'W., 107 lks. dist., mkd. ¼ S 21 B T.
51.68	Triangulation flag B, 55 ft. above ¼ sec. cor.
60.70	Top of sloping light colored sandstone ledge, 45 ft. high, bears NW. and SE.
64.90	Rocky spur, 145 ft. above triangulation flag B, projects W. about 3 chs. dist.; steep descent of 45 ft.
68.00	Head of draw, drains SW.; asc. abrupt S. slope 135 ft.
72.80	Top of nearly perpendicular light colored sandstone ledge, 120 ft. high, bears NW. and SE.
79.70	Spur, slopes W. about 1 ch. dist.; desc. abruptly 10 ft. over N. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, over a cross (X) chiseled into bedrock, and in a mound of stone, 5½ ft. base, 2¼ ft. high, for cor. of secs. 15, 16, 21, and 22, with brass cap mkd. T20S | R12E S16 | S15 S21 | S22 1933 All trees within a reasonable distance are too scrubby for marking as accessories to cor. Land, abrupt, broken, and rough mountainous, with benches and shelves; outcroppings, large boulders, rim rock, slide rock, and broken, sloping, and nearly perpendicular ledges; red and blue shale and varied colored sandstone on the sides of the E. fork of Red Canyon, and mostly white and brown sandstone exposed on N. ½ mile; drainage into the E. fork of Red Canyon, thence westerly. Soil, shallow red sand, lying on bedrock, 4th. rate, on greater portion of mile; red sand and sandy loam, about 1 to 4 ft. deep, lying on bedrock, 1st. and 2nd. rate, in the bottom of the E. fork of Red Canyon and on some of the benches or shelves on N. 41.60 chs. Timber, cedar and pinon pine. Undergrowth, service berry bushes, mountain rush, and black brush; good growth of bunch grass on portions of N. 41.60 chs. Fair grazing land on some of the benches and shelves on N. 41.60 chs.; poor grazing on other portions of mile.
	East, on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.09	Intersect N. and S. line, 14 lks. N. of the cor. of secs. 14, 15, 22, and 23.
	Thence,
	N.89°54'W., on a true line bet. secs. 15 and 22.

U. S. GOVERNMENT PRINTING OFFICE: 1921 G—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Asc. abrupt rugged NE. slope 210 ft., through a sparse growth of timber and undergrowth.
4.20	Top of broken and sloping red sandstone ledge or W. rim of the E. fork of Red Canyon, 100 ft. high, bears NE. and SE.; asc. gradual NE. slope, over top of bench or shelf, through scattering undergrowth.
5.20	Enter a medium heavy growth of timber, bears NW. and SE.
15.90	Leave gradual NE. slope, 85 ft. above the W. rim of the E. fork of Red Canyon; asc. gradually 45 ft. to ¼ sec. cor., over nearly level and rolling top.
40.04	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 5 ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 15 / S 22 1933 from which A cedar limb, 7 ins. diam., bears S.3°15'E., 27 lks. dist., mkd. ¼ S 22 B T. A cedar, 6 ins. diam., bears N.41°00'W., 115½ lks. dist., mkd. ¼ S 15 B T.
72.20	Top of ascent, 65 ft. above ¼ sec. cor., bears N. and S.; desc. gradually 20 ft. along gentle N. slope to
80.09	The cor. of secs. 15, 16, 21, and 22.
	Land, steep and rugged NE. slope or W. side of the E. fork of Red Canyon, E. 4.20 chs.; nearly level, rolling, and gently rolling top of bench or shelf, W. 75.89 chs.; rim rock and outcroppings of red, brown, and white sandstone formation; drainage into the E. fork of Red Canyon, thence westerly.
	Soil, shallow red sand, lying on bedrock, 4th. rate, on the W. side of the E. fork of Red Canyon; red sand and sandy loam, varying in depth from a few ins. to several ft., lying on bedrock, 1st. to 3rd. rate, on top of bench or shelf.
	Timber, varies from a sparse to a heavy growth of cedar and pinon pine.
	Undergrowth, mountain rush, service berry bushes, shadscale, and black brush; good to an excellent growth of bunch and gramma grass.
	Fair grazing land on top of bench or shelf.
	N.0°02'W., bet. secs. 15 and 16.
	Over rough and broken land, through a scattering growth of timber and undergrowth; desc. N. slope 35 ft.
2.50	Draw, drains SW.; asc. gradually 50 ft.
7.70	Spur, slopes W. about 1 ch. dist.; gradual descent of 30 ft., through a medium heavy growth of timber, bearing E. and W.

U. S. GOVERNMENT PRINTING OFFICE: 1924 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains

19.10 Head of draw, drains E.; asc. abrupt S. slope 60 ft.

24.50 Sandstone knob on top of rocky spur, which projects E. about 2 chs. dist.; desc. steep N. slope.

26.80 Base of abrupt descent, bears NE. and SW.; desc. gradual NW. slope.

40.00 True point for ¼ sec. cor. falls in wash, 15 lks. wide, 2 ft. deep, in the bottom of draw, draining NE. approximately 8 chs. dist., thence northwesterly, 160 ft. below top of rocky spur; asc. gradual SE. slope 10 ft. to

42.10 On top of spur, sloping NE. about 3 chs. dist., set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 5 ft. base, 2 ft. high, for witness ¼ sec. cor., with brass cap mkd.

¼

S 16 | S 15

WC
1933

from which

A cedar limb, 5 ins. diam., bears S.84°45'E., 75 lks. dist., mkd. W C ¼ S 15 B T.

A cedar, 7 ins. diam., bears S.19°15'W., 58 lks. dist., mkd. W. C ¼ S 16 B T.

55.00 Wash, 30 lks. wide, 3 ft. deep, in the bottom of draw, 90 ft. below ¼ sec. cor., drains SW.; asc. abrupt SW. slope 310 ft. to

70.30 Top of broken and sloping light colored sandstone ledge, 200 ft. high, bears NW. and SE.; asc. gradual SW. slope 20 ft.

74.60 Ridge, bears NW. and SE.; desc. gradual NE. slope 10 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 2½ ft. high, for cor. of secs. 9, 10, 15, and 16, with brass cap mkd.

T20S | R12E
S9 | S10
S16 | S15
1933

from which

A pinon pine limb, 5 ins. diam., bears N.75°00'E., 227 lks. dist., mkd. T 20 S R 12 E S 10 B T.

A pinon pine, 8 ins. diam., bears S.50°45'E., 23½ lks. dist., mkd. T 20 S R 12 E S 15 B T.

A pinon pine, 6 ins. diam., bears S.40°45'W., 61 lks. dist., mkd. T 20 S R 12 E S 16 B T.

A pinon pine, 6 ins. diam., bears N.10°15'W., 108 lks. dist., mkd. T 20 S R 12 E S 9 B T.

Land, rough and broken, draining southwesterly into the W. fork of Red Canyon; outcroppings; large boulders, and

Chains	
	broken and sloping ledges of red, brown, and light colored sandstone formation; blue limestone and shale outcroppings. Soil, red sand, shallow and rocky, 4th. rate, on tops and slopes, and about 6 ins. to 3 ft. deep, lying on bedrock, 1st. to 3rd. rate, in the bottoms of draws. Timber, varies from a scattering to a heavy growth of cedar and pinon pine. Undergrowth, mountain rush, service berry bushes, shadscale, and black brush; scattering growth of bunch grass. Poor to fair grazing land.
	S.89°54'E., on a random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line, 12 lks. S. of the cor. of secs. 10, 11, 14, and 15. Thence, N.89°59'W., on a true line bet. secs. 10 and 15. Over rolling and broken land, through a medium to heavy growth of timber and scattering undergrowth; asc. gradually 30 ft. over gentle SE. slope.
18.80	Top of ascent, bears NE. and SW.; gradual descent of 5 ft. to
20.00	Top of broken and sloping light colored sandstone ledge or E. rim of a box gulch, 35 ft. high, bears NE. and SW.; desc. abrupt NW. slope.
20.60	Base of steep descent, bears NE. and SW.; desc. gradually over nearly level bottom to
29.10	Wash, 30 lks. wide, 3 ft. deep, in the bottom of the gulch, 100 ft. below E. rim, drains NE.; asc. SE. slope 100 ft. to
32.20	Top of broken and nearly perpendicular light colored sandstone ledge or W. rim of the box gulch, 100 ft. high, bears NE. and SW.; asc. gradual E. slope 35 ft. to
40.03	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock, and in a mound of stone, 5 ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 10 / S 15 1933 from which A cedar limb, 5 ins. diam., bears N.60°30'E., 122 lks. dist., mkd. ¼ S 10 B T. A pinon pine, 8 ins. diam., bears S.29°45'E., 193 lks. dist., mkd. ¼ S 15 B T.
46.60	Spur, 20 ft. above ¼ sec. cor., slopes N. about 1.50 chs. dist.; desc. abrupt W. slope 100 ft.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
51.50	Draw, heads S. about 4 chs. dist., drains N.; asc. 105 ft.
58.20	Spur, slopes N. approximately 1 ch. dist.; gradual descent of 10 ft. to
59.20	Top of a broken and sloping light colored sandstone ledge or E. rim of a box gulch, 80 ft. high, bears NE. and SW.; desc. abrupt NW. slope 100 ft.
63.70	Wash, 20 lks. wide, 2 ft. deep, in the bottom of the gulch, heads SW. about 12 chs. dist., drains NE.; steep ascent of 105 ft. over SE. slope to
67.70	Top of a broken and sloping light colored sandstone ledge or W. rim of the box gulch, 80 ft. high, bears NE. and SW.; asc. gradually 65 ft. over gentle NE. slope to
80.06	The cor. of secs. 9, 10, 15, and 16.
	Land, rolling, rough, and broken, draining to the NE.; outcroppings, rim rock, and broken, sloping, and nearly perpendicular ledges of yellow and light colored sandstone formation; blue limestone outcroppings.
	Soil, shallow and rocky red sand, lying on bedrock, 4th. rate, on tops and slopes, and red sand and sandy loam about 1 to several ft. deep, lying on bedrock, 1st. and 2nd. rate, in the bottoms of draws and gulches.
	Timber, varies from a scattering to a heavy growth of cedar and pinon pine.
	Undergrowth, mountain rush, yellow top, and white sagebrush; scattering shadscale in the bottoms of gulches; bunch and gramma grass, good growth in bottoms of gulches, scattering to fair on other portions of mile.
	Fair grazing land.
	N.0°02'W., bet. secs. 9 and 10.
	Over rolling and broken land, through a medium heavy growth of timber and scattering undergrowth; desc. gradual NE. slope 60 ft.
6.00	Wash, 20 lks. wide, 3 ft. deep, in the bottom of draw, drains NE.; gradual ascent of 40 ft.
13.20	Spur, projects NE.; desc. gradual NW. slope 65 ft. to
30.20	Top of nearly perpendicular light colored sandstone ledge or S. rim of a box gulch, 20 ft. high, bears NE. and SW.; desc. steep NW. slope 50 ft.
32.20	Wash, 20 lks. wide, 2 ft. deep, in the bottom of the gulch, heads southwesterly approximately 30 chs. dist., drains NE.; asc. abrupt, rough, and broken SE. slope 30 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, $2\frac{3}{4}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 9 | S 10

1933

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	from which
	A pinon pine, 8 ins. diam., bears S.82°45'E., 169 lks. dist., mkd. ¼ S 10 B T.
	A pinon pine limb, 7 ins. diam., bears S.46°30'W., 51 lks. dist., mkd. ¼ S 9 B T.
40.30	Top of broken light colored sandstone ledge or N. rim of the gulch, 5 ft. high, bears NE. and SW., 5 ft. above ¼ sec. cor.; gradual ascent of 5 ft.
40.60	Spur, projects E. about 1.50 chs. dist., then slopes E. approximately 2 chs. dist.; desc. 30 ft.
42.90	Wash, 15 lks. wide, 1 ft. deep, in the bottom of gulch, drains E. about 4 chs. dist. to junction with gulch from the SW., thence northeasterly; wash heads W. approximately 10 chs. dist.; asc. abrupt, rough, and broken S. slope 45 ft.
50.10	Spur, projects E. about 20 chs. dist.; desc. gradual N. slope 75 ft. to
63.60	Top of broken and nearly perpendicular light colored sandstone ledge or S. rim of a box gulch, 55 ft. high, bears E. and SW.; desc. steep N. slope 70 ft.
65.30	Wash, 25 lks. wide, 4 ft. deep, in the bottom of the gulch, drains E.; asc. abrupt S. slope 80 ft. to
67.50	Top of a broken light colored sandstone ledge or N. rim of the gulch, 45 ft. high, bears E. about 6 chs. dist., thence northeasterly, and SW.; asc. gradual SE. slope 35 ft.
72.50	Small knoll on top of spur, projecting NE.; desc. gradual NW. slope 30 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground to solid rock, and in a mound of stone, 6 ft. base, 1½ ft. high, for cor. of secs. 3, 4, 9, and 10, with brass cap mkd.

T20S R12E
S4 | S3
S9 | S10
1933

from which

A pinon pine limb, 10 ins. diam., bears N.83°15'E., 100 lks. dist., mkd. T 20 S R 12 E S 3 B T.

A pinon pine, 8 ins. diam., bears S.73°45'E., 125 lks. dist., mkd. T 20 S R 12 E S 10 B T.

A pinon pine, 10 ins. diam., bears S.29°30'W., 117 lks. dist., mkd. T 20 S R 12 E S 9 B T.

A cedar limb, 4 ins. diam., bears N.12°30'W., 207 lks. dist., mkd. T 20 S R 12 E S 4 B T.

Land, rolling, rough, and broken, draining northeasterly; blue limestone and shale and light colored and yellow sandstone outcroppings; rim rock, and broken, sloping, and nearly perpendicular ledges of yellow and light colored sandstone formation on the sides of gulches.

Soil, shallow and rocky red sand, lying on a light colored clay or white chalky formation or on bedrock, 3rd. and 4th. rate.

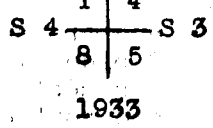
U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Timber, varies from a scattering to a heavy growth of cedar and pinon pine.
	Undergrowth, black brush, mountain rush, yellow top, and shadscale; scattering growth of bunch grass.
	Poor to fair grazing land.
	S.89°59'E., on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.01	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 2, 3, 10, and 11.
	Thence,
	N.89°55'W., on a true line bet. secs. 3 and 10.
	Over rolling and broken land, through scattering timber and undergrowth; desc. gradually 50 ft. along top of spur, sloping W.
7.40	Wagon road, bears N. to Castle Dale and Huntington, Utah and SE. to D. S. Olsen's homestead in secs. 11 and 14.
10.90	Wash, 10 lks. wide, 2 ft. deep, in the bottom of draw, drains SE.; asc. gradual SE. slope 70 ft.
25.80	Spur, projects NE.; desc. gradually 15 ft. to ¼ sec. cor., over nearly level land.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 3 / S 10 1933
	from which
	A cedar limb, 5 ins. diam., bears N.46°15'E., 88 lks. dist., mkd. ¼ S 3 B T.
	A pinon pine, 10 ins. diam., bears S.2°00'E., 262 lks. dist., mkd. ¼ S 10 B T.
44.90	Spur, 20 ft. above ¼ sec. cor., slopes N. about 30 lks. dist.; desc. gentle NW. slope 25 ft.
45.40	A seven strand barb wire fence, bears N. and S., across the mouth of gulch.
48.90	Wash, 20 lks. wide, 3 ft. deep, in the bottom of gulch, near mouth, drains northeasterly; asc. SE. slope 70 ft. to
51.80	Top of broken and nearly perpendicular light colored sandstone ledge or NW. rim of the gulch, 30 ft. high, bears NE. about 7 chs. dist., thence easterly, and SW.; asc. gradual E. slope 55 ft.
59.70	Spur, projects N. approximately 6 chs. dist.; gradual descent of 30 ft.
70.70	Wash, 25 lks. wide, 2 ft. deep, in the bottom of draw, drains NE.; asc. gradual E. slope 70 ft.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
77.70	Top of knoll, bears N. approximately 7 chs. dist. and S. about 5 chs. dist.; desc. gradual NW. slope 25 ft. to
80.01	The cor. of secs. 3, 4, 9, and 10.
	Land, nearly level, gently rolling, rolling, and broken, draining generally to the NE.; blue limestone and shale and light colored or gray sandstone outcroppings; broken, sloping, and nearly perpendicular ledges of light colored or gray sandstone.
	Soil, red sand and sandy loam, shallow on tops and slopes, and several ft. deep in the bottoms of draws and gulches, lying on bedrock, 1st. to 4th. rate.
	Timber, varies from a scattering to a heavy growth of cedar and pinon pine.
	Undergrowth, mountain rush, black brush, yellow top, shadscale, and white sagebrush; scattering to a fair growth of bunch and gramma grass and Russian thistles.
	Poor to fair grazing land.
	N.0°15'W., on a random line bet. secs. 3 and 4.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. lot cor.
87.10	Intersect the N. bdy. of the Tp., 8 lks. W. of the cor. of secs. 3, 4, 33, and 34, heretofore described in the official field notes of T. 19 S., R. 12 E., in this group.
	Thence,
	S.0°12'E., on a true line bet. secs. 3 and 4.
	Over rolling and broken land, through a medium heavy growth of timber and scattering undergrowth; asc. gradual NW. slope 5 ft.
0.30	Spur, projects NE.; gradual descent of 50 ft.
4.90	Wash, 30 lks. wide, 2 ft. deep, in the bottom of draw, heads SW. approximately 20 chs. dist., drains E.; asc. gradual N. slope 30 ft. to
7.10	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for cor. of lots Nos. 4 and 5, sec. 3, and lots Nos. 1 and 8, sec. 4, with brass cap mkd.



from which

A cedar, 9 ins. diam., bears N.57°00'E., 135 lks. dist., mkd. Lot 4 S 3 B T.

A cedar limb, 6 ins. diam., bears S.37°00'E., 61 lks. dist., mkd. Lot 5 S 3 B T.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	A cedar limb, 4 ins. diam., bears S.60°30'W., 65 lks. dist., mkd. Lot 8 S 4 B T.
	A cedar limb, 6 ins. diam., bears N.48°00'W., 82 lks. dist., mkd. Lot 1 S 4 B T.
21.30	Spur, 65 ft. above lot cor., slopes E. about 5 chs. dist.; desc. 35 ft.
27.50	Wash, 10 lks. wide, 1 ft. deep, in the bottom of draw, heads SW. approximately 8 chs. dist., drains NE.; asc. gradual NE. slope 50 ft.
39.60	Top of ascent or low ridge, bears NW. and SE.; desc. 35 ft. to ¼ sec. cor., across the bottom of hollow.
42.70	Leave timber, bears E. and W.
45.40	Wagon road, bears NW. to Castle Dale and Huntington, Utah and S.80°E. to D. S. Olsen's homestead in secs. 11 and 14.
47.10	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 4 | S 3

1933

from which

	A cedar limb, 6 ins. diam., bears N.32°45'E., 333 lks. dist., mkd. ¼ S 3 B T.
	A cedar limb, 4 ins. diam., bears N.38°00'W., 303 lks. dist., mkd. ¼ S 4 B T.
48.20	Wash, 10 lks. wide, 3 ft. deep, in the bottom of hollow, 5 ft. below ¼ sec. cor., drains E. about 3 chs. dist., thence southeasterly; gradual ascent of 10 ft.
49.30	Spur, slopes E. approximately 5 chs. dist.; enter a medium heavy growth of timber, bears E. and W.; desc. 25 ft.
54.00	Wash, 30 lks. wide, 1 ft. deep, in the bottom of draw, drains E. about 7 chs. dist., thence southeasterly; gradual ascent of 80 ft.
69.80	Spur, projects E. approximately 20 chs. dist.; desc. gradually 30 ft.
80.00	Wash, 20 lks. wide, 3 ft. deep, in the bottom of draw, heads W. about 10 chs. dist., drains E.; asc. gradual NW. slope 50 ft. to
87.10	The cor. of secs. 3, 4, 9, and 10.
	Land, rolling and broken, with open hollows and swales; outcroppings of blue limestone and yellow and light colored or gray sandstone formation; general drainage northeasterly and southeasterly into Pack Saddle Wash, thence northeasterly.
	Soil, red sand and sandy loam, varying in depth from about 1 to 3 ft. on tops and slopes, and from 3 to 10 ft. in the bottoms of draws, swales, and hollows, lying on bedrock, 1st. to 3rd. rate.
	Timber, cedar and pinon pine.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Undergrowth, yellow top, mountain rush, shadscale, white sagebrush, and black brush; gramma and bunch grass, good growth in swales and hollows, and scattering to fair on other portions of mile.
	Poor to fair grazing land.
	From the true point for the standard cor. of secs. 32 and 33, on the S. bdy. of the Tp., hereinbefore described,
	N.0°03'W., bet. secs. 32 and 33.
	Over nearly level San Rafael River bottom land, through scattering yellow top; asc. gradually 10 ft. to
4.00	Leave bottom land, bears NE. and SW.; begin abrupt ascent of 45 ft., over SE. slope.
6.60	Top of steep ascent, bears NE. and SW.; enter scattering undergrowth of shadscale, mountain rush, white sagebrush, and service berry bushes; asc. gradually 10 ft., over nearly level top of bench or shelf.
14.60	Leave bench or shelf, bears E. and W.; asc. abrupt S. slope 80 ft.
17.90	Spur, projects W. approximately 8 chs. dist.; desc. 120 ft.
37.60	Wash, 15 lks. wide, 1 ft. deep, in the bottom of draw, drains W. about 2 chs. dist., thence southwesterly; asc. gradual S. slope 50 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to solid rock, with a sandstone, 7x5x1½ ins., mkd. X, deposited at the base, and in a mound of stone, 5½ ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 32 | S 33 1933
41.00	Base of abrupt ascent, bears E. and W.
44.00	Spur, 75 ft. above ¼ sec. cor., slopes W. about 3 chs. dist.; desc. gradually 40 ft.
53.30	Enter scattering timber.
60.80	Wash, 15 lks. wide, 1 ft. deep, in the bottom of draw, drains SW.; asc. 70 ft. to sec. cor., along general W. slope.
69.80	Old wagon road, bears NW. to Castle Dale and Huntington, Utah and SE. to Mexican Bend on the San Rafael River.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 3 ins. in the ground to bedrock, with a sandstone, 8x5x1 ins., mkd. X, deposited at the base, and in a mound of stone, 7 ft. base, 2½ ft. high, for cor. of secs. 28, 29, 32, and 33, with brass cap mkd. T20S | R12E; S29 | S28; S32 | S33; 1933

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains

There are no trees available for marking as accessories to cor.

Land, nearly level San Rafael River bottom, S. 4.00 chs.; rolling, rough, and broken with outcroppings of blue shale and limestone and varied colored sandstone formation, N. 76.00 chs.; drainage SW. into the San Rafael River, thence SE.

Soil, red sand and sandy loam, several ft. deep, 1st. rate on dry river bottom; red sand and varied colored clays, about 4 ins. to several ft. deep, lying on a clay subsoil or on bedrock of shale, limestone or sandstone, 3rd. and 4th. rate, on N. 76.00 chs.

Timber, a few scattering scrubby cedar.

Undergrowth, yellow top, mountain rush, shadscale, white sagebrush, and service berry bushes; scattering greasewood on river bottom land; sparse to fair growth of bunch and gramma grass.

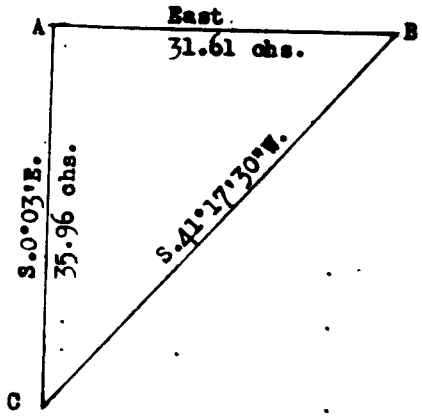
Fair grazing land.

East, on a random line bet. secs. 28 and 33.

30.60 Base of nearly perpendicular red sandstone ledge, 325 ft. high, bears N.10°W. and S.30°E.

It is impracticable to chain over this ledge; therefore, I make the following triangulation:

Erect a flag A on the cor. of secs. 28, 29, 32, and 33; then, set a flag B on line on top of the ledge, the base of which being noted at 30.60 chs. From flag B, a flag C previously set at the 44.04 chs. point bet. secs. 32 and 33, bears S.41°17'30"W. The base line from flag A to flag C has a bearing of S.0°03'E. and a length of 35.96 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 89°57'
Angle at flag B = 48°42'30"
Angle at flag C = 41°20'30"

Distance from flag A to flag B.....= 31.61 chs.

Thence, from flag B by direct measurement,

40.00 Set temp. ¼ sec. cor.

80.02 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 27, 28, 33, and 34.

Thence,

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	S.89°57'W., on a true line bet. secs. 28 and 33.
	Over nearly level and gently rolling top of bench, through a medium heavy growth of timber and scattering undergrowth; gradual ascent of 100 ft.
18.50	Leave nearly level and gently rolling top of bench, bears NW. and SE.; leave medium heavy growth of timber, bears NW. and SE., and enter scattering; begin steep ascent of 195 ft., over rough NE. slope.
33.60	Rugged spur, projects N. about 8 chs. dist.; desc. abruptly 80 ft. to
40.01	True point for ¼ sec. cor. falls in wash, 10 lks. wide, 3 ft. deep, draining N.; continue descent of 10 ft. to
40.87	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, 2¾ ft. high, for witness ¼ sec. cor., with brass cap mkd.
	¼ S 28 / S 33 W C 1933
	All trees within a reasonable distance are too scrubby for marking as accessories to cor.
48.41	Triangulation flag B on top of the ledge, bearing same as the base, 80 ft. below the witness ¼ sec. cor.; begin precipitous descent of 425 ft. to sec. cor., over outcroppings, large boulders, and series of high, broken, sloping, and nearly perpendicular ledges on general W. slope.
80.02	Flag A on the cor. of secs. 28, 29, 32, and 33.
	Land, nearly level and gently rolling top of bench, E. 18.50 chs.; steep, broken, rugged, and mountainous, with outcroppings, large boulders, slide rock, rim rock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone, W. 61.52 chs.; red and blue shale and blue limestone outcroppings; general drainage to the S., E. 33.60 chs.; remainder of mile drains SW.
	Soil, shallow red sand, lying on bedrock, or alternate layers of red sand, varied colored clays, red and blue shale, blue limestone, and sandstone, 4th. rate.
	Timber, cedar and pinon pine.
	Undergrowth, mountain rush, black brush, yellow top, shadscale, and service berry bushes; sparse to scattering growth of bunch and gramma grass.
	Poor grazing land.
	N.0°03'W., bet. secs. 28 and 29.
	Over rough and broken land, through scattering timber and undergrowth; gradual ascent of 5 ft. along general W. slope.
0.40	Wash, 20 lks. wide, 6 ft. deep, heads E. about 8 chs. dist., drains SW.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
5.00	Slope changes from W. to SW.; asc. abruptly 210 ft.
23.10	Top of ascent, bears NE. and SW.; steep descent of 160 ft. to ¼ sec. cor., over NW. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼
S 29 | S 28
1933

raise a mound of stone, 3 ft. base; 2 ft. high, W. of cor.

No suitable trees are available for marking as accessories to cor.

50.40	Wash, 30 lks. wide, 5 ft. deep, in the bottom of draw, 65 ft. below ¼ sec. cor., heads SE. approximately 15 chs. dist., drains W.; steep ascent of 505 ft., over SW. slope to
68.10	Top of broken and nearly perpendicular red sandstone ledge or N. rim of draw, 130 ft. high, bears NW. about 4 chs. dist., thence northeasterly, and SE.; over nearly level top of spur, projecting W. about 2.50 chs. dist., then slopes off abruptly to the W.
73.40	Top of broken and nearly perpendicular red sandstone ledge or S. rim of the E. fork of Red Canyon, 125 ft. high, bears NE. and SW.; precipitous descent of 345 ft. to sec. cor., over general N. slope.
80.00	Set an iron post, 3 ft. long; 2 ins. diam., 27 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, with brass cap mkd.

T20S R12E
S20 | S21
S29 | S28
1933

raise a mound of stone, 3½ ft. base, 3 ft. high, W. of cor.

No suitable trees are available for marking as accessories to cor.

Land, abrupt, broken, and mountainous; rugged with large boulders, slide rock, rim rock, outcroppings, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone; outcroppings of red and blue shale and blue limestone; drainage W., NW., and SW. into the E. and main forks of Red Canyon, thence S.

Soil, shallow red sand, lying on bedrock, or alternate layers of red sand, varied colored clays, red and blue shale, and sandstone, 4th. rate.

Timber, cedar and pinon pine.

Undergrowth, mountain rush, black brush, yellow top, shadscale, and service berry bushes; sparse to a scattering growth of bunch and gramma grass.

Poor grazing land.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	N.89°57'E., on a random line bet. secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect N. and S. line, 4 lks. N. of the cor. of secs. 21, 22, 27, and 28.
	Thence,
	S.89°59'W., on a true line bet. secs. 21 and 28.
	Over nearly level, rough, and broken top of bench or shelf, through a medium heavy growth of timber and scattering undergrowth.
1.50	Top of broken brown sandstone ledge or W. rim of bench or shelf, 120 ft. high, bears NE. and SW., 5 ft. below sec. cor.; desc. abrupt SW. slope 250 ft.
14.30	Wash, 40 lks. wide, 5 ft. deep, in the bottom of ravine, drains NW. about 3 chs. dist. into the E. fork of Red Canyon; asc. E. slope 35 ft.
19.10	Spur, slopes N. approximately 2 chs. dist.; gradual descent of 20 ft.
24.30	Wash, 15 lks. wide, 3 ft. deep, in the head of draw, drains N.; asc. steep E. slope 250 ft. to
40.06	Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, with a sandstone, 10x5x5 ins., mkd. X, deposited at the base, and in a mound of stone, 5 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 21 / S 28 / 1933
	All trees available are not suitable for marking as accessories to cor.
41.70	Spur, 10 ft. above ¼ sec. cor., slopes N. about 7 chs. dist.; desc. abruptly 45 ft.
48.20	Draw, drains N. approximately 10 chs. dist. into the E. fork of Red Canyon; steep ascent of 90 ft.
59.70	Spur, slopes N. about 12 chs. dist.; desc. precipitous general N. slope 245 ft. to sec. cor., over small draws and spurs, putting N. and NW.
80.12	The cor. of secs. 20, 21, 28, and 29.
	Land; abrupt, rough, and broken general S. side of the E. fork of Red Canyon, draining westerly; outcroppings, large boulders, rim rock, slide rock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone formation; blue and red shale outcroppings.
	Soil, shallow red sand, lying on bedrock, or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate.
	Timber, cedar and pinon pine.
	Undergrowth, mountain rush, yellow top, shadscale, black brush, and service berry bushes; scattering growth of bunch grass.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

BOOK A 514

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Poor grazing land.
	N.0°03'W., bet. secs. 20 and 21.
	Desc. abrupt rough general N. slope 150 ft., through scattering timber and undergrowth.
11.80	Wash, 80 lks. wide, 5 ft. deep, in the bottom of the E. fork of Red Canyon, drains westerly; asc. precipitous S. slope 420 ft. to
23.30	Top of nearly perpendicular red sandstone ledge or N. rim of the E. fork of Red Canyon, 65 ft. high, bears E. and W.; asc. 65 ft. to ¼ sec. cor., along nearly level top of bench or shelf, through a medium heavy growth of timber, bearing E. and W.
27.20	Leave nearly level land, begin to ascend abruptly along W. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, with a limestone, 6x6x2 ins., mkd. X, deposited at the base, and in a mound of stone, 4½ ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 20 | S 21 1933
	There are no trees within a reasonable distance suitable for marking as accessories to cor.
46.90	Top of ascent on W. slope, 80 ft. above ¼ sec. cor.; desc. steep NW. slope to
54.70	Base of abrupt descent, bears NE. and SW.; desc. gradual N. slope to
60.70	Top of broken and nearly perpendicular red sandstone ledge or S. rim of gulch, 45 ft. high, bears NE. approximately 15 chs. dist. and SW. about 8 chs. dist., thence S., 240 ft. below top of ascent noted at 46.90 chs.; steep descent of 150 ft., over NW. slope.
66.00	Wash, 50 lks. wide; 5 ft. deep, in the bottom of gulch, drains SW.; asc. abrupt S. slope 145 ft. to
71.10	Top of broken and nearly perpendicular red sandstone ledge or N. rim of the gulch, 40 ft. high, bears E. approximately 10 chs. dist. and SW. about 7 chs. dist., thence northwesterly; asc. gradually 50 ft. to sec. cor., over rough and broken top of bench or shelf.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to bedrock, with a sandstone, 8x6x1 ins., mkd. X, deposited at the base, and in a mound of stone, 5½ ft. base, 2 ft. high, for cor. of secs. 16, 17, 20, and 21, with brass cap mkd.
	T20S R12E S17 | S16 S20 | S21 1933
	from which

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	A cedar, 8 ins. diam., bears S.16°45'E., 137 lks. dist., mkd. T 20 S R 12 E S 21 B T.
	A pinon pine, 9 ins. diam., bears N.61°45'W., 40 lks. dist., mkd. T 20 S R 12 E S 17 B T.
	There are no trees available for marking in secs. 16 and and 20.
	Land, abrupt, rough, and broken sides of the E. fork of Red Canyon and the E. side of the W. fork of Red Canyon; outcroppings, large boulders, rim rock, slide rock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone formation; blue and red shale and blue limestone outcroppings; general drainage S.
	Soil, shallow red sand, lying on bedrock, or alternate layers of red sand, varied colored clays, shale, limestone, and sandstone, 4th. rate. Red sand and sandy loam, several ft. deep, lying on bedrock, 1st. and 2nd. rate, in the bottoms of gulches and forks of Red Canyon.
	Timber, cedar and pinon pine.
	Undergrowth, mountain rush, yellow top, shadscale, black brush, and service berry bushes; scattering growth of bunch grass.
	Poor grazing land.
	N.89°59'E., on a random line bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
80.11	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 15, 16, 21, and 22.
	Thence,
	West, on a true line bet. secs. 16 and 21.
	Over rough and broken land, through scattering timber and undergrowth; desc. 70 ft., along N. slope.
0.90	Top of broken and nearly perpendicular light colored or gray sandstone ledge, 65 ft. high, bears N. and SE.; descent becomes abrupt, bearing N. and S.
6.30	Draw, drains S.; asc. gradual broken E. slope 140 ft. to
26.90	Base of a light colored or gray sandstone dome or butte, bears NW. approximately 3 chs. dist. and SE. about 2 chs. dist.; precipitous ascent.
29.60	Top of the dome or butte, 110 ft. high, bears same as base; desc. abruptly 415 ft. to
38.40	Base of the dome or butte, bears N. and S.; desc. gradual W. slope 30 ft. to
40.05	Set an iron post, 3 ft. long, 1 in. diam., 7 ins. in the ground to bedrock, and in a mound of stone, 5½ ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 16 / S 21 1933

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	from which
	A cedar, 5 ins. diam., bears S.2°00'E., 51 lks. dist., mkd. ¼ S 21 B T.
	A pinon pine, 8 ins. diam., bears N.77°30'W., 93 lks. dist., mkd. ¼ S 16 B T.
	From this cor., continue gradual descent of 70 ft., over W. slope to
57.20	Top of nearly perpendicular red sandstone ledge or E. rim of the W. fork of Red Canyon, 365 ft. high, bears NE. and SW.; desc. steep W. slope 565 ft.
68.00	Wash, 20 lks. wide, 2 ft. deep, in the bottom of rugged draw, heads NE. approximately 15 chs. dist., drains SW.; asc. E. slope 70 ft.
74.90	Red shale spur, slopes S. about 1.50 chs. dist.; desc. gradual W. slope 90 ft. to sec. cor., over top of bench or shelf.
80.11	The cor. of secs. 16, 17, 20, and 21.
	Land, abrupt, broken, and rough mountainous, with narrow benches or shelves; outcroppings, large boulders, rim rock, slide rock, and broken, sloping, and nearly perpendicular ledges of red, brown, yellow, and gray sandstone formation; outcroppings of blue and red shale and blue limestone; drainage westerly into the W. fork of Red Canyon, thence S.
	Soil, shallow red sand, lying on bedrock, or alternate layers of red sand, varied colored clays, shale, limestone and sandstone, 4th. rate. Surface rock exposed on greater portion of mile.
	Timber, cedar and pinon pine; dense growth on benches and shelves.
	Undergrowth, sparse to scattering growth of mountain rush, black brush, yellow top, shadscale, and service berry bushes; bunch grass, sand grass, and red top grass; sparse growth on greater portion of mile, fair to good growth on tops of benches or shelves.
	Poor to fair grazing land.
	N.0°03'W., bet. secs. 16 and 17.
	N. for a distance of approximately 77 chs., the line follows along, and off and on or near the W. face of a high, sloping, and nearly perpendicular red sandstone ledge or the E. rim of a gorge or fork of the W. fork of Red Canyon, making chaining impracticable; therefore, from the cor. of secs. 16, 17, 20, and 21, offset
	East, 33.215 chs. dist., bet. secs. 16 and 21.
	Thence, on traverse line
	N.42°45'W., 43.00 chs. dist. At the beginning of course, desc. gradually 75 ft., over rolling, rough, and broken top of bench or shelf, through a scattering to a medium heavy growth of timber and undergrowth.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains

At 11.40 chs., top of nearly perpendicular red sandstone ledge or S. rim of gorge, 350 ft. high, bears E. and W.

At 15.40 chs., bottom of gorge, 450 ft. deep, heads E. about 1 ch. dist., drains westerly.

At 19.40 chs., top of nearly perpendicular red sandstone ledge or N. rim of the gorge, 350 ft. high, bears E. and W., 20 ft. below S. rim; begin gradual ascent of 85 ft., over SE. slope of same bench or shelf.

At 33.70 chs., spur, projects southwesterly; gradual descent of 55 ft.

At 43.00 chs., end of course.

Thence,

N.3°00'E.; 6.00 chs. dist. At the beginning of course, over nearly level, rough, and broken top of same bench or shelf, through a sparse growth of timber and undergrowth.

At 6.00 chs., end of course.

Thence,

North, 0.05 chs. dist.; set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, 2¾ ft. high, for witness ¼ sec. cor., with brass cap mkd.

WC ¼
S 17 | S 16
1933

There are no trees within a reasonable distance suitable for marking as accessories to cor.

From this witness ¼ sec. cor., the true point for the ¼ sec. cor., hereinafter described as to location, bears N.61°26'W. 4.98 chs. dist.

From the witness ¼ sec. cor.,

South, 0.05 chs. dist.; then, on traverse line

S.3°00'W., 6.00 chs. dist.

Thence,

S.42°45'E., 43.00 chs. dist. to true line bet. secs. 16 and 21.

Thence, offset

West, 33.215 chs. dist. to the cor. of secs. 16, 17, 20, and 21.

Therefore, the location of the witness cor. to the ¼ sec. cor. of secs. 16 and 17 is verified by the return traverse line to the cor. of secs. 16, 17, 20, and 21.

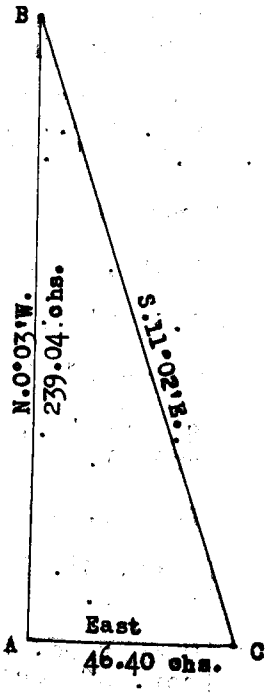
Beginning at the cor. of secs. 16, 17, 20, and 21, I describe and give the approximate distances and elevations

Chains	
	to topography on the greater portion of mile as follows:
	Over rugged mountainous land; asc. abrupt barren SW. face of a sloping and nearly perpendicular red sandstone ledge or E. rim of a fork of the W. fork of Red Canyon.
10.00	Top of the ledge or rim, 400 ft. above sec. cor., bears northeasterly and southeasterly; desc. abruptly 500 ft. along and near the NW. face of the ledge or rim, over sandstone prongs and crags to
40.00	True point for ¼ sec. cor. falls on the lower ledge of a series of nearly perpendicular red sandstone ledges, 400 ft. high, bearing northeasterly and southwesterly, and forming the E. rim of a fork of the W. fork of Red Canyon, where it is impracticable to establish a cor. monument or mark a cross (X).
50.00	Top of the same series of ledges or rim as noted at 40.00 chs., 400 ft. above the true point for ¼ sec. cor., bears northwesterly and southeasterly; asc. 40 ft. across shelf of surface rock and boulders.
57.00	Begin precipitous ascent over series of three nearly perpendicular red sandstone ledges, about 100 to 200 ft. high, bearing northwesterly and southeasterly.

To determine the length of the line bet. secs. 16 and 17, I make the two following triangulations:

Owing to high ledges, rims, pillars, domes, crags, and prongs of spurs and ridges, all flags previously set on the lines heretofore established are invisible from the line bet. secs. 16 and 17, except a flag on each of the random lines bet. secs. 28 and 33 and 29 and 32. And, on account of the rugged country, there are no suitable sites for base lines nearer than two miles of the cor. of secs. 16, 17, 20, and 21; therefore, I use portions of the random lines bet. secs. 28 and 33 and 29 and 32 as base lines.

Designate the cor. of secs. 28, 29, 32, and 33 as point A; then set a flag B on line N. of the N. rim of a fork of the W. fork of Red Canyon and near the point for cor. of secs. 8, 9, 16, and 17. From flag B, a flag C set at the 46.40 chs. point on random line bet. secs. 28 and 33, bears S.11°02'E. The base line from point A to flag C has a bearing of east and a length of 46.40 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



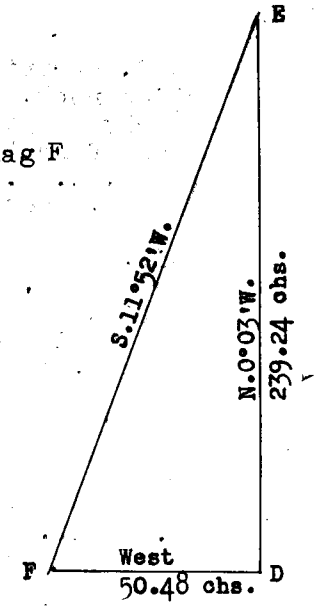
Angle at point A = 90°03'
Angle at flag B = 10°59'
Angle at flag C = 78°58'

Distance from point A to flag B.....=239.04 chs.
Distance from point A to the cor. of secs. 16, 17, 20, and 21.....=160.00 chs.
Distance from the cor. of secs. 16, 17, 20, and 21 to flag B.....= 79.04 chs.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains

Designate the cor. of secs. 28, 29, 32, and 33 as point D, and flag B of the previous triangulation as flag E. From flag E, a flag F set 8 lks. S. of the 29.48 chs. point on random line bet. secs. 29 and 32, bears S.11°52'W. The base line from point D to flag F has a bearing of west and a length of 50.48 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at point D = 89°57'
Angle at flag E = 11°55'
Angle at flag F = 78°08'

Distance from point D to flag E.....=239.24 chs.
Distance from point D to the cor. of secs. 16, 17, 20, and 21.....=160.00 chs.
Distance from the cor. of secs. 16, 17, 20, and 21 to flag E.....= 79.24 chs.

Mean distance by the two triangulations from the cor. of secs. 16, 17, 20, and 21 to flag B which is identical with flag E.....= 79.14 chs.

Thence, from flag B identical with flag E, by direct measurement
S.0°03'E., 2.00 chs. dist., or at

77.14 Top of broken and nearly perpendicular red sandstone ledge or N. rim of a fork of the W. fork of Red Canyon, about 350 ft. high, bears E. and W., 630 ft. above the witness cor. to the ¼ sec. cor. of secs. 16 and 17.
Thence,

N.0°03'W., 2.00 chs. dist., ascending gradual SW. slope 15 ft., through a heavy growth of timber, bearing E. and W., and scattering undergrowth, to

79.14 Triangulation flag B identical with triangulation flag E.; over nearly level top to

80.00 On top of ridge, bearing N.60°W. and S.60°E., set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 8, 9, 16, and 17, with brass cap mkd.

T20S R12E
S8 | S9
S17 | S16
1933

from which

A cedar, 6 ins. diam., bears N.35°30'E., 84 lks. dist., mkd. T 20 S R 12 E S 9 B T.

A pinon pine limb, 5 ins. diam., bears S.70°45'E., 123 lks. dist., mkd. T 20 S R 12 E S 16 B T.

A pinon pine, 6 ins. diam., bears S.12°30'W., 86 lks. dist., mkd. T 20 S R 12 E S 17 B T.

A pinon pine limb, 4 ins. diam., bears N.60°00'W., 165 lks. dist., mkd. T 20 S R 12 E S 8 B T.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Land, abrupt and mountainous; outcroppings, large boulders, slide rock, rim rock, and series of broken, sloping, and nearly perpendicular ledges of red, yellow, and gray sandstone formation, S. 77.10 chs.; blue limestone outcroppings, N. 2.90 chs.; drainage SW. into the W. fork of Red Canyon, thence S., S. 79.10 chs.; N. 0.90 chs. drain NE.
	Soil, shallow red sand, lying on bedrock, 4th. rate, in few places, but mostly surface rock exposed on greater portion of S. 77.10 chs.; red sand about 3 ins. to 2½ ft. deep, lying on bedrock or on a brown or light colored clay subsoil, 3rd. and 4th. rate, on N. 2.90 chs.
	Timber, cedar and pinon pine, sparse on S. 77.10 chs. and heavy growth on N. 2.90 chs.
	Undergrowth, mountain rush and black brush, sparse on S. 77.10 chs. and scattering growth on remainder of mile; sparse to scattering bunch and gramma grass.
	Poor grazing land.
	.....
	East, on a random line bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
80.26	Intersect N. and S. line, 10 lks. N. of the cor. of secs. 9, 10, 15, and 16.
	Thence,
	N.89°56'W., on a true line bet. secs. 9 and 16.
	Over rolling and broken land, through a medium heavy growth of timber and scattering undergrowth; asc. gradual NE. slope 5 ft. to
1.10	Top of ascent, bears SE. and SW.; desc. gradual NW. slope 40 ft.
5.40	Draw, heads SW. about 3 chs. dist., drains NE.; gradual ascent of 30 ft.
11.80	Spur, slopes NE. approximately 3 chs. dist.; desc. gradually 15 ft.
14.30	Wash, 10 lks. wide, 2 ft. deep, in the bottom of draw, drains NE.; asc. gradually 75 ft.
22.30	Spur, slopes NE. about 4 chs. dist.; gradual descent of 10 ft.
29.60	Draw, drains NE.; asc. gradual SE. slope 50 ft. to
40.13	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 4½ ft. base, 1¾ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 9 / S 16 1933
	from which
	A pinon pine, 9 ins. diam., bears S.20°00'E., 103 lks. dist., mkd. ¼ S 16 B T.

Chains	
	A pinon pine, 4 ins. diam., bears N.38°15'W., 85 lks. dist., mkd. ¼ S 9 B T.
43.80	Spur, 30 ft. above ¼ sec. cor., projects N.; desc. gradually 15 ft.
50.30	Head of draw, drains NE.; asc. gradual E. slope 5 ft.
51.70	Spur, slopes N. about 3 chs. dist.; gradual descent of 25 ft.
53.80	Draw, heads S. approximately 3 chs. dist., drains NE.; gradual ascent of 85 ft., over NE. slope to
80.26	The cor. of secs. 8, 9, 16, and 17.
	Land, rolling and broken mountain top, draining generally to the NE.; blue limestone outcroppings.
	Soil, red sand and sandy loam, about 6 ins. to 2½ ft. deep, lying on limestone and sandstone bedrock, 2nd. to 4th. rate.
	Timber, medium to heavy growth of cedar and pinon pine.
	Undergrowth, mountain rush and yellow top; scattering to a fair growth of bunch and gramma grass.
	Poor to fair grazing land.
	N.0°03'W., bet. secs. 8 and 9.
	Over nearly level and gently rolling general N. slope, through scattering undergrowth of mountain rush, shadscale, yellow top, and white sagebrush, and a heavy growth of timber; desc. gradually 75 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 8 | S 9 1933
	from which
	A cedar limb, 8 ins. diam., bears N.28°30'E., 134 lks. dist., mkd. ¼ S 9 B T.
	A cedar, 8 ins. diam., bears N.36°15'W., 98 lks. dist., mkd. ¼ S 8 B T.
57.30	Wash, 30 lks. wide, 4 ft. deep, in the bottom of draw, 105 ft. below ¼ sec. cor., drains NE.; asc. SE. slope 65 ft.
63.20	Spur, projects NE.; gradual descent of 30 ft.
72.80	Leave heavy growth of timber, bears NE. and SW., and enter scattering.
73.00	Draw, drains NE.; asc. gentle SE. slope 5 ft. to sec. cor.
73.30	Leave undergrowth of mountain rush, shadscale, and white sagebrush, and enter a dense growth of yellow top, bears

U. S. GOVERNMENT PRINTING OFFICE: 1934 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains

NE. and SW.

80.00 Set an iron post, 3 ft. long, ¾ ins. diam., 27 ins. in ground, for cor. of secs. 4, 5, 8, and 9, with brass cap mkd.

T20S R12E
S5 | S4
S8 | S9
1933

from which

A cedar, 6 ins. diam., bears N.74°15'E., 571 lks. dist., mkd. T 20 S R 12 E S 4 B T.

A cedar, 8 ins. diam., bears S.76°00'E., 823 lks. dist., mkd. T 20 S R 12 E S 9 B T.

A cedar, 8 ins. diam., bears S.2°00'W., 444 lks. dist., mkd. T 20 S R 12 E S 8 B T.

A cedar, 4 ins. diam., bears N.25°45'W., 361 lks. dist., mkd. T 20 S R 12 E S 5 B T.

Land, nearly level and gently rolling general N. slope, draining NE.; outcroppings of blue limestone formation.

Soil, red sand and sandy loam, rocky in places, varying in depth from a few ins. to about 3 ft., lying on a brown or white chalky clay subsoil or on limestone bedrock, 2nd to 4th. rate.

Timber, cedar and pinon pine.

Undergrowth, yellow top, mountain rush, shadscale, and white sagebrush; scattering growth of bunch and gramma grass.

Fair grazing land.

S.89°56'E., on a random line bet. secs. 4 and 9.

40.00 Set temp. ¼ sec. cor.

40.33 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 3, 4, 9, and 10.

Thence,

N.89°53'W., on a true line bet. secs. 4 and 9.

Over rolling and broken land, through a medium to heavy growth of timber and scattering undergrowth; desc. gentle NW. slope 5 ft.

1.00 Base of descent, bears NE. and S.; asc. gradually 50 ft., over gentle E. slope.

36.80 Base of knoll, bears northwesterly and southwesterly; asc. E. slope 25 ft.

38.30 Top of knoll, bears N. about 1 ch. dist. and S. approximately 1 ch. dist.; desc. W. slope 25 ft. to

40.16 At the base of knoll, bearing northeasterly and southeasterly, set an iron post, 3 ft. long, 1 in. diam., 10 ins.

Chains	
	in the ground to solid rock, and in a mound of stone, 6 ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd. S 4 ¼ ——— S 9 1933 from which A pinon pine, 10 ins. diam., bears N.37°00'E., 115 lks. dist., mkd. ¼ S 4 B T. A pinon pine, 12 ins. diam., bears S.57°00'E., 103 lks. dist., mkd. ¼ S 9 B T.
44.40	Wash, 50 lks. wide, 12 ft. deep, in the bottom of draw, 50 ft. below ¼ sec. cor., heads SW. about 7 chs. dist., drains NE. approximately 3 chs. dist. into a main draw, thence northeasterly; asc. 70 ft., along top of spur, sloping E.
53.00	Leave top of spur, from SW.; desc. NW. slope 30 ft.
58.80	Wash, 30 lks. wide, 6 ft. deep, in the bottom of draw, drains NE.; asc. gradually 60 ft.
68.20	Spur, projects NE.; gradual descent of 5 ft.
70.70	Leave medium to heavy growth of timber, bears NE. and SW., and enter scattering.
72.20	Wash, 15 lks. wide, 4 ft. deep, in the bottom of draw, drains NE.; asc. gentle SE. slope 20 ft. to sec. cor.
72.40	Enter dense undergrowth of yellow top, bears NE. and SW.
80.33	The cor. of secs. 4, 5, 8, and 9.
	Land, nearly level, rolling, and broken, draining generally to the NE.; outcroppings of blue limestone, and yellow and light colored sandstone formation.
	Soil, shallow red sand, lying on a light colored clay or on a white chalky subsoil or on bedrock, 1st. to 3rd. rate.
	Timber, cedar and pinon pine.
	Undergrowth, yellow top, buck brush, mountain rush, shadscale, and white sagebrush; sparse to a fair growth of bunch and gramma grass.
	Fair grazing land.
	N.0°12'W., on a random line bet. secs. 4 and 5.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. lot cor.
86.89	Intersect the N. bdy. of the Tp., 43 lks. W. of the cor. of secs. 4, 5, 32, and 33, heretofore described in the official field notes of T. 19 S., R. 12 E., in this group.
	Thence,

Chains	
	S.0°05'W., on a true line bet. secs. 4 and 5.
	Over rolling and gently rolling land, through a sparse growth of timber and dense undergrowth; asc. gradual NW. slope 10 ft. to
6.89	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for cor. of lots Nos. 4 and 5, sec. 4, and lots Nos. 1 and 8, sec. 5, with brass cap mkd.

1 | 4
S 5 — S 4
8 | 5

1933

raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

There are no trees within a reasonable distance suitable for marking as accessories to cor.

12.70	A dry ditch, 3 lks. wide, 1 ft. deep, drains northwesterly into a reservoir in the NE.¼ of sec. 5.
14.60	Wagon road, bears NW. to Castle Dale and Huntington, Utah and SE. to D. S. Olsen's homestead in secs. 11 and 14.
22.90	Top of ascent, 20 ft. above lot cor., bears NE. and SW.; gradual descent of 10 ft.
27.60	Wash, 25 lks. wide, 3 ft. deep, in the bottom of draw, drains NE.; asc. gentle NW. slope 40 ft. to
46.89	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼
S 5 | S 4
1933

from which

A cedar, 7 ins. diam., bears S.68°00'E., 574 lks. dist., mkd. ¼ S 4 B T.

A cedar, 4 ins. diam., bears S.68°15'W., 541 lks. dist., mkd. ¼ S 5 B T.

From this ¼ sec. cor., asc. gradually 65 ft. to sec. cor., over nearly level and gently rolling N. and NE. slope.

48.90	The S. extremity of a 3 strand barb wire fence, which extends northerly, bears east 2.50 chs. dist.
86.89	The cor. of secs. 4, 5, 8, and 9.

Land, nearly level and gently rolling general N. and NE. slope, draining to the NE.; outcroppings of blue limestone formation.

Soil, red sand and sandy loam, rocky in places, about 2 to 5 ft. deep, lying on blue limestone bedrock, 1st. to 3rd. rate.

Timber, a sparse growth of cedar.

Undergrowth, dense growth of yellow top, scattering shadscale and white sagebrush; scattering to a fair growth of bunch and gramma grass.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	Fair grazing land.
	From the standard cor. of secs. 31 and 32, on the S. bdy. of the Tp., hereinbefore described,
	N.0°03'W., bet. secs. 31 and 32.
	Over rolling, rough, and broken land, through scattering undergrowth; asc. abrupt SW. slope 65 ft.
1.80	Spur, from W., projects SE. approximately 15 chs. dist.; desc. steep NE. slope 120 ft.
15.40	Wash, 15 lks. wide, 2 ft. deep, in the head of draw, drains SE. about 25 chs. dist., thence northeasterly; abrupt ascent of 105 ft.
19.30	Spur, slopes NW. about 3 chs. dist.; desc. gradual NE. slope 55 ft. to
40.00	In the bottom of a small depression, draining E., set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, with a limestone, 6x4x1 ins., mkd. X, deposited at the base, and in a mound of stone, 5½ ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 31 | S 32 1933
42.40	Spur, 5 ft. above ¼ sec. cor., slopes E. about 60 lks. dist.; desc. N. slope 20 ft. to
43.20	Top of broken and nearly perpendicular limestone ledge or right rim of the old channel of the San Rafael River, 20 ft. high, bears NW. and SE.; steep descent of 180 ft., over NE. slope to
49.80	Right bank or high water mark of the present channel of the San Rafael River, 5 ft. high, bears NW. and SE.: over nearly level dry river bottom to
57.20	S. edge of San Rafael River, which is a stream of muddy alkali water, 80 lks. wide, 1 to 3 ft. deep, having a southeasterly course.
58.00	From the N. edge of the stream, over nearly level dry river bottom to
67.00	Left bank or high water mark of the present channel of the San Rafael River, 5 ft. high, bears NW. and SE.; asc. gradual SE. slope 50 ft. to
75.60	Ascent becomes abrupt, slope changing from SE. to S.
78.10	Top of steep ascent or left edge or rim of the old channel of the San Rafael River, bears E. and W., 45 ft. above the base of abrupt ascent; asc. gradually 5 ft., over nearly level land to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, with brass cap mkd.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	T20S R12E S30 | S29 S31 | S32 1933
	raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.
	Land, rolling, rough, and broken, and nearly level bottom land of the San Rafael River; surface rocky and outcroppings of blue limestone and shale formation; drainage easterly and westerly into the San Rafael River, thence southeasterly.
	Soil, red sand and sandy loam, about 1 to several ft. deep, lying on bedrock, 1st. and 2nd. rate, on bottom land; shallow and rocky red sand, lying on bedrock of shale and limestone, 3rd. and 4th. rate, on other portions of mile.
	Timber, no timber except scattering and groves of cottonwood on the San Rafael River bottom land.
	Undergrowth, scattering to medium dense mountain rush, yellow top, shadscale, white sagebrush, and service berry bushes; scattering greasewood on river bottom land; sparse to fair growth of bunch and gramma grass.
	Fair grazing land.
	East, on a random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line, 8 lks. N. of the cor. of secs. 28, 29, 32, and 33.
	Thence,
	N.89°57'W., on a true line bet. secs. 29 and 32.
	Over rough and broken land, through scattering timber and undergrowth; desc. W. slope 30 ft.
0.40	Wash, 20 lks. wide, 6 ft. deep, drains SW.
8.10	Old wagon road, bears N. about 2 chs. dist., thence westerly to Castle Dale and Huntington, Utah and S. about 1 ch. dist., thence southeasterly to Mexican Bend on the San Rafael River.
11.40	Head of draw, drains S.; gradual ascent of 20 ft.
26.30	Spur, projects N.; desc. abruptly 95 ft.
31.50	Wash, 50 lks. wide, 6 ft. deep, from Red Canyon, in the bottom of hollow, drains S.20°W.; asc. gradual E. slope 50 ft.
38.10	Spur, slopes S. about 1 ch. dist.; desc. gradual W. slope 20 ft. to
39.97	Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, with a sandstone, 8x6x1 ins., mkd. X, deposited at the base, and in a mound of stone, 6 ft. base, 1½ ft. high, for ¼ sec. cor., with brass cap mkd.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	$\frac{1}{4}$ $\frac{S\ 29}{S\ 32}$ 1933
	There are no trees within a reasonable distance suitable for marking to witness the cor.
41.90	Wash, 20 lks. wide, 4 ft. deep, in the head of draw, 10 ft. below $\frac{1}{4}$ sec. cor., drains SE.; asc. gradual E. slope 70 ft.
69.40	Top of ascent; bears N. and S.; desc. abrupt W. slope 60 ft.
71.80	Wash, 20 lks. wide, 6 ft. deep, in the bottom of draw, drains S.; abrupt ascent of 65 ft.
76.90	Spur, slopes S. about 1.50 chs. dist.; desc. broken W. slope 30 ft. to
79.94	The cor. of secs. 29, 30, 31, and 32.
	Land, rolling, rough, and broken, with outcroppings of red and blue shale, blue limestone, and varied colored sandstone formation; general drainage S. into the San Rafael River, thence southeasterly.
	Soil, rocky and shallow red sand, lying on bedrock, 2nd. to 4th. rate.
	Timber, a few scattering cedar.
	Undergrowth, scattering to medium dense yellow top, shadscale, mountain rush, white sagebrush, and service berry bushes; scattering to fair growth of bunch and gramma grass.
	Fair grazing land.
	West, on a random line bet. secs. 30 and 31.
40.00	The 40.00 ch. point falls on dry river bed.
46.80	Set temp. witness $\frac{1}{4}$ sec. cor.
80.00	Set temp. lot cor.
97.30	Intersect the W. bdy. of the Tp., 13 lks. N. of the cor. of secs. 25, 30, 31, and 36, heretofore described in the official field notes of T. 20 S., R. 11 E., in this group.
	Thence,
	N.89°55'E., on a true line bet. secs. 30 and 31.
	Over rolling and broken land, through scattering timber and undergrowth; asc. gradual W. slope 10 ft.
3.10	Top of ascent, bears N. and S.; desc. E. slope 30 ft. to
17.30	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, $2\frac{3}{4}$ ft. high, for cor. of lots Nos. 7 and 8, sec. 30, and lots Nos. 1 and 2, sec. 31, with brass cap mkd.

SUBDIVISION OF T. 29 S., R. 12 E.

Chains	Chains

S 30
7 | 8
2 | 1
S 31
1933

No trees are available suitable for marking as accessories to cor.

23.20 Wash, 20 lks. wide, 2 ft. deep, in the bottom of draw, from SW., 20 ft. below lot cor., drains SE. about 3 chs. dist., thence northeasterly; asc. broken W. slope 60 ft.

29.70 Top of knoll, bears N. about 70 lks. and S. about 70 lks. dist.; desc. E. slope 110 ft.

32.50 Top of broken and nearly perpendicular sandstone ledge or W. rim of draw, 5 ft. high, bears N. and SW.; descent becomes more abrupt.

37.00 Wash, 30 lks. wide, 5 ft. deep, in the bottom of draw or gulch, drains N. approximately 10 chs. dist. into the San Rafael River; asc. steep W. slope 100 ft.

40.40 Top of broken and nearly perpendicular sandstone ledge or E. rim of draw, 5 ft. high, bears N. and SW.; ascent becomes more gradual.

45.00 Spur, projects NW. about 5 chs. dist.; desc. gradual E. slope 15 ft. to

50.20 Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to bedrock, with a limestone, 6x2½x1 ins., mkd. K, deposited at the base, and in a mound of stone, 5½ ft. base, 2½ ft. high, for witness ¼ sec. cor., with brass cap mkd.

S 30 W
S 31 C
1933

There are no trees available for marking as accessories to cor.

50.50 Top of broken and nearly perpendicular limestone ledge or right rim of the old channel of the San Rafael River, 110 ft. high, bears about N.60°W. and S.80°E., 5 ft. below witness ¼ sec. cor.; desc. abruptly 85 ft. to

54.00 Right bank or high water mark of the present channel of the San Rafael River, 5 ft. high, bears N. and S. about 1½ chs. dist., thence easterly; over nearly level dry river bottom to

55.20 W. edge of San Rafael River, which is a stream of muddy alkali water, 130 lks. wide, 1 to 4 ft. deep, having a course of S. approximately 2 chs. dist., thence easterly.

56.50 From the E. edge of the stream, over nearly level dry river bottom.

57.30 True point for ¼ sec. cor. falls on dry river bed, which is subject to overflow, thereby making the establishment of a cor. monument impracticable.

70.00 Left bank or high water mark of the present channel of the San Rafael River, 5 ft. high, bears NW. and S. about 3 chs. dist., thence easterly; over nearly level bottom

Chains	
	land, through a medium heavy growth of cottonwood timber and dense undergrowth of greasewood and rabbit brush.
75.50	Leave cottonwood timber, bears NW. and SE.
75.70	Leave undergrowth of greasewood and rabbit brush, bears NW. and SE.
76.00	Top of broken and nearly perpendicular sandstone ledge or left rim of the old channel of the San Rafael River, 55 ft. high, bears N.60°W. and S.60°E.; desc. 55 ft., over broken general E. slope.
85.90	Wash, 30 lks. wide, 3 ft. deep, in the bottom of draw, drains S. about 3.50 chs. dist. into the San Rafael River; asc. broken general W. slope 90 ft. to
97.30	The cor. of secs. 29, 30, 31, and 32.
	Land, rolling, rough, and broken, and nearly level bottom land of the San Rafael River; surface rocky and outcroppings of blue limestone, red and blue shale, and varied colored sandstone formation; drainage into the San Rafael River, thence to the SE.
	Soil, red sand and sandy loam, about 1 to several ft. deep, lying on bedrock, 1st. and 2nd. rate, on bottom land; shallow and rocky red sand, lying on bedrock of shale, limestone or sandstone, 3rd. and 4th. rate, on other portions of mile.
	Timber, a few scattering cedar; scattering and groves of cottonwood on the bottom land of the San Rafael River.
	Undergrowth, scattering to medium dense mountain rush, yellow top, shadscale, white sagebrush, and service berry bushes; dense greasewood and rabbit brush on river bottom land; sparse to fair growth of bunch and gramma grass.
	Fair grazing land.
	N.0°03'W., bet. secs. 29 and 30.
	Asc. gradually 35 ft., along general W. slope, over rough and broken land, through scattering timber and undergrowth.
2.30	Slope changes from W. to S.
7.50	Top of ascent, bears E. and W.; gradual descent of 10 ft.
15.60	Head of draw, drains SW.; asc. gradual SE. slope 55 ft.
24.00	Old wagon road, bears W. to Castle Dale and Huntington, Utah and E. to Mexican Bend on the San Rafael River.
26.80	Begin steep ascent of 185 ft. to witness ¼ sec. cor., over large red sandstone boulders and series of small red sandstone ledges, bearing northeasterly and southwesterly, on SE. slope.
34.52	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, with a sandstone, 6x4x1½ ins., mkd. X, deposited at the base, and in a mound of stone, 4 ft. base, 1 ft. high, for witness ¼ sec. cor., with brass cap mkd.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	W.C. $\frac{1}{4}$ S 30 | S 29 1933
	There are no trees available for marking as accessories to cor.
40.00	True point for $\frac{1}{4}$ sec. cor. is located 195 ft. above the witness $\frac{1}{4}$ sec. cor., and falls on steep and rugged SE. slope, which is crumbling and breaking away, making the establishment of a cor. monument impracticable.
	Chaining is impracticable on the greater portion of the N. half mile on account of the line passing over a rugged red sandstone spur, which is capped with a high and almost perpendicular impassable ledge or rim; therefore, I give the approximate distances and elevations to topography on the N. half mile as follows, counting from the cor. of secs. 29, 30, 31, and 32:
50.00	Leave boulders and series of small ledges, bears northeasterly and southwesterly; slope changes from SE. to SW.
57.00	Top of nearly perpendicular red sandstone ledge or S. rim of spur, 250 ft. high, bears NW. and SE.
57.50	Top of sharp and narrow red sandstone spur, 600 ft. above the true point for $\frac{1}{4}$ sec. cor., projects SE. about 6 chs. dist., then slopes off abruptly to the SE. approximately 25 chs. dist.
58.00	Top of nearly perpendicular red sandstone ledge or N. rim of spur, 175 ft. high, bears NW. and SE.; desc. 250 ft. to the true point for the cor. of secs. 19, 20, 29, and 30, along the top of a narrow sandstone shelf, over outcroppings, and broken and nearly perpendicular ledges, bearing northwesterly and southeasterly, on the NE. side of the spur.
	On account of it being impracticable to project a line over the spur noted at 57.50 chs., I find that the most suitable and convenient method of determining the position of the true point for the cor. of secs. 19, 20, 29, and 30, is as follows:
	From the witness $\frac{1}{4}$ sec. cor. bet. secs. 29 and 30,
	S.0°03'E., 34.52 chs. dist. to the cor. of secs. 29, 30, 31, and 32; then offset
	S.89°57'E., 29.46 chs. dist. bet. secs. 29 and 32.
	Thence, on offset line
	N.0°03'W. 80.00 chs. dist. At the beginning of course, desc. gradual NE. slope 5 ft., over rolling, rough, and broken land, through scattering timber and undergrowth.
	At 15.30 chs., wash, 20 lks. wide, 12 ft. deep, in the head of draw, drains SE.; asc. gradual SW. slope 175 ft.
	At 23.70 chs., old wagon road, bears W. to Castle Dale and Huntington, Utah and E. to Mexican Bend on the San Rafael River.

SUBDIVISION OF T. 20 S., R. 12 E.

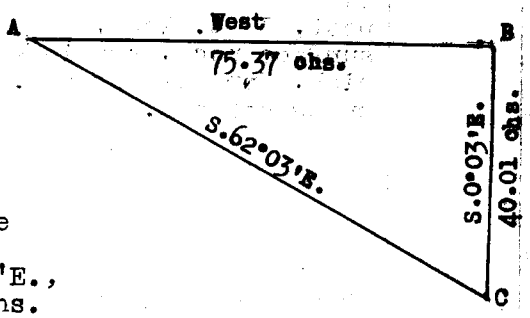
Chains	
	At 72.50 chs., top of ascent on E. slope; desc. gradually 15 ft.
	At 80.00 chs., end of course.
	Thence offset
	N.89°57'W., 29.46 chs. dist. As this offset line runs nearly parallel and within a few lks. dist. of the true line bet. secs. 20 and 29, hereinafter established and described, the topography on the two lines practically agree.
	At 24.94 chs., on top of sandstone ridge or ascent, bearing N. and S., set an iron post, 3 ft. long, 2 ins. diam., over a X chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2 ft. high, for witness cor. of secs. 19, 20, 29, and 30, with brass cap mkd.
	T20S R12E W S19 | S20 C S30 | S29 1933
	There are no trees available for marking to witness the cor.
	At 29.46 chs., end of course or at
80.00	True point for the cor. of secs. 19, 20, 29, and 30, falls on a steep and broken sandstone W. slope, where the establishment of a cor. monument or the marking of a cross (X) are impracticable.
	Land, rolling, rough, and broken, with outcroppings of red and blue shale, blue limestone, and varied colored sandstone, S. 50.00 chs.; large boulders, outcroppings, slide rock, rim rock, and broken and nearly perpendicular ledges of mostly red sandstone formation, N. 30.00 chs.; general drainage S. and SW. into the San Rafael River, thence southeasterly.
	Soil, shallow and rocky red sand, lying on bedrock or alternate layers of red sand, varied colored clays, shale, limestone, and sandstone, 3rd. and 4th. rate. Mostly surface rock exposed on N. 30.00 chs.
	Timber, a few scattering cedar on S. ½ mile.
	Undergrowth, scattering to medium dense yellow top, shadscale, mountain rush, white sagebrush, and service berry bushes, and scattering to fair growth of bunch and gramma grass, on S. ½ mile; very little undergrowth or grass on N. ½ mile.
	Fair grazing land, S. ½ mile, poor, N. ½ mile.
	From the true point for the cor. of secs. 19, 20, 29, and 30,
	S.89°57'E., on a random line bet. secs. 20 and 29.
4.52	Intersect the witness cor. of secs. 19, 20, 29, and 30, hereinbefore described.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
40.00	Set temp. ¼ sec. cor.
79.95	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 20, 21, 28, and 29.

It was difficult to chain the western portion of the random line bet. secs. 20 and 29, on account of a high and nearly perpendicular ledge or rim of ridge; therefore, I verify the length of the line bet. the witness cor. of secs. 19, 20, 29, and 30 and the cor. of secs. 20, 21, 28, and 29 by the following triangulation:

Erect a flag A on the witness cor. of secs. 19, 20, 29, and 30 and a flag B on the cor. of secs. 20, 21, 28, and 29. From flag A, a flag C previously set at the 39.99 chs. point bet. secs. 28 and 29, bears S.62°03'E. The base line from flag B to flag C has a bearing of S.0°03'E., and a length of 40.01 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 27°57'
Angle at flag B = 90°03'
Angle at flag C = 62°00'

Distance from the true point for the cor. of secs. 19, 20, 29, and 30 to flag A by direct measurement.....= 4.52 chs.
Distance from flag A to flag B by triangulation.....= 75.37 chs.
Distance from the true point for the cor. of secs. 19, 20, 29, and 30 to flag B by direct measurement and triangulation.....= 79.89 chs.

Length of the random line bet. secs. 20 and 29 by direct measurement.....= 79.95 chs.

Therefore, the mean length of the line bet. secs. 20 and 29 by direct measurement and triangulation.....= 79.92 chs.

Thence, from the cor. of secs. 20, 21, 28, and 29,

West, on a true line bet. secs. 20 and 29.

Desc. along rough general N. slope 165 ft., through scattering timber and undergrowth.

14.00	Wash, 100 lks. wide, 4 ft. deep, in the bottom of the main fork of Red Canyon, drains S.; asc. gradually 75 ft. to ¼ sec. cor., over broken general E. slope.
18.20	Enter a medium heavy growth of timber, bears N. and S.
39.96	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to solid rock, with a limestone, 7x4x1 ins., mkd. X, deposited at the base, and in a mound of stone, 5½ ft.

SUBDIVISION OF T. 20 S., R. 12 E.

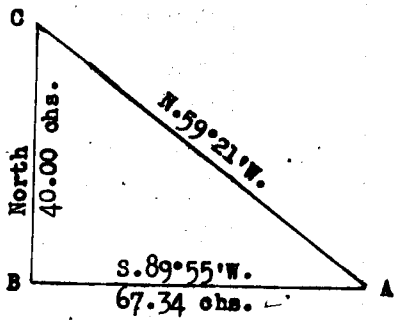
Chains	
	base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 20 / S 29 1933
	All trees within a reasonable distance are too scrubby for marking as accessories to cor.
	From this ¼ sec. cor., continue gradual ascent of 110 ft., over rough and broken general E. slope to
62.20	Leave timber, bears N. and S.; leave gradual general E. slope, bears northeasterly and southeasterly; begin precipitous ascent of 510 ft., over rugged general E. slope to
73.50	Top of nearly perpendicular red sandstone ledge or E. rim of ridge, 280 ft. high, bears N. and S.; asc. gradual E. slope 20 ft., over sandstone surface rock to
75.40	Triangulation flag A on the witness cor. of secs. 19, 20, 29, and 30, which is located on top of a sandstone ridge or ascent, bearing N. and S.; desc. steep and broken sandstone W. slope 30 ft. to
79.92	The true point for the cor. of secs. 19, 20, 29, and 30.
	Land, rolling, rough, and broken with varied colored sandstone outcroppings and large boulders, and outcroppings of red and blue shale and blue limestone on E. 62.20 chs.; large boulders, outcroppings, slide rock, rim rock, and broken and nearly perpendicular ledges of mostly red sandstone and red shale formation on W. 17.72 chs.; general drainage S. by the main fork of Red Canyon, E. 75.40 chs.; remainder of mile drains NW., thence southwesterly into the San Rafael River.
	Soil, shallow and rocky red sand, lying on bedrock or alternate layers of red sand, varied colored clays, shale, limestone, and sandstone, 3rd. and 4th. rate. Red sandy loam, several ft. deep, 1st. rate, in the bottom of the main fork of Red Canyon.
	Timber, scrubby cedar.
	Undergrowth, scattering to medium dense yellow top, shadscale, mountain rush, and service berry bushes, and scattering to fair growth of bunch and gramma grass on E. 62.20 chs.; very little undergrowth or grass on W. 17.72 chs.
	Fair grazing land, E. 62.20 chs., poor, W. 17.72 chs.
	From the true point for the cor. of secs. 19, 20, 29, and 30,
	S.89°55'W., on a random line bet. secs. 19 and 30.
29.89	Top of high and nearly perpendicular sandstone ledge or bluff, which makes chaining impracticable.
	As there are no suitable sites for base lines for triangulation nearer than the W. bdy. of the Tp., I use the S.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains

half mile bet. secs. 19 and 24 as a base, and determine the remaining length of the line bet. secs. 19 and 30 by triangulation as follows:

Erect a flag A at the 29.89 chs. point; then set a flag B at the intersection of the random line bet. secs. 19 and 30 with the W. bdy. of the Tp. From flag A, a flag C set 7 lks. south of the $\frac{1}{4}$ sec. cor. of secs. 19 and 24, on the W. bdy. of the Tp., bears N.59°21'W. The base line from flag B to flag C has a bearing of north and a length of 40.00 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 30°44'
Angle at flag B = 89°55'
Angle at flag C. = 59°21'

Distance from the true point for the cor. of secs. 19, 20, 29, and 30 to flag A.....=29.89 chs.
Distance from flag A to flag B by triangulation.....=67.34 chs.
Length of the random line bet. secs. 19 and 30 by direct measurement and triangulation.....=97.23 chs., or at

97.23 Intersect the W. bdy. of the Tp., 7 lks. S. of the cor. of secs. 19, 24, 25, and 30, heretofore described in the official field notes of T. 20 S., R. 11 E., in this group.

Thence,

N.89°58'E., on a true line bet. secs. 19 and 30.

Asc. gradual W. slope 30 ft., over rolling, rough, and broken land, through scattering timber and undergrowth.

2.90 Spur, slopes S. about 3 chs. dist.; desc. 25 ft.

6.40 Draw, drains S.; asc. 50 ft.

9.20 Spur, slopes S. approximately 6 chs. dist.; desc. gradually 70 ft. to lot cor., over E. slope.

Difference bet. measurements of 17.23 chs., by two sets of chainmen, is 1 lk.; position of middle point

By 1st. set, 17.235 chs.
By 2nd. set, 17.225 chs.; the mean of which is

17.23 Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to bedrock, with a shale stone, 7x3x1 ins., mkd. X, deposited at the base, and in a mound of stone, 6 ft. base, $2\frac{1}{2}$ ft. high, for cor. of lots Nos. 7 and 8, sec. 19, and lots Nos. 1 and 2, sec. 30, with brass cap mkd.

S 19
7 | 8
2 | 1
S 30
1933

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	No suitable trees are available for marking as accessories to cor.
24.70	Wash, 25 lks. wide, 2 ft. deep, in the bottom of draw, 30 ft. below lot cor., drains S.; asc. gradual W. slope 70 ft.
31.60	Old wagon road, bears NW. to Castle Dale and Huntington, Utah and S.60°E. to Mexican Bend on the San Rafael River.
40.00	Slope changes from W. to SW.; begin steep ascent of 365 ft. to ¼ sec. cor., over large sandstone boulders and slide rock, and across small draws and spurs, putting S. and southwesterly.
	Difference bet. measurements of 57.23 chs., by two sets of chainmen, is 2 lks.; position of middle point
	By 1st. set, 57.22 chs. By 2nd. set, 57.24 chs.; the mean of which is
57.23	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 19 / S 30 1933
	raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor.
	No trees are available for marking as accessories to cor.
	From this ¼ sec. cor., continue precipitous ascent of 810 ft., over rugged SW. slope, across small draws and low spurs, putting to the SW.
60.00	Leave timber.
67.34	Triangulation flag A bears south 2.2 lks. dist.; top of nearly perpendicular red sandstone ledge or bluff, 220 ft. high, bears NW. and SE.; asc. more gradual SW. slope 20 ft.
68.20	Rugged sandstone spur, projects NW. approximately 25 chs. dist.; desc. 30 ft.
78.00	Head of draw, drains NW.; asc. abruptly 285 ft.
89.50	Rugged sandstone spur, projects northwesterly about 12 chs. dist.; steep descent of 210 ft.
96.70	Draw, from S., drains northwesterly; asc. W. slope 10 ft. to
97.23	The true point for the cor. of secs. 19, 20, 29, and 30.
	Land, rolling, rough, and broken with varied colored sandstone outcroppings and large boulders, and outcroppings of red and blue shale and blue limestone on W. 40.00 chs.; large boulders, outcroppings, slide rock, rim rock, and broken and nearly perpendicular ledges of mostly red sandstone and red shale formation on E. 57.23 chs.; mostly surface rock exposed on E. 30.00 chs.; general drainage SW. into the San Rafael River, thence southeasterly.
	Soil, shallow and rocky red sand, lying on bedrock or alternate layers of red sand, varied colored clays, shale,

Chains

limestone, and sandstone, 3rd. and 4th. rate.

Timber, scrubby cedar.

Undergrowth, scattering to medium dense yellow top, shadscale, mountain rush, white sagebrush, and service berry bushes, and scattering to fair growth of bunch and gramma grass on W. 40.00 chs.; very little undergrowth or grass on E. 57.23 chs.

Fair grazing land, W. ½ mile, poor, E. 57.23 chs.

From the true point for the cor. of secs. 19, 20, 29, and 30,

N.0°03'W., bet. secs. 19 and 20.

Over rugged mountainous land, through sparse undergrowth; Asc. 40 ft. along W. side of ridge, bearing N. and S., over sandstone surface rock.

7.20 Leave top of ridge, bears NW. and S.; asc. 65 ft., along general SE. slope.

20.00 Rugged spur, projects S.70°E. approximately 60 chs. dist.; desc. gradual NE. slope 30 ft. to

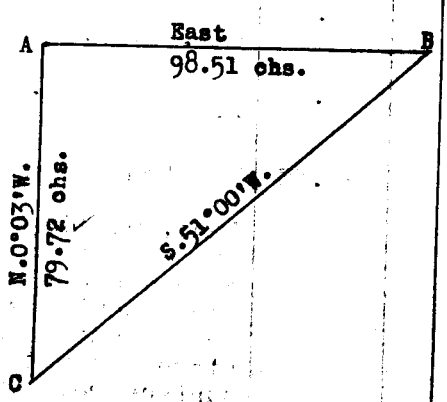
26.30 Top of nearly perpendicular red sandstone ledge or S. rim of gorge, 30 ft. high, bears NW. and SE.

36.00 Approximate distance. Bottom of the gorge, about 500 ft. deep, drains E.

The steep ledgy sides of this gorge make chaining inpracticable, and as there are no suitable sites for base lines for triangulation on the rugged tops in the vicinity of this sec. line, I determine the entire length of the line bet. secs. 19 and 20 by triangulation as follows:

Set a point at the intersection of the line bet. secs. 19 and 20 and a line projected west from the cor. of secs. 16, 17, 20, and 21. From this point, erect a flag A east 4.52 chs. dist., and set a flag B east 23.28 chs. dist. from the cor. of secs. 16, 17, 20, and 21. From flag B, a flag C 12 lks. N.0°03'W. from the witness cor. of secs. 19, 20, 29, and 30 bears S.51°00'W.

The base line from flag A to flag B has a bearing of east, and a length of 98.51 chs. A portion of this base line serves as part of the random line bet. secs. 17 and 20, the establishment of which is hereinafter described in the field notes of the line bet. secs. 17 and 20. The line connecting flags A and C is parallel to the line bet. secs. 19 and 20, and has a bearing of N.0°03'W. The bearings of the line bet. secs. 19 and 20, the base line from flag A to flag B, and the line from flag B to flag C are checked by direct reading of the solar, and the sum of the angles of the triangle is equal to 180°.



Chains	
	Angle at flag A = 89°57' Angle at flag B = 39°00' Angle at flag C = 51°03' Distance from the witness cor. of secs. 19, 20, 29, and 30 to flag C.....= 0.12 chs. Distance from flag C to flag A by triangulation.....=79.72 chs. Distance from the witness cor. of secs. 19, 20, 29, and 30 to flag A.....=79.84 chs. Therefore, the length of the line from the true point for cor. of secs. 19, 20, 29, and 30 to the point of intersection of the line bet. secs. 19 and 20 with the line projected west from the cor. of secs. 16, 17, 20, and 21, is 79.84 chs. Thence, from the point of intersection of the line bet. secs. 19 and 20 and the line projected west from the cor. of secs. 16, 17, 20, and 21, S.0°03'E., 33.54 chs. dist. or 33.70 chs. dist. from the cor. of secs. 17, 18, 19, and 20, hereinafter described and established. Difference bet. measurements of 33.54 chs., by two sets of chainmen, is 2 lks.; position of middle point By 1st. set, 33.55 chs. By 2nd. set, 33.53 chs.; the mean of which is 33.54 chs., or counting from the true point for cor. of secs. 19, 20, 29, and 30, at
46.30	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2¾ ft. high, for witness ¼ sec. cor., with brass cap mkd. ¼ S 19 | S 20 WC 1933 Thence, from this witness ¼ sec. cor., S.0°03'E., 0.70 chs. dist. to the top of a nearly perpendicular light colored sandstone ledge or N. rim of gorge, 150 ft. high, bearing NE. and SW. about 7 chs. dist., thence S. S.0°03'E., 6.30 chs. dist. from the witness ¼ sec. cor. to the true point for ¼ sec. cor., which falls on the broken and steep ledgy N. side of the gorge, making the true cor. point inaccessible, and therefore impracticable to establish a cor. monument or mark a cross (X). The true point for ¼ sec. cor. is located about 250 ft. below the witness ¼ sec. cor. and the N. rim of the gorge, and approximately 100 ft. above the bottom of gorge noted at 36.00 chs. Thence, from the witness ¼ sec. cor., giving the distances to topography, counting from the true point for cor. of secs. 19, 20, 29, and 30, N.0°03'W.
47.00	Enter scattering timber and undergrowth.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
63.00	Spur, 25 ft. above the witness ¼ sec. cor., projects E. about 50 lks. dist.; desc. N. slope 20 ft.
66.20	Draw, drains NE.; asc. abrupt and broken S. slope 170 ft.
74.20	Top of broken and nearly perpendicular light colored sandstone ledge, 60 ft. high, bears NE., and SW. approximately 8 chs. dist., thence S.
77.80	Top of ascent, bears E. and W.; desc. gradual N. slope 5 ft. to sec. cor.
79.84	Triangulation flag A bears east 4.52 chs. dist.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, 2¾ ft. high, for cor. of secs. 17, 18, 19, and 20, with brass cap mkd.

T20S R12E
S18 | S17
S19 | S20
1933

from which

A pinon pine, 8 ins. diam., bears N.20°45'E., 314 lks. dist., mkd. T 20 S R 12 E S 17 B T.

A pinon pine, 3 ins. diam., bears S.5°30'E., 54 lks. dist., mkd. B T.

A pinon pine, 10 ins. diam., bears S.56°00'W., 133 lks. dist., mkd. T 20 S R 12 E S 19 B T.

A pinon pine, 14 ins. diam., bears N.56°45'W., 187 lks. dist., mkd. T 20 S R 12 E S 18 B T.

Land, steep and rugged; outcroppings, large boulders, rim rock, and broken, sloping, and nearly perpendicular ledges of yellow, gray or light colored sandstone formation; drainage easterly into the W. fork of Red Canyon, thence S.

Soil, shallow red sand, lying on bedrock; mostly surface rock exposed on entire mile.

Timber, sparse to a medium heavy growth of cedar and pinon pine.

Undergrowth, sparse to scattering mountain rush, black brush, yellow top, and shadscale; sparse to a fair growth of bunch and gramma grass.

Poor grazing land, S. 46.30 chs., poor to fair, N. 33.70 chs.

From a point S.0°03'E. 16 lks. dist. from the cor. of secs. 17, 18, 19, and 20,

East, on a random line bet. secs. 17 and 20.

The greater portion of this random line is a part of the base line used in the triangulation of the mile bet. secs. 19 and 20, and this entire random line was run previously in connection with the survey of the line bet. secs. 19 and 20. But, I now describe this line as a portion of it was determined by triangulation.

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
25.26	Set triangulation point.
35.00	Set temp. witness ¼ sec. cor.
40.00	Set temp. ½ sec. cor.
46.40	Top of high and nearly perpendicular sandstone ledge or W. rim of shelf makes chaining impracticable.

E. from this station over the greater portion of the E. ½ mile, chaining is impracticable on account of series of high ledges and rims of shelves on the W. side of the W. fork of Red Canyon; therefore, I make the following triangulation:

As there are no suitable sites for base lines near the random line bet. secs. 17 and 20, owing to the abrupt and rugged slopes and shelves of the W. fork of Red Canyon, I use the S. 78.99 chs. of the line bet. secs. 16 and 17, as a base. A flag at the 78.99 chs. point bet. secs. 16 and 17 can not be seen from the 46.40 chs. point on random line, so I return from the latter station

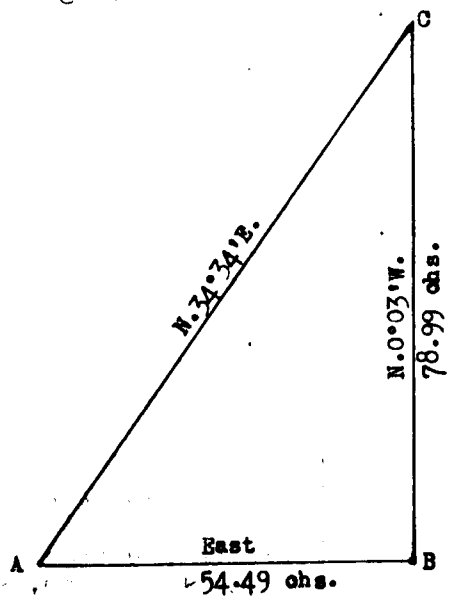
West, 21.14 chs. dist. by direct measurement, in order to verify the positions of the temp. points previously set on the random line, to a point visible from the cor. of secs. 16, 17, 20, and 21 and the N. end of the base line.

At 6.40 chs., intersect temp. ¼ sec. cor.

At 11.40 chs., intersect the temp. witness ¼ sec. cor.

At 21.14 chs., the triangulation point, where I erect a flag A.

Then, set a flag B on line on the cor. of secs. 16, 17, 20, and 21. From flag A, a flag C at the 78.99 chs. point bet. secs. 16 and 17, bears N.34°34'E. The base line from flag B to flag C has a bearing of N.0°03'W., and a length of 78.99 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 55°26'
Angle at flag B = 89°57'
Angle at flag C = 34°37'

Distance from the point S.0°03'E. 16 lks. dist. from the cor. of secs. 17, 18, 19, and 20 to flag A.....= 25.26 chs.
Distance from flag A to flag B on the cor. of secs. 16, 17, 20, and 21.....= 54.49 chs.
Distance from the point S.0°03'E. 16 lks. dist. from the cor. of secs. 17, 18, 19, and 20 to the cor. of secs. 16, 17, 20, & 21= 79.75 chs.,

or at

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
79.75	Intersect N. and S. line at the cor. of secs. 16, 17, 20, and 21.
	Thence,
	N.89°53'W., on a true line bet. secs. 17 and 20.
	Desc. gradually 15 ft., over rough and broken top of bench or shelf of almost entirely surface rock, through a sparse growth of timber and undergrowth.
10.70	W. edge of bench or shelf and top of nearly perpendicular brown sandstone ledge or E. rim of the W. fork of Red Canyon, 50 ft. high, bears N. and S.; desc. steep W. slope about 125 ft.
12.80	Approximate distance. Bottom of the W. fork of Red Canyon, drains S.; asc. abrupt E. slope about 140 ft.
14.70	Approximate distance. E. edge of bench or shelf and top of nearly perpendicular brown sandstone ledge or W. rim of the W. fork of Red Canyon, 50 ft. high, bears N. and S.; asc. gradually 25 ft., over rough and broken top of almost entirely surface rock.
19.70	Approximate distance. Leave top of bench or shelf, bears N. and S.; begin precipitous ascent of about 500 ft., over series of broken, sloping, and nearly perpendicular ledges of varied colored sandstone, bearing N. and S., on E. slope.
33.30	Top of broken and nearly perpendicular red sandstone ledge or E. rim of bench or shelf, about 250 ft. high, bears SE. approximately 5 chs. dist., thence southwesterly and NW. about 6 chs. dist., thence northeasterly; over nearly level top of surface rock to
39.87	True point for ¼ sec. cor. falls on surface rock where I chisel a cross (X). It is impracticable to establish a cor. monument over the cross (X), and in a mound of stone, as there are no rock available.
	From the true point for ¼ sec. cor., asc. gradually 25 ft., over rough top of the bench or shelf to
44.77	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock, with a sandstone, 6x4x1 ins., mkd. X, deposited at the base, and in a mound of stone, 4½ ft. base, 1½ ft. high, for witness ¼ sec. cor., with brass cap mkd.
	$\frac{1}{4}\ \frac{S\ 17}{S\ 20}\ \frac{W}{C}$ 1933
	No trees are available for marking to witness cor.
	From this witness ¼ sec. cor., asc. abruptly 320 ft., over series of broken, sloping, and nearly perpendicular ledges of varied colored sandstone, bearing S. about 5 chs. dist., thence southeasterly and N. approximately 6 chs. dist., thence southwesterly.
54.49	Triangulation flag A bears south 11.2 lks. dist.; top of the series of ledges or E. rim of bench, bears N. and S.; asc. gradual SE. slope 10 ft.
56.60	Top of ascent, bears NE. and SW.; desc. gradual NW. slope 15 ft. to

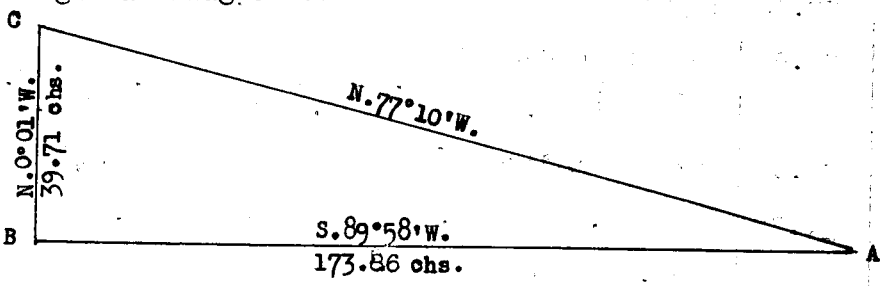
SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
61.80	Top of broken and nearly perpendicular light colored sandstone ledge or W. rim of bench, 35 ft. high, bears NE. and SW.; steep descent of 120 ft.
65.80	Gorge, heads SW. about 5 chs. dist., drains NE.; asc. gradually 135 ft., over SE. slope.
72.40	Begin abrupt ascent of 210 ft. to
75.60	Top of broken and nearly perpendicular light colored sandstone ledge, 185 ft. high, bears NE. and SW.; asc. gradually 45 ft. to sec. cor., over general N. slope.
76.00	Enter a medium heavy growth of timber, bears NE. and SW.
79.75	The cor. of secs. 17, 18, 19, and 20.
	Land, rugged and nearly barren sides of the W. fork of Red Canyon; outcroppings, large boulders, rim rock, slide rock, and series of broken, sloping, and nearly perpendicular ledges of red, brown, yellow, gray, and light colored sandstone formation; general drainage S. by the W. fork of Red Canyon.
	Soil, shallow red sand, lying on bedrock, 4th. rate on greater portion of mile; red sand, several ft. deep, on some of the shelves, but mostly surface rock exposed on entire mile.
	Timber, varies from a sparse to a heavy growth of cedar and pinon pine.
	Undergrowth, sparse to scattering black brush, mountain rush, yellow top, and shadscale; red top, bunch, and sand grass; good growth on some of the shelves, but sparse on greater portion of mile.
	Poor grazing land.
	S.89°58'W., on a random line bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. lot cor.
87.10	Top of high and nearly perpendicular ledge or bluff, forming the W. rim of mountain or the E. breaks of the San Rafael River, makes chaining impracticable on remainder of line.
	On account of the broken and rugged country, it is almost impossible to offset, and there are no suitable places for base lines for triangulation, and no flags on the W. bdy. of the Tp. or on the first meridional section line in T. 20 S., R. 11 E. can be seen from any stations on this random line. So, I find that the best and most convenient way to determine the remaining distance bet. secs. 18 and 19, is by triangulating as follows:
	Erect a flag A at the 83.18 chs. point; then set a flag B, N.0°01'W. 4 lks. dist. from the true point for the cor. of secs. 14, 15, 22, and 23, in T. 20 S., R. 11 E., at the intersection of this random line extended S.89°58'W. on a parallel of latitude with the line bet. secs. 14 and 15. From flag A, a flag C set S.0°01'E. 25 lks. dist. from the ¼ sec. cor. bet. secs. 14 and 15, T. 20 S., R. 11 E.,

Chains

bears N.77°10'W. The base line from flag B to flag C has a bearing of N.0°01'W., and a length of 39.71 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.

Angle at flag A =12°52'
Angle at flag B =89°59'
Angle at flag C =77°09'



Distance from flag A to flag B.....= 173.86 chs.
Length of each of the sec. lines bet. secs. 13 and 24 and 14 and 23 is 79.96 chs. or the distance from flag B to the true point for cor. of secs. 13, 18, 19, and 24, on W. bdy. of T. 20 S., R. 12 E.....= 159.92 chs.
Distance from the true point for cor. of secs. 13, 18, 19, and 24, on W. bdy. of T. 20 S., R. 12 E. to flag A.....= 13.94 chs.
Length of random line from cor. of secs. 17, 18, 19, and 20 to flag A.....= 83.18 chs.
Length of random line bet. secs. 18 and 19.= 97.12 chs., or at

97.12 Intersect the W. bdy. of the Tp., 5½ lks. S. of the true point for cor. of secs. 13, 18, 19, and 24, heretofore described in the official field notes of T. 20 S., R. 11 E., in this group.

Thence,

East, on a true line bet. secs. 18 and 19.

Asc. abruptly 650 ft., along rugged general N. slope of barren red sandstone spur, projecting almost W.

10.00 Top of nearly perpendicular red sandstone ledge or bluff, forming the W. rim of mountain or E. breaks of the San Rafael River, about 300 ft. high, bears N. approximately 1.50 chs. dist., thence northeasterly, and SE.; asc. more gradually 65 ft., over narrow shelves, across top of mountain, through scattering undergrowth.

13.94 Triangulation flag A bears south .8 lk. dist.

14.30 Ridge, bears N. about 1.50 chs. dist., thence northeasterly, and SE.; enter scattering timber; desc. gradual E. slope 5 ft. to

17.12 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for cor. of lots Nos. 7 and 8, sec. 18, and lots Nos. 1 and 2, sec. 19, with brass cap mkd.

S 18
7 | 8
2 | 1
S 19
1933

from which

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	A pinon pine limb, 7 ins. diam., bears N.34°30'E., 196 lks. dist., mkd. Lot 8 S 18 B T.
	A pinon pine limb, 6 ins. diam., bears S.13°00'E., 238 lks. dist., mkd. Lot 1 S 19 B T.
	A pinon pine limb, 6 ins. diam., bears S.16°00'W., 136 lks. dist., mkd. Lot 2 S 19 B T.
	A pinon pine, 12 ins. diam., bears N.73°00'W., 71 lks. dist., mkd. Lot 7 S 18 B T.
19.20	Enter a medium to heavy growth of timber, bears N. and S.
33.40	Draw, heads S. about 5 chs. dist., 70 ft. below lot cor., drains NE.; asc. gradual W. slope 45 ft.
43.50	Top of ascent, bears N. and S.; desc. gradual E. slope 60 ft. to
57.12	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 5½ ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 18 / S 19 1933
	from which
	A pinon pine, 14 ins. diam., bears N.42°45'E., 217 lks. dist., mkd. ¼ S 18 B T.
	A pinon pine, 12 ins. diam., bears S.43°15'W., 172 lks. dist., mkd. ¼ S 19 B T.
64.00	Draw, heads SW. about 3 chs. dist., 25 ft. below ¼ sec. cor., drains NE.; asc. gradual W. slope 5 ft.
70.50	Top of ascent, bears N. and S.; gradual descent of 45 ft.
83.00	Draw, drains NE.; gradual ascent of 15 ft.
90.50	Top of ascent, bears NE. and SW.; desc. gradually 15 ft. to sec. cor., over SE. slope.
93.00	Slope changes from SE. to N.
97.12	The cor. of secs. 17, 18, 19, and 20.
	Land, abrupt E. breaks of San Rafael River with outcroppings, large boulders, and sloping and nearly perpendicular ledges, rim rock, or bluffs of red sandstone formation, on W. 10.00 chs.; rolling mountain top with outcroppings of mostly blue limestone, and some yellow and gray sandstone, on E. 87.12 chs.; drainage westerly and southwesterly into the San Rafael River, W. 14.30 chs.; remainder of line drains northeasterly.
	Soil, shallow red sand, lying on bedrock, 4th. rate. Surface rock exposed on entire W. 10.00 chs.;
	Timber, cedar and pinon pine.
	Undergrowth, black brush, mountain rush, yellow top, and shadscale; fair to good growth of bunch grass on E. 87.12 chs.
	Fair to good grazing land on mountain top.

24 JOK A 514

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	N.0°03'W., bet. secs. 17 and 18.
	Over rough and broken land, through scattering timber and undergrowth; desc. gradual N. slope 65 ft.
18.60	Top of nearly perpendicular light colored sandstone ledge or S. rim of box canyon, 200 ft. high, bears N.60°E. and S.60°W.; desc. precipitous NW. slope 285 ft.
25.80	Bottom of the box canyon, drains N.60°E.; asc. abrupt SE. slope 305 ft.
33.00	Top of nearly perpendicular light colored sandstone ledge or N. rim of box canyon, 200 ft. high, bears N.60°E. and S.60°W.; asc. gradual SE. slope 15 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, 2¾ ft. high, for ¼ sec. cor., with brass cap mkd.

¼

S 18 | S 17

1933

from which

A pinon pine, 8 ins. diam., bears S.84°15'E., 147 lks. dist., mkd. ¼ S 17 B T.

A pinon pine limb, 8 ins. diam., bears N.34°00'W., 30 lks. dist., mkd. ¼ S 18 B T.

46.60	S. edge of bench, 55 ft. above ¼ sec. cor., bears NE. and SW.; enter a heavy growth of timber, bears NE. and SW.; desc. gradually 20 ft., over nearly level top.
55.40	N. edge of bench, bears NE. and S.10°W.; steep descent of 115 ft., over NW. slope.
58.10	Top of nearly perpendicular light colored sandstone ledge, 35 ft. high, bears N.80°E. and S.80°W.
63.70	Base of abrupt descent, bears NE. and SW.; desc. gradual NW. slope 20 ft., over gently rolling bottom of hollow.
64.00	Leave timber, bears NW. and SE.
73.30	Wash, 50 lks. wide, 8 ft. deep, from SW., drains SE. about 60 lks. dist., thence northeasterly, in the bottom of the hollow; asc. gentle SE. slope 5 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 7, 8, 17, and 18, with brass cap mkd.

T20S R12E

S7 | S8

S18 | S17

1933

from which

A cedar, 6 ins. diam., bears N.12°45'E., 231 lks. dist., mkd. T 20 S R 12 E S 8 B T.

A pinon pine, 15 ins. diam., bears S.60°45'E., 816 lks. dist., mkd. T 20 S R 12 E S 17 B T.

A cedar, 6 ins. diam., bears S.42°15'W., 137

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	lks. dist., mkd. T 20 S R 12 E S 18 B T.
	A pinon pine, 10 ins. diam., bears N.81°45'W., 140 lks. dist., mkd. T 20 S R 12 E S 7 B T.
	Land, mountainous and rough with outcroppings, surface rock, and nearly perpendicular ledges and rim rock of white or light colored sandstone formation; sandstone exposed on greater portion of S. ½ mile; drainage NE., thence S., S. 46.60 chs.; N.36.40 chs. drain NE.
	Soil, shallow red sand, lying on bedrock, 4th. rate, on greater portion of mile; red sand and sandy loam, several ft. deep, in the bottom of hollow on N. half mile, 1st. rate.
	Timber, cedar and pinon pine.
	Undergrowth, shadscale, mountain rush, and black brush; sparse bunch grass on rough portions of mile; good growth of gramma grass in bottoms of hollows.
	Poor to fair grazing land.
	S.89°53'E., on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.88	Intersect N. and S. line, 21 lks. S. of the cor. of secs. 8, 9, 16, and 17.
	Thence,
	S.89°58'W., on a true line bet. secs. 8 and 17.
	Over nearly level and gently rolling general N. slope, through heavy timber and scattering undergrowth; asc. gradually 20 ft.
6.80	Slope changes from N. to SE.
17.70	Low ridge, bears NE. and SW.; desc. 60 ft.
23.20	Old wagon road, bears N.10°E. and S.10°W., in the bottom of swale, draining NE.; leave timber; bears N. and S.; asc. gradual E. slope 60 ft. to ¼ sec. cor.
34.00	Enter a medium to heavy growth of timber, bears N. and S.
39.94	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd. ¼ S 8 / S 17 1933 from which
	A pinon pine limb, 5 ins. diam., bears N.35°45'E., 21 lks. dist., mkd. ¼ S 8 B T.
	A cedar, 8 ins. diam., bears S.22°45'W., 91 lks. dist., mkd. ¼ S 17 B T.
48.80	Ridge, 55 ft. above ¼ sec. cor., bears N. and S.; desc. gentle W. slope 5 ft. to

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
51.70	Begin abrupt descent of 100 ft., over W. slope.
55.50	Bottom of steep descent, bears N. and S.; leave timber, bears N. and S.; gradual descent of 10 ft.
62.50	Wash, 50 lks. wide, 8 ft. deep, in the bottom of hollow, drains northeasterly; asc. gentle SE. slope 35 ft. to
79.88	The cor. of secs. 7, 8, 17, and 18.
	Land, rolling and gently rolling tops, and hollows and swales, draining northeasterly; outcroppings of blue limestone formation.
	Soil, red sand and sandy loam, rocky in places, varying in depth from a few ins. to about 3 ft., lying on a brown or white chalky clay subsoil or on limestone bedrock, 2nd. to 4th. rate, on tops and slopes; red sand and sandy loam, several ft. deep, lying on bedrock, 1st. rate, in the bottoms of hollows and swales.
	Timber, cedar and pinon pine.
	Undergrowth, scattering mountain rush and yellow top on tops; scattering shadscale, black sagebrush, and white sagebrush in hollows and swales; gramma and bunch grass, fair to good growth in hollows and swales, sparse on tops.
	Fair grazing land.
	West, on a random line bet. secs. 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Set temp. lot cor.
97.02	Intersect the W. bdy. of the Tp., 23 lks. N. of the cor. of secs. 7, 12, 13, and 18, heretofore described in the official field notes of T. 20 S., R. 11 E., in this group.
	Thence,
	N.89°52'E., on a true line bet. secs. 7 and 18.
	Over rough and broken land, through scattering timber and undergrowth; desc. abruptly 125 ft., over general NE. slope, from the top of shelf on sloping light colored sandstone ledge, 55 ft. high, bearing NW. and SE.
4.20	Wash, 20 lks. wide, 4 ft. deep, in the head of draw, drains NE.; steep ascent of 55 ft., over W. slope.
6.00	Rough spur, projects N. about 2.50 chs. dist.; desc. E. slope 130 ft. to
17.02	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 5 ft. base, $2\frac{3}{4}$ ft. high, for cor. of lots Nos. 7 and 8, sec. 7, and lots Nos. 1 and 2, sec. 18, with brass cap mkd.

S 7
7 | 8
2 | 1
S 18
1933

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	from which
	A pinon pine, 10 ins. diam., bears N.36°15'E., 44 lks. dist., mkd. Lot 8 S 7 B T.
	A pinon pine, 10 ins. diam., bears S.55°45'E., 161 lks. dist., mkd. Lot 1 S 18 B T.
	A pinon pine, 12 ins. diam., bears S.78°15'W., 42 lks. dist., mkd. Lot 2 S 18 B T.
	A pinon pine, 9 ins. diam., bears N.63°45'W., 97 lks. dist., mkd. Lot 7 S 7 B T.
17.60	Wash, 20 lks. wide, 5 ft. deep, in the bottom of Pine Canyon, 5 ft. below lot cor., drains northwesterly approximately 15 chs. dist., thence northeasterly; asc. gradual SW. slope 20 ft. to
21.90	Begin precipitous ascent of 245 ft., over a series of broken and sloping light colored sandstone ledges, bearing NW. about 15 chs. dist., thence northeasterly, and SE. approximately 20 chs. dist., thence southwesterly about 25 chs. dist., on SW. slope.
25.40	Top of the series of ledges, bears same as base; asc. more gradual W. slope 15 ft.
31.70	Ridge, bears N. and S.; desc. 15 ft.
34.00	Head of draw, drains NE.; asc. 35 ft.
36.20	Spur, projects N.15°E. approximately 15 chs. dist.; gradual descent of 5 ft. to
37.40	Begin steep descent of 150 ft., over a series of sloping light colored sandstone ledges, bearing northeasterly and southwesterly, on SE. slope.
42.00	Base of the series of ledges, bears same as top.
42.30	Wash, 25 lks. wide, 5 ft. deep, in the bottom of draw, drains NE.; asc. gradual NW. slope 10 ft.
42.40	Leave scattering timber.
46.80	Begin abrupt ascent of 130 ft., over a series of small perpendicular light colored sandstone ledges, bearing S. and northeasterly, on NW. slope.
47.00	Enter a medium heavy growth of timber, bears NE. and SW.
52.20	Top of the series of ledges, bears same as base; asc. gradual NW. slope 5 ft. to
57.02	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 7 / S 18 1933
	from which
	A cedar, 8 ins. diam., bears N.34°15'E., 56 lks. dist., mkd. ¼ S 7 B T.
	A pinon pine, 5 ins. diam., bears S.55°45'E., 111 lks. dist., mkd. ¼ S 18 B T.

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	This ¼ sec. cor. stands on top of spur, projecting NE. approximately 15 chs. dist.
62.40	Draw, 45 ft. below ¼ sec. cor., heads S. about 7 chs. dist., drains NE. approximately 12 chs. dist., thence northwesterly; asc. 40 ft.
66.10	Spur, projects NE. about 15 chs. dist.; desc. 65 ft.
70.00	A draw, which heads N. about 2 chs. dist., drains N.
79.70	Wash, 15 lks. wide, 3 ft. deep, in the bottom of swale, heads SW. approximately 30 chs. dist., drains NE.; asc. gradual W. slope 40 ft.
84.50	Top of ascent on N. slope which projects N. about 1.50 chs. dist.; top of knoll bears S. approximately 2.50 chs. dist.; desc. 40 ft.
88.80	Swale, drains NE.; gradual ascent of 40 ft.
92.90	Spur, projects NE.; desc. SE. slope 110 ft. to sec. cor.
94.20	Top of broken light colored sandstone ledge, 25 ft. high, bears N.10°E. and S.
97.02	The cor. of secs. 7, 8, 17, and 18.
	Land, rolling, rough, and broken; outcroppings of blue shale and blue limestone and yellow, gray or light colored sandstone; series of broken, sloping, and nearly perpendicular ledges of yellow, gray or light colored sandstone; W. 66.10 chs. drain N. into Cow Canyon; E. 30.92 chs. drain NE.
	Soil, red sand and sandy loam, rocky in places, varying in depth from a few ins. to about 1½ ft., lying on a brown or white chalky clay subsoil or on bedrock, 2nd. to 4th. rate, on tops and slopes; red sand and sandy loam, several ft. deep, lying on bedrock, 1st. rate, in the bottoms of draws, swales, and hollows.
	Timber, scattering to a heavy growth of cedar and pinon pine.
	Undergrowth, black brush, mountain rush, shadscale, and yellow top; scattering to a fair growth of bunch grass on tops and slopes; good growth of gramma grass in bottoms.
	Poor to fair grazing land.
	N.0°03'W., bet. secs. 7 and 8.
	Asc. gentle SE. slope 10 ft., over bottom of hollow, through scattering undergrowth.
2.10	Enter scattering timber.
2.70	Leave bottom of hollow, bears NE. and SW.; begin abrupt ascent of 85 ft., over SE. slope.
11.20	Enter a heavy growth of timber, bears NE. and SW.
11.30	S. edge of bench, bears NE. and SW.; desc. gradually 25 ft., over nearly level top to

SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
27.60	N. edge of bench, bears NE. and S.10°W.; leave heavy growth of timber, bears NE. and S.10°W., and enter scattering; desc. NW. slope 80 ft.
35.50	Wash, 30 lks. wide, 1 ft. deep, in the bottom of hollow, drains NE.; asc. gradual SE. slope 5 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, and in a mound of stone, 4½ ft. base, 2¼ ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 7 | S 8 1933 from which A pinon pine, 5 ins. diam., bears S.47°30'E., 371 lks. dist., mkd. ¼ S 8 B T. A cedar limb, 7 ins. diam., bears N.46°00'W., 113 lks. dist., mkd. ¼ S 7 B T.
45.60	Enter a heavy growth of timber, bears NE. and SW.
47.30	Spur, 35 ft. above ¼ sec. cor., projects NE. about 6 chs. dist. to a saddle, then forms a narrow bench, extending approximately N.15°W.; desc. NW. slope 85 ft.
58.10	Wash, 30 lks. wide, 4 ft. deep, in the bottom of draw, heads SE. about 10 chs. dist., drains NW.; asc. SW. slope 40 ft.
65.30	Top of ascent, bears NE. and SE.; desc. NW. slope 35 ft.
68.10	Draw, heads SE. about 2 chs. dist., drains N.60°W. approximately 6 chs. dist. into hollow or gulch, thence northeasterly; asc. gradual SW. slope 10 ft.
75.50	Top of ascent, bears N.10°E. and S.10°E.; desc. NW. slope 25 ft. to
80.00	At the base of descent, bearing NW. and SW., set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, with brass cap mkd. T20S | R12E S6 | S5 S7 | S8 1933 from which A pinon pine, 12 ins. diam., bears N.18°00'E., 57 lks. dist., mkd. T 20 S R 12 E S 5 B T. A pinon pine, 6 ins. diam., bears S.22°45'E., 121 lks. dist., mkd. T 20 S R 12 E S 8 B T. A pinon pine, 10 ins. diam., bears S.12°15'W., 18 lks. dist., mkd. T 20 S R 12 E S 7 B T. A pinon pine, 12 ins. diam., bears N.28°45'W., 109 lks. dist., mkd. T 20 S R 12 E S 6 B T.
	Land, rolling, rough, and broken with draws, hollows, and gulches, draining generally to the NE.; outcroppings and

Chains

broken, sloping, and nearly perpendicular ledges of yello and gray or light colored sandstone and blue limestone formation.

Soil, red sand and sandy loam, rocky in places, varying in depth from a few ins. to about 3 ft., lying on a brown or white chalky clay subsoil or on bedrock, 2nd. to 4th. rate, on tops and slopes; red sand and sandy loam, several ft. deep, lying on bedrock, 1st. rate, in the bottoms of draws, swales, and hollows.

Timber, scattering to a heavy growth of cedar and pinon pine.

Undergrowth, shadscale and mountain rush; good growth of gramma grass in bottoms of draws. swales, and hollows, and sparse bunch grass on other portions of mile.

Fair grazing land,

N.89°58'E., on a random line bet. secs. 5 and 8.

40.00 Set temp. ¼ sec. cor.

79.79 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 4, 5, 8, and 9.

Thence,

West, on a true line bet. secs. 5 and 8.

Over nearly level and gently rolling land, through a dense growth of yellow top; asc. gradual SE. slope 15 ft.

7.90 Leave dense yellow top, bears NE. and SW., and enter a scattering growth of mountain rush, black brush, shadscale, yellow top, and white sagebrush.

8.10 Top of ascent, bears NE. and SW.; enter a heavy growth of timber, bears NE. and SW.; gradual descent of 5 ft.

13.40 Draw, drains NE.; asc. gradually 25 ft., over E. slope.

24.10 Top of ascent, bears N. and S.; desc. gradually 35 ft.

28.90 Leave timber, bears N. and S.

31.10 Draw, drains NE.; gradual ascent of 55 ft.

34.60 Enter a heavy growth of timber, bears NE. and S.

38.80 Spur, projects NE.; desc. gradual NW. slope 10 ft. to

39.80 Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.

$$\frac{\text{S 5}}{\text{S 8}}$$
1933

from which

A pinon pine, 10 ins. diam., bears S.83°30'W., 62 lks. dist., mkd. ¼ S 8 B T.

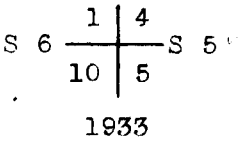
SUBDIVISION OF T. 20 S., R. 12 E.

Chains	
	A pinon pine, 9 ins. diam., bears N.15°00'W., 44 lks. dist., mkd. ¼ S 5 B T.
42.70	A stock trail, bears NE. and SW.
46.80	Wash, 40 lks. wide, 3 ft. deep, in the bottom of hollow, 70 ft. below ¼ sec. cor., drains NE.; asc. E. slope 105 ft.
53.00	Top of ascent, bears N. and S.; desc. 40 ft.
60.00	Draw, heads S. about 8 chs. dist., drains N. approximately 12 chs. dist., thence northeasterly; asc. E. slope 75 ft.
75.70	Top of broad spur, projects N.; gradual descent of 5 ft.
78.30	Begin abrupt descent of 30 ft., over W. slope to
79.79	The cor. of secs. 5, 6, 7, and 8.
	Land, nearly level, gently rolling, rolling, and broken; blue limestone and gray or light colored sandstone outcroppings; general drainage N.
	Soil, red sand and sandy loam, varying in depth from a few ins. to about 1½ ft., lying on a brown or white chalky clay subsoil or on bedrock, 2nd. to 4th. rate, on tops and slopes; red sand and sandy loam, several ft. deep, lying on bedrock, 1st. rate, in the bottoms of draws, swales, and hollows.
	Timber, medium to heavy growth of cedar and pinon pine.
	Undergrowth, mountain rush, black brush, yellow top, shadscale, and white sagebrush; scattering bunch grass on tops and slopes; good growth of gramma grass, weeds, and bunch grass in bottoms of draws, swales, and hollows.
	Fair grazing land.
	S.89°52'W., on a random line bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. lot cor.
96.98	Intersect the W. bdy. of the Tp., 5½ lks. S. of the cor. of secs. 1, 6, 7, and 12, heretofore described in the official field notes of T. 20 S., R. 11 E., in this group.
	Thence,
	N.89°54'E., on a true line bet. secs. 6 and 7.
	Over nearly level and gently rolling bottom of swale or basin, through grassy opening; asc. gradual W. slope 15 ft.
4.40	A stock trail, bears NE. and SW.
7.70	Top of ascent, bears N. and S.; gradual descent of 5 ft. to
16.98	In the bottom of depression, which heads S. about 5 chs. dist. and drains N., set an iron post, 3 ft. long, 1 in.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

Chains	
	diam., 27 ins. in the ground, for cor. of lots Nos. 15 and 16, sec. 6, and lots Nos. 1 and 2, sec. 7, with brass cap mkd.
	S 6 16 | 15 2 | 1 S 7 1933
	from which
	A pinon pine, 10 ins. diam., bears N.49°30'E., 545 lks. dist., mkd. Lot 15 S 6 B T.
	A pinon pine, 8 ins. diam., bears S.9°00'E., 689 lks. dist., mkd. Lot 1 S 7 B T.
	A pinon pine, 12 ins. diam., bears S.44°00'W., 993 lks. dist., mkd. Lot 2 S 7 B T.
	A pinon pine, 10 ins. diam., bears N.21°00'W., 718 lks. dist., mkd. Lot 16 S 6 B T.
20.20	Leave bottom of swale or basin, 10 ft. above lot cor., bears N. and SW.; enter a medium heavy growth of timber, bears N. and SW.; asc. abrupt general W. slope 45 ft., through scattering undergrowth.
21.70	Rocky spur, projects N. about 2 chs. dist.; gradual descent of 35 ft.
27.80	Wash, 15 lks. wide, 6 ft. deep, in the bottom of draw, heads S. about 3 chs. dist., drains NW. approximately 10 chs. dist., thence northerly; asc. gradual W. slope 50 ft.
45.30	Ridge, bears N. and S.; desc. E. slope 80 ft. to
53.48	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, 2¾ ft. high, for witness ¼ sec. cor., with brass cap mkd.
	S 6 ¼ —— W S 7 C 1933
	from which
	A pinon pine, 12 ins. diam., bears S.50°45'W., 34 lks. dist., mkd. W C ¼ S 7 B T.
	A pinon pine, 14 ins. diam., bears N.40°00'W., 70 lks. dist., mkd. W C ¼ S 6 B T.
56.98	True point for ¼ sec. cor. falls in wash, 30 lks. wide, 10 ft. deep, in the bottom of draw, draining NE. about 1 ch. dist., thence N., 15 ft. below the witness ¼ sec. cor.; asc. abrupt W. slope 110 ft.
70.70	Spur, projects N.; desc. 85 ft.
86.00	Draw, drains NE.; asc. gradual W. slope 15 ft.
89.40	Spur, projects N. approximately 8 chs. dist.; desc. 15 ft.
91.20	Wash, 30 lks. wide, 3 ft. deep, in the bottom of draw, drains N.; asc. general W. slope 45 ft. to
96.98	The cor. of secs. 5, 6, 7, and 8.

Chains	
	Land, nearly level, gently rolling, rough, and broken, draining N. and NW.; outcroppings and broken ledges of blue limestone, and gray or light colored sandstone formation.
	Soil, red sand and sandy loam, varying in depth from a few ins. to about 1½ ft., lying on a brown or white chalky clay subsoil or on bedrock, 2nd. to 4th. rate, on tops and slopes; red sand and sandy loam, several ft. deep, lying on bedrock, 1st. rate, in the bottoms of draws, swales or basins, and in openings or parks.
	Timber, medium to a heavy growth of cedar and pinon pine.
	Undergrowth, mountain rush, black brush, yellow top, shadscale, and white sagebrush; gramma and bunch grass, excellent growth in openings or parks and in swales or basins, and poor to fair on other portions of line.
	Poor to good grazing land.
	N.0°05'E., on a random line bet. secs. 5 and 6.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. lot cor.
86.93	Intersect the N. bdy. of the Tp., 20 lks. E. of the cor. of secs. 5, 6, 31, and 32, heretofore described in the official field notes of T. 19 S., R. 12 E., in this group.
	Thence,
	S.0°03'E., on a true line bet. secs. 5 and 6.
	Asc. gradually 45 ft. over bottom of hollow, through scattering undergrowth.
3.00	Leave bottom of hollow at the base of broken and sloping light colored sandstone ledge, 50 ft. high, bearing NE. and SW.; enter a medium heavy growth of timber, bears NE. and SW.; asc. abrupt NW. face of the ledge 25 ft. to
6.93	Set an iron post, 3 ft. long, 1 in. diam., over a X chiseled into surface rock, and in a mound of stone, 6 ft. base, 2¾ ft. high, for cor. of lots Nos. 4 and 5, sec. 5, and lots Nos. 1 and 10, sec. 6, with brass cap mkd.



from which

A pinon pine, 7 ins. diam., bears N.33°30'E., 108 lks. dist., mkd. Lot 4 S 5 B T.

A pinon pine, 9 ins. diam., bears S.79°45'E., 35 lks. dist., mkd. Lot 5 S 5 B T.

A pinon pine, 12 ins. diam., bears S.28°00'W., 105 lks. dist., mkd. Lot 10 S 6 B T.

A pinon pine, 7 ins. diam., bears N.69°15'W., 102 lks. dist., mkd. Lot 1 S 6 B T.

Chains	
9.50	Top of the ledge, 20 ft. above lot cor., bears NE. and SW. and forms the S. rim of the hollow; enter a heavy growth of timber, bears NE. and SW.; asc. NW. slope 50 ft.
22.50	Spur, projects NE. approximately 20 chs. dist.; abrupt descent of 35 ft. to bottom of gulch.
25.00	Top of nearly perpendicular light colored sandstone ledge or N. rim of gulch, 25 ft. high, bears NE. and SW.
27.90	Bottom of gulch, drains NE.; steep ascent of 35 ft. to
30.40	Top of sloping light colored sandstone ledge or S. rim of the gulch, 25 ft. high, bears NE. and SW.; asc. more gradual NW. slope 75 ft. to
46.93	On top of spur, projecting NE. about 15 chs. dist., set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, and in a mound of stone, 4½ ft. base, 1 ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 6 | S 5 1933 from which A pinon pine, 8 ins. diam., bears N.81°15'E., 45 lks. dist., mkd. ¼ S 5 B T. A pinon pine, 9 ins. diam., bears N.35°45'W., 143 lks. dist., mkd. ¼ S 6 B T.
52.70	N. edge or brink of gulch, 5 ft. below ¼ sec. cor., bears NE. and SW.; desc. abrupt SE. slope 70 ft.
60.90	Wash, 70 lks. wide, 4 ft. deep, in the bottom of gulch, drains NE.; asc. 120 ft., along NW. slope.
77.20	S. edge or brink of gulch, bears NE. and SW.; asc. more gradual NW. slope 10 ft.
80.00	Spur, slopes W. about 5 chs. dist.; desc. SW. slope 20 ft. to
86.93	The cor. of secs. 5, 6, 7, and 8.

Land, rough and broken with draws, hollows, and gulches, draining to the N. and NE.; outcroppings, rim rock, and broken, sloping, and nearly perpendicular ledges of blue limestone and gray or light colored sandstone formation.

Soil, red sand and sandy loam, varying in depth from a few ins. to about 1½ ft., lying on a brown or white chalky clay subsoil or on bedrock, 2nd. to 4th. rate, on tops and slopes and in the bottoms of gulches; red sand and sandy loam, several ft. deep, lying on bedrock, 1st. rate, in the bottoms of draws and hollows.

Timber, varies from a medium to a heavy growth of cedar and pinon pine.

Undergrowth, shadscale and mountain rush; scattering to a fair growth of bunch and gramma grass.

Poor to fair grazing land.

GENERAL DESCRIPTION

This township lies in a rough area of Emery County, Utah. A nearly perpendicular ledge, rim or border of mountain or plateau, varying in height from about fifty to several hundred feet, crosses the west boundary of the township, near the true point for the quarter section corner of sections 13 and 18, and winds in an easterly and southeasterly direction to the true point for corner of sections 25, 30, 31, and 36, on the east boundary of the township. On the plateau and north from this rim, the land is nearly level, rolling and gently rolling, and broken by washes, draws, hollows, swales, gulches, and box canyons, which drain north, northeast, northwest, and easterly into the adjoining townships, thence southerly into the San Rafael River. To the south of the rim of the plateau, the land is rough and rugged, the surface being cut by large washes, draws, hollows, deep canyons, gorges, box canyons, and chasms, draining southerly and northeasterly into the San Rafael River, thence southeasterly. Nearly level, rolling, and gently rolling land is also found in the extreme south and southwest parts of the township, and there are tracts of almost level bottom land in many places along the San Rafael River. All the canyons, gorges, gulches, and chasms are bordered or rimmed by nearly perpendicular ledges or walls, varying in height from about twenty to several hundred feet; and a great many of the larger canyons and gorges range from about ten hundred to fifteen hundred feet deep. The principal canyons are Red, Walker, Nates, and Pine Canyons. Red Canyon drains the central and southwest parts of the township, Walker Canyon drains parts of sections 23, 24, 25, and 26, Nates Canyon drains a portion of section 24, and Pine Canyon lies in the extreme western parts of sections 7 and 18. On the greater portions of the rugged sections, the land between the canyons, gulches, and gorges consists of nearly level, rolling and gently rolling, rough, and broken tops of shelves and benches. The area of shelves and benches which comprises the greater parts of sections 15 and 16, and the portions of sections 21 and 22 lying north of the East Fork of Red Canyon, is known as The Devils Hole. Many conspicuous high sandstone peaks, buttes, domes, knolls, and knobs can be seen all over the township; but they are mostly located to the south and to the northeast of the rim of the plateau. The San Rafael River, which is a stream of clear alkali water, varying in width from about one to three chains and in depth from two to five feet, crosses the west boundary of the township north approximately fifteen chains distant from the quarter section corner of sections 25 and 30, flows southeasterly, and leaves the south boundary of section 33, east about thirteen chains distant from the true point for the standard corner of sections 32 and 33. All the land to the south of the San Rafael River lies in a section of country called Sinbad, and the elevation above sea level varies from approximately four thousand feet on the river to about sixty-five hundred feet on the higher tops of the plateau. From the south edge or rim of the plateau, the land has a general north and northeast slope of about five hundred feet to the north boundary of the township.

Varied colored sandstone, conglomerate of sandstone and volcanic rock, red and blue shale, and blue limestone are the principal formations, being exposed or shown on the greater portion of the township as surface rock, large boulders, slide rock, rim rock, outcroppings, and series of broken, sloping, and nearly perpendicular ledges and walls. Blue shale and blue limestone are the main formations on portions of the sections in the extreme south and southwest parts of the township, and on some of the sections on top of the plateau.

U. S. GOVERNMENT PRINTING OFFICE: 1931 G—8155

GENERAL DESCRIPTION

The soil is a shallow red sand or alternate layers of red sand, varied colored clays, shale, limestone, or sandstone, lying on bedrock, 3rd. and 4th. rate, on tops, slopes, and sides of canyons, gorges, and gulches. Red sand and sandy loam, about one to three feet deep, lying on bedrock, 1st. and 2nd. rate, in the bottoms and on the sides of some of the canyons, gulches, swales, draws, and hollows. Red sand and sandy loam, about one to several feet deep, lying on bedrock, 1st. rate, is found on the greater portion of the bottom land of the San Rafael River and along the bottom of the Main Fork of Red Canyon.

The principal timber is cedar and pinon pine, varying from a scattering to a heavy growth or in patches on top of the plateau and on the tops of ridges, spurs, and benches or shelves. On the sides or slopes and bottoms of canyons, gorges, gulches, swales, draws, and hollows, the timber is generally sparse to scattering. No timber is found in the extreme south and southwest part of the township, except scattering and groves of cottonwood which grow along the bottom land of the San Rafael River.

Mountain rush, shadscale, yellow top, service berry bushes, black brush, black sagebrush, and white sagebrush is the principal undergrowth, varying from a scattering to a medium dense growth on nearly all of the sections. Medium dense to dense willows, squaw bushes, rabbit brush, and greasewood grow on the banks and bottom land of the San Rafael River and along the washes in the bottoms of the canyons, gulches, draws, swales, and hollows.

The San Rafael River, hereinbefore described, is the main stream of water in the township. Small streams of clear alkali water rise and sink in many places along the bottom of the East Fork of Red Canyon in sections 21, 22, and 23, and in the bottom of the West Fork of Red Canyon in the E.½ E.½ of section 20, and also in the bottom of Walker Canyon in section 25. Several seeps and small springs of clear alkali water rise in the bottom of the West Fork of Red Canyon in the SE.¼ SE.¼ of section 20. A circular water hole or tank in the sandstone, forty links in diameter and six feet deep, is located in lot 3 of section 18, and east two and one half chains distant from the range line between sections 13 and 18. The tank is fed from a small seep, and the water which is about three feet deep, is slightly alkaline, but fairly good for culinary purposes. A great many water holes or tanks of various sizes in the sandstone are found on nearly all of the rough sections. These tanks are filled with water during the rainy seasons and from flood water, and from melting snow in the winter and spring months. Water holes called The Pack Saddle Water Holes are located in the NW.¼ SE.¼ of section 3. There are four tanks, varying in size from about fifteen links in diameter, five feet deep to fifty links diameter and twenty-five feet deep. A water hole, known as The Moonshine Water Hole, is located in the SW.¼ SE.¼ of section 13. The hole lies at the base of a nearly perpendicular ledge or water jump, about fifty feet high, in the bottom of gulch. At this time the water in the hole is about forty links in diameter and two feet deep. A water hole about fifty links in diameter and five feet deep lies at the base of a nearly perpendicular ledge, approximately forty feet high, in the bottom of a gulch in the NW.¼ NE.¼ of section 14. A water hole of about the same description as the one just given, lies in the bottom of a hollow at the base of a nearly perpendicular ledge in the SE.¼ SW.¼ of section 5. The water in each of the last two holes described was about forty links in diameter and four feet deep, at the time of this survey. The four water holes mentioned above are the principal water tanks in this township.

Although, the greater portion of the land is rugged and

cut by deep canyons, gorges, and gulches, there is a scattering to a fair growth of either gramma or bunch grass on nearly all of the sections, where rock is not entirely exposed.

At present, the land is used chiefly for grazing purposes. Approximately twenty thousand sheep, five hundred head of cattle, and one hundred head of horses graze in this township and adjoining townships during the winter and in the late fall and early spring months of the year. Also, about two hundred and fifty wild horses and one hundred wild burros range in this township and vicinity the year round. Except during periods when snow serves as water, the stock trail to water at the San Rafael River, seeps, springs, and streams in the forks of Red Canyon, to the water holes or tanks in the sandstone, and to a reservoir in section 5, hereinafter described.

Owing to the country being rugged and broken and the scarcity of water for irrigation, there are very few tracts suitable for farming. Floyd Day and Ezra Curtis, homesteaders in a nearly level and gently rolling basin in the western portion of section 6, have broken up and cultivated approximately forty acres, and raised wheat and barley by dry farming. Floyd Day and Ezra Curtis settled in part of sections 6 and 7 in this township, along with other portions of sections 1 and 12 in Township 20 South, Range 11 East. Later, they sold their holdings to Rufus Wilberg, whose improvements consist of two frame houses, each 16x16 feet, and a large cement water cistern in section 6, and about two miles of fences which are constructed of cedar and pine posts and four strands of barb wire, in sections 4, 5, 6, and 7. He has also built a reservoir about five chains wide and ten chains long in lot 1 of section 5, to collect flood water for stock watering purposes. D. S. Olsen, the only other settler in this township, has homesteaded in a nearly level and gently rolling basin, known as Box Flat. This basin lies in portions of sections 11 and 14. He has built a frame house, 12x15 feet, and constructed a fence with five strands of barb wire on cedar and pine posts. The fence is about one half mile in length and extends across the north side of Box Flat in section 11. A wagon road from Castle Dale and Huntington, Utah enters section 5, west approximately fifteen chains distant from the corner of sections 4, 5, 32, and 33, on the north boundary of the township, and bears in a southeasterly direction to D. S. Olsen's house on his homestead in sections 11 and 14. From Wilberg's houses in section 6, two wagon roads bear northerly to Castle Dale and Huntington, leaving the township through lot 4 of section 6. An old wagon road from Castle Dale and Huntington to Mexican Bend on the San Rafael River enters the township north approximately twenty-two chains distant from the corner of sections 19, 24, 25, and 30, on the west boundary of section 19, bears southeasterly and leaves the south boundary of section 34, east about three and one half chains distant from the standard corner of sections 33 and 34. There are no other improvements in this township.

There are no seams or veins of coal exposed on any of the sections, nor any indications of oil, except oil shale, which is found mostly in the extreme south and southwest portions of the township. Veins and small seams, which appear to carry ore, are exposed on the north side of a gulch in the SW.$\frac{1}{2}$ SE.$\frac{1}{4}$ of section 25. I saw no other evidence of ore bearing formations, and from surface indications, the township does not appear to have been prospected for oil or mineral.

U. S. GOVERNMENT PRINTING OFFICE: 1951 C—8155

138

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Page

BOOK A-514

4—680
(Revised May 1964)

FIELD ASSISTANTS

NAMES	CAPACITY
Elmo Sager	Principal Assistant
John Willie	Chainman
S. D. Nicholes	Axman
Edward Johnson	Flagman

6—6412

CERTIFICATE OF ~~UNITED STATES~~ SURVEYOR

I, J. C. Clark, Surveyor, HEREBY CERTIFY upon honor that in pursuance of special instructions bearing date of the 17th. day of February, 1925, received from the district cadastral engineer for Utah, with assignment instructions dated October 25, 1927, and April 12, 1933, I have surveyed the Fourth Standard Parallel South, through Range 12 East, Clarks Valley Guide Meridian or East Boundary, establishment of Lot Corner between Sections 6 and 31 on North Boundary, and Subdivision of Township 20 South, Range 12 East of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Certified to at Salt Lake City, Utah. J. C. Clark

March 14, 1936. Surveyor.

CERTIFICATE OF APPROVAL

OFFICE OF ~~U.S.~~ SUPERVISOR OF SURVEYS,

Denver, Colorado, February 6, 1942.

The foregoing field notes of the survey of the Fourth Standard Parallel South, through Range 12 East, Clarks Valley Guide Meridian or East Boundary, establishment of Lot Corner between Sections 6 and 31 on North Boundary, and Subdivision of Township 20 South, Range 12 East executed by J. C. Clark, under special instructions dated February 17, 1925, and assignment instructions dated October 25, 1927, and April 12, 1933, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

Thomas A. Johnson
~~U.S.~~ *Supervisor of Surveys.*

CERTIFICATE OF TRANSCRIPT

~~I certify that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes on file in the public survey office.~~

Thomas A. Johnson
~~U.S.~~ *Supervisor of Surveys.*

U. S. GOVERNMENT PRINTING OFFICE: 1934 6—8412

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6—679

BOOK A-514 "C"

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Public Survey Office
Salt Lake City, Utah

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT OF A PORTION OF THE NORTH BOUNDARY OF T. 20 S., R. 11 E., SURVEY OF A PORTION OF THE FOURTH STANDARD PARALLEL SOUTH THROUGH RANGE 10 EAST, SURVEY OF THE FOURTH STANDARD PARALLEL SOUTH THROUGH RANGE 11 EAST, AND EAST BOUNDARY, A PORTION OF THE WEST BOUNDARY, AND SUBDIVISION OF T. 20 S., R. 11 E.

Of the Salt Lake *Meridian,*

in the State of Utah.

EXECUTED BY

J. C. Clark

in the capacity of ~~Book~~ *Surveyor, under Special Instructions dated* February 17, 1925, *issued by the District Cadastral Engineer to govern surveys included in Group No.* 163, *which were approved by the Commissioner of the General Land Office,* February 27, 1925, *and Assignment Instructions dated* October 15, 1927. Supplemental Assignment Instructions dated September 23, 1930, May 20, 1931, and April 12, 1933.

Survey commenced October 16, 1930.

Survey completed June 28, 1933.

6—181

BOOK A-514

INDEX DIAGRAM.

Township 20 South, *Range* 11 East

4	4		4	3	3
37 6 150	154 5 149	121 4 119	99 3 96	79 2 75	57 1 54 22
34 7 142	146 8 141	117 9 115	94 10 91	73 11 71	52 12 49 20
31 18 138	139 17 136	113 16 111	89 15 88	70 14 68	46 13 44 18
28 19 132	134 20 130	109 21 107	87 22 86	67 23 66	42 24 41 17
25 30 126	128 29 124	105 28 103	84 27 83	65 26 62	40 25 39 15
36 24 31 6	123 32 6	102 33 6	82 34 6	60 35 6	37 36 6 14
4 13	12	11	10	8	7

FOURTH STANDARD PARALLEL SOUTH

Tps. 20 S., Rs. 10 And 11 E.

Survey commenced October 16, 1930, and executed with a Young and Sons transit No. 8520. The instrument is equipped with a Smith solar attachment and full vertical circle, the horizontal limb being provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs, and vertical circle.

The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer for district No. 6, in assignment instructions dated October 25, 1927, and in supplemental assignment instructions dated September 23, 1930, May 20, 1931, and April 12, 1933, conditional upon satisfactory field tests. I also examined all the instrumental adjustments and corrected all errors before making the field tests hereinafter described.

The directions of the lines were determined by the solar transit method, except the lines obtained by observations upon Polaris at elongation upon which to test the solar apparatus as stated in the field notes. These special meridians derived from Polaris observations at elongation were checked by time hour angle observations upon Polaris, and during suitable weather the solar attachment was tested every week on the meridians. Determinations for latitude and declination were taken whenever practicable, and in computing the declinations of the sun, the refractions were corrected for altitudes, varying from 4500 to 6000 feet above sea level. During the progress of the survey of this township, the bearings of the boundaries of the township and the meridional section lines were frequently checked by day light observations upon Polaris at elongation.

The measurements were made with Gallie steel tapes, 5 chains and 8 chains in length, graduated every link for the first 100 links, and the balance at intervals of 10 links. The tapes were tested by comparison with a Lufkin standard and found correct. All measurements were made on the slope, and the vertical angle of each interval was ascertained by a clinometer in good adjustment; and the horizontal equivalents are entered the field note record.

The data furnished with the special instructions give the geographic position for the SE. cor. of the Tp., as follows: latitude 39°02' N., and longitude 110°40' W.

The observed general average magnetic declination is 16°08' east, which gives the magnetic bearing of the true meridian, N.16°08'W.

INITIAL TESTS OF INSTRUMENT

October 7, 1930, in camp, in the NE.¼ SE.¼ of sec. 15, T. 20 S., R. 11 E., at 6h 37.5m p. m., l. m. t., or 7h 0.2m p. m. by my watch which reads correct 105th. meridian time as determined by the Western Union telegraph office at Price, Utah, I observe Polaris at eastern elongation, making two sights each with the telescope in direct and reversed positions, and place a tack at the mean point, on a peg driven firmly in the ground 8 chains N.

October 8, after sunrise, I lay off the azimuth of Polaris 1°22'30", and make a meridian mark on a second peg, 19.20 lks.(12.67 ft.) to the west of the mean point in the line determined by the observation; I verify the angle by a vernier reading of the instrument.

September 29, 1931, in camp, in the NE.¼ SE.¼ of sec. 15, T. 20 S., R. 11 E., at 7h 10.4m p. m., l. m. t., or

7h 33.1m p. m. by my watch which reads correct 105th. meridian time as determined by the Western Union telegraph office at Price, Utah, I observe Polaris at eastern elongation, making two sights each with the telescope in direct and reversed positions, and place a tack at the mean point, on a peg driven firmly in the ground 8 chains N.

September 30, after sunrise, I lay off the azimuth of Polaris 1°22'8", and make a meridian mark on a second peg, 19.11 lks. (12.61 ft.) to the west of the mean point in the line determined by the observation; I verify the angle by a vernier reading of the instrument.

May 4, 1933, in camp, in sec. 6, near the NW. cor. of T. 20 S., R. 11 E., at 4h 53.0m a. m., l. m. t., or 5h 15.7m a. m. by my watch which reads correct 105th. meridian time as determined by the Western Union telegraph office at Price, Utah, I observe Polaris at eastern elongation, making two sights each with the telescope in direct and reversed positions, and place a tack at the mean point, on a peg driven firmly in the ground 8 chains N.

After sunrise, I lay off the azimuth of Polaris 1°21'30", and make a meridian mark on a second peg, 18.96 lks. (12.51 ft.) to the west of the mean point in the line determined by the observation; I verify the angle by a vernier reading of the instrument.

During the tests on these meridians just described, the instrument by hourly a. m. and p. m. solar observations, on October 8, 1930, September 30, 1931, and on May 4, 1933, from 7:30 to 10:30 a. m. and from 1:30 to 4:30 p. m., defines positions for meridians that differ no more than one and one half minutes from the meridians established by observations upon Polaris. On October 8, 1930, September 30, 1931, and on May 4, 1933, at apparent noon, I make the proper settings on the declination arc, and observe the sun on the meridians; the resulting readings of the latitude arc agree within one half minute of the calculated latitudes.

FINAL TESTS OF INSTRUMENT

November 23, 1930, November 22, 1931, and June 27, 1933, on the same meridians which were established by observations upon Polaris, for the purpose of making the initial tests of the instrument, I test the solar attachment every hour from 7:30 to 10:30 a. m. and from 1:30 to 4:30 p. m., making the proper settings on the arcs of the instrument; and ascertain that the lines determined with the transit, when compared with the meridians established by Polaris observations, have a maximum error of less than one and one half minutes. At apparent noon, I set the calculated latitudes on the latitude arc, and observe the sun on the meridians; the resulting readings of the declination arc agree within one half minute of the computed declinations of the sun.

The latitudes obtained by the solar attachment on the Polaris meridians and the calculated latitudes practically agree, and as the instrument using the solar apparatus gives positions for meridians that differ no more than one and one half minutes from the meridians established from Polaris observations, I conclude that the transit has been in adjustment during the progress of the survey of this township.

METHOD AND ORDER OF PROCEDURE

The north boundary of the township and the mile between sections 1 and 6 on the west boundary have been previously surveyed and established. Survey commences at the standard quarter section corner on the south boundary of section 36, T. 20 S., R. 10 E. Thence, east 40.00 chains, the dist-

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

METHOD AND ORDER OF PROCEDURE

Chains

ance to a point which connects with a line run from the corner of sections 1, 6, 7, and 12, on the west boundary of the township, within a limit of 14' of arc, and establish the standard corner of Tps. 20 S., Rs. 10 and 11 E., The standard corner of Tps. 20 S., Rs. 11 and 12 E. is set at the intersection of a line run east from the standard corner of Tps. 20 S., Rs. 10 and 11 E., with a line projected south from the corner of Tps. 19 and 20 S., Rs. 11 and 12 E. and the fractional measurements of the fourth standard parallel south in range 11 east, and in the east boundary of the township, are placed in the western and northern half miles, respectively. Beginning at the standard corner of sections 35 and 36, on the south boundary, the township is subdivided in the regular manner from south to north and from east to west, placing the fractional measurements against the north and west boundaries. Lot corners are established on the meridional boundary lines of the north tier of sections. It was necessary to retrace the north boundaries of sections 1 and 2 for alignment, and the north boundary of section 5 and the west half mile of the north boundary of section 6 for distance. The south boundary of the township, which is the fourth standard parallel south, was run by the tangent method, determining the line by a solar observation.

RETRACEMENT OF A PORTION OF NORTH BDY. OF T. 20 S., R. 11 E.

From the cor. of Tps. 19 and 20 S., Rs. 11 and 12 E., hereinafter described,

West, on retracement line along the N. bdy. of T. 20 S., R. 11 E., bet. secs. 1 and 36.

40.00 Fall 21 lks. S. of the ¼ sec. cor., which is an iron post, 1 in. diam., extending 12 ins. above ground, firmly set in a mound of stone, 4 ft. base, 1½ ft. high, correctly marked, and witnessed as described in the official record of the survey of T. 19 S., R. 11 E.

Therefore, the bearing of this half mile is N.89°42'W., and the distance is 40.00 chs.

From the point 21 lks. S. of the ¼ sec. cor.,

West, with continuous measurement.

80.00 Fall 55 lks. S. of the cor. of secs. 1, 2, 35, and 36, hereinafter described.

Therefore, the bearing of this half mile is N.89°31'W., and the distance is 40.00 chs.

From the cor. of secs. 1, 2, 35, and 36,

West, on retracement line bet. secs. 2 and 35.

40.00 Fall 59 lks. N. of the ¼ sec. cor., which is an iron post, 1 in. diam., extending 12 ins. above ground, firmly set, correctly marked, and witnessed as described in the official record of the survey of T. 19 S., R. 11 E.

Therefore, the bearing of this half mile is S.89°09'W., and the distance is 40.00 chs.

From the point 59 lks. N. of the ¼ sec. cor.,

Chains	
	West, with continuous measurement.
80.00	Fall 118 lks. N. of the cor. of secs. 2, 3, 34, and 35, hereinafter described.
	Therefore, the bearing of this half mile is S.89°09'W., and the distance is 40.00 chs.
	From the cor. of secs. 4, 5, 32, and 33, hereinafter described,
	West, on retracement line bet. secs. 5 and 32.
39.76	Intersect the ¼ sec. cor., which is an iron post, 1 in. diam., extending 12 ins. above ground, firmly set, correctly marked, and witnessed as described in the official record of the survey of T. 19 S., R. 11 E.
	Therefore, the bearing of this half mile is west, and the distance is 39.76 chs.
	From the ¼ sec. cor.,
	West, with continuous measurement.
79.52	Intersect the cor. of secs. 5, 6, 31, and 32, hereinafter described.
	Therefore, the bearing of this half mile is west, and the distance is 39.76 chs.
	From the ¼ sec. cor. of secs. 6 and 31, which is an iron post, 1 in. diam., extending 12 ins. above ground, firmly set, correctly marked, and witnessed as described in the official record of the survey of T. 19 S., R. 11 E.
	West, on retracement line bet. secs. 6 and 31.
38.76	Intersect the cor. of Tps. 19 S., Rs. 10 and 11 E., which is an iron post, 3 ins. diam., extending 24 ins. above ground, firmly set in a mound of earth and stone, 4½ ft. base, 2 ft. high, correctly marked, and witnessed as described in the official record of the survey of T. 20 S., R. 10 E., Group No. 72.
	Therefore, the bearing of this half mile is west, and the distance is 38.76 chs.
	From the cor. of Tps. 19 S., Rs. 10 and 11 E.,
	N.89°56'W., on retracement line along the S. bdy. of T. 19 S., R. 10 E., on the S. bdy. of sec. 36.
1.90	Intersect the closing cor. of Tps. 20 S., Rs. 10 and 11 E., hereinafter described.
	Therefore, the bearing of this line is N.89°56'W., and the distance is 1.90 chs.

SURVEY OF THE FOURTH STANDARD PARALLEL SOUTH, THROUGH A PORTION OF RANGE 10 EAST

Commencing at the standard quarter section cor. on the S. bdy. of sec. 36, T. 20 S., R. 10 E., which is an iron post,

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

OF THE FOURTH STANDARD PARALLEL SOUTH, THROUGH A PORTION OF RANGE 10 EAST

Chains

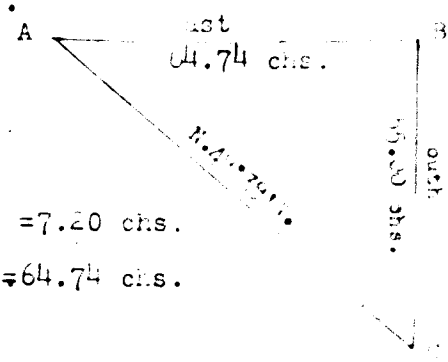
1 in. diam., extending 30 ins. above ground, firmly set in a mound of stone, 4½ ft. base, 2½ ft. high, correctly marked, and witnessed as described in the official record of the survey of T. 20 S., R. 10 E., Group No. 72.

East, with the establishment of the fourth standard parallel south, along the S. bdy. of sec. 36, T. 20 S., R. 10 E., on a transit line describing the tangent, which starts at the standard quarter section cor., and bears east, making proper offsets to the north from the tangent to the parallel, and setting temp. standard Tp..cor. at 40.00 chs.

Asc. gradual rugged W. slope 20 ft., over top of Sid Mountain, through a scattering growth of timber and medium dense undergrowth.

7.20 E. edge or breaks of Sid Mountain, or top of nearly perpendicular ledge, about 250 ft. high, bears NE. approximately 12 chs. dist., thence northwesterly about 10 chs. dist., thence northerly, and S.20°W. Leave timber and undergrowth, bearing same as top of ledge. Begin precipitous descent of about 500 ft., over E. slope, from the top of these breaks for a distance of approximately 15 chs. to the base of the mountain, which bears northeasterly and southwesterly, and where the line crosses a rough, broken, and rolling top of bench, covered with a medium to heavy growth of timber and scattering undergrowth.

To determine the distance east from the top of the ledge, I make the following triangulation: On account of the country being abrupt, rough, and broken, the most suitable site for a base line, lies E. approximately 60 chs. dist. from the top of the mountain. Therefore, I set a flag at the 7.20 chs. point, which I designate "A"; then mark a point "B" on the parallel 1 lk. N. of the tangent, east about 65 chs. dist. from flag "A". From point B, I measure a base line south 55.00 chs. dist. to a flag "C". From flag "C", flag "A" bears N.49°39'W.; all bearings are checked by direct reading of the solar, and all angles are checked by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 40°21'
Angle at point B = 90°00'
Angle at flag C = 49°39'

Distance from standard ¼ sec. cor. on S. bdy. of sec. 36, T. 20 S., R. 10 E. to flag "A" =7.20 chs.
Distance from flag "A" to point "B" on the stan. par....=64.74 chs.
Distance from standard ¼ sec. cor. on S. bdy. of sec. 36, T. 20 S., R. 10 E. to point "B" on the stan. par..... = 71.94 chs.

From a point 1 lk. S. of point "B" on the standard parallel,

N.89°59'W., on the tangent line 31.94 chs., or at

40.00 On the tangent,

Set temp. standard cor. of Tps. 20 S., Rs. 10 and 11 E.

From the cor. of secs. 1, 6, 7, and 12, on the E. bdy. of T. 20 S., R. 10 E., hereinafter described,

Chains

South, on a random line for alignment only, along E. bdy. of T. 20 S., R. 10 E.

Intersect the fourth standard parallel south, west 10 lks. dist. from the temp. standard cor. of Tps. 20 S., Rs. 10 and 11 E.

This falling gives the bearing of the line, connecting the cor. of secs. 1, 6, 7, and 12, on the E. bdy. of T. 20 S., R. 10 E., and the temp. standard Tp. cor., N.0°01'W.

Therefore, I make permanent the temp. standard Tp. cor., or at

40.00 On the tangent,

Set an iron post, 3 ft. long, 3 ins. diam., 14 ins. in the ground to bedrock, and in a mound of stone, 6½ ft. base, 1½ ft. high, for standard cor. of Tps. 20 S., Rs. 10 and 11 E., with brass cap mkd.

SC
T20S

R10E	R11E
S36	S31

1931

from which

A pinon pine, 12 ins. diam., bears N.56°45'E., 130 lks. dist., mkd. T 20 S R 11 E S 31 S C B T.

A pinon pine, 6 ins. diam., bears N.64°30'W., 127½ lks. dist., mkd. T 20 S R 10 E S 36 S C B T.

This cor. stands on top of a rough, broken, and rolling bench or shelf, 550 ft. below the E. rim or breaks of Sid Mountain, and 50 ft. below the base of the steep descent.

Land, abrupt, rugged, and broken mountains, W. 22.20 chs.; E. 17.80 chs., rough, broken, and rolling top of bench or shelf on E. side of Sid Mountain; outcroppings and boulders of varied colored sandstone formation; E. and W. exposure; general drainage to the N.

Soil, shallow red sand, 3rd. rate; surface rock exposed almost entirely.

Timber, cedar and pinon pine.

Undergrowth, shadscale and black brush.

Grazing, a sparse growth of bunch grass.

SURVEY OF THE FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 11 EAST

Beginning at the standard cor. of Tps. 20 S., Rs. 10 and 11 E., just established.

East, on a random line with the establishment of the fourth standard parallel south, along the S. bdy. of sec. 31, T. 20 S., R. 11 E., on a transit line describing the tangent, which starts at the standard Tp. cor., and bears east.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SURVEY OF THE FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 11 EAST

Chains	
	On the standard parallel, I set a temp. standard ¼ sec. cor. for sec. 31 at 40.77 chs., and thereafter establish temp. standard ¼ sec. and sec. cors. at intervals of 40.00 chs., until, at 480.77 chs., the distance equal to the length of the N. bdy. of the Tp., allowing for convergency, set temp. standard cor. for Tps. 20 S., Rs. 11 and 12 E., after making the proper offsets from the tangent N. to the parallel.
	From the cor. of Tps. 19 and 20 S., Rs. 11 and 12 E., hereinafter described,
	South, on a random line for alignment only, along E. bdy. of T. 20 S., R. 11 E.
	Intersect the fourth standard parallel south, west 12 lks. dist. from the temp. standard cor. of Tps. 20 S., Rs. 11 and 12 E.
	From the temp. standard cor. of Tps. 20 S., Rs. 11 and 12 E.,
	West 12 lks. dist. to the point of intersection of the fourth standard parallel south run east from the standard cor. of Tps. 20 S., Rs. 10 and 11 E., and a line projected south from the cor. of Tps. 19 and 20 S., Rs. 11 and 12 E., where I set an iron post, 3 ft. long, 3 ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 7 ft. base, 2 ft. high, for standard cor. of Tps. 20 S., Rs. 11 and 12 E., with brass cap mkd.
	SC T20S R11E | R12E S36 | S31 1930
	from which
	A cedar limb, 7 ins. diam., bears N.72°30'W., 36 lks. dist., mkd. T 20 S R 11 E S 36 S C B T.
	There are no other trees available suitable for marking; therefore, at the base of the monument, I deposit a limestone, 15x6x2 ins., marked with a cross (X).
	Thence, from the standard cor. of Tps. 20 S., Rs. 11 and 12 E.,
	West, on a true line with the establishment of the fourth standard parallel south, along the S. bdy. of sec. 36, T. 20 S., R. 11 E.
	Over rolling, rough, and broken land, through scattering timber and undergrowth; asc. gradual SE. slope 20 ft.
5.20	Top of ascent, bears NE. and SW.; gradual descent of 5 ft., over NW. slope.
23.20	Head of a box gulch, drains southeasterly; asc. 70 ft. along general N. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for standard ¼ sec. cor., with brass cap mkd.
	SC ¼ S36 1930

SURVEY OF THE FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 11

Chains	
	raise a mo[illegible] of stone, 4 ft. base, 4 ft. high, N. of cor.
	All available trees are too scrubby for marking.
	This cor. stands at the top of ascent, sloping N.
40.60	Draw, heads S. about 5 chs. dist., 25 ft. below the st[illegible] ard ¼ sec. cor., drains N.; gradual ascent of 30 ft.
45.60	Top of ascent on N. slope; desc. gradually 5 ft.
50.40	E. edge or rim of a box gulch, 5 ft. high, bears NE. and SW.; desc. abruptly 125 ft., over NW. slope.
58.20	Wash, 80 lks. wide, 3 ft. deep, in the bottom of the gul[illegible] drains northeasterly; asc. precipitous SE. slope 170 ft.
65.60	W. edge or rim of the gulch, 10 ft. high, bears NE. and SW.; gradual ascent of 5 ft.
70.60	Top of ascent on N. slope; desc. 45 ft.
72.50	E. edge of wash, 5 ft. deep, in the bottom of swale, drains N.
74.50	W. edge of the wash; asc. broken general N. slope 35 ft. to
80.00	At the top of ascent on gently rolling bench, set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 5½ ft. base, 2 ft. high, for standard cor. of secs. 35 and 36, with brass cap mkd.

SC

T20S	R11E
S35	S36

1930

At the base of the monument, I deposit a limestone, 12x6x[illegible] ins., marked with a cross (X).

There are no trees within a reasonable distance suitable for marking.

Land, rolling, and broken by rims of draws, hollows, and gulches; outcroppings of limestone and sandstone formation; drainage generally to the NE.

Soil, rocky and shallow red sand, lying on bedrock, 2nd. and 3rd. rate.

Timber, a scattering growth of scrubby cedar.

Undergrowth, a scattering growth of short shadscale and yellow top.

Grazing, fair growth of gramma grass.

West, along the S. bdy. of sec. 35.

Over gently rolling top of bench, through a scattering growth of timber and undergrowth; desc. 15 ft. along gr[illegible]

SURVEY OF THE FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 11 EAST

Chains	
	ual N. slope.
20.40	Draw, drains N.; gradual ascent of 20 ft.
25.20	Top of ascent on N. slope; desc. gradually 15 ft.
28.60	Leave bench, bears NE. and SW.; desc. NW. slope 10 ft.
36.70	Head of draw, drains northeasterly; asc. 15 ft.
38.60	Saddle, bears NW. and SE., on top of spur, sloping NE. about 2 chs. dist.; desc. SW. slope 10 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for standard ¼ sec. cor., with brass cap mkd. SC ¼ S35 1930 raise a mound of stone, 3½ ft. base, 2½ ft. high, N. of cor. There are no trees available suitable for marking.
42.60	Head of draw, 10 ft. below the standard ¼ sec. cor., drains southeasterly; asc. gradual SE. slope 10 ft. to
47.10	Begin precipitous ascent of 325 ft., along rugged and broken SE. slope, over large boulders and outcroppings, and numerous draws and washes, putting to the SE.
47.60	Leave timber.
70.80	Top of ascent on S. slope; desc. abrupt, rough, and broken SW. slope 480 ft. to the standard sec. cor., over large boulders and outcroppings, and numerous draws and washes, putting to the SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for standard cor. of secs. 34 and 35, with brass cap mkd. SC T20S | R11E S34 | S35 1930 raise a mound of stone, 3½ ft. base, 2½ ft. high, N. of cor. Land, rolling, rough, and broken with outcroppings of limestone and sandstone formation, E. 47.10 chs.; steep and mountainous, and broken by washes, small draws and spurs, and surface strewn with large boulders, sliderock and outcroppings of varied colored sandstone, W. 32.90 chs.; general drainage to the NE., E. 70.80 chs.; W. 9.20 chs. drain generally to the W. Soil, shallow and rocky, light colored clay and red sand, lying on shale or bedrock, 2nd. to 3rd. rate, on E. 47.10 chs.; alternate layers of varied colored clays, shale, and sandstone, 4th. rate, on W. 32.90 chs. Timber, scrubby cedar. Undergrowth, shadscale and yellow top. Grazing, poor to fair growth of gramma grass.

U. S. GOVERNMENT PRINTING OFFICE: 1961 O—81155

SURVEY OF THE FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 11

Chains	
	West, along the S. bdy. of sec. 34.
	Desc. precipitous SW. slope 285 ft., over large boulders and outcroppings, through scattering undergrowth.
32.50	Base of abrupt descent, bears NW. and SE.; desc. gradual SW. slope 15 ft. to the standard ¼ sec. cor., over nearly level and gently rolling land.
32.70	Enter a scattering growth of timber.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for standard ¼ sec. cor., with brass cap mkd. SC ¼ S34 1930 raise a mound of stone, 4½ ft. base, 2 ft. high, N. of cor. All trees available are too scrubby for marking.
43.90	Leave timber.
54.90	Leave large boulders.
61.70	Leave nearly level land, 10 ft. below standard ¼ sec. cor., bears N. and S.; desc. more abruptly 85 ft., over SW. slope.
72.00	Draw, drains SW.; asc. 15 ft.
73.80	Spur, slopes SW. about 2.50 chs. dist.; desc. 30 ft.
77.40	E. edge of wash, 5 ft. deep, in the bottom of hollow, drains NW. about 2 chs. dist., thence westerly.
78.20	W. edge of the wash; asc. gradual SE. slope 5 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for standard cor. of secs. 33 and 34, with brass cap mkd. SC T20S | R11E S33 | S34 1930 raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor. Land, abrupt and rugged SW. slope, E. 32.50 chs.; nearly level, gently rolling, rolling, and broken, W. 47.50 chs.; shale, limestone, and varied colored sandstone formation; general drainage to the NW. Soil, alternate layers of varied colored clays, shale, sandstone, and limestone, 4th. rate, on E. 32.50 chs.; red sand and varied colored clays, about 4 ins. to 2 ft. deep, lying on a clay subsoil or on shale or sandstone bedrock, 2nd. to 3rd. rate, W. 47.50 chs. Timber, cedar. Undergrowth, shadscale, yellow top, and mountain rush. Grazing, fair growth of gramma and bunch grass on W. 47.50 chs.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

Chains	
	West, along the S. bdy. of sec. 33.
	Asc. gradual SE. slope 10 ft., over rolling and broken land, through scattering undergrowth.
6.60	Spur, slopes NE. about 3 chs. dist.; desc. 25 ft.
22.60	Swale, drains NE. approximately 5 chs. dist. into a main wash, thence, northwesterly; asc. gradually 20 ft. along N. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for standard ¼ sec. cor., with brass cap mkd. SC ¼ S33 1930 raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
41.70	Wagon road, bears northeasterly to Huntington and Castle Dale, Utah and southwesterly to the San Rafael Swell.
46.70	Top of ascent on N. slope, 15 ft. above the standard ¼ sec. cor.; desc. 45 ft.
65.90	Draw, drains NW. about 1 ch. dist., thence northeasterly into a main wash; asc. 15 ft.
67.50	Spur, slopes NW. about 1 ch. dist.; desc. 30 ft.
68.90	A main wash, 80 lks. wide, 4 ft. deep, in the bottom of gulch, drains NW. approximately 3 chs. dist., thence northeasterly; asc. 35 ft.
75.30	Spur, projects southeasterly about 8 chs. dist.; desc. gradual SW. slope 5 ft. to
80.00	At the base of descent, bearing NW. and SE., set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for standard cor. of secs. 32 and 33, with brass cap mkd. SC T20S | R11E S32 | S33 1930 raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.
	Land, rolling and broken, draining NW., N., and NE. into main washes, thence northerly; outcroppings of sandstone, shale, and limestone formation.
	Soil, red sand and varied colored clays, about 4 ins. to several ft. deep, lying on a clay subsoil or on bedrock or on shale, 2nd. to 4th. rate.
	Timber, a few scattering cedar.
	Undergrowth, shadscale, yellow top, and mountain rush.
	Grazing, poor to fair growth of gramma grass.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains	
	West, along the S. bdy. of sec. 32.
	Asc. gradual SE. slope 20 ft., over rolling and broken land, through scattering undergrowth.
5.60	Leave rolling and broken land, bears NE. and SW.; asc. precipitous SE. slope 445 ft., over large boulders, series of broken, sloping, and perpendicular ledges, and numerous washes, draws, and spurs, putting to the SE.
37.40	Top of nearly perpendicular sandstone ledge or E. rim of mesa or bench, 80 ft. high, bears NE. and SW.; asc. gradually 20 ft. to the standard ¼ sec. cor., over nearly level, rolling, and gently rolling top of mesa, through a medium heavy growth of timber, bearing NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, and in a mound of stone, 5½ ft. base, 2½ ft. high, for standard ¼ sec. cor., with brass cap mkd. SC ¼ S32 1930 from which A pinon pine, 9 ins. diam., bears N.74°30'W., 289 lks. dist., mkd. ¼ S 32 S C B T. A pinon pine limb, 4 ins. diam., bears N.53°00'W., 25 lks. dist., mkd. ¼ S 32 S C B T.
62.70	Draw, 10 ft. below the standard ¼ sec. cor., drains NW.; asc. 40 ft.
65.50	Top of ascent on S. slope of butte; desc. 45 ft. to the standard sec. cor., over gentle SW. slope.
73.60	A red butte, 50 ft. high, capped with a white sandstone rim, 10 ft. high, bears N. 70 lks. dist.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 5½ ft. base, 2½ ft. high, for standard cor. of secs. 31 and 32, with brass cap mkd. SC T20S | R11E S31 | S32 1930 from which A pinon pine, 7 ins. diam., bears N.80°30'E., 88 lks. dist., mkd. T 20 S R 11 E S 32 S C B T. A pinon pine limb, 5 ins. diam., bears N.57°15'W., 120 lks. dist., mkd. T 20 S R 11 E S 31 S C B T.
	Land, rolling and broken, E. 5.60 chs.; nearly level, gently rolling, and rolling and broken top of mesa, W. 42.60 chs.; abrupt, rugged, and broken SE. slope of mesa, remainder of mile; shale, limestone, and varied colored sandstone exposed in the form of ledges, large boulders, and surface rock; general drainage to the NE., E. ½ mile; W. ½ mile, drains northwesterly.
	Soil, varied colored clays, varying in depth from about

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SURVEY OF THE FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 11 EAST

Chains	
	6 ins. to several ft., lying on loose shale or on bedrock, 4th. rate, on E. 37.40 chs.; shallow red sand in places, but mostly surface rock exposed on W. 42.60 chs. Timber, cedar and pinon pine. Undergrowth, shadscale, mountain rush, yellow top, and black brush. Grazing, gramma and bunch grass, fair growth on E. 5.60 chs., scattering on remainder of mile.
	West, along the S. bdy. of sec. 31. Desc. gentle SW. slope 55 ft., over rolling and broken top of mesa, through a medium heavy growth of timber and scattering undergrowth.
11.30	Draw, drains N.20°W.; asc. 30 ft.
17.40	Top of ascent on NW. slope; desc. 105 ft.
19.40	Leave timber, bears NW. and SE.
19.50	Top of nearly perpendicular sandstone ledge or W. rim of mesa or bench, 65 ft. high, bears NW. and SE.; desc. abrupt SW. slope 295 ft., over large boulders and outcroppings, and across numerous washes, small draws and spurs, putting to the SW.
28.40	Leave boulders and outcroppings at the base of steep descent, bearing NW. and SE.; desc. more gradual SW. slope 45 ft. to the standard ¼ sec. cor., over rolling and broken land.
36.60	Enter scattering timber.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for standard ¼ sec. cor., with brass cap mkd. SC ¼ S31 1930 from which A cedar, 8 ins. diam., bears N.69°45'E., 368 lks. dist., mkd. ¼ S 31 S C B T. A cedar, 20 ins. diam., bears N.22°00'W., 248 lks. dist., mkd. ¼ S 31 S C B T.
44.90	E. edge of Cain Wash, 5 ft. deep, in the bottom of swale, 10 ft. below the standard ¼ sec. cor., drains N.
51.00	W. edge of the wash; asc. gradual SE. slope 20 ft.
60.50	Leave rolling and broken land, bears NE. and SW.; asc. precipitous SE. slope 365 ft., over large boulders and outcroppings, and across washes, small draws and spurs, putting to the SE.
68.50	Enter a medium heavy growth of timber, bears NE. and SW.
78.70	Top of nearly perpendicular sandstone ledge or E. rim of

Chains	
	mesa or bench, 80 ft. high, bears northeasterly, and southwesterly about 3 chs. dist., thence westerly; desc. gradually 5 ft., over rolling and broken top of mesa.
80.65	The standard cor. of Tps. 20 S., Rs. 10 and 11 E., hereinbefore described.
	Land, nearly level, rolling, and broken on the tops of mesas or benches which have abrupt, rugged, and broken slopes, E. 28.40 chs. and W. 20.15 chs.; nearly level, gently rolling, and rolling and broken, across swale, on remainder of mile; shale and varied colored sandstone formation; general drainage to the N. by Cain Wash.
	Soil, shallow red sand in places, but mostly surface rock exposed on the tops of mesas; varied colored clays, about 6 ins. to several ft. deep, lying on loose shale or on bedrock, 4th. rate, on the abrupt slopes of mesas; deep red sandy loam, several ft. deep, across swale of Cain Wash, 1st. rate.
	Timber, cedar and pinon pine.
	Undergrowth, shadscale, mountain rush, and buck brush; scattering to a dense growth of rabbit brush along the Cain Wash.
	Grazing, fair growth of gramma grass in swale of Cain Wash.
	EAST BOUNDARY OF T. 20 S., R. 11 E.
	From the standard cor. of Tps. 20 S., Rs. 11 and 12 E., hereinbefore described,
	North, on a true line, along the E. bdy. of T. 20 S., R. 11 E., bet. secs. 31 and 36.
	Over rolling, rough, and broken land, through scattering timber and undergrowth; asc. gradual S. slope 10 ft.
1.50	Spur, slopes E. about 2 chs. dist.; desc. 30 ft.
6.40	Draw, heads SW. approximately 7 chs. dist., drains E.; asc. 15 ft.
9.60	Spur, projects E. about 20 chs. dist.; desc. 35 ft.
17.60	Draw, heads SW. approximately 6 chs. dist., drains E. about 6 chs. dist., thence N.15°E.; asc. 10 ft.
20.80	Spur, projects NE. approximately 15 chs. dist.; desc. 165 ft.
32.50	Wash, 60 lks. wide, 6 ft. deep, in the bottom of draw, drains NE.; asc. 10 ft.
34.10	Spur, slopes NE. about 1 ch. dist.; desc. 25 ft.
35.70	Wash, 100 lks. wide, 6 ft. deep, in the bottom of draw, drains E. approximately 25 chs. dist., thence NE.; asc. 35 ft.
38.50	Top of ascent, bears E. and W.; desc. N. slope 10 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the

EAST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
	ground to solid rock, and in a mound of stone, 5½ ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 36 | S 31 1930
	from which
	A cedar limb, 4 ins. diam., bears N.2°30'E., 74 lks. dist., mkd. ¼ S 31 B T.
	A cedar limb, 4 ins. diam., bears S.17°00'W., 121 lks. dist., mkd. ¼ S 36 B T.
47.50	Draw, 25 ft. below ¼ sec. cor., drains E.; asc. 30 ft.
52.00	Top of ascent, bears E. and W.; desc. 20 ft.
55.30	Draw, drains E.; asc. 25 ft.
58.60	Spur, slopes E. about 3 chs. dist.; desc. 30 ft.
65.40	Wash, 20 lks. wide, 2 ft. deep, in the head of draw, drains N. approximately 3 chs. dist., thence northeasterly; asc. 15 ft.
70.70	Spur, projects E.; desc. N. slope 50 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, with brass cap mkd.
	T20S R11E | R12E S25 | S30 S36 | S31 1930
	raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	There are no trees within a reasonable distance suitable for marking.
	Land, rolling, and broken by rims of draws, hollows, and gulches; outcroppings of limestone and sandstone formation; drainage E. and NE. into the San Rafael River.
	Soil, shallow and rocky red sand or light colored clay, lying on a clay subsoil, loose shale, or on bedrock, 3rd. rate.
	Timber, scrubby cedar.
	Undergrowth, shadscale and yellow top.
	Grazing, a fair growth of gramma grass.
	North, bet. secs. 25 and 30.
	Over rolling, rough, and broken land, through scattering timber and undergrowth; desc. N. slope 40 ft.
6.60	Wash, 180 lks. wide, 8 ft. deep, in the bottom of gulch, drains E.; gradual ascent of 5 ft.
10.90	Leave timber.

U. S. GOVERNMENT PRINTING OFFICE: 1961 6—8155

EAST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
18.90	Spur, slopes E. about 1 ch. dist.; desc. 10 ft.
23.60	Wash, 80 lks. wide, 10 ft. deep, in the bottom of gulch, drains SE.; asc. 55 ft.
30.80	Spur, projects easterly; desc. N. slope 65 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam.,27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 25 | S 30

1930

raise a mound of stone, 3½ ft. base, 3 ft. high, W. of cor.

All available trees are too scrubby for marking.

44.30	Wash, from the W., 50 lks. wide, 5 ft. deep, in the bottom of gulch, 45 ft. below ¼ sec. cor., drains NE.; asc. 35 ft.
52.10	At the top of ascent, bearing NW. and SE., top of nearly perpendicular sandstone ledge, 30 ft. high, bears NW. and SE., and forms the right bank of San Rafael River, which is a stream of alkali water, 3 chs. wide, 3 to 4 ft. deep, having a southeasterly course.
55.10	From the N. edge of the stream, over nearly level dry river bottom to base of ledge.
66.60	Top of nearly perpendicular ledge, 20 ft. high, bears NW. and SE., and forms the left bank of San Rafael River; a medium heavy growth of cottonwood timber and dense undergrowth of willows, squaw bushes, greasewood, and rabbit brush grow along the banks and on the bottom land of the river.
70.30	Top of nearly perpendicular ledge, 45 ft. high, bears NW. and SE.
80.00	135 ft. above the San Rafael River, on W. slope of spur at forks, one prong projecting northwesterly approximately 15 chs. dist., and the other fork sloping to the SW. about 10 chs. dist., set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 5½ ft. base, 2½ ft. high, for cor. of secs. 19, 24, 25, and 30, with brass cap mkd.

T20S

R11E	R12E
S24	S19
S25	S30

1930

At the base of the monument, I deposit a sandstone, 12x8x1 ins., marked with a cross (X).

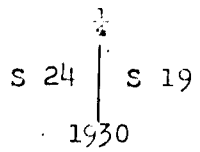
From this cor., an abandoned oil well prospect iron pipe, 12 ins. diam. and plugged, bears S.77°38'W. 22.32 chs. dist.; from this pipe, two abandoned oil well prospect iron pipes, each 12 ins. diam. and plugged, are located as follows: one bears N.28°04'W. 9.73 chs. dist., and the other N.29°03'W. 13.63 chs. dist.

Land, rolling, and broken by rims of draws, hollows, and gulches; outcroppings and ledges of limestone and sandstone formation; drainage easterly and westerly into the

U. S. GOVERNMENT PRINTING OFFICE: 1961 6—8155

EAST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
	San Rafael River, thence southeasterly.
	Soil, shallow and rocky red and brown sand, and varied colored clays, lying on a clay subsoil, loose shale, or on bedrock, 3rd. rate.
	Timber, cedar; scattering and groves of cottonwood along the bottom land of the San Rafael River.
	Undergrowth, shadscale and yellow top; dense growth of willows, squaw bushes, greasewood, and rabbit brush along the bottom land of the San Rafael River.
	Grazing, poor to fair growth of gramma grass.
	North, bet. secs. 19 and 24.
	Over rough, rolling, and broken land, through scattering undergrowth; desc. NE. slope 20 ft.
4.20	Wash, 20 lks. wide, 2 ft. deep, in the bottom of draw, drains NW.; asc. 45 ft.
7.00	Spur, projects W. approximately 1 ch. dist.; desc. 25 ft.
13.00	Wash, 40 lks. wide, 2 ft. deep, in the bottom of draw, drains W. about 1 ch. dist., thence northwesterly; asc. 45 ft.
18.00	Spur, slopes W. approximately 4 chs. dist.; desc. 25 ft.
21.50	Old wagon road, bears S.60°E. to Mexican Bend and N.60°W. to Castle Dale and Huntington, Utah.
26.00	Wash, 30 lks. wide, 3 ft. deep, in the bottom of draw, drains W. about 1 ch. dist., thence southeasterly approximately 3 chs. dist., thence southwesterly; asc. 25 ft.
32.90	Top of ascent, bears NE. and SW.; desc. 5 ft.
37.90	Wash, 40 lks. wide, 3 ft. deep, in the bottom of draw, drains SW.; asc. gradually 25 ft. to the ½ sec. cor., over SW. slope.
39.20	Enter a medium heavy growth of timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ½ sec. cor., with brass cap mkd.



from which

A cedar limb, 4 ins. diam., bears N.50°30'E., 61 lks. dist., mkd. ¼ S 19 B T.

A cedar, 14 ins. diam., bears N.66°45'W., 98 lks. dist., mkd. ¼ S 24 B T.

52.30	Leave rolling, rough, and broken land, 50 ft. above ¼ sec. cor., bears NW. and SE.; asc. precipitous SW. slope 590 ft. to the witness cor. to the cor. of secs. 13, 18, 19, and 24, over large boulders and series of broken, sloping, and perpendicular ledges.

U. S. GOVERNMENT PRINTING OFFICE: 1941 6—8155

162

EAST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
52.50	Timber becomes scattering, bearing NW. and SE.
72.24	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for witness cor. to the cor. of secs. 13, 18, 19, and 24, with brass cap mkd.

WC
T20S

R11E	R12E
S13	S18
S24	S19

1930

raise a mound of stone, 6 ft. base, 4 ft. high, W. of cor.; all trees too scrubby for marking.

From this cor., asc. 5 ft. to

72.50	Base of nearly perpendicular ledge, about 500 ft. high, bears W. and SE., on the S. face of a rugged, barren sandstone spur. This ledge makes chaining impracticable north from this point.
75.00	Approximate distance. Top of the rugged, barren sandstone spur, about 75 ft. above the top of the ledge, projects W. about 10 chs. dist., then slopes W. approximately 20 chs. dist.; steep descent of about 300 ft. over N. slope to
80.00	The true point for the cor. of secs. 13, 18, 19, and 24, falls on the nearly perpendicular N. face of the rugged, barren sandstone spur, where it is impracticable to establish a cor. monument or mark a cross (X).

Land, rolling, broken, and rough with limestone, sandstone, and quartzite outcroppings, rims, and ledges, S. 52.30 chs.; abrupt slopes of varied colored sandstone surface rock, outcroppings, sliderock, large boulders, and ledges, N. 27.70 chs.; drainage W. and SW. into the San Rafael River.

Soil, shallow and rocky red and brown sand, and varied colored clays, lying on a clay subsoil, loose shale, or on bedrock, 3rd. and 4th. rate.

Timber, cedar and pinon pine.

Undergrowth, shadscale and yellow top.

Grazing, sparse to a fair growth of gramma and bunch grass.

North, bet. secs. 13 and 18.

North for a distance of about 50 to 55 chs. from the witness cor. to the cor. of secs. 13, 18, 19, and 24, chaining is impracticable, on account of the line crossing over high ledges or walls of deep canyons, gulches, and gorges. And, as points or prongs of high ledges and rims interfere with the projection of a line north bet. secs. 13 and 18, it is necessary to return south as far as a transit point on line bet. secs. 31 and 36, on the E. bdy. of the Tp., and set a flag A on line north approximately 45 chs. dist. from the true point for the cor. of secs. 13, 18, 19, and 24. Then, I return to the cor. of secs. 19, 24, 25, and 30, on the E. bdy. of the Tp., and determine the distance of a portion of the mile bet. secs. 13 and 18 by triangulation, as follows:

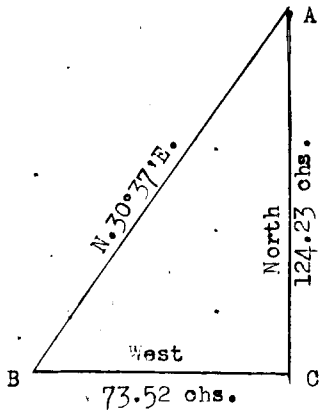
From the cor. of secs. 19, 24, 25, and 30, I measure a

EAST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
	base line west 73.52 chs. dist. to a flag "B", from which flag "A" bears N.30°37'E. I erect a flag "C" on the cor. of secs. 19, 24, 25, and 30. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with a closing error of 30" balanced to 180°.

Angle at flag A = 30°37'
Angle at flag B = 59°23'
Angle at flag C = 90°00'

Distance from cor. of secs. 19, 24, 25, and 30 to flag "A"..... = 124.23 chs.
Length of sec. line bet. secs. 19 and 24..= 80.00 chs.
Distance from the true point for the cor. of secs. 13, 18, 19, and 24 to flag "A"..... = 44.23 chs.



Beginning at the true point for cor. of secs. 13, 18, 19, and 24, I describe and give the approximate distances and elevations to topography as follows:

Precipitous descent of 250 ft., over nearly barren surface sandstone, on rugged NE. slope.

6.00 Head of gulch, drains northwesterly approximately 15 chs. dist., thence southwesterly; asc. abrupt SW. slope 250 ft.

17.00 Spur, capped with series of high ledges, projects northwesterly about 40 chs. dist.; steep descent of 800 ft.

33.00 Canyon, drains N.80°W.; a small stream of alkali water rises and sinks in several places in the bottom of this canyon; precipitous ascent of 500 ft. to the true point for the ¼ sec. cor., over S. slope.

40.00 The true point for the ¼ sec. cor. falls on a series of high and nearly perpendicular ledges, bearing NW. and SE., forming a vertical wall on the N. side of the canyon, where the establishment of a cor. monument or the marking of a cross (X) is impracticable.

44.23 Triangulation flag "A", on top of the series of ledges, forming the N. wall of the canyon or rim of mountain, 800 ft. above the true point for the ¼ sec. cor., bearing NW. and SE.; desc. 15 ft. to the witness cor. to the ¼ sec. cor., over rough, broken top, continuing the exact distances to topography from flag "A".

44.90 Set an iron post, 3 ft. long, 1 in. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 6 ft. base, 3 ft. high, for witness cor. to the ¼ sec. cor., with brass cap mkd.

¼
S 13 | S 18
WC
19 30

No trees or other bearing objects available to witness cor.

46.30 Top of sloping, broken ledge, 35 ft. high, bears NW., and E. about 2 chs. dist., thence northeasterly.

EAST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
49.30	Draw, 80 ft. below the witness cor. to the ¼ sec. cor., drains E. about 3 chs. dist., thence northeasterly; asc. 55 ft.
50.30	A water hole or tank, 40 lks. diam., 6 ft. deep, lies in the bottom of the draw noted at 49.30 chs., and bears E. of line 2.50 chs. dist.; the tank is fed from a small seep, and the water, which is about 3 ft. deep, is slightly alkaline, but fairly good for culinary purposes.
53.80	Top of sloping, broken ledge, 60 ft. high, bears easterly and SW. about 1 ch. dist., thence S.
55.10	Sandstone spur, slopes E. approximately 1 ch. dist.; desc. 40 ft.
59.40	Draw, drains E. about 2.50 chs. dist., thence southeasterly; asc. SE. slope 50 ft.
67.40	Top of ascent, bears NE. and SW.; desc. gradually 25 ft., over rough, broken top to
76.30	Top of a series of sloping, broken ledges or S. rim of Pine Canyon, about 200 ft. high, bears NW. and SE.; desc. precipitous general NE. slope 55 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 5½ ft. base, 3 ft. high, for cor. of secs. 7, 12, 13, and 18, with brass cap mkd.

T20S

R11E	R12E
S12	S7
S13	S18

1930

There are no trees or other objects suitable for marking for accessories.

This cor. stands in a cove and on a large V shaped shelf, on the NE. breaks of Pine Canyon.

Land, rugged, and broken by deep canyons, gulches, and gorges; outcroppings, large boulders, sliderock, and sloping, broken, and perpendicular ledges of white, gray, red, and brown sandstone, quartzite, and conglomerate formation; drainage to the SW. into the San Rafael River, S. 44.20 chs.; N. 35.80 chs. drain northwesterly by Pine Canyon into Cow Canyon.

Soil, shallow red sand in a few places, but mostly surface rock exposed on the entire mile, 4th. rate.

Timber, a few scattering cedar, pinon pine, and large yellow pine growing out of the ledges and rock.

Undergrowth, a sparse growth of yellow top, shadscale, and mountain rush.

Grazing, a sparse growth of bunch grass.

North, bet. secs. 7 and 12.

Desc. abruptly 140 ft., over sloping and broken ledges, on nearly barren NE. slope.

EAST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
8.40	Leave sloping, broken ledges, bears NW. and SE.; enter scattering timber.
9.00	Base of steep descent, bears NW. and SE.; asc. gradually 5 ft., over gently rolling bottom of swale, known as Pine Canyon, through a heavy growth of timber, bearing NW. and SE.
17.50	Top of ascent, bears E. and W.; gradual descent of 30 ft.
23.60	Wash, 10 lks. wide, 2 ft. deep, in the bottom of draw, drains NE.; asc. gradually 25 ft.
26.80	Top of ascent, bears E. and W.; desc. 55 ft. to the ¼ sec. cor., over gentle N. slope.
32.20	Timber becomes scattering, bearing NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼
S 12 | S 7
1930

from which

A cedar limb, 8 ins. diam., bears S.82°15'E., 209 lks. dist., mkd. ¼ S 7 B T.

A pinon pine, 12 ins. diam., bears S.70°30'W., 688 lks. dist., mkd. ¼ S 12 B T.

40.30	Wash, from SW., 100 lks. wide, 3 ft. deep, drains E.
59.10	Wash, 80 lks. wide, 5 ft. deep, in the bottom of Pine Canyon, 45 ft. below the ¼ sec. cor., drains NW. about 3 chs. dist., thence westerly; gradual ascent of 5 ft. to
61.90	Begin abrupt ascent of 75 ft., over a series of sloping, broken ledges, bearing NW. and SE., on SW. slope.
68.30	Top of the series of ledges, bears NW. and SE., and forms the SW. rim of reef or bench; gradual ascent of 50 ft., over gently rolling top.
74.20	Top of ascent or N. edge of reef or bench, bears E. and W.; desc. gradual N. slope 20 ft. to
80.00	In the bottom of swale or basin, draining northwesterly, set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, 1½ ft. high, for cor. of secs. 1, 6, 7, and 12, with brass cap mkd.

T20S
R11E | R12E
S1 | S6
S12 | S7
1930

from which

A cedar, 10 ins. diam., bears N.12°45'E., 163 lks. dist., mkd. T 20 S R 12 E S 6 B T.

A pinon pine, 6 ins. diam., bears S.21°30'E., 183 lks. dist., mkd. T 20 S R 12 E S 7 B.T.

A cedar, 7 ins. diam., bears S.42°30'W., 493 lks. dist., mkd. T 20 S R 11 E S 12 B T.

U. S. GOVERNMENT PRINTING OFFICE: 1961 6—8155

166

EAST BOUNDARY OF T. 20 S., R. 11 E.

Chains

A pinon pine, 4 ins. diam., bears N.11°45'W., 591 lks. dist., mkd. T 20 S R 11 E S 1 B T.

Land, nearly level, rolling, and gently rolling swales or basins which are separated by reefs or benches with nearly level and rolling tops and rims of sloping and broken ledges; gray and light colored sandstone formation; drainage generally to the NW. by Pine Canyon into Cow Canyon.

Soil, red sandy loam several ft. deep, lying on bedrock, 1st. rate, in swales or basins; shallow red sand, lying on bedrock, 2nd. to 3rd. rate, on tops of reefs or benches.

Timber, cedar and pinon pine; a few young cottonwood along Pine Canyon wash; scattering yellow pine grow near the head of Pine Canyon.

Undergrowth, a sparse to a scattering growth of shadscale, black brush, and mountain rush.

Grazing, a good growth of gramma grass in swales and basins.

North, bet, secs. 1 and 6.

Over level bottom of swale or basin, through grassy opening.

2.10 Leave opening, bears NE. and SW., and enter a medium heavy growth of timber and scattering undergrowth.

4.70 Wash, 40 lks. wide, 4 ft. deep, 20 ft. below sec. cor., drains W.; begin ascent of 50 ft., over sloping and broken ledges, bearing NE. and SW., on SE. slope.

7.80 Top of ledges, bears NE. and SW.; asc. gradually 10 ft., over gently rolling top of reef or bench.

14.80 Top of ascent, bears E., and W. about 2 chs. dist. to W. edge of reef or bench; desc. gradually 10 ft. to

19.80 N. edge of reef or bench, bears E. and SW.; desc. abruptly 80 ft., over sloping and broken ledges, on NW. slope.

22.30 Leave ledges and timber at the base of steep descent, bearing NE. and SW.; desc. gradually 30 ft. to the ¼ sec. cor., over gently rolling basin.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, 1 ft. high, for ¼ sec. cor., with brass cap mkd.

¼

S 1 | S 6

1930

from which

A cedar, 8 ins. diam., bears S.70°15'E., 184 lks. dist., mkd. ¼ S 6 B T.

A cedar limb, 10 ins. diam., bears N.24°30'W., 356 lks. dist., mkd. ¼ S 1 B T.

From this ¼ sec. cor., the NW. corner of Floyd Day's frame house, 16x16 ft., bears S.64°50'E. 9.85 chs. dist. Floyd Day's holdings were sold later to Rufus Wilberg.

45.60 Enter a medium heavy growth of timber, bears NE. and SW.

48.80 A brush fence, bears NW. and SE.; draw, 30 ft. below ¼ sec. cor., drains NE.; asc. 10 ft.

EAST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
52.30	Top of ascent, bears E. and W.; desc. 35 ft.
54.40	Leave timber, bears E. and W.
58.60	Draw, drains NE.; asc. gradually 15 ft., over SE. slope.
65.60	Leave bottom of basin, bears NE. and SW.; asc. abruptly 40 ft., over boulders and sloping, broken ledges, on SE. slope.
65.80	Enter a medium heavy growth of timber, bears NE. and SW., and scattering undergrowth.
74.50	Top of ledges or S. rim of reef or bench, bears NE. and S.; asc. gradually 10 ft., over gently rolling top.
78.30	Top of ascent, bears NW. and SE.; desc. 10 ft. to
80.00	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to solid rock, and in a mound of stone, 7 ft. base, 2½ ft. high, for cor. of lots Nos. 6 and 6, sec. 6, and lots Nos. 1 and 8, sec. 1, with brass cap mkd.

S 1 — 1 | 6 / 8 | 6 — S 6

1933

from which

A pinon pine, 8 ins. diam., bears N.4°00'E., 185 lks. dist., mkd. Lot 6 S 6 B T.

A pinon pine, 6 ins. diam., bears S.65°00'E., 130 lks. dist., mkd. Lot 6 S 6 B T.

A pinon pine, 4 ins. diam., bears S.18°00'W., 57 lks. dist., mkd. Lot 8 S 1 B T.

A pinon pine, 9 ins. diam., bears N.84°45'W., 122 lks. dist., mkd. Lot 1 S 1 B T.

82.30	Draw, 10 ft. below lot cor., drains E.; asc. 25 ft.
86.10	Top of ascent or low ridge, bears NW., and SE. about 1.50 chs. dist. to the rim of reef or bench; desc. gradual NE. slope 5 ft. to
87.08	Intersect the cor. of Tps. 19 and 20 S., Rs. 11 and 12 E., which is an iron post, 3 ins. diam., extending 14 ins. above ground, firmly set, correctly marked, and witnessed by four bearing trees as described in the official record of the survey of T. 19 S., R. 11 E.

From this Tp. cor., the SW. cor. of Ezra Curtis' frame house, 16x16 ft., bears S.51°08'E. 56.44 chs. dist. The holdings of Ezra Curtis were later sold to Rufus Wilberg. Land, nearly level, rolling, and gently rolling swales or basins which are separated by reefs or benches, having nearly level and rolling tops and rims of sloping and broken ledges; gray and light colored sandstone formation; general drainage NW. into Pine Canyon and Cow Canyon.

Soil, red sandy loam several ft. deep, lying on bedrock, 1st. to 2nd. rate, in swales or basins; shallow red sand, lying on bedrock, 3rd. rate, on the tops of reefs or benches.

Timber, cedar and pinon pine.

Undergrowth, mountain rush, shadscale, and black brush.

EAST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
	Grazing, excellent growth of gramma grass in swales or basins; sparse growth of bunch grass on the tops of reef or benches.

PORTION OF THE WEST BOUNDARY OF T. 20 S., R. 11 E.

From the standard cor. of Tps. 20 S., Rs. 10 and 11 E., hereinbefore described,

N.0°01'W., on a true line, along the W. bdy. of T. 20 S., R. 11 E., bet. secs. 31 and 36.

Over rough, broken, and rolling top of bench, through a heavy growth of timber and medium dense undergrowth; asc. gradual SE. slope 10 ft.

7.50 Top of ascent, bears NE. and SW.; desc. N. slope 60 ft.

27.60 Wash, 100 lks. wide, 15 ft. deep, drains N.10°W.

33.80 Draw, drains NE.; asc. abruptly 95 ft. to the ¼ sec. cor., over SE. slope.

37.90 Top of nearly perpendicular red sandstone ledge, 20 ft. high, bears N. and SW.; thence, along top of the ledge to

40.00 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 5 ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd.

¼
S 36 | S 31
1931

from which

A pinon pine, 6 ins. diam., bears S.76°15'E., 69 lks. dist., mkd. ¼ S 31 B T.

There are no other trees available suitable for marking; therefore, at the base of the monument, I deposit a sandstone, 10x5x3 ins., marked with a cross (X).

This cor. stands in a V shaped cove at base of the ledge.

41.90 Top of ascent, 10 ft. above ¼ sec. cor., bears E. and W.; desc. abruptly 125 ft., over NE. slope.

46.00 Base of steep descent, bears N.80°W. and S.20°E.; desc. gradually 180 ft., over the NW. slope of the bench to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 6½ ft. base, 2½ ft. high, for cor. of secs. 25, 30, 31, and 36, with brass cap mkd.

T20S
R10E | R11E
S25 | S30
S36 | S31
1931

from which

A pinon pine limb, 9 ins. diam., bears N.49°45'E., 218 lks. dist., mkd. T 20 S R 11 E S 30 B T.

A pinon pine limb, 4 ins. diam., bears S.37°30'E., 149 lks. dist., mkd. T 20 S R 11 E S 31 B T.

PORTION OF THE WEST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
	A pinon pine, 12 ins. diam., bears S.52°15'W., 206 lks. dist., mkd. T 20 S R 10 E S 36 B T.
	A pinon pine, 8 ins. diam., bears N.62°00'W., 164 lks. dist., mkd. T 20 S R 10 E S 25 B T.
	Land, rough, broken, and rolling top of bench or shelf on E. side of Sid Mountain; ledges, outcroppings, and boulders of varied colored sandstone formation; eastern exposure; general drainage easterly into Cain Wash, thence N.
	Soil, shallow red sand, lying on bedrock, 3rd. rate; surface rock exposed on portions of mile.
	Timber, scattering to a medium heavy growth of cedar and pinon pine.
	Undergrowth, sparse to scattering black brush, mountain rush, yellow top, and service berry bushes.
	Grazing, sparse to scattering growth of bunch grass.
	N.0°01'W., bet. secs. 25 and 30.
	Over rough, broken, and rolling top of bench, through a heavy growth of timber and medium dense undergrowth; desc. gradual NW. slope 25 ft.
3.40	Small draw, drains W. about 2.50 chs. dist. into a main draw, thence northwesterly; asc. abrupt SE. slope 95 ft.
8.90	Top of ascent on SW. slope of knoll, which bears northeasterly approximately 5 chs. dist., and southwesterly about 2 chs. dist.; desc. NW. slope 190 ft.
15.20	Base of the knoll, bears NE. and SW.; descent becomes more gradual.
36.20	A box gulch, 75 lks. wide, 30 ft. deep, drains N.70°E.; asc. abrupt SE. slope 60 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock, and in a mound of stone, 3½ ft. base, 1 ft. high, for ¼ sec. cor., with brass cap mkd.

¼

S 25 | S 30

1931

from which

A pinon pine, 5 ins. diam., bears S.28°30'E., 132 lks. dist., mkd. ¼ S 30 B T.

A cedar limb, 4 ins. diam., bears N.73°15'W., 118 lks. dist., mkd. ¼ S 25 B T.

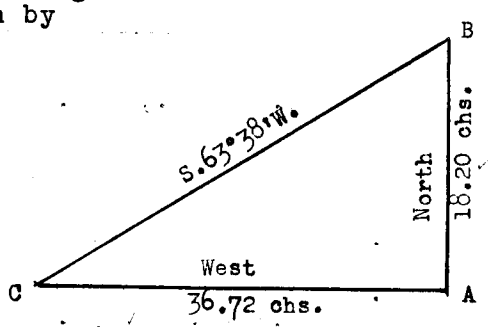
41.00	Leave rough, broken, and rolling top of bench, 25 ft. above ¼ sec. cor., bears NE. and SW.; asc. steep SE. slope 90 ft. to the base of ledge.
41.30	Leave timber, bears NE. and SW.
45.10	Base of a broken ledge, about 230 ft. high, bears north-

PORTION OF THE WEST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
	easterly, and southwesterly approximately 2 chs. dist., thence westerly.
	North, from the base of this ledge to the cor. of secs. 19, 24, 25, and 30, chaining and the projection of a line are impracticable, on account of series of nearly perpendicular ledges and points of ledges as high as 300 ft., on the E. breaks of Sid Mountain; therefore, north from the 45.10 chs. point, I describe and give the approximate distances and elevations to topography on the N. half mile, counting from the cor. of secs. 25, 30, 31, and 36, as follows:
	From the top of the ledge noted at 45.10 chs., asc. abruptly 400 ft. along shelf to
58.00	Eastern extremity or point of nearly perpendicular ledge, 300 ft. high, bears northwesterly and southwesterly, at the top of ascent on steep E. slope; precipitous descent of 450 ft., over NE. slope to
70.50	Base of abrupt descent, bears NW. and SE.; over nearly level top of bench or shelf to sec. cor., through a heavy growth of timber, bearing E. and W.
	To determine the position of the cor. of secs. 19, 24, 25, and 30, I return to the 43.17 chs. point.
	Thence, on traverse line,
	N.49°00'E., 53.79 chs. dist. At the beginning of course, desc. abrupt SE. slope 85 ft., over rough, broken, and rolling top of bench, through a medium heavy growth of timber and scattering undergrowth.
	At 18.50 chs., base of steep descent, bears NE. and SW.; desc. gradually 30 ft. to the end of course.
	At 45.50 chs., eastern extremity or point of broken and nearly perpendicular ledge, 315 ft. high, bears NW. and SW.
	At 53.79 chs., end of course.
	Thence offset,
	West, 40.61 chs. dist. At the beginning of course, over rough, broken, and nearly level top of bench, through scattering timber and undergrowth.
	Subsequently, the true line bet. secs. 19 and 30 runs nearly parallel and within about 1.50 chs. dist. of this offset line; therefore, the position of the topography on the offset practically agrees with the position of the topography on the true line bet. secs. 19 and 30.
	At 30.00 chs., approximately, the offset passes over a series of broken, sloping, and perpendicular ledges or rim of bench, about 300 ft. high, bearing northwesterly and southeasterly, making chaining impracticable.
	To determine the distance from the E. end of the offset to the top of the series of ledges or rim of bench, I triangulate as follows:
	Set a flag A at the point of beginning on the offset;

Chains

then from flag A, measure a base line north 18.20 chs. dist. to a flag B, from which a flag C set on the offset on the top of the series of ledges or rim of bench, bears S.63°38'W. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with a closing error of 1' balanced to 180°.



Angle at flag A = 90°00
Angle at flag B = 63°38'
Angle at flag C = 26°22'

Distance from flag A on E. end of offset to flag C on offset on top of series of ledges or rim of bench..... = 36.72 chs.

Thence, from flag C

West, with continuous measurement on the offset, over nearly level top of bench or shelf, through a medium heavy growth of timber.

At 40.61 chs., intersect the W. bdy. of the Tp., bet. secs. 25 and 30, or from

78.46 N.0°01'W., on true line bet. secs. 25 and 30.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base, 1½ ft. high, for cor. of secs. 19, 24, 25, and 30, with brass cap mkd.

T20S
R10E | R11E
S24 | S19
S25 | S30
1931

from which

A pinon pine, 8 ins. diam., bears N.11°45'E., 33 lks. dist., mkd. T 20 S R 11 E S 19 B T.

A pinon pine, 7 ins. diam., bears S.51°45'E., 45 lks. dist., mkd. T 20 S R 11 E S 30 B T.

A pinon pine limb, 4 ins. diam., bears S.12°00'W., 40 lks. dist., mkd. T 20 S R 10 E S 25 B T.

A pinon pine, 12 ins. diam., bears N.66°30'W., 77 lks. dist., mkd. T 20 S R 10 E S 24 B T.

Land, rough, broken, and rolling tops of benches or shelves on the E. side of Sid Mountain; ledges, large boulders, and outcroppings of varied colored sandstone, and conglomerate of varied colored sandstone and volcanic formation; also shale outcroppings; eastern exposure; general drainage easterly into Cain Wash, thence northerly.

Soil, shallow and rocky red sand and varied colored clays, lying on a clay subsoil or on bedrock, 3rd. and 4th. rate. Surface rock exposed on greater portions of benches or shelves.

Timber, scattering to heavy growth of cedar and pinon pine.

Undergrowth, sparse to scattering black brush, mountain

U. S. GOVERNMENT PRINTING OFFICE. 1931 6—8155

PORTION OF THE WEST BOUNDARY OF T. 20 S., R. 11 E.

Chains

rush, yellow top, and service berry bushes.

Grazing, sparse to a scattering growth of gramma and bunch grass.

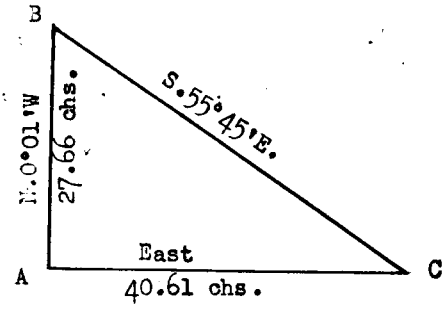
N.0°01'W., bet. secs. 19 and 24.

Over nearly level top of bench or shelf, through a medium heavy growth of timber and undergrowth.

4.20 Leave timber, bears NW. and SE.

4.50 Rim of bench or shelf, 10 ft. below sec. cor., bears N.15°W. and SE. From this point, the line descends abruptly over a series of broken, sloping, and perpendicular ledges, about 300 ft. high, bearing NW. and SE., on a general NE. slope, making chaining impracticable. Therefore, I make the following triangulation:

I use as a base line the offset of 40.61 chs., which was run in determining the line bet. secs. 25 and 30. Then, designate the west end of the offset or the 78.46 chs. point bet. secs. 25 and 30, as point A, and from the top of the rim of bench or shelf, set a flag B, N.0°01'W. on line. From flag B, a flag C at the E. end of the offset bears S.55°45'E. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at point A = 90°01'
Angle at flag B = 55°44'
Angle at flag C = 34°15'

Distance from point A to flag B = 27.66 chs.
Distance from point A to the cor. of secs. 19, 24, 25, and 30..... = 1.54 chs.
Distance from cor. of secs. 19, 24, 25, and 30 to flag B..... = 26.12 chs., or at

26.12 Triangulation flag B on line bet. secs. 19 and 24, 475 ft. below the top of the rim of bench or shelf.

Thence, with continuous measurement, through scattering timber.

28.40 Head of draw, 40 ft. below triangulation flag B, drains N.70°E.; asc. along broken, rough SE. slope 95 ft. to

34.10 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the ¼ sec. cor., with brass cap mkd.

WC
¼
S 24 | S 19
19 31

raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.

PORTION OF THE WEST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
	There are no trees available suitable for marking.
36.40	Base of a series of broken, sloping, and perpendicular ledges, 70 ft. above the witness cor. to the ¼ sec. cor., bears N.20°E. and S.20°W.
40.00	True point for the ¼ sec. cor. falls on the E. face of a high, sloping ledge, where it is impracticable to establish a cor. monument or mark a cross (X).
	N. from the 36.40 chs. point, chaining is impracticable over the SE. and NE. sides or breaks of a bench or shelf; therefore, I describe and give the approximate distances and elevations to topography on the N. half mile, counting from the cor. of secs. 19, 24, 25, and 30, as follows:
62.00	Top of the series of ledges or S. rim of bench or shelf, 350 ft. above the 36.40 chs. point at the base of ledges, bears NE. and SW.; over nearly level top, through a medium heavy growth of timber and undergrowth.
75.50	Top of a series of broken, sloping, and perpendicular ledges or N. rim of bench or shelf, 250 ft. high, bears NW. and SE.; leave timber, bears same as rim of bench or shelf; desc. abruptly 280 ft. to sec. cor., over NE. slope or breaks.
	To determine the position of the cor. of secs. 13, 18, 19, and 24, I return to the witness cor. to the ¼ sec. cor. of secs. 19 and 24.
	Thence,
	S.0°01'E., 7.98 chs. dist. to the triangulation flag B at the 26.12 chs. point.
	Thence, on traverse line,
	N.19°30'E., 57.16 chs. dist. At the beginning of course, desc. SE. slope 65 ft., through scattering timber and undergrowth.
	At 3.70 chs., draw, drains N.10°E.; asc. gradually 45 ft., over broken top of bench or shelf.
	At 10.50 chs., top of ascent, bears E. and W.; desc. gradual N. slope 10 ft.
	At 15.50 chs., edge of bench or shelf, bears N.10°E. and S.10°W.; desc. abruptly 110 ft.
	At 18.00 chs., draw, drains E.; asc. abrupt SE. slope 55 ft.
	At 21.80 chs., edge of same bench or shelf as noted at 15.50 chs., bears NE. and SW.; asc. gradually 15 ft., over broken top.
	At 33.00 chs., top of nearly perpendicular ledge or edge of bench or shelf, 45 ft. high, bears N. and S.; desc. steep E. slope 110 ft.
	At 36.70 chs., stream of clear alkali water, 3 lks. wide, 2 ins. deep, in bottom of gulch, known as Cain Wash, course N.20°W.; over nearly level bottom of gulch.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains

At 39.90 chs., same stream of water as noted at 36.70 chs., course N.70°E.

At 40.20 chs., leave bottom of gulch, bears NE. and SW.; asc. abrupt SE. slope 90 ft.

At 44.00 chs., top of nearly perpendicular ledge or rim of bench or shelf, 80 ft. high, bears N.70°E. and S.70°W.; asc. gradually 40 ft. over broken top.

At 47.00 chs., top of ascent, bears E. and W.; desc. gradually 20 ft. to the end of the traverse line, over rolling and broken top.

At 47.50 chs., eastern extremity of the base of a high and nearly perpendicular ledge, which extends W. approximately 8 chs. dist.; base of the ledge, bears northwesterly and southwesterly.

At 57.16 chs., end of course.

Thence offset,

West, 19.10 chs. dist. Subsequently, the true line bet. secs. 18 and 19 runs nearly parallel and within a few lks. dist. of this offset line; therefore, the position of the topography on the offset practically agrees with the position of the topography on the true line bet. secs. 18 and 19.

At 19.10 chs., intersect the W. bdy. of the Tp., at the true point for the cor. of secs. 13, 18, 19, and 24, or at

80.00 Set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 6 ft. base, 3 ft. high, for cor. of secs. 13, 18, 19, and 24, with brass cap mkd.

T20S

R10E	R11E
S13	S18
S24	S19

1931

This cor. stands on top of a nearly perpendicular sandstone ledge, 35 ft. high, bearing NW. and SE.

Land, rough, broken, and rolling tops and sides of benches or shelves; ledges, large boulders, and outcroppings of varied colored sandstone, and conglomerate of varied colored sandstone and volcanic formation; also shale and limestone outcroppings; eastern exposure; general drainage northerly by Cain Wash.

Soil, shallow and rocky red sand and varied colored clays, lying on a clay subsoil or on bedrock, 3rd. and 4th. rate. Surface rock exposed on greater portions of benches or shelves.

Timber, scattering to a heavy growth of cedar and pinon pine.

Undergrowth, sparse to a medium dense growth of black brush, shadscale, mountain rush, yellow top, and service berry bushes.

U. S. GOVERNMENT PRINTING OFFICE: 1931 5—8155

PORTION OF THE WEST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
	Grazing, sparse to a scattering growth of gramma and bunch grass.
	N.0°01'W., bet. secs. 13 and 18.
	Desc. precipitous rugged general NE. slope 560 ft., through a sparse growth of timber and undergrowth.
1.00	Base of sloping ledge, 85 ft. high, bears N.20°W. and SE.
	N. from this point for a distance of about 20 chs., the projection of a line and chaining are impracticable, on account of points and prongs of high, broken, sloping, and perpendicular ledges; therefore, from the cor. of secs. 13, 18, 19, and 24, I offset
	East, 19.10 chs. dist.
	Thence, on traverse line,
	N.43°15'W. 27.89 chs. dist. At the beginning of course, desc. gradually 10 ft., over gently rolling and broken top of bench, through a medium heavy growth of timber and undergrowth.
	At 1.80 chs., top of nearly perpendicular ledge or rim of bench, 80 ft. high, bears E. and W.; desc. abruptly 125 ft.
	At 4.20 chs., stream of clear alkali water, 3 lks. wide, 3 ins. deep, in the bottom of Cain Wash Gulch, course W.; asc. abruptly 105 ft.
	At 8.00 chs., top of nearly perpendicular ledge or rim of bench or shelf, 85 ft. high, bears E. and W.; over nearly level top.
	At 9.00 chs., top of broken ledge or rim of bench or shelf, 65 ft. high, bears N.20°W. and S.20°E. about 1 ch. dist. to point, thence easterly; desc. steep SW. slope 115 ft.
	At 12.70 chs., stream of clear alkali water, 3 lks. wide, 4 ins. deep, in the bottom of Cain Wash Gulch, course N.20°W.; asc. abrupt NE. slope 110 ft.
	At 15.90 chs., top of broken ledge or rim of bench or shelf, 55 ft. high, bears N.20°W. and S.20°E.; asc. gradually 15 ft., over rough, broken top.
	At 26.80 chs., asc. more abruptly 30 ft., over E. slope.
	At 27.89 chs., end of course or at
20.32	Intersect the W. bdy. of the Tp., 395 ft. below the cor. of secs. 13, 18, 19, and 24.
	Thence,
	N.0°01'W., on true line bet. secs. 13 and 18.

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

Chains	
	Continue abrupt descent over rough general NE. slope, through a sparse growth of timber and undergrowth.
26.50	Base of steep descent, bears S.10°E. and W.; desc. gradually over rolling and broken top of bench or shelf.
31.20	Top of nearly perpendicular ledge or rim of bench or shelf, 90 ft. high, bears NW. and SE.; desc. precipitous NE. slope 115 ft.
31.40	Stream of clear alkali water, 4 lks. wide, 4 ins. deep, in the bottom of Cain Wash Gulch, from the E., 165 ft. below the 20.32 chs. point, course NW.; asc. rough, broken SW. slope 80 ft.
39.40	Top of ascent or rim of bench or shelf, bears N.70°W. and S.70°E.; desc. gradually 10 ft. to ¼ sec. cor., over rough and rolling top.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 13 | S 18 1931 from which A cedar, 4 ins. diam., bears S.84°00'E., 73 lks. dist., mkd. ¼ S 18 B T. A pinon pine, 5 ins. diam., bears N.29°30'W., 133 lks. dist., mkd. ¼ S 13 B T.
45.40	Top of nearly perpendicular ledge or rim of bench or shelf, 65 ft. high, 20 ft. below ¼ sec. cor., bears NE. and SW.; desc. abrupt NW. slope 85 ft.
45.60	Stream of clear alkali water, 4 lks. wide, 4 ins. deep, in the bottom of Cain Wash Gulch, course NE.; asc. steep SE. slope 55 ft.
47.40	Top of nearly perpendicular ledge or rim of bench or shelf, 45 ft. high, bears NE. and SW.; asc. gradually 15 ft., over rolling and broken top.
53.70	Leave rolling and broken top of bench or shelf, bears NE. and SW.; begin abrupt ascent of 175 ft., over rough and broken SE. slope to
62.10	Base of a series of broken, sloping, and perpendicular ledges, about 350 ft. high, bears NE. and SW. N. from the base of these ledges, the projection of a line and chaining are impracticable on the remainder of mile, on account of the line passing over a spur, which is rugged with series of high, broken, sloping, and perpendicular ledges; therefore, I describe and give the approximate distances and elevations to topography from the 62.10 chs. point, counting from the cor. of secs. 13, 18, 19, and 24, as follows: From the top of the series of ledges noted at 62.10 chs., asc. precipitous SE. slope, over top of shelf.
73.50	Top of the rugged spur, 800 ft. above the base of the series of ledges noted at 62.10 chs., projects northeast-

U. S. GOVERNMENT PRINTING OFFICE: 1933 6—8155

PORTION OF THE WEST BOUNDARY OF T. 20 S., R. 11 E.

Chains

erly; desc. abruptly 400 ft. to sec. cor., over NW. slope.

To determine the position of the cor. of secs. 7, 12, 13, and 18, I return to the 50.29 chs. point bet. secs. 13 and 18.

Thence, on traverse line,

N.60°00'E., 23.20 chs. dist. At the beginning of course, desc. gradually 15 ft., over rough and broken top of bench or shelf, through scattering timber and undergrowth.

At 2.40 chs., top of broken ledge or rim of bench or shelf, 10 ft. high, bears NE. and SW.; desc. abrupt NW. slope 65 ft.

At 3.00 chs., stream of clear alkali water, 4 lks. wide, 4 ins. deep, in the bottom of Cain Wash Gulch, course N. about 1.50 chs. dist., thence northeasterly; asc. steep SE. slope 185 ft.

At 4.00 chs., top of broken ledge or rim of bench or shelf, 10 ft. high, bears N.60°E. and S.20°W.; asc. gradually along top of rim.

At 10.80 chs., leave rim of bench or shelf, bears northeasterly and southwesterly; asc. more abruptly over NW. slope.

At 23.20 chs., end of course at the top of ascent, bearing northeasterly and southwesterly.

Thence,

N.17°45'W., 26.43 chs. dist. At the beginning of course, desc. abrupt NW. slope 185 ft., through scattering timber and undergrowth.

At 13.40 chs., stream of clear alkali water, 4 lks. wide, 4 ins. deep, in the bottom of Cain Wash Gulch, course N.20°E.; asc. steep SE. slope 80 ft.

At 13.90 chs., top of nearly perpendicular ledge or rim of bench or shelf, 65 ft. high, bears N.20°E. and S.20°W.; asc. precipitous rough and broken SE. slope 250 ft.

At 26.43 chs., end of course in a gap or saddle, about 1.50 chs. in length and bears NE. and SW. bet. high ledges, on top of a rugged and nearly barren spur, projecting northeasterly.

Thence offset,

West, 12.04 chs. dist. At the beginning of course, desc. abruptly 110 ft., over rough and broken NW. slope, through scattering timber and undergrowth.

At 8.70 chs., draw, near head, drains N. about 5 chs. dist., thence W.; asc. E. slope 35 ft.

At 11.40 chs., spur, projects N.25°E. about 8 chs. dist.; desc. NW. slope 5 ft.

Chains

At 12.04 chs., intersect the W. bdy. of the Tp., N.0°01'W. 7.06 chs. dist. from the point for the cor. of secs. 7, 12, 13, and 18.

Thence,

S.0°01'E., 7.06 chs. dist., or at

80.00 Set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 5½ ft. base, 3 ft. high, for cor. of secs. 7, 12, 13, and 18, with brass cap mkd.

T20S

R10E	R11E
S12	S7
S13	S18

1931

All available trees are too scrubby for marking.

Land, rough, broken, and rolling spurs, and tops and sides of benches or shelves; ledges, large boulders, and outcroppings of varied colored sandstone, and conglomerate of varied colored sandstone and volcanic formation; also shale and limestone outcroppings; general drainage northerly by Cain Wash, S. 73.50 chs.; N. 6.50 chs. drain northwesterly into the San Rafael River.

Soil, shallow and rocky red sand and varied colored clays lying on a clay subsoil or on bedrock, 3rd. and 4th. rate. Surface rock exposed on greater portions of benches, shelves, or spurs.

Timber, varies from a sparse to a heavy growth of cedar and pinon pine.

Undergrowth, sparse to a medium dense growth of black brush, shadscale, mountain rush, yellow top, and service berry bushes.

Grazing, sparse to a scattering growth of gramma and bunch grass.

N.0°01'W., bet. secs. 7 and 12.

Desc. abrupt general NW. slope 290 ft., over series of sloping and perpendicular ledges, 10 to 20 ft. high, bearing E. and W., through scattering timber and undergrowth.

5.50 Base of the series of ledges, bears westerly approximately 10 chs. dist., thence southwesterly, and easterly about 5 chs. dist., thence northwesterly.

7.06 W. end of offset line, which was run in establishing the cor. of secs. 7, 12, 13, and 18, 250 ft. below said sec. cor.

13.40 Draw, drains W. approximately 7 chs. dist. into the San Rafael River; asc. 45 ft.

16.30 Top of ascent on SW. slope; desc. gradually 45 ft.

22.20 Draw, drains W.; asc. SW. slope 75 ft. to

30.90 Top of sandstone butte, bears northwesterly about 1 ch.

PORTION OF THE WEST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
	dist. and southeasterly approximately 4 chs. dist.
32.00	Spur, 145 ft. above bottom of draw, projects NW. about 5 chs. dist.; desc. 35 ft. to the witness cor. to the $\frac{1}{4}$ sec. cor., over rough and broken NE. slope.
32.11	Set point for triangulation.
35.00	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, $1\frac{1}{2}$ ft. high, for witness cor. to the $\frac{1}{4}$ sec. cor., with brass cap mkd.

W C
$\frac{1}{4}$
S 12 | S 7
1931

from which

A cedar limb, 4 ins. diam., bears S.32°00'E., 87 lks. dist., mkd. W C $\frac{1}{4}$ S 7 B T.

A cedar, 8 ins. diam., bears S.65°30'W., 90 lks. dist., mkd. W C $\frac{1}{4}$ S 12 B T.

37.50	Base of descent, 115 ft. below the witness cor. to the $\frac{1}{4}$ sec. cor., bears E. and southwesterly; over nearly level dry bottom land of the San Rafael River.
39.80	True point for $\frac{1}{4}$ sec. cor., hereinafter determined, falls on the dry bottom land, where the establishment of a cor. monument is unsafe, on account of high water in the spring of the year and from flood water from cloud bursts; cor. not set.
41.50	S. bank of river channel, 4 ft. high, bears E. and S.70°W.
42.60	San Rafael River, which is a stream of clear alkali water, 80 lks. wide, 3 ft. deep, course easterly about 20 chs. dist., thence northeasterly.
43.20	N. bank of river channel, 4 ft. high, bears E. and S.70°W.
45.00	Leave nearly level dry bottom land of the San Rafael River, bears E. and southwesterly; asc. precipitous general S. slope 1020 ft. to the top of the N. breaks of the San Rafael River gorge.
	From the N. side of the dry river bed, chaining is impracticable, on account of series of high and nearly perpendicular ledges on the sides of a butte and gulch on the N. breaks of the San Rafael River gorge; therefore, I describe and give the approximate distances and elevations to topography on the N. breaks of the river gorge, counting from the cor. of secs. 7, 12, 13, and 18, as follows:
51.00	Top of sandstone butte, 270 ft. high, bears E. about 2.50 chs. dist. and W. approximately 8 chs. dist., 375 ft. above the dry bottom land of the San Rafael River; desc. abrupt N. slope 230 ft.
58.50	Gulch, drains S.70°E.; steep ascent of 875 ft., over nearly perpendicular S. face of ledge.
	To determine the distance bet. secs. 7 and 12, I return

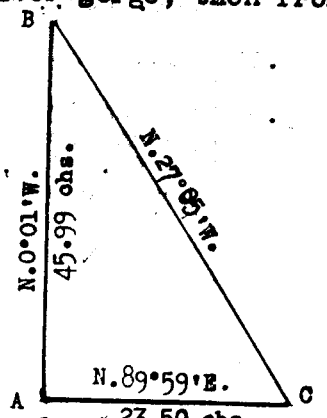
U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

PORTION OF THE WEST BOUNDARY OF T. 20 S., R. 11 E.

Chains

to the 32.11 chs. point, which I designate as point A, and triangulate as follows:

Set a flag B on line on spur or prong of mesa on top of the N. breaks of the San Rafael River gorge; then from point A, measure a base line N.89°59'E. 23.50 chs. dist. to a flag C. From flag C, flag B bears N.27°05'W. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at point A = 90°00'
Angle at flag B = 27°04'
Angle at flag C = 62°56'

Distance from the cor. of secs. 7, 12, 13, and 18 to point A..... = 32.11 chs.
Distance from point A to flag B..... = 45.99 chs.
Distance from the cor. of secs. 7, 12, 13, and 18 to flag B..... = 78.10 chs., or at

78.10 Flag B on spur or prong of mesa on top of the N. breaks of the San Rafael River gorge, projects southeasterly about 1 ch. dist., then slopes or descends abruptly southeasterly approximately 30 chs. dist.; over nearly level top to

79.40 Top of nearly perpendicular ledge or N. rim of mesa, 10 ft. high, bears NW. and SE. about 3 chs. dist., thence southwesterly; desc. abruptly 15 ft. to

79.60 On top of a narrow shelf on the SW. side of a rugged gorge, draining southeasterly, intersect the cor. of secs. 1, 6, 7, and 12, which is an iron post, 2 ins. diam., extending 12 ins. above ground, firmly set in a mound of stone, 3 ft. base, 1 ft. high, correctly marked and witnessed by three bearing trees, one in each of secs. 1, 7, and 12, as described in the official record of the survey of T. 20 S., R. 10 E., Group No. 72.

Land, line crosses the abrupt and rugged sides of the San Rafael River gorge and forks of this gorge; outcroppings, broken, sloping, and perpendicular ledges of varied colored sandstone; conglomerate outcroppings of varied colored sandstone and volcanic formation; also, outcroppings of red and blue limestone and shale; general drainage southeasterly by the San Rafael River.

Soil, shallow and rocky red sand and varied colored clays, lying on a clay subsoil or on bedrock, 3rd. and 4th. rate. Surface rock exposed on portions of mile. Red sand and red sandy loam, several ft. deep, on the bottom land of the San Rafael River, 1st. rate.

Timber, sparse to a scattering growth of cedar and pinon pine; scattering and groves of cottonwood grow along the bottom land of the San Rafael River.

Undergrowth, sparse to a medium dense growth of black brush, shadscale, mountain rush, yellow top, and service berry bushes; dense willows, squaw bushes, greasewood, and rabbit brush are found along the bottom land of the San Rafael River.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

PORTION OF THE WEST BOUNDARY OF T. 20 S., R. 11 E.

Chains	
	Grazing, sparse to a scattering growth of gramma and bunch grass. Dense salt grass grows on the dry river bed.

ESTABLISHMENT OF LOT CORNER BETWEEN SECTIONS 1 AND 6 ON WEST BOUNDARY OF T. 20 S., R. 11 E.

Commence at the closing cor. of Tps. 20 S., Rs. 10 and 11 E., which is an iron post, 3 ins. diam., extending 2½ ft. above ground, firmly set in a mound of stone, 4½ ft. base, 2 ft. high, correctly marked and witnessed by bearing trees as described in the official record of the survey of T. 20 S., R. 10 E., Group No. 72.

South, on a true line bet. secs. 1 and 6, along the W. bdy. of T. 20 S., R. 11 E.

1.90 Northing of 84.89 chs. from the cor. of secs. 1, 6, 7, and 12, set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 6 ft. base, 2 ft. high, for witness cor. to the cor. of lots Nos. 4 and 5, sec. 6, and lots Nos. 1 and 8, sec. 1, with brass cap mkd.

S 1 — 1 | 4 — S 6
8 | 5
WC
1933

At the base of the monument, I deposit a limestone, 8x4x1 ins., marked with a cross (X).

All trees within a reasonable distance are too scrubby for marking.

6.79 Northing of 80.00 chs. from the cor. of secs. 1, 6, 7, and 12, true point for cor. of lots Nos. 4 and 5, sec. 6, and lots Nos. 1 and 8, sec. 1, falls on surface rock on the steep S. side of a gorge, where the establishment of a cor. monument or the marking of a cross (X) are impracticable. Surface rock is exposed almost entirely on the sides of the gorge, which heads N.60°E. about 6 chs. dist. from the true point, and drains westerly.

SUBDIVISION OF T. 20 S., R. 11 E.

Commence the subdivisional survey at the standard cor. of secs. 35 and 36, on the S. bdy. of the Tp., hereinbefore described.

N.0°01'W., bet. secs. 35 and 36.

Over gently rolling top of bench, through scattering timber and undergrowth; desc. 5 ft. along gradual N. slope.

2.50 N. edge of bench, bears E. and W.; steep descent of 150 ft., over N. slope.

9.80 Wash, 40 lks. wide, 3 ft. deep, in the bottom of a main hollow, drains E.; asc. 45 ft.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	Remarks
19.30	Top of ascent, bears E. and W.; desc. gradually 55 ft. ¼ sec. cor., over N. slope.
26.70	Head of wash, 60 lks. wide, 12 ft. deep, drains NE. ab 3 chs. dist., thence northerly.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in t ground, for ¼ sec. cor., with brass cap mkd. ¼ S 35 | S 36 1930 raise a moun of stone, 4 ft. base, 4 ft. high, W. of cor.
42.00	Wash, 70 lks. wide, 10 ft. deep, in the bottom of hollow, 10 ft. below ¼ sec. cor., drains N.10°E. about 1 ch. dist., thence NE.; asc. 10 ft.
42.20	Spur, slopes NE. about 50 lks. dist.; desc. 15 ft.
42.80	Wash, 10 lks. wide, 10 ft. deep, in the bottom of draw, drains NE.; asc. 45 ft.
50.00	Top of ascent, bears E. and W.; desc. 40 ft.
55.20	Wash, 50 lks. wide, 10 ft. deep, in the bottom of draw, drains E. about 2 chs. dist., thence northeasterly; asc. 10 ft.
56.20	Top of ascent, bears E. and W.; desc. 10 ft.
57.80	Wash, 60 lks. wide, 7 ft. deep, in the bottom of hollow, drains SE. approximately 3 chs. dist., thence northeasterly; asc. 20 ft. to
74.60	On gradual S. slope, set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for witness cor. to the cor of secs. 25, 26, 35, and 36, with brass cap mkd. WC T20S | R11E S26 | S25 S35 | S36 1930 raise a mound of stone, 5 ft. base, 3½ ft. high, W. of cor.
74.80	Spur, 5 ft. above the witness cor. to the cor. of secs. 25, 26, 35, and 36, slopes E. about 2 chs. dist.; desc. N. slope 25 ft. to
80.00	True point for the cor. of secs. 25, 26, 35, and 36, fall in bottom of wash, 40 lks. wide, 3 ft. deep, in the bott of draw, draining easterly. From the true point for cor. of secs. 25, 26, 35, and 36 to the top of the Window Blind Peak, the bearing is S.87°W., and the vertical angle is 32°35'. Land, gently rolling top of bench, S. 2.50 chs.; rollin rough, and broken, draining generally to the E., N. 77. chs.; limestone outcroppings. Soil, shallow and rocky red sand or light colored clay, lying on alternate layers of varied colored clays or shale or bedrock, 2nd. to 3rd. rate.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Timber, a few scattering scrubby cedar.
	Undergrowth, mountain rush, shadscale, yellow top, and white sagebrush.
	Grazing, poor to fair growth of gramma and bunch grass.
	From the true point for the cor. of secs. 25, 26, 35, and 36,
	East, on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the E. bdy. of the Tp., 4 lks. S. of the cor. of secs. 25, 30, 31, and 36, hereinbefore described.
	Thence,
	S.89°58'W., on a true line bet. secs. 25 and 36.
	Over rolling, rough, and broken land, through scattering timber and undergrowth; desc. 15 ft. along N. slope.
7.40	Wash, 30 lks. wide, 6 ft. deep, in the bottom of gulch, drains NE.; asc. 25 ft.
10.40	Spur, slopes NE. about 50 lks. dist.; desc. 5 ft.
15.90	Wash, 15 lks. wide, 4 ft. deep, in the bottom of draw, drains NE.; asc. 10 ft.
21.30	Spur, slopes NE. about 50 lks. dist.; desc. 15 ft.
24.50	Leave timber.
26.50	Wash, 50 lks. wide, 3 ft. deep, in the bottom of draw, drains NE.; asc. gradual SE. slope 50 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 25 / S 36 1930
	from which
	A cedar limb, 5 ins. diam., bears S.76°30'W., 548 lks. dist., mkd. ¼ S 36 B T.
	A cedar limb, 5 ins. diam., bears N.75°30'W., 519 lks. dist., mkd. ¼ S 25 B T.
41.00	Enter scattering timber.
63.80	Top of ascent, 30 ft. above ¼ sec. cor., bears NE. and SW.; desc. 10 ft.
64.80	Wash, 50 lks. wide, 3 ft. deep, in the bottom of draw, from the W., drains NE.; asc. gradually 40 ft., along the bottom of the wash to
80.00	The true point for the cor. of secs. 25, 26, 35, and 36.
	Land, rolling, rough, and broken by washes draining north-

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	easterly into the main wash which is noted at 64.80 chs. thence easterly; limestone, shale, and sandstone outcroppings.
	Soil, shallow and rocky red sand or varied colored clays lying on a clay subsoil or on shale or bedrock, 2nd. to 4th rate.
	Timber, cedar.
	Undergrowth, yellow top, shadscale, and mountain rush.
	Grazing, poor to fair growth of gramma and bunch grass.
	From the true point for the cor. of secs. 25, 26, 35, and 36,
	N.0°01'W., bet. secs. 25 and 26.
	Asc. rough and broken general S. slope 230 ft., over numerous washes, draws, and spurs, putting to the SE., through scattering timber and undergrowth.
3.00	Ascent becomes more abrupt.
3.20	Leave timber.
15.10	Narrow spur, projects easterly approximately 30 chs. dist.; desc. abrupt general NE. slope 230 ft., over numerous washes, draws, and spurs, putting to the NE.
29.00	Draw, drains E.; asc. 25 ft.
31.00	Spur, slopes E. about 2 chs. dist.; desc. 40 ft.
31.20	Enter scattering timber.
33.30	Draw, drains SE. approximately 3 chs. dist., thence easterly; asc. 35 ft.
37.10	Spur, slopes E. about 3 chs. dist.; desc. gradual N. slope 5 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 26 | S 25

1930

raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.

There are no trees within a reasonable distance suitable for marking.

41.00	Leave timber.
41.10	Draw, 20 ft. below ¼ sec. cor., drains E.; asc. abrupt general SE. slope 295 ft., over numerous washes, small draws, and spurs, putting to the SE.
63.80	Rugged spur, from Window Blind Peak, projects northeasterly; desc. steep general NW. slope 480 ft. to

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
80.00	True point for the cor. of secs. 23, 24, 25, and 26, falls on a steep barren slope, where the soil is loose and breaking away, making the establishment of a cor. monument unsafe and impracticable.
82.40	At the base of steep descent, bearing NE. and SW., 70 ft. below the true point for sec. cor., set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for witness cor. to the cor. of secs. 23, 24, 25, and 26, with brass cap mkd.

T20S | R11E
S23 | S24
S26 | S25
W C
1950

raise a mound of stone, 3½ ft. base, 2 ft. high, W. of cor.

Land, broken and rough with large boulders, sliderock, and outcroppings of varied colored sandstone and shale formation; general drainage southeasterly by the San Rafael River; S. 63.80 chs. drain southeasterly and remainder of mile drains northeasterly.

Soil, shallow and rocky red sand and alternate layers of shale and varied colored clays, lying on loose shale or on bedrock, 3rd. and 4th. rate.

Timber, cedar.

Undergrowth, sparse to scattering yellow top, shadscale, and mountain rush.

Grazing, scattering growth of bunch grass.

From the true point for the cor. of secs. 23, 24, 25, and 26,

N.89°58'E., on a random line bet. secs. 24 and 25.

40.00	Set temp. ¼ sec. cor.
79.98	Intersect the E. bdy. of the Tp., 7 lks. N. of the cor. of secs. 19, 24, 25, and 30, hereinbefore described.

Thence,

N.89°59'W., on a true line bet. secs. 24 and 25.

Desc. 25 ft. along SW. slope of spur, projecting northwesterly about 15 chs. dist., over rolling, rough, and broken land, through scattering timber and undergrowth.

6.10	Top of broken and sloping bluff, 85 ft. high, bears NW. and SE., on E. edge of bottom land of the San Rafael River.
9.40	Foot of the bluff, bears NW. and SE.; over nearly level and gently rolling bottom land.
16.00	Top of ascent, 15 ft. above foot of bluff, bears N. and S.; leave timber; desc. 40 ft.
16.50	Wash, 30 lks. wide, 6 ft. deep, in the bottom of draw, drains SE. about 1.50 chs. dist. into the San Rafael

SUBDIVISION OF T. 20 S., R. 11 E.

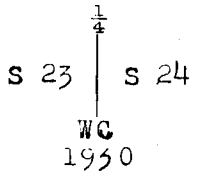
Chains	
	River; asc. 75 ft.
24.40	Old wagon road, bears NW. to Castle Dale and Huntington, Utah and SE. to a prospect oil well in sec. 25, T. 20 S., R. 11 E.
26.50	Top of ascent, bears N. and S.; desc. 25 ft.
30.60	Enter a grove of cottonwood timber, bears N. and S.
32.60	Leave grove of timber, bears N. and S.
37.00	San Rafael River, a stream of clear alkali water, 100 lks. wide, 3 to 4 ft. deep, course southeasterly.
38.00	Top of broken and nearly perpendicular ledge or bluff, 55 ft. high, bears NW. and SE., and forms the W. bank of the river and W. edge of the bottom land; asc. gradual E. slope 20 ft.
38.40	Spur, slopes N. about 50 lks. dist.; desc. NW. slope 15 ft. to
39.99	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 24 / S 25 1930 At the base of the monument, I deposit a sandstone, 8x4x2 ins., marked with a cross (X).
43.10	Wash, 15 lks. wide, 2 ft. deep, in the bottom of gulch, 45 ft. below ¼ sec. cor., drains NE.; asc. gradually 320 ft., over E. and NE. slopes.
73.30	Spur, projects N. approximately 7 chs. dist.; desc. general NW. slope 55 ft. to
79.98	The true point for the cor. of secs. 23, 24, 25, and 26.
	Land, rolling, rough, and broken, draining westerly and easterly into the San Rafael River, thence southeasterly; outcroppings, ledges, and rims of varied colored sandstone, shale, and quartzite.
	Soil, shallow, rocky, and gravelly red and light colored sand, and alternate layers of shale and varied colored clays, lying on loose shale or on bedrock, 3rd. and 4th. rate. Red sandy loam, several ft. deep, on the bottom land of the San Rafael River, 1st. rate.
	Timber, a few scattering cedar; scattering and groves of cottonwood along the banks of the San Rafael River.
	Undergrowth, yellow top, shadscale, and mountain rush; dense growth of willows, squaw bushes, greasewood, and rabbit brush on the bottom land of the San Rafael River.
	Grazing, gramma and bunch grass, fair growth E. of river, poor grazing W. of stream.

From the true point for the cor. of secs. 23, 24, 25, and 26,

U. S. GOVERNMENT PRINTING OFFICE: 1931 8—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	N.0°01'W., bet. secs. 23 and 24.
	Desc. abrupt and barren NW. slope to
2.40	Intersect the witness cor. to the cor. of secs. 23, 24, 25, and 26.
	Thence, over land broken by rims and washes, through scattering timber and undergrowth.
20.30	Wash, 120 lks. wide, 6 ft. deep, in the bottom of draw, 105 ft. below the witness cor. to the cor. of secs. 23, 24, 25, and 26, drains NW. about 8 chs. dist., thence northeasterly; asc. 30 ft.
24.40	Spur, projects NE.; desc. gradual NW. slope 80 ft. to
40.00	True point for ¼ sec. cor. falls on the S. edge of a wash, 50 lks. wide, 5 ft. deep, in the bottom of a draw, draining E. about 1 ch. dist., thence northeasterly, where the establishment of a cor. monument is impracticable.
42.29	On a S. slope, 20 ft. above the true point for ¼ sec. cor., set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the ¼ sec. cor., with brass cap mkd.



raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.

There are no trees within a reasonable distance suitable for marking.

50.30	Spur, 30 ft. above the witness cor. to the ¼ sec. cor., slopes E. about 1.50 chs. dist.; desc. 70 ft.
56.30	Wash, 75 lks. wide, 40 ft. deep, in the bottom of draw, drains NE. approximately 3 chs. dist. into the San Rafael River; asc. 40 ft.
59.50	Spur, slopes E. about 2.50 chs. dist.; desc. 40 ft.
60.10	Top of broken and nearly perpendicular ledge, 35 ft. high, bears NW. and SE., and forms the right bank of the San Rafael River, which is a stream of clear alkali water, 100 lks. wide, 3 to 4 ft. deep, draining southeasterly; over nearly level dry river bed from the N. edge of the stream.
64.80	Recross San Rafael River, stream 120 lks. wide, 3 ft. deep, course SW.
75.80	Enter a scattering growth of cottonwood timber.
80.00	True point for the cor. of secs. 13, 14, 23, and 24, falls on the San Rafael dry river bed, near the S. edge of the stream, making the establishment of a cor. monument unsafe and impracticable.
89.90	On bottom land along the San Rafael River, set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for witness cor. to the cor. of secs. 13, 14, 23, and 24, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

T20S	R11E
S14	S13
S23	S24

WC
1930

from whi

A cottonwood, 10 ins. diam., bears N.1°15'E., 150 lks. dist., mkd. W C T 20 S R 11 E S 13 B T.

A cottonwood, 12 ins. diam., bears S.81°30'W., 87 lks. dist., mkd. W C T 20 S R 11 E. S 14 B T.

A cottonwood, 10 ins. diam., bears N.51°30'W., 214 lks. dist., mkd. W C T 20 S R 11 E S 14 B T.

There are no trees available in the SE. quadrant, suita for marking; therefore, at the base of the monument, I deposit a sandstone, 14x7x1½ ins., marked with a cross (

From this cor., the middle of the door of Paul Judd's log cabin, 15x18½ ft., bears N.19°12'W. 8.56 chs. dist.; and from this cor., the top of Window Blind Peak bears S.13°45'W., and the top of Assembly Hall Peak bears S.47°45'W.

Land, rough, and broken by rims and washes, draining NE., and rims, ledges, and outcroppings of shale and varied colored sandstone formation, S.60.10 chs.; nearly level dry river bed, draining SE., N. 19.90 chs.

Soil, shallow, rocky, and gravelly red and light colored sand, and alternate layers of shale and varied colored clays, lying on loose shale or on bedrock, 3rd. and 4th. rate. Red sand and sandy loam, several ft. deep on the dry river bed, 1st. rate.

Timber, a few scattering cedar; scattering and groves of cottonwood grow along the banks of the San Rafael River.

Undergrowth, yellow top, shadscale, mountain rush, and service berry bushes; dense growth of willows, squaw bushes, greasewood, and rabbit brush on the bottom land of the river.

Grazing, poor to fair growth of gramma and bunch grass, on S. 60.10 chs.; dense salt grass and weeds on the botto land.

From the true point for the cor. of secs. 13, 14, 23, and 24,

S.89°59'E., on a random line bet. secs. 13 and 24.

40.00 Set temp. ¼ sec. cor.

59.0 Base of rugged breaks of mountain, 135 ft. above temp. ¼ sec. cor. and about 1000 ft. below the inaccessible true point for the cor. of secs. 13, 18, 19, and 24, on the W. bdy. of the Tp., bears NW. and SE.

E. from this point, the projection of a line and chaini are impracticable, on account of large boulders, and s of high, broken, sloping, and perpendicular ledges on t N. and NW. faces of a barren sandstone spur.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Therefore, to determine the remaining distance by triangulation is impracticable, and as there is no suitable place to offset S.89°59'E. of the temp. ¼ sec. cor., I return to said cor., and offset as follows:
	S.0°01'E., 7.76 chs. dist.; then, on the offset line:
	S.89°59'E. 39.96 chs. dist. At the end of course, intersect the E. bdy. of the Tp., 13 lks. S. of the witness cor. to the cor. of secs. 13, 18, 19, and 24, hereinbefore described.
	Thence, from said witness cor.,
	S.89°55'W., 39.98 chs. dist. on true offset line.
	At the beginning of course, desc. abrupt rugged general SW. slope 640 ft., over numerous washes, small spurs, and draws, putting to the SW., through scattering timber and undergrowth.
	At 9.90 chs., top of broken and nearly perpendicular ledge, 120 ft. high, bears NW. and SE.
	At 26.50 chs., wash, 100 lks. wide, 15 ft. deep, drains SW.
	At 39.98 chs., end of course.
	Thence offset,
	N.0°01'W., 7.76 chs. dist. to true line, 20 ft. below the W. end of offset line, and at
39.98	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 13 / S 24 1930
	from which
	A cedar limb, 8 ins. diam., bears S.45°30'E., 81 lks. dist., mkd. ¼ S 24 B T.
	A cedar, 9 ins. diam., bears N.54°45'W., 86 lks. dist., mkd. ¼ S 13 B T.
	Thence,
	S.89°55'W., on a true line bet. secs. 13 and 24.
	Desc. gradual NW. slope 10 ft., through scattering timber and undergrowth.
42.80	A main wash, 30 lks. wide, 3 ft. deep, in the bottom of hollow, drains SW.; asc. 35 ft.
45.10	Spur, slopes S. about 1 ch. dist.; desc. 10 ft.
47.10	Draw, drains S.; asc. 10 ft.
50.50	Old wagon road, bears northwesterly to Castle Dale and Huntington, Utah and southeasterly to Mexican Bend.
51.20	Spur, slopes S. about 1 ch. dist.; desc. 25 ft.

U. S. GOVERNMENT PRINTING OFFICE: 1941 0—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
52.30	Same road as noted at 50.50 chs., bears N.20°E. and S.20°W.
53.90	Wash, 15 lks. wide, 4 ft. deep, in the bottom of draw, drains SW.; asc. 20 ft.
54.90	Top of ascent, bears N. and S.; desc. 65 ft.
64.70	Gulch, from SE., drains southwesterly; asc. 45 ft.
67.20	Spur, slopes SW. about 1 ch. dist.; desc. 15 ft.
68.50	Draw, drains SW.; asc. 15 ft.
70.50	Spur, projects southwesterly approximately 7 chs. dist.; leave timber; desc. gradual W. slope 10 ft. to
74.30	Top of broken and nearly perpendicular ledge, 60 ft. high, bears N. and S., and forms the left bank of the San Rafael River, which is a stream of clear alkali water, 4 to 5 ft. deep, draining from N.80°W. to the SE.
75.80	W. edge of the stream, bears N.80°W. and SE.; over nearly level dry river bed to
79.96	The true point for the cor. of secs. 13, 14, 23, and 24, 80 ft. below the top of ledge, forming the left bank of the stream.
	Land, abrupt general SW. face or breaks of mountain, which is rugged with large boulders, sliderock, and series of broken, sloping, and perpendicular ledges, E. 20.96 chs.; rolling, rough, and broken by washes, draws, hollows, spurs, and narrow benches, putting to the SW., from 20.96 chs. to 74.30 chs.; San Rafael River bed, remainder of mile; shale, quartzite, conglomerate of sandstone and volcanic formation, and varied colored but mostly red sandstone; drainage southwesterly into the San Rafael River, thence southeasterly.
	Soil, shallow, rocky, and gravelly red and light colored sand, and alternate layers of shale and varied colored clays, lying on loose shale or on bedrock, 3rd. and 4th. rate. Deep red sand on the dry river bed, 2nd. rate.
	Timber, cedar; scattering and groves of cottonwood grow along the banks of the San Rafael River.
	Undergrowth, yellow top, shadscale, mountain rush, and service berry bushes; dense growth of willows, squaw bushes, greasewood, and rabbit brush on the bottom land of the river.
	Grazing, fair growth of gramma and bunch grass on the rolling and broken spurs and benches.
	From the true point for the cor. of secs. 13, 14, 23, and 24,
	N.0°01'W., bet. secs. 13 and 14.
	Over nearly level dry and barren river bed.
0.20	S. edge of the San Rafael River, which is a stream of clear alkali water, 4 ft. deep, course southeasterly.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
1.30	N. edge of the stream; enter a dense growth of young willows, bears NW. and SE.
9.70	Left bank of San Rafael dry river bed, 8 ft. high, bears E. and W.; leave willows, enter a dense growth of rabbit brush and greasewood, bears E. and W.; over nearly level bottom land, through a grove of cottonwood timber.
9.90	Intersect the witness cor. to the cor. of secs. 13, 14, 23, and 24.
16.40	Leave grove of cottonwood timber, bears E. and W., and enter a sparse growth of cedar.
18.20	Leave undergrowth of rabbit brush and greasewood, bears E. and W., and enter scattering yellow top, shadscale, mountain rush, and service berry bushes.
21.60	Old wagon road, bears E. to Mexican Bend and W. to Castle Dale and Huntington, Utah.
23.60	Leave bottom land, 25 ft. above the true point for the cor. of secs. 13, 14, 23, and 24, bears E. and W.; asc. gradual S. slope 70 ft.
29.70	Top of broken and nearly perpendicular ledge, 30 ft. high, bears SE. and SW.; begin precipitous ascent of 200 ft. to $\frac{1}{4}$ sec. cor., over rugged S. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to bedrock, and in a mound of stone, $5\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 14 | S 13

1930

All available trees are too scrubby for marking; therefore, at the base of the monument, I deposit a sandstone, 10x6x1 ins., marked with a cross (X).

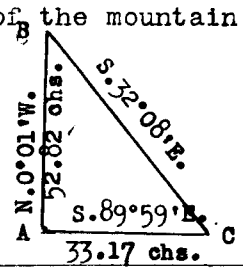
43.10	Base of broken ledge, about 60 ft. high, bears NW. and SE.
	N. from this ledge, the slope becomes very steep, the vertical angle being more than 40°, and at
47.50	Approximate distance to the base of a series of two nearly perpendicular ledges, each about 750 ft. high, bearing NW. and SE.

Therefore, chaining is impracticable, so I return to the $\frac{1}{4}$ sec. cor. bet. secs. 13 and 14.

Thence, measure

S0°01'E. 40.00 chs. dist. to the true point for the cor. of secs. 13, 14, 23, and 24, which I designate as point A, and triangulate as follows:

Set a flag B on line on top of the rim of the mountain on the N. breaks of the San Rafael River. From flag B, a flag C set at a transit point at 33.17 chs. on the random line bet. secs. 13 and 24, bears S.32°08'E. All bearings are checked by direct reading of the solar, and all angles



SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	are determined by deflection by three repetitions, with the closing error balanced to 180°.
	Angle at point A = 90°02' Angle at flag B = 32°07' Angle at flag C = 57°51'
	Distance from point A or the true point for the cor. of secs. 13, 14, 23, and 24 to flag B is 52.82 chs., or at
52.80	Top of the series of the two ledges approximately noted at 47.50 chs., or rim of the mountain on the N. breaks of the San Rafael River, 1545 ft. above ¼ sec. cor., bears N.70°W. and S.70°E.; desc. gradually 25 ft., over nearly level top of surface rock, through a medium to a heavy growth of cedar and pinon pine timber and scattering undergrowth of yellow top, shadscale, and mountain rush.
68.50	Rim of mountain or gulch, bears northeasterly and southwesterly; timber becomes scattering and bears same as rim; desc. abruptly 55 ft., along rugged W. side of gulch to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 5½ ft. base, 2 ft. high, for cor. of secs. 11, 12, 13, and 14, with brass cap mkd.

T20S | R11E	
S11	S12
S14	S13

1930

All available trees are not suitable for marking; therefore, at the base of the monument, I deposit a sandstone, 8x5x1 ins., marked with a cross (X).

Land, nearly level bottom land of the San Rafael River, S. 23.60 chs.; steep and rugged with outcroppings, large boulders, sliderock, and perpendicular ledges on the San Rafael River breaks, from 23.60 chs. to 52.80 chs.; gentle N. slope or nearly level top of surface rock, from 52.80 chs. to 68.50 chs.; rugged W. side of gulch, remainder of mile; principally red and light colored sandstone, some shale, quartzite, and conglomerate of sandstone and volcanic formation; general drainage southeasterly by the San Rafael River, S. 52.80 chs.; drainage N. into a S. fork of Cow Canyon, N. 27.20 chs.

Soil, shallow and rocky red and light colored sand, and alternate layers of shale and varied colored clays, lying on loose shale or on bedrock, 3rd. and 4th. rate; shallow red sand in places on N. 27.20 chs.; red sand and sandy loam, several ft. deep, on the bottom land, 1st. rate.

Timber, cedar and pinon pine; scattering and groves of cottonwood on the bottom land of the San Rafael River.

Undergrowth, rabbit brush, greasewood, willows, yellow top, shadscale, and mountain rush.

Grazing, dense growth of salt grass on the bottom land; fair to good grazing of bunch grass on the N. 27.20 chs.

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SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
..	N.89°55'E., on a random line bet. secs. 12 and 13.
7.72	Set offset point on top of narrow bench or mesa.
9.50	E. rim of bench or mesa, which is also W. edge of gorge.

E. from this point for a distance of approximately 65 chs., the line crosses several deep gorges and chasms, making chaining and the establishment of a temp. ¼ sec. cor. impracticable. And, as there are no suitable locations for base lines for triangulation, it is necessary to use a portion of the E. bdy. of the Tp., bet. secs. 13 and 18, as a base line. But, no part of the E. bdy. of the Tp. can be seen from the random line on top of this bench or mesa, so I return to the 7.72 chs. point.

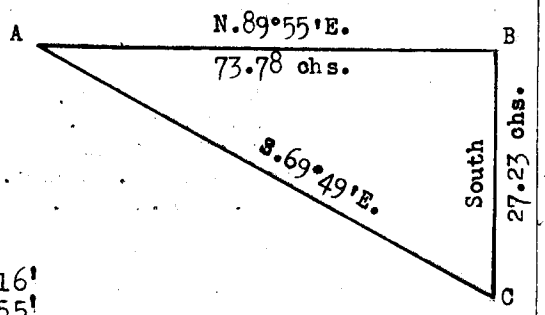
Thence, on traverse line,

S.9°45'W., 8.60 chs. dist. to a point where a flag can be seen, that was previously set at the 44.41 chs. point bet. secs. 13 and 18, on the E. bdy. of the Tp. From this point, I determine the remaining distance by triangulation.

Thence,

N.89°55'E., on offset line.

I designate the S. end of the traverse line as point A, and set a flag B at the intersection of the offset line with the E. bdy. of the Tp., bet. secs. 13 and 18, and call the flag at the 44.41 chs. point bet. secs. 13 and 18, on the E. bdy. of the Tp., as flag C. From point A flag C bears S.69°49'E. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at point A = 20°16'
Angle at flag B = 89°55'
Angle at flag C = 69°49'

From the cor. of secs. 11, 12, 13, and 14, point A has a southing of 8.47 chs. and an easting of ..... 6.26 chs.
Distance from point A to flag B.....73.78 chs.
or at 80.04 chs., intersect the E. bdy. of Tp. 80.04 chs.

Thence, offset

North, 8.36 chs. dist. to the cor. of secs. 7, 12, 13, and 18, on the E. bdy. of the Tp., hereinbefore described.

Thence,

West, on a true line bet. secs. 12 and 13.

Offset,

South, 8.36 chs. dist. At the beginning of course, asc. precipitous, rugged and barren, general NE. slope 55 ft.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

At 3.70 chs., top of abrupt ascent, bears NW. and SE.; asc. gradually 25 ft., over rough and broken top of narrow bench or mesa, through a sparse growth of timber and undergrowth.

At 8.36 chs., flag B at end of offset.

Thence, on offset line,

West, 73.78 chs. dist. As the true line bet. secs. 12 and 13, runs parallel and within a few chains dist. of this offset line, the position of the topography on the true line practically agrees with the position of the topography on the offset.

At the beginning of course, over nearly level top of surface rock, on narrow bench or mesa, through scattering timber and undergrowth.

At 2.90 chs., a circular water tank in the sandstone surface rock, 50 lks. in diam., 3 ft. deep, bears north 2.00 chs. dist.

At 5.10 chs., a water tank in the sandstone surface rock, 100 lks. in length, 50 lks. wide, 5 ft. deep, bears south 1.80 chs. dist.; the two water tanks just noted above contain water during the rainy seasons and in the winter months.

At 5.50 chs., top of nearly perpendicular red sandstone ledge or W. rim of bench or mesa, about 250 ft. high, bears NE. and SW.; precipitous descent of about 700 ft., over NW. slope.

At 22.00 chs., approximately bottom of gorge or canyon, near head, drains southwesterly; asc. abrupt SE. slope about 200 ft. to the top of ascent on S. slope. The 40.02 chs. point, which is south 8.36 chs. dist. from the true point for the ¼ sec. cor., bet. secs. 12 and 13, falls on this slope.

On account of the line bet. secs. 12 and 13 crossing an almost impassable country, it is impracticable to establish the ¼ sec. cor. of secs. 12 and 13 by traversing, offsetting, or triangulation; therefore, I return to the ¼ sec. cor. bet. secs. 13 and 24.

Thence,

N. 0°0'30" W., parallel to the east and west boundaries of sec. 13.

At 71.58 chs., if it were practicable, this line would intersect the offset line to the true line bet. secs. 12 and 13.

At 76.50 chs., on an abrupt S. slope, 180 ft. above the 71.58 chs. point, set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, 1 ft. high, for witness cor. to the ¼ sec. cor., with brass cap mkd.

WC
¼ S 12
S 13
1930

At the base of the monument, I deposit a sandstone, 12x8x2 ins., marked with a cross (X).

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	raise a mound of stone, 4 ft. base, 3½ ft. high, N. of cor.
	At 79.94 chs., the true point for the ¼ sec. cor. of secs. 12 and 13, which is about 650 ft. above the witness cor., falls on top of a nearly perpendicular red sandstone ledge or dome, about 600 ft. high, bearing northeasterly and southwesterly. It is impracticable to establish a cor. monument or make a cross (X) at the true point.
	Thence, from the witness cor. to the ¼ sec. cor. of secs. 12 and 13, rechain
	S.0°0'30"E., 76.50 chs. dist. to the ¼ sec. cor. bet. secs. 13 and 24.
	Then, I return to the 40.02 chs. point on the offset line bet. secs. 12 and 13,
	Thence,
	West At 47.00 chs., approximately, bottom of gorge or canyon, about 150 ft. below top of ascent on S. slope, drains southeasterly; asc. precipitous E. slope about 1000 ft.
	At 72.30 chs., top of nearly perpendicular red sandstone ledge or E. rim of bench or mesa, about 300 ft. high, bears northeasterly and southwesterly; asc. gradually 10 ft., over nearly level top.
	At 73.78 chs., end of offset line; triangulation point A bears south 11 lks. dist.
	Thence, on traverse line,
	N.9°45'E., 8.48 chs. dist. At the beginning of course, asc. gradually 15 ft., over nearly level top, through a heavy growth of timber and scattering undergrowth.
	At 8.48 chs., intersect the true line bet. secs. 12 and 13, at the end of course; the point of offset on the random line bears N.9°45'E. 1 lk. dist.
	Thence, on true line,
	West, 7.70 chs. dist. At the beginning of course, over nearly level top, through a heavy growth of timber and scattering undergrowth.
73.50	Top of sloping white sandstone ledge or W. rim of bench or mesa, 155 ft. high, bears N. and S.; precipitous descent to
74.40	Base of the ledge, bears N. and S.; desc. gradual W. slope 10 ft.
76.40	Wash, 100 lks. wide, 10 ft. deep, in the bottom of gulch, drains N.; asc. E. slope 110 ft. to
80.04	The cor. of secs. 11, 12, 13, and 14.
	Land, deep gorges, chasms, canyons, and gulches; rugged with large boulders, sliderock, and broken, sloping, and perpendicular ledges of varied colored sandstone, and conglomerate of sandstone and volcanic formation; also shale

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	outcroppings; drainage to the NW. by Pine Canyon, E. 5.50 chs.; W. 6.54 chs. drain N. into a fork of Cow Canyon; remainder of mile drains generally to the S. into the San Rafael River. Soil, shallow red sand, lying on alternate layers of varied colored clays and shale, or on bedrock, 4th. rate. surface rock exposed on greater portions of mile. Timber, cedar and pinon pine; a few scattering yellow pine on E. ½ mile. Undergrowth, black brush, mountain rush, service berry bushes, shadscale, and yellow top. Grazing, a sparse to scattering growth of bunch grass.
	N.0°01'W., bet. secs. 11 and 12. Desc. 70 ft. along W. side of rugged gulch, through a heavy growth of timber and scattering undergrowth.
28.00	Line descends abrupt and barren N. slope, over a series of high, broken, sloping, and perpendicular ledges, bearing northeasterly and northwesterly. N. from this point, chaining is impracticable on true line on the remainder of mile, owing to series of high ledges, crags, domes, and pillars; therefore, I offset West, 11.35 chs. dist. At the beginning of course, asc. E. slope 60 ft., over almost entirely sandstone surface, through a medium heavy growth of timber and sparse undergrowth. At 11.35 chs., end of offset. Thence, on offset line, N.0°01'W., 12.00 chs. dist. At 1.60 chs., leave medium heavy growth of timber, bears NW. and SE., and enter scattering. At 1.80 chs., top of nearly perpendicular ledge or rim of spur, 80 ft. high, bears NW. and SE.; precipitous descent of 350 ft., over general NE. slope. At 12.00 chs., end of course. Thence, offset East, 8.02 chs. dist. to the witness cor. to the ¼ sec. cor. At the beginning of course, desc. abrupt NE. slope 50 ft. At 5.30 chs., gulch, drains N.20°W.; steep ascent of 65 ft., over W. slope. At 8.02 chs., the end of course, set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to solid rock, and in a mound of

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

stone, 6 ft. base, 2½ ft. high, for witness cor. to the ¼ sec. cor., with brass cap mkd.

¼
S 11 | S 12 WC
1933

At the base of the monument, I deposit a sandstone, 5x4x2 ins., marked with a cross (X); all available trees are too scrubby for marking.

East 3.33 chs. dist. from the witness cor., the true point for the ¼ sec. cor. falls on the steep, rough W. slope, which is breaking and crumbling away, making the establishment of a cor. monument impracticable.

Thence, on traverse line, from the witness ¼ sec. cor.,

N.10°45'W., 43.00 chs. dist. At the beginning of course, desc. abruptly 405 ft. along W. slope.

At 14.00 chs., bottom of same gulch as noted at 5.30 chs. on the last offset, drains from N.20°W. to NW.; steep ascent of 135 ft., over SW. slope.

At 23.70 chs., rugged, narrow spur, projects northwesterly approximately 8 chs. dist.; desc. abruptly 445 ft.

At 32.90 chs., wash, 30 lks. wide, 5 ft. deep, in the bottom of gulch, drains northwesterly; asc. steep SW. slope 220 ft.

At 37.60 chs., rugged spur, projects W. about 1 ch. dist., then slopes SW. approximately 5 chs. dist.; desc. 35 ft., along general SW. slope.

At 43.00 chs., end of course.

Thence, on traverse line,

S.78°47'E. 11.57 chs. At the beginning of course, asc. precipitous, rough, general SW. slope 360 ft. to the witness cor. to the cor. of secs. 1, 2, 11, and 12.

At 6.70 chs., top of broken and nearly perpendicular sandstone ledge, 50 ft. high, bears NW. and S. about 4 chs. dist., thence westerly.

At 9.10 chs., on top of ascent on general SW. slope, set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, 7 ft. base, 2½ ft. high, for witness cor. to the cor. of secs. 1, 2, 11, and 12, with brass cap mkd.

T20S | R11E
S2 | S1 WC
S11 | S12
1933

At the base of the monument, I deposit a sandstone, 7x5x2 ins., marked with a cross (X); there are no trees available suitable for marking.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	From this witness cor., desc. 20 ft., along broken top of shelf.
	At 11.57 chs., end of course, the true point for the cor. of secs. 1, 2, 11, and 12, falls on a steep, rugged, and broken SW. slope, which is breaking and falling off, making the establishment of a cor. monument impracticable.
	The approximate distances and elevations to topography on true line, beginning at the 28.00 chs. point on top of the rim of series of high ledges, are as follows:
31.00	Gulch, 200 ft. below the top of rim of series of ledges, drains NW.; asc. 115 ft. along W. slope to
40.00	The true point for the ¼ sec. cor.
55.50	Rugged and narrow spur, 175 ft. above the true point for the ¼ sec. cor., projects NW.; desc. abruptly 600 ft.
68.00	Gulch, drains N.70°W.; asc. precipitous SW. slope 525 ft. to
80.00	The true point for the cor. of secs. 1, 2, 11, and 12.
	Land, rugged with outcroppings, large boulders, sliderock, and broken, sloping, and perpendicular ledges of varied colored sandstone; some shale and blue limestone outcroppings; narrow spurs, capped with sandstone domes, pillars, and crags; drainage NW. by forks of the south fork of Cow Canyon.
	Soil, shallow red sand, lying on alternate layers of varied colored clays, shale, and sandstone, or on bedrock, 4th. rate. Surface rock exposed on greater portions of mile.
	Timber, scattering to a heavy growth of cedar and pinon pine.
	Undergrowth, sparse to scattering service berry and wild currant bushes, mountain rush, and black brush; rabbit brush and greasewood grow along bottoms of gulches.
	Grazing, scattering growth of bunch grass.
	From the true point for the cor. of secs. 1, 2, 11, and 12,
	East, on a random line bet. secs. 1 and 12.
13.00	Approximately, the line passes over a nearly perpendicular ledge or rim of mesa or dome, about 400 ft. high, making chaining impracticable; therefore, I offset from the true point for the cor. of secs. 1, 2, 11, and 12, it being the most suitable site, as follows:
	S.0°01'E., 10.00 chs. dist.; then, on offset line
	East, 26.80 chs. dist.; then offset
	N.0°01'W. 10.00 chs. dist. to random line.
	East, on random line.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
30.00	Set temp. ¼ sec. cor.
30.00	Intersect the E. bdy. of the Tp., at the cor. of secs. 1, 6, 7, and 12, hereinbefore described.
	Thence,
	West, on a true line bet. secs. 1 and 12.
	Asc. gradual NE. slope 5 ft., across nearly level bottom of swale or basin, through opening of dense grass and scattering undergrowth.
4.70	Leave opening, enter a medium heavy growth of timber, bears N. and S.
4.90	Top of ascent or W. edge of swale or basin, bears N. and SE.; desc. W. slope 35 ft.
5.90	A brush fence, bears N. and S.
8.40	Draw, drains N. about 1.50 chs. dist., thence westerly; gradual ascent of 5 ft.
11.10	Rocky spur, slopes NW. about 1 ch. dist.; desc. SW. slope 115 ft.
16.10	Top of sloping gray sandstone ledge, 30 ft. high, bears NW. and SE.
28.40	Wash, 40 lks. wide, 4 ft. deep, in the bottom of Pine Canyon, drains northwesterly; asc. E. slope 30 ft.
28.90	Spur, slopes N. about 4 chs. dist.; gradual descent of 10 ft.
35.10	Draw, drains N.; asc. gradually 10 ft.
36.90	Spur, projects northwesterly approximately 25 chs. dist.; desc. SW. slope 30 ft. to
40.01	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 5 ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd.

¼ S 1 / S 12 1930

from which

A pinon pine, 8 ins. diam., bears S.28°00'E., 48 lks. dist., mkd. ¼ S 12 B T.

A pinon pine, 10 ins. diam., bears N.39°00'W., 119 lks. dist., mkd. ¼ S 1 B T.

40.30	Wash, 20 lks. wide, 1 ft. deep, in the bottom of draw, 5 ft. below ¼ sec. cor., drains NW.; asc. E. slope 10 ft.
42.90	Spur, slopes N. about 3 chs. dist.; desc. 15 ft.
44.10	Draw, drains NE.; asc. E. slope 140 ft.
50.30	Leave timber, bears N. and S.
55.23	Offset point on top of spur, projecting N. approximately 10 chs. dist.

Chains	
	From this point, the descriptions and approximate distances and elevations to topography on the remainder of mile are as follows, continuing measurement from E. bdy. of Tp.
55.00	Top of broken sandstone ledge, 40 ft. high, bears N. and S.
57.00	Wash, 20 lks. wide, 3 ft. deep, in the bottom of draw, 70 ft. below spur, drains N.; asc. abrupt E. slope 200 ft.
58.00	Enter a medium heavy growth of timber, bears N. and S.
64.50	Top of nearly perpendicular sandstone ledge, 120 ft. high, bears NE. and SW.
65.50	Top of E. rim of mesa or dome, 20 ft. high, bears NW. and SE.; over nearly level top.
66.60	W. rim of mesa or dome, 400 ft. high, bears NW. and SE.; precipitous descent of 600 ft. to sec. cor., over SW. slope
	From the 53.23 chs. point, offset
	S.0°01'E., 10.00 chs. dist. At the beginning of course, asc. 20 ft., along top of spur.
	Thence, on offset line,
	West, 26.80 chs. dist. At the beginning of course, asc. 75 ft., across the head of draw, draining N.
	At 4.70 chs., enter a medium heavy growth of timber, bears N. and S.
	At 11.20 chs., top of saddle, connecting a large dome or mesa to the NW. approximately 10 chs. dist. and a narrow bench or mesa to the SE. about 5 chs. dist., bears NW. and SE.; desc. abrupt general SW. slope 640 ft.
	At 12.00 chs., leave timber, bears NW. and SE.
	At 26.80 chs., end of course.
	Thence, offset
	N.0°01'W., 10.00 chs. dist. At the beginning of course, asc. steep general SW. slope 440 ft.
	At 10.00 chs., end of course, or at
80.03	The true point for the cor. of secs. 1, 2, 11, and 12.
	Land, rolling, rough, and broken, with outcroppings and rims of white and gray sandstone, E. 57.00 chs.; steep and rugged, with large boulders, sliderock, and broken, sloping, and perpendicular ledges of varied colored sandstone, shale, and limestone formation, W. 23.03 chs.; general drainage NW. into the south fork of Cow Canyon.
	Soil, shallow red sand, lying on alternate layers of varied colored clays, shale, and sandstone, or on bedrock, 4th. rate. Surface rock exposed on portions of mile. Red sandy loam, several ft. deep, on E. 4.90 chs., 1st. rate.
	Timber, cedar and pinon pine.

Chains

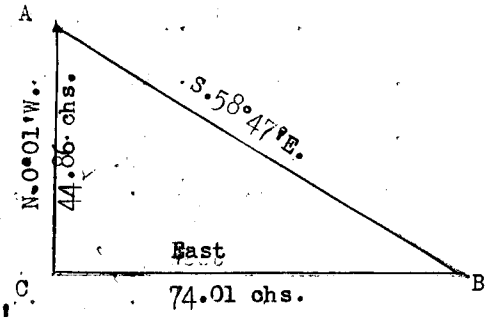
Undergrowth, sparse to scattering service berry and wild currant bushes, mountain rush, black brush, and shadscale.

Grazing, gramma and bunch grass, fair to good on portions of E. 57.00 chs., sparse and scattering on remainder of mile.

From the true point for the cor. of secs. 1, 2, 11, and 12,

N.0°01'W., on a random line bet. secs. 1 and 2.

North for a distance of approximately 60 chs., chaining is impracticable, on account of the line passing over series of high and nearly perpendicular ledges or walls on the sides of deep canyons. And, as points or prongs of ledges and rims, and crags, pillars, and domes interfere with the projection of a line from stations or points bet. secs. 1 and 2, it is necessary to return south as far as a transit point at the 68.50 chs. point bet. secs. 13 and 14, and set a flag A on line N.0°01'W. about 60 chs. dist. from the true point for the cor. of secs. 1, 2, 11, and 12. Then, as there are no suitable places for base lines, owing to the rugged country, I return to the 14.58 chs. point bet. secs. 1 and 6, on the E. bdy. of the Tp., and measure west 6.02 chs. dist. and set a flag B, that can be seen from flag A. I designate a point on random line N.0°01'W. 14.58 chs. dist. from the true point for the cor. of secs. 1, 2, 11, and 12, as point C, which gives the length of the base line bet. flag B and point C as 74.01 chs., **inasmuch as** the distance bet. secs. 1 and 12 is 80.03 chs. The bearing of the base line is east, and from flag A, flag B bears S.58°47'E. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 58°46'
Angle at flag B = 31°13'
Angle at point C = 90°01'

Distance from the true point for the cor. of secs. 1, 2, 11, and 12 to point C..... = 14.58 chs.
Distance from point C to flag A..... = 44.86 chs.
59.44 chs.,

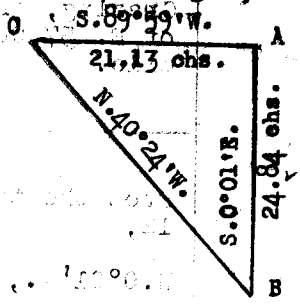
which is the distance from the true point for the cor. of secs. 1, 2, 11, and 12 to flag A.

S.0°01'E., 9.40 chs. dist. from flag A on random line, the line descends abruptly over series of high and nearly perpendicular ledges on the N. side of canyon, making chaining impracticable; therefore, I make the following triangulation:

From the 59.44 chs. point by direct measurement,

S.0°01'E, 3.33 chs. dist to a point which I designate as

Chains	
	A; then set a flag B, S.0°01'E. on line about 25 chs. dist. on the S. side of canyon. From point A, I measure base line S.89°59'W. 21.13 chs. dist. to a flag C, which from flag B bears N.40°24'W. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at point A = 90°00'
Angle at flag B = 40°23'
Angle at flag C = 49°37'

Distance from the true point for cor. of secs. 1, 2, 11, and 12 to point A..... 56.11 chs.
Distance from point A to flag B..... 24.84 chs.
Distance from the true point for cor. of secs. 1, 2, 11, and 12 to flag B..... 31.27 chs.

Thence, from flag B,

N.0°01'W., 8.73 chs. dist. by direct measurement, or at

40.00 Set temp. ¼ sec. cor.

Thence, from the temp. ¼ sec. cor., to verify the chaining of 8.73 chs.,

S.0°01'E., 8.73 chs. dist. to flag B by direct measurement.

Then, I return to flag A at the 59.44 chs. point.

Thence, continue with direct measurement.

N.0°01'W., on random line.

80.00 Set temp. lot cor.

87.57 Intersect the N. bdy. of the Tp., S.89°09'W. 43½lks. dist. from the cor. of secs. 1, 2, 35, and 36, which is an iron post, 3 ins. diam., extending 18 ins. above ground, firmly set in a mound of stone, 3½ ft. base, 1 ft. high, correctly marked, and witnessed by four bearing trees, one in each sec., as described in the official record of the survey of T. 19 S., R. 11 E.

From this cor., a circular water tank in surface sandstone, 15 ft. in diam., 7 ft. deep, bears east 3.80 chs. dist. At this time the depth of the water in the tank is about 4 ft.

Thence,.....

S.0°16'W., on a true line bet. secs. 1 and 2.

Asc. abrupt, rough and broken, general N. slope, through scattering timber and undergrowth.

6.70 Base of a series of broken and sloping ledges, bears NW. and SE.

7.57 Set an iron post, 3 ft. long, 1 in. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 5½ ft. base, 3 ft. high, for cor. of lots Nos. 4 and 5, sec. 1, and lots Nos. 1 and 8, sec. 2, with brass cap mk.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	S 2 1/8 | 4/5 S 1 1933
	All trees within a reasonable distance are too scrubby for marking.
	This cor. is located 155 ft. above the cor. of secs. 1, 2, 35, and 36, on the N. bdy. of the Tp.
11.80	Top of the series of broken and sloping ledges, bears NW. and SE.
28.13	Triangulation flag A, bears west 28.0 lks. dist., on top of ridge, bearing E. and W., 85 ft. above the lot cor.; desc. gradual S. slope 170 ft.
31.46	Triangulation point A, bears west 27.2 lks. dist.
37.50	Top of a series of nearly perpendicular ledges, about 400 ft. high, bears E. and W.; precipitous descent of 560 ft. over S. slope.
47.57	The true point for ¼ sec. cor. falls in wash, 100 lks. wide, 5 ft. deep, in the bottom of Pine Canyon, draining from the SE. to NW. about 1.50 chs. dist., thence westerly.
	On account of series of ledges, and the rugged sides of canyon breaking and slipping off, it is impracticable to establish a witness cor. to the ¼ sec. cor. on line within 10 chs. dist. of the true point.
	West 23 lks. dist. from the true point for the ¼ sec. cor., on the bank of the wash, bearing NW. and SE., set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 2 ft. high, for witness cor. to the ¼ sec. cor., with brass cap mkd.
	¼ S 2 | S 1 WC 1930
	from which
	A pinon pine, 8 ins. diam., bears S.77°45'E., 120 lks. dist., mkd. W C ¼ S 1 B T.
	A pinon pine limb, 5 ins. diam., bears S.37°45'W., 136 lks. dist., mkd. W C ¼ S 2 B T.
	From the true point for ¼ sec. cor., asc. abruptly 270 ft. over N. slope.
56.30	Triangulation flag B, bears west 16.1 lks. dist.; continue steep ascent of about 460 ft.
64.10	Approximate distance, top of nearly perpendicular ledge or N. rim of mesa or dome, about 250 ft. high, bears northeasterly and southwesterly; over nearly level and gently rolling top.
72.99	Triangulation point C, bears west 7.1 lks. dist.
81.10	Approximate distance, top of nearly perpendicular ledge

Chains	
	or S. rim of mesa or dome, about 300 ft. high, bears northwesterly and southeasterly; precipitous descent of about 600 ft., over general SW. slope to
87.57	The true point for the cor. of secs. 1, 2, 11, and 12.
	Land, abrupt and mountainous; rugged with outcroppings, large boulders, sliderock, and series of broken, sloping and perpendicular ledges of varied colored sandstone; also shale and limestone outcroppings; drainage northwesterly and westerly into the South Fork of Cow Canyon, S. 59.44 chs.; remainder of mile drains northwesterly into the North Fork of Cow Canyon.
	Soil, shallow red sand or clay, lying on alternate layers of varied colored clays, shale, and sandstone, or on bed-rock, 4th. rate. Surface rock exposed on greater portions of mile.
	Timber, sparse to a medium heavy growth of cedar and pinon pine.
	Undergrowth, sparse to scattering service berry and wild currant bushes, mountain rush, black brush, and shadscale
	Grazing, sparse to scattering growth of bunch grass.
	From the standard cor. of secs. 34 and 35, on the S. bdy. of the Tp., hereinbefore described,
	N.0°01'W., bet. secs. 34 and 35.
	Asc. abrupt, rough, and broken general S. slope 620 ft., through scattering undergrowth.
8.20	Base of nearly perpendicular ledge or bluff, about 200 ft. high, bears E. and W., on S. face of spur, making chaining impracticable.
13.00	Approximate distance, top of rugged spur, from the NE., projects westerly.
	I return to the standard cor. of secs. 34 and 35.
	Thence, offset
	West, 32.50 chs. dist.; then, on offset line
	N.0°01'W., 25.00 chs. dist. At the beginning of course, asc. abruptly 390 ft., over rough and broken general SW. slope, through scattering undergrowth.
	At 11.10 chs., rugged spur, projects S.80°W.; desc. general N. slope 110 ft.
	At 25.00 chs., end of course
	Thence, offset
	East, 32.50 chs. dist. At the beginning of course, asc. gradually 160 ft., over rough and broken top of bench, mesa, or shelf.
	or at At 32.50 chs., end of course

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
25.00	Intersect the true line bet. secs. 34 and 35, 465 ft. below the top of spur, noted approximately at 13.00 chs.
	Thence,
	N.0°01'W., on true line.
	Desc. gradually 20 ft., over rough and broken top, through a sparse growth of timber and undergrowth.
28.30	Top of nearly perpendicular ledge or rim of mesa or shelf, 65 ft. high, bears E. and W.; desc. steep general NW. slope 240 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 4½ ft. base, 1½ ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 34 | S 35 1931 from which A cedar, 14 ins. diam., bears N.60°00'W., 32 lks. dist., mkd. ¼ S 34 B T. At the base of the monument, I deposit a sandstone, 8x5x1 ins., marked with a cross (X), as there are no other available trees suitable for marking.
41.80	Draw, 25 ft. below ¼ sec. cor., drains NW.; asc. abruptly 485 ft., over SW. slope.
60.00	Top of nearly perpendicular ledge or rim of bench or mesa, 50 ft. high, bears NW. and SE.; ascent becomes more gradual.
64.60	Spur, projects NW. approximately 10 chs. dist.; enter a scattering growth of timber; desc. steep NE. slope 110 ft.
64.68	From this point, the 1st. high peak situated about north of the Window Blind Peak bears N.29°30'E.; and the 2nd. high peak located northerly from the Window Blind Peak bears N.25°E. from this station.
68.90	Base of abrupt descent, bears N.60°W. and S.60°E.; enter a medium heavy growth of timber and undergrowth, bears N.60°W. and S.60°E.; desc. gradual broken N. slope 45 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2¾ ft. high, for cor. of secs. 26, 27, 34, and 35, with brass cap mkd. T20S | R11E S27 | S26 S34 | S35 1930 from which A pinon pine limb, 8 ins. diam., bears N.49°00'E., 107 lks. dist., mkd. T 20 S R 11 E S 26 B T. A cedar, 5 ins. diam., bears S.65°45'E., 18 lks. dist., mkd. T 20 S R 11 E S 35 B T.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	A cedar limb, 7 ins. diam., bears S.28°45'W., 215 lks. dist., mkd. T 20 S R 11 E S 34 B T.
	A pinon pine, 10 ins. diam., bears N.11°45'W., 294 lks. dist., mkd. T 20 S R 11 E S 27 B T.
	Land, rugged with outcroppings, large boulders, sliderock and broken, sloping, and perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale; drainage to the NW., thence generally to the N.
	Soil, shallow red sand and varied colored clays, lying on alternate layers of clay, shale, and sandstone, or on bed rock, 4th. rate.
	Timber, cedar and pinon pine.
	Undergrowth, mountain rush, shadscale, yellow top, black brush, greasewood, and service berry bushes.
	Grazing, a sparse to a fair growth of bunch grass.
	East, on a random line bet. secs. 26 and 35.
10.00	Base of steep ascent, bears N. and S.
	From this point, east for a distance of approximately 40 chs., chaining and the projection of a line are impracticable, owing to series of high and inaccessible ledges on the E. and W. sides of Window Blind Peak; therefore, I return to the 10.00 chs. point and offset as follows:
	S.0°01'E., 19.00 chs. dist.; then, on offset line
	East, 50.80 chs. dist.; then offset
	N.0°01'W., 19.00 chs. dist. to random line.
	Thence,
	West, 11.60 chs. dist. to
49.20	Counting the distance east from the cor. of secs. 26, 27, 34, and 35, set temp. witness cor. to the ¼ sec. cor.
	Thence,
	East, on random line.
60.80	Point of offset.
80.00	Intersect the true point for the cor. of secs. 25, 26, 35 and 36.
	Thence,
	West, on a true line bet. secs. 26 and 35.
	Over rough general SE. slope, broken by large washes, through scattering timber and undergrowth; asc. 25 ft.
1.90	Spur, slopes northeasterly; desc. 5 ft.
4.70	Wash, 60 lks. wide, 7 ft. deep, in the bottom of draw,

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	drains NE. about 3 chs. dist., thence southeasterly; asc. 95 ft.
13.70	Extreme N. point of spur, from the S.; desc. 20 ft.
15.10	Head of wash, 50 lks. wide, 20 ft. deep, in bottom of draw, drains NE. about 1 ch. dist., thence easterly; asc. gradually.
16.70	Leave timber.
19.20	Point of offset, 80 ft. above head of wash.
19.60	Base of abrupt ascent, 15 ft. above the point of offset, bears NE. and SW.; asc. precipitous rugged SE. slope 265 ft. to
25.80	Top of broken and nearly perpendicular red sandstone ledge, 60 ft. high, bears N. about 2 chs. dist., thence northeasterly, and SW.; continue steep ascent of 200 ft., over SE. slope to
30.80	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 5½ ft. base, 2½ ft. high, for witness cor. to the ¼ sec. cor., with brass cap mkd. WC ¼ S 26 / S 35 1930 At the base of the monument, I deposit a sandstone, 8x5x2 ins., marked with a cross (X).
31.00	Base of nearly perpendicular ledge of red sandstone, about 700 ft. high, bears NE. and SW., 15 ft. above the witness cor. to the ¼ sec. cor. West from this ledge to the 69.50 chs. point, series of high and inaccessible cliffs and ledges make chaining and the projection of a line impracticable.
40.00	The true point for the ¼ sec. cor. falls at or close to the top of the barren, nearly perpendicular, and inaccessible N. face of Window Blind Peak, making it impracticable to establish a cor. monument or mark a cross (X). This peak is located on a rugged ridge, bearing N. and S., about 700 ft. above the top of ledge noted at 31.00 chs. From the top of the Window Blind Peak, the line descends abruptly approximately 1400 ft. to the base of steep descent, hereinafter noted at 69.50 chs. From the 31.00 chs. point, I return to the point of offset at 19.20 chs. Thence, offset. S.0°01'E., 19.00 chs. dist. At the beginning of course, desc. 160 ft. along rough, broken, and nearly barren S. and SE. slopes. At 19.00 chs., end of offset. Thence, on offset line, West, 50.80 chs. dist. At the beginning of course, asc. abrupt rugged general E. slope 640 ft., through sparse undergrowth.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	Remarks
	At 20.80 chs., ridge, bears N. and S.; desc. steep, rough, W. and NE. slopes 375 ft., through scattering timber and undergrowth.
	At 50.80 chs., end of course on NE. slope.
	Thence, offset
	N.0°01'W., 19.00 chs. dist. At the beginning of course, desc. abrupt, rough NE. slope 90 ft., through scattering timber and sparse undergrowth.
	At 4.30 chs., base of steep descent, bears N.60°W. and S.60°E.; enter a medium heavy growth of timber and undergrowth, bears NW. and SE.; desc. gradually 40 ft. across the head of draw, draining NW.
	At 19.00 chs., end of offset intersect true line.
	Thence,
	East, 0.50 chs. dist., or at
69.50	Base of the series of high and inaccessible ledges and narrow shelves on the W. side of Window Blind Peak, bears N. and S.
	Thence,
	West, on true line.
	Desc. gradually 30 ft. to sec. cor., over nearly level and gently rolling top of bench or mesa, through scattering timber and undergrowth.
70.00	Point of offset, 10 ft. below base of steep descent.
76.80	E. edge of wash, 15 ft. deep, bears NW. and SE.
77.70	W. edge of wash, bears NW. and SE.
80.00	The cor. of secs. 26, 27, 34, and 35.
	Land, abrupt, broken, and mountainous; rugged with outcroppings, large boulders, sliderock, and series of narrow shelves, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic rock, and red and blue shale; broken and nearly level and gently rolling top of bench or mesa, W. 10.50 chs.; drainage N., NE., and NW. into the San Rafael River.
	Soil, shallow red sand and varied colored clays, lying on alternate layers of clay, shale, and sandstone, or on bed rock, 4th. rate. Surface rock exposed on greater portion of mile.
	Timber, cedar and pinon pine.
	Undergrowth, mountain rush, shadscale, yellow top, black brush, greasewood, and service berry bushes.
	Grazing, a sparse to a fair growth of bunch grass.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	N.0°01'W., bet. secs. 26 and 27.
	Desc. gradually 45 ft., over nearly level and gently rolling top of bench or mesa, through scattering to medium heavy growth of timber and undergrowth.
13.10	Top of broken and nearly perpendicular ledge or N. rim of bench or mesa, 65 ft. high, bears NW. about 1 ch. dist., thence southwesterly, and SE. approximately 80 lks. dist., thence northeasterly; desc. steep NE. slope 315 ft.
24.30	Head of draw, drains NE.; asc. 15 ft.
25.80	Spur, slopes NE. about 12 chs. dist.; desc. 65 ft. to the witness cor. to the ¼ sec. cor., across the head of draw.
32.00	Head of the draw, drains NE.; timber becomes more scattering.
38.20	On top of spur, projecting NE. approximately 10 chs. dist., set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the ¼ sec. cor., with brass cap mkd.
	WC ¼ | S 27 | S 26 | 1930
	raise a mound of stone, 3½ ft. base, 2 ft. high, W. of cor.
	All trees within a reasonable distance are too scrubby for marking.
40.00	True point for the ¼ sec. cor. falls in wash, 10 lks. wide, 2 ft. deep, in the bottom of draw, draining N.70°E., 255 ft. below the witness cor.
	From this point, continue over numerous small draws and spurs, putting NE.
54.10	Enter a medium heavy growth of timber, bears NE. and SW.
57.10	Leave timber, bears NW. and SE.
59.10	Wash, 60 lks. wide, 2 ft. deep, in the bottom of hollow, 115 ft. below the true point for the ¼ sec. cor., drains N. about 3 chs. dist., thence NW.
70.60	Spur, 15 ft. above wash, slopes W. about 4 chs. dist.; desc. 25 ft.
75.10	Wash, 20 lks. wide, 3 ft. deep, in the bottom of draw, drains NW.; asc. 40 ft.
77.00	Top of ascent, bears NW. and SE.; desc. gradual NE. slope 10 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, with brass cap mkd.
	T20S | R11E S22 | S23 S27 | S26 1930
	raise a mound

Chains	
	of stone, 3 ft. base, 3 ft. high, W. of cor.
	From this cor., the top of the Window Blind Peak and t[illegible] tops of the first three highest peaks, which are locat[illegible] northerly from the Window Blind Peak, bear as follows: S.23°45'E., S.40°45'E., S.45°30'E., and N.49°00'E.
	Land, nearly level and gently rolling top of bench or mesa, S. 13.10 chs.; rolling, rough, and broken, N. 66.[illegible] chs.; outcroppings, large boulders, sliderock, and bro[illegible] sloping, and perpendicular ledges or rims of varied colored sandstone, conglomerate of varied colored sandstone and volcanic rock, and red and blue shale; drainag[illegible] to the NW., thence northerly into the San Rafael River.
	Soil, shallow red sand and varied colored clays, lying o[illegible] alternate layers of clay, shale, and sandstone, or on be[illegible] rock, 4th. rate. Surface rock exposed on portions of top of bench or mesa.
	Timber, cedar and pinon pine.
	Undergrowth, mountain rush, shadscale, yellow top, black brush, greasewood, and service berry bushes.
	Grazing, bunch grass, a fair growth on top of bench or mesa, scattering on remainder of mile.
	East, on a random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line, 5 lks. S. of the true point for the cor. of secs. 23, 24, 25, and 26.
	Thence,
	S.89°58'W., on a true line bet. secs. 23 and 26.
	Over rolling and broken land; desc. abrupt and barren NW. slope 75 ft.
4.10	Draw, drains NE.; asc. 30 ft.
4.50	Enter scattering undergrowth.
6.10	Spur, slopes NE. about 3 chs. dist.; desc. 90 ft.
10.30	Wash, 15 lks. wide, 2 ft. deep, in the bottom of draw, drains NE.; asc. 55 ft.
14.10	Spur, slopes N. approximately 3 chs. dist.; desc. 30 ft.
15.70	Wash, 75 lks. wide, 20 ft. deep, in the bottom of draw, drains NW.; asc. 45 ft.
23.70	Spur, slopes N. about 6 chs. dist.; desc. 55 ft.
31.50	Wash, 50 lks. wide, 5 ft. deep, in the bottom of draw, drains N. about 4 chs. dist., thence northeasterly; asc. 35 ft.
36.70	Spur, slopes N. about 1 ch. dist.; desc. W. slope 10 ft. to
39.98	Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in [illegible]

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	ground to solid rock, and in a mound of stone, 5 ft. base, 1½ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 23 / S 26 1930
	At the base of the monument, I deposit a sandstone, 8x3x1 ins., marked with a cross (X).
43.00	Wash, 20 lks. wide, 3 ft. deep, in the bottom of draw, 5 ft. below ¼ sec. cor., drains NE.; asc. 65 ft.
47.40	Spur, projects NE. approximately 25 chs. dist.; desc. 50 ft.
49.80	Wash, 60 lks. wide, 15 ft. deep, in the bottom of draw, drains NE.; asc. abrupt NE. slope 280 ft.
62.70	Ridge, bears NW. and SE.; desc. abruptly 205 ft., over SW. slope, across small draws and spurs, putting to the SW.
73.80	Base of steep descent, bears NW. and SE.; desc. gradually 20 ft. to sec. cor., over nearly level bench, broken by draws, spurs, and rims, putting to the SW.
79.96	The cor. of secs. 22, 23, 26, and 27.
	Land, rough and rolling, and broken by small spurs, draws, and benches or mesas; outcroppings and rims of varied colored sandstone and blue shale formation; drainage northeasterly, E. 62.70 chs.; W. 17.26 chs. drain SW. into a main wash, thence northerly.
	Soil, red sandy clay loam or varied colored clays, rocky and mixed with shale, varying in depth from a few ins. to several ft. and lying on a clay subsoil, shale, or on bedrock, 3rd. and 4th. rate.
	Timber, a few scattering cedar.
	Undergrowth, yellow top, shadscale, and mountain rush.
	Grazing, a sparse to a fair growth of gramma and bunch grass.
	N.0°01'W. bet. secs. 22 and 23.
	Over nearly level land, through scattering undergrowth.
2.50	Begin gradual ascent of 35 ft., over S. slope.
11.10	Spur, projects W. approximately 15 chs. dist.; a flat topped and cone shaped butte, about 300 ft. high and bearing northeasterly and southeasterly, bears east 5.50 chs. dist.; desc. general NW. slope 85 ft.
27.80	Draw, drains W.; asc. S. slope 50 ft.
36.50	Spur, projects W. about 15 chs. dist.; desc. N. slope 25 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	ground, for ¼ sec. cor., with brass cap mkd. ¼ S 22 | S 23 1931 raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.
	This cor. stands in the head of swale, which drains N.70°W. about 3.50 chs. dist. into the head of gulch, draining S.80°W.
	From this cor., asc. gradually 65 ft., along W. slope.
45.00	A high peak or butte, which is known as the Assembly Hall bears E. approximately 25 chs. dist.
53.00	Wash, 80 lks. wide, 25 ft. deep, drains W.
58.00	Leave W. slope, begin steep ascent of 280 ft., over SW. slope.
70.30	Saddle on spur, bears NW. about 1 ch. dist. to the eastern extremity of the ledge capping of a red butte, the top of which extends NW. approximately 5 chs. dist., and SE. about 20 chs. dist. to the base of the ledge capping of the Assembly Hall Peak; desc. abrupt NE. slope 135 ft. to
79.51	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 5½ ft. base, 2 ft. high, for witness cor. to the cor. of secs. 14, 15, 22, and 23, with brass cap mkd. W C T20S | R11E S15 | S14 S22 | S23 1931 At the base of the monument, I deposit a sandstone, 8x5x2 ins., marked with a cross (X).
80.00	True point for the cor. of secs. 14, 15, 22, and 23, falls in a small wash and on a steep slope, which is crumbling and breaking away, making the establishment of a cor. monument impracticable.
	Land, rough, rolling, and broken, draining generally to the N.; outcroppings, large boulders, sliderock, and rims of varied colored sandstone and red and blue shale formation.
	Soil, red sand and varied colored clays, mixed with sandstone and shale, varying in depth from a few ins. to several ft. and lying on a clay subsoil, shale, or on sandstone bedrock, 3rd. and 4th. rate.
	Timber, a few scattering scrubby cedar.
	Undergrowth, yellow top, shadscale, and mountain rush.
	Grazing, a sparse to fair growth of gramma and bunch grass
	From the true point for the cor. of secs. 14, 15, 22, and 23,

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	N.89°58'E., on a random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line, 2 lks. S. of the true point for cor. of secs. 13, 14, 23, and 24.
	Thence,
	S.89°57'W., on a true line bet. secs. 14 and 23.
	Over nearly level dry San Rafael River bed.
0.80	Leave dry river bed, bears N.80°W. and S.80°E.; over nearly level bottom land, through a medium heavy growth of cottonwood timber and dense undergrowth of greasewood and rabbit brush.
7.80	Leave timber, bears NW. and SE.
8.10	Leave undergrowth of greasewood and rabbit brush, bears NW. and SE., and enter a medium dense growth of yellow top, shadscale, and mountain rush.
8.20	Leave bottom land, bears NW. and SE.; begin ascent of 40 ft., over SE. slope, across small draws and spurs, putting to the NE.
31.30	Spur, projects N.60°E. approximately 12 chs. dist.; desc. 20 ft.
32.40	Draw, drains N.60°E.; asc. 30 ft.
37.80	Spur, projects N.60°E. about 15 chs. dist.; desc. 45 ft.
39.30	Draw, drains N.; asc. SE. slope 15 ft. to
39.98	Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock, and in a mound of stone, 6 ft. base, 1½ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 14 / S 23 1931
	At the base of the monument, I deposit a sandstone, 9x3x2 ins., marked with a cross (X).
54.20	Spur, 110 ft. above ¼ sec. cor., projects N.60°E. approximately 10 chs. dist.; the top of the Assembly Hall Peak bears S. about 35 chs. dist.; desc. abrupt NW. slope 100 ft.
61.10	Head of draw, drains N.60°E.; asc. 30 ft.
62.10	Spur, projects N. approximately 25 chs. dist.; desc. 30 ft.
67.00	Draw, drains N.; asc. steep general NE. slope 235 ft. to
79.96	The true point for the cor. of secs. 14, 15, 22, and 23.
	Land, nearly level dry river bed and bottom land, E. 8.20 chs.; rough, rolling, and broken, with outcroppings, rims, large boulders, and sliderock of varied colored sandstone and red and blue shale formation, on remainder of mile; general drainage NE. into the San Rafael River, thence SE.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Soil, red sand and sandy loam, several ft. deep, on the dry river bed and bottom land, 1st. rate; red sand and varied colored clays, mixed with sandstone and shale, varying in depth from a few ins. to several ft. and ly on a clay subsoil, shale, or on sandstone bedrock, 3rd. and 4th. rate, on W. 71.76 chs.
	Timber, a medium heavy growth of cottonwood on bottom land; a few scattering scrubby cedar on W. 71.76 chs.
	Undergrowth, a dense growth of greasewood and rabbit brush on bottom land; medium dense yellow top, shadscale and mountain rush, on the rough, rolling, and broken lan
	Grazing, a dense growth of salt grass on bottom land; a scattering to fair growth of gramma and bunch grass on remainder of mile.
	From the true point for the cor. of secs. 14, 15, 22, and 23,
	N.0°01'W., bet. secs. 14 and 15.
	Desc. gradually 5 ft., over rough and broken general NE. slope, through scattering undergrowth of yellow top and shadscale.
2.00	Descent becomes abrupt.
10.00	Descent becomes more gradual, bearing N.70°E. and N.70°W.
21.00	Base of descent, 315 ft. below top of abrupt descent noted at 2.00 chs., bears E. and W.; over nearly level bottom land, through a dense growth of greasewood.
21.50	Wagon road, bears easterly to Huntington and Castle Dale, Utah and westerly to the San Rafael Swell.
28.40	Top of knoll, 25 ft. high, bears N.60°E. approximately 8.chs. dist. and N.60°W. about 1.50 chs. dist.
30.30	Right bank of San Rafael dry river bed, 5 ft. high, bears E. and SW.; leave undergrowth, bears E. and SW.
32.20	S. edge of the San Rafael River, which is a stream of clear alkali water, 4 to 6 ft. deep, course easterly.
33.50	N. edge of the stream.
35.30	Left bank of San Rafael dry river bed, 4 ft. high, bears NW. and SE.; continue over level bottom land, through a medium dense growth of greasewood,
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 15 | S 14

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from whic

A cottonwood limb, 14 ins. diam., bears N.35°45'E., 32 lks. dist., mkd. ¼ S 14 B T.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	A cottonwood, 30 ins. diam., bears S.20°15'W., 281 lks. dist., mkd. ¼ S 15 B T.
43.20	Leave greasewood undergrowth, bears E. and W.
43.40	Leave bottom land, bears N.80°E. and S.80°W.; S. edge of wash, 4 ft. deep, at the mouth of canyon, which is known as Buckhorn Draw; a stream of clear alkali water, 3 lks. wide, 2 ins. deep, in the bottom of the wash, course S.80°W. about 5 chs. dist., thence S. into the San Rafael River.
46.40	N. edge of the wash, bears N.80°E. and S.80°W.; enter scattering undergrowth of yellow top, shadscale, and mountain rush; asc. S. slope 90 ft., along the W. side of Buckhorn Draw, over small spurs and draws, putting easterly.
49.50	Ascent becomes abrupt.
53.40	Spur, projects E. about 6 chs. dist.; desc. 65 ft.
72.80	Draw, drains E.; asc. 40 ft.
77.50	Spur, projects E. approximately 4 chs. dist.; desc. NE. slope 35 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 10, 11, 14, and 15, with brass cap mkd.

T20S	R11E
S10	S11
S15	S14

1931

raise a mound of stone, 3½ ft. base, 2½ ft. high, W. of cor.

Land, rough, rolling, and broken, with outcroppings, rims, and large boulders of varied colored sandstone and red and blue shale formation, on S. 21.00 chs. and N. 36.60 chs.; nearly level dry river bed and bottom land, remainder of mile; drainage into the San Rafael River, thence easterly.

Soil, red sand, sandy loam, and varied colored clays, mixed with sandstone and shale, varying in depth from a few ins. to several ft. and lying on a clay subsoil, shale, or on sandstone bedrock, 3rd. and 4th. rate, on rough, rolling, and broken land; red sand and sandy loam, several ft. deep, on the dry river bed and bottom land, 1st. rate.

Timber, scattering and groves of cottonwood on the bottom land of the San Rafael River; a few scattering cedar on N. ½ mile.

Undergrowth, yellow top, shadscale, and mountain rush; medium dense to dense greasewood on the bottom land.

Grazing, poor to fair growth of gramma and bunch grass; dense salt grass on bottom land.

	N.89°57'E., on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

Chains	
79.96	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 11, 12, 13, and 14.
	Thence,
	S.89°58'W., on a true line bet. secs. 11 and 14.
	Asc. rough E. slope 25 ft., through a heavy growth of timber and scattering undergrowth.
7.00	Leave timber, bears N. and S.
7.30	Leave undergrowth; asc. barren and more abrupt E. slope 80 ft.
11.50	Top of ascent, bears N. and S.; desc. W. slope 15 ft., over surface sandstone.
13.00	Gulch, near head, drains N.80°W.; asc. NE. slope 40 ft.
18.90	Top of ascent on N. face of sandstone knob; desc. abrupt W. slope 60 ft.
21.00	Top of bluff or nearly perpendicular rim of rugged gulch, 80 ft. high, bears northeasterly and southwesterly; leave sandstone surface rock; desc. precipitous NW. slope 425 ft., over series of broken, sloping, and nearly perpendicular ledges, bearing NE. and SW., to
36.50	Same gulch as noted at 13.00 chs., drains SW.; asc. gradually 15 ft., over broken ledges and outcroppings.
39.20	Top of ascent on SW. slope; desc. abruptly 20 ft. to
39.98	True point for ¼ sec. cor. falls on a sandstone outcropping, where it is impracticable to establish a cor. monument or make a cross (X).
40.40	Top of nearly perpendicular red sandstone ledge, about 250 ft. high, bears NW. and SE. approximately 2 chs. dist.
40.68	On a general SW. slope, 260 ft. below the true point for ¼ sec. cor., set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to solid rock, and in a mound of stone, 5 ft. base, 1½ ft. high, for witness cor. to the ¼ sec. cor., with brass cap mkd.
	¼ S 11 / S 14 WC 1933
	At the base of the monument, I deposit a sandstone, 7x4x1 ins., marked with a cross (X).
47.50	Wash, 30 lks. wide, 5 ft. deep, in the bottom of the same gulch as noted at 13.00 chs., 220 ft. below the witness cor. to the ¼ sec. cor., drains northwesterly; asc. 15 ft.
49.50	Spur, projects NW. about 6 chs. dist.; enter scattering undergrowth and timber; steep descent of 255 ft.
63.60	Wash, 30 lks. wide, 8 ft. deep, in the bottom of the same gulch as noted at 13.00 chs., drains southwesterly; asc. 10 ft.
64.60	Spur, slopes SW. about 5 chs. dist.; desc. abruptly 110 ft.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
66.10	Base of abrupt descent, bears NE. and SW.; desc. gradual W. slope 10 ft.
68.00	E. bank of wash, 4 ft. high, bears NE. and SW., in the bottom of Buckhorn Draw; stream of clear alkali water, 3 lks. wide, 2 ins. deep, in wash, course S.
70.60	Road in the wash, bears N.20°E. to Huntington and Castle Dale, Utah and S.20°W. to the San Rafael Swell.
74.20	W. bank of the wash, 5 ft. high, bears N. and S.; asc. gradual SE. slope 65 ft.
79.10	Spur, slopes NE. about 3 chs. dist.; desc. NW. slope 15 ft. to
79.96	The cor. of secs. 10, 11, 14, and 15.
	Land, abrupt and mountainous, E. 66.10 chs.; rough, rolling, and broken, W. 13.86 chs.; outcroppings, rims, surface rock, large boulders, sliderock, and series of broken, sloping, and perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic rock, and blue and red shale; general drainage to the S. into the San Rafael River.
	Soil, shallow red sand, lying on shale or on sandstone bedrock, 4th. rate, on E. 66.10 chs.; red sand, sandy loam, and clay, varying in depth from a few ins. to several ft. and lying on a clay subsoil, shale, or on sandstone bedrock, 1st. to 4th. rate, on W. 13.86 chs.
	Timber, a few scattering cedar and pinon pine; scattering and groves of cottonwood along the bottom of Buckhorn Draw.
	Undergrowth, black brush, mountain rush, yellow top, and shadscale.
	Grazing, fair growth of grama, bunch, and salt grass on W. 13.86 chs.
	N.0°01'W., bet. secs. 10 and 11.
	Over broken land, through scattering timber and undergrowth; desc. gradual NE. slope 10 ft.
2.00	Draw, drains S.70°E.; asc. 25 ft.
4.00	Top of S. extremity of knoll; over nearly level top, bearing N.
6.50	N. extremity of the knoll; desc. NE. slope 50 ft.
20.40	Stream of clear alkali water, 2 lks. wide, 2 ins. deep, in wash, 180 lks. wide, 4 ft. deep, in the bottom of Buckhorn Draw, course SE.; asc. SW. slope 40 ft.
22.00	Wagon road, bears NW. to Huntington and Castle Dale, Utah and SE. to the San Rafael Swell.
24.80	Spur, slopes W. about 4 chs. dist.; desc. 40 ft.
30.20	Same road as noted at 22.00 chs., bears N.15°E. and S.15°W.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
32.70	Stream of clear alkali water, 2 lks. wide, 1 in. deep, in wash, 150 lks. wide, 3 ft. deep, in the bottom of Buckhorn Draw, course S.60°W.; asc. gradual SE. slope 8 ft. to
40.00	On top of ascent, sloping E. about 2.50 chs. dist., set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd. ¼ S 10 | S 11 1931 raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. There are no trees within a reasonable distance suitable for marking.
42.00	Same road as noted at 22.00 chs., bears NW. and S.20°E.
42.30	Stream of clear alkali water, 3 lks. wide, 2 ins. deep, in wash, 100 lks. wide, 4 ft. deep, in the bottom of Buckhorn Draw, course S.60°E., 25 ft. below ¼ sec. cor.; asc. 110 ft., over SW. slope.
49.30	Ascent becomes abrupt.
53.00	Top of ascent, slopes W. approximately 4 chs. dist.; desc abruptly 60 ft.
56.70	Gulch, near mouth, drains W.; asc. 315 ft. to the witness cor. to the cor. of secs. 2, 3, 10, and 11, along gradual rugged W. slope.
70.00	Ascent becomes abrupt, slope changing from W. to SW.
79.80	Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 1½ ft. high, for witness cor. to the cor. of secs. 2, 3, 10, and 11, with brass cap mkd. WC T20S | R11E S3 | S2 S10 | S11 1931 At the base of the monument, I deposit a sandstone, 10x8x3½ ins., marked with a cross (X). All available trees are too scrubby for marking.
79.90	Base of nearly perpendicular red sandstone ledge, about 300 ft. high, bears NW. and SE.
80.00	True point for the cor. of secs. 2, 3, 10, and 11, falls on the S. face of the ledge, making it impracticable to establish a cor. monument or make a cross (X). Land, rough and broken, along the sides of Buckhorn Draw; outcroppings, large boulders, sliderock, and broken, sloping, and perpendicular ledges, N. 30.70 chs.; varied colored sandstone, conglomerate of varied colored sandstone and volcanic rock, and red shale formation; general drainage to the S. into the San Rafael River.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Soil, red sand, sandy loam, and clay, varying in depth from a few ins. to 2 ft. on slopes to several ft. in the bottom of Buckhorn Draw, and lying on a clay subsoil, shale, or on sandstone bedrock, 1st. to 4th. rate, on S. 49.30 chs.; shallow red sand, lying on shale or on sandstone bedrock, 4th. rate, on N. 30.70 chs. Timber, cedar and pinon pine; scattering and groves of cottonwood grow along the bottom of Buckhorn Draw. Undergrowth, yellow top, shadscale, and mountain rush; dense greasewood, rabbit brush, and squaw bushes along the bottom of Buckhorn Draw. Grazing, scattering gramma and bunch grass; dense salt grass grows in the bottom of Buckhorn Draw.
	From the witness cor. to the cor. of secs. 2, 3, 10, and 11, which is S.0°01'E. 20 lks. dist. from the true point for the cor. of said secs., N.89°58'E., on an offset line to the random line bet. secs. 2 and 11. At 0.30 chs., base of nearly perpendicular red sandstone ledge, about 300 ft. high, bears NW. and SE. From the base of this ledge, east for a distance of approximately 40 chs., chaining and the projection of a line are impracticable, owing to series of high and impassable ledges; therefore, I return to the witness cor. to the cor. of secs. 2, 3, 10, and 11, and offset as follows: West, 40.00 chs. dist.; then on traverse line N.45°00'E., 56.57 chs. dist.; thence South, 12.00 chs. dist.; then on offset line N.89°58'E., 40.00 chs. dist.; then offset South, 27.80 chs. dist. to random line bet. secs. 2 and 11, and at
40.00	Set temp. ¼ sec. cor. Thence, N.89°58'E., on random line.
68.55	From this station to the true point for the cor. of secs. 1, 2, 11, and 12, chaining and the projection of a line are impracticable, on account of series of high and impassable ledges on steep general SW. slope; therefore, I offset North, 2.19 chs. dist.; then on traverse line S.78°47'E. 11.57 chs. dist. to the true point for the cor. of secs. 1, 2, 11, and 12, which gives the falling of the random line bet. secs. 2 and 11, 7 lks. N. of the true point for the cor. of said secs.

Chains

Therefore, the bearing of the true line bet. secs. 2 and 11 is N.89°59'W., and the distance 79.90 chs.

Thence, on traverse line

N.78°47'W. 11.57 chs. dist.. At the beginning of course, asc. 20 ft., along broken top of shelf, through sparse timber and undergrowth.

At 2.47 chs., on top of ascent on general SW. slope, intersect the witness cor. to the cor. of secs. 1, 2, 11, and 12, hereinbefore described; precipitous descent of 360 ft., over rough slope.

At 4.90 chs., top of broken and nearly perpendicular sandstone ledge, 50 ft. high, bears NW. and S. about 4 chs. dist., thence westerly.

At 11.57 chs., end of course.

Thence, offset

South, 2.25 chs. dist. At the beginning of course, asc. 15 ft., along general SW. slope.

At 2.25 chs., end of offset, intersect true line bet. secs. 2 and 11.

Thence, on true line

N.89°59'W., counting distances to topography from the true point for the cor. of secs. 1, 2, 11, and 12.

Desc. abruptly 250 ft., over rugged SW. slope, through scattering timber and undergrowth.

23.00 Gulch, drains N.; asc. steep E. slope 460 ft.

35.00 Rugged spur, projects N. approximately 25.00 chs. dist.; desc. abrupt W. slope 170 ft. to

39.47 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 2 ft. high, for witness cor. to the ¼ sec. cor., with brass cap mkd.

$$\text{WC } \tfrac{1}{4} \frac{\text{S 2}}{\text{S 11}}$$
1933

At the base of the monument, I deposit a sandstone, 8x6x1 ins., marked with a cross (X).

39.90 Temp. ¼ sec. cor. and point of offset, bears north 3½ lks. dist.

39.95 True point for the ¼ sec. cor. falls on a small sandstone shelf or outcropping, 10 ft. below witness cor., where it is impracticable to establish a cor. monument or mark a cross (X).

The descriptions and approximate distances and elevations to topography on the W. ½ mile, with continuous measurement from the true point for the ¼ sec. cor., are as follows:

42.50 Gulch, 80 ft. below the true point for the ¼ sec. cor.,

Chains	
	drains N.; asc. precipitous rugged NE. slope 650 ft.
76.00	Spur, capped with high and nearly perpendicular red sandstone ledges, projects NW.; desc. gradually 15 ft. over top to
78.70	Top of nearly perpendicular red sandstone ledge, 300 ft. high, bears NW. and SE.; desc. abruptly 280 ft. to
79.90	The true point for the cor. of secs. 2, 3, 10, and 11, on the S. face of the ledge, noted at 78.70 chs.

I return to the 39.90 chs. point and offset

North, 27.835 chs. dist. At the beginning of course, asc. 85 ft., along rough general W. slope, through scattering timber and undergrowth.

At 0.035 chs., intersect the temp. ¼ sec. cor. or offset point on random line.

At 10.20 chs., top of ascent or spur, slopes NW. about 10 chs. dist.; desc. precipitous NE. slope 390 ft.

At 19.70 chs., top of nearly perpendicular red sandstone ledge, 50 ft. high, bears E. and W.

At 25.00 chs., wash, 30 lks. wide, 3 ft. deep, in the bottom of the South Fork of Cow Canyon, drains W.; asc. gradually 15 ft., over rolling bottom.

At 25.50 chs., enter a heavy growth of timber, bears E. and W.

At 27.835 chs., end of offset.

Thence, on offset line

S.89°58'W., 40.00 chs. dist. At the beginning of course, over rolling and broken land, on the N. side of canyon, through a medium heavy growth of timber and undergrowth; asc. gradual E. slope 10 ft.

At 5.60 chs., spur, slopes S. about 1.50 chs. dist.; desc. gradually 15 ft.

At 21.30 chs., line passes over a sandstone boulder 40x20x15 ft.; timber becomes scattering.

At 32.90 chs., wash, 80 lks. wide, 4 ft. deep, in the bottom of the South Fork of Cow Canyon, drains northwesterly; asc. NE. slope 15 ft.

At 40.00 chs., end of course.

Thence, offset

North, 12.00 chs. dist. Subsequently, the true line bet. secs. 2 and 3 runs nearly parallel and within a few lks. dist. of this offset; therefore, the position of the topography on the offset practically agrees with the position of the topography on the true line bet. secs. 2 and 3.

Thence, on traverse line

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

S.45°00'W., 56.57 chs. dist. At the beginning of cour asc. gradual NE. slope 15 ft., over rolling and bro land, through scattering timber and undergrowth.

At 6.00 chs., top of ascen bears NW. and SE.; desc. gradually 45 ft.

At 17.80 chs., wash, 60 wide, 4 ft. deep, in the bottom of Cow Canyon, drain westerly; desc. gradually 20 ft., along bottom of can yon.

At 24.70 chs., leave bott of Cow Canyon, bears NW. and SE.; asc. abruptly 40 ft

At 26.80 chs., top of near perpendicular ledge or E. rim of bench or mesa, 35 ft high, bears N. and S.; over level top.

At 32.50 chs., W. edge of bench or mesa, bears N.20°E. and S.20°W.; steep descent of 75 ft.

At 34.60 chs., base of descent, bears N.20°E. and S.20°W.; over level bottom of Buckhorn Draw.

At 38.00 chs., stream of clear alkali water, 3 lks. wide, 2 ins. deep, in wash, 100 lks. wide, 5 ft. deep, course southwesterly.

At 38.20 chs., a wagon road in the wash, bears northeasterly to Huntington and Castle Dale, Utah and southwesterly to the San Rafael Swell.

At 39.20 chs., leave bottom of Buckhorn Draw, bears N.20°E. and S.20°W.; steep ascent of 100 ft.

At 43.60 chs., top of nearly perpendicular ledge or E. rim of bench, 25 ft. high, bears NW. and SE.; asc. 90 ft., over rolling and broken top.

At 56.57 chs., end of course

Thence, offset

East, 40.00 chs. dist. Subsequently, the true line bet. secs. 3 and 10 runs nearly parallel and within less than 1 ch. dist. of this offset; therefore, the position of the topography on the offset practically agrees with the position of the topography on the true line bet. secs. 3 and 10.

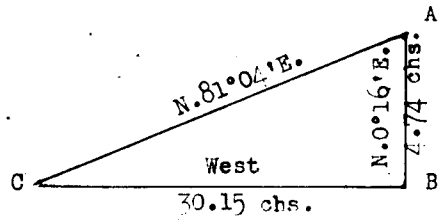
At 40.00 chs., end of offset intersect the witness cor. to the cor. of secs. 2, 3, 10, and 11.

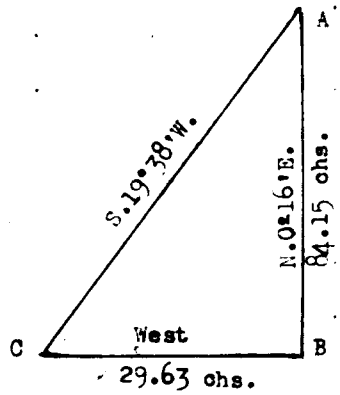
Description on true line:

Land, steep, broken, and mountainous; rugged with outcrop pings, large boulders, sliderock, and series of high, broken, sloping, and nearly perpendicular ledges of varie colored sandstone, red and blue shale, and conglomerate of sandstone and volcanic rock; drainage northwesterly, westerly, and southwesterly into Buckhorn Draw.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Soil, shallow red sand or clay, lying on alternate layers of clay, shale, or sandstone, 4th. rate.
	Timber, cedar and pinon pine.
	Undergrowth, yellow top, shadscale, mountain rush, black and buck brush, service berry and wild currant bushes.
	Grazing, a scattering growth of bunch grass.
	From the witness cor. to the cor. of secs. 2, 3, 10, and 11,
	N.0°16'E., on a random line.
0.10	Nearly perpendicular ledge, about 300 ft. high, bearing NW. and SE., makes chaining impracticable; therefore, I triangulate as follows:
	Set a flag A on line N. approximately 5 chs. dist.; then, from the witness cor. to the cor. of secs. 2, 3, 10, and 11, which I designate as point B, measure a base line west 30.15 chs. dist. to a flag C. From flag C, flag A bears N.81°04'E. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.
	Angle at flag A = 80°48' Angle at point B = 90°16' Angle at flag C = 8°56'
	Distance from the witness cor. to the cor. of secs. 2, 3, 10, and 11, to flag A is 4.74 chs., or at
4.74	Triangulation flag A.
	Thence, continue from flag A by direct measurement.
40.20	Set temp. ¼ sec. cor.
80.20	Set temp. lot cor.
83.50	Nearly perpendicular ledge or N. rim of the North Fork of Cow Canyon, about 300 ft. high, bearing NE. and SW., makes chaining impracticable; therefore, I make the following triangulation:
	Set a flag A on line on top of the N. rim of the canyon, and designate the witness cor. to the cor. of secs. 2, 3, 10, and 11, as point B. Then, from point B, measure a base line west 29.63 chs. dist. to a flag C, which from flag A bears S.19°38'W. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.





SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Angle at flag A = 19°22' Angle at point B = 90°16' Angle at flag C = 70°22'
	Distance from the witness cor. to the cor. of secs. 2, 3, 10, and 11, to flag A is 84.15 chs., or at
84.15	Triangulation flag A.
	Thence, continue from flag A by direct measurement.
86.55	Intersect the N. bdy. of the Tp., east 55.1lks. dist. from cor. of secs. 2, 3, 34, and 35, which is an iron post, 3 ins. diam., extending 30 ins. above ground, firmly set in a mound of stone, 4½ ft. base, 2½ ft. high, correctly marked, and witnessed by four bearing trees, one in each sec., as described in the official record of the survey of T. 19 S., R. 11 E.
	Thence,
	S.0°06'E., on a true line bet. secs. 2 and 3.
	Desc. gradually 10 ft., over rugged SE. slope, through scattering timber and undergrowth.
2.40	Triangulation flag A, on top of nearly perpendicular red sandstone ledge or N. rim of the North Fork of Cow Canyon about 300 ft. high, bearing NE. and SW., stands east 53.9 lks. dist.
3.10	Base of the ledge or rim, bears NE. and SW.; precipitous descent of 165 ft. to
6.35	Set an iron post, 3 ft. long, 1 in. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 7 ft. base, 3 ft. high, for cor. of lots Nos. 4 and 5, sec. 2, and lots Nos. 1 and 8, sec. 3, with brass cap mkd.
	S 3 (1 | 4 / 8 | 5) S 2 1933
	There are no trees within a reasonable distance suitable for marking.
	From this cor., continue steep descent of 710 ft.
10.30	Top of broken and sloping red sandstone ledge, 295 ft. high, bears NW. and SE.
15.60	Base of the ledge, bears NW. and SE.
27.60	Top of broken and nearly perpendicular red sandstone ledge, 75 ft. high, bears NE. and SW.
37.20	Wash, 60 lks. wide, 4 ft. deep, in the bottom of the North Fork of Cow Canyon, drains southwesterly, at the base of abrupt descent, bearing generally NE. and SW.; a stock trail crosses wash, bearing NE. and SW.; over nearly level bottom of canyon.
39.60	Same wash, 70 lks. wide, 4 ft. deep, drains southeasterly
46.35	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE: 1931 8—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	¼ S 3 | S 2 1931
	from which
	A cedar, 8 ins. diam., bears N.5°45'E., 423 lks. dist., mkd. ¼ S 2 B T.
	A cedar, 3 ins. diam., bears N.20°00'W., 299 lks. dist., mkd. ¼ S 3 B T.
	This cor. stands 15 ft. below base of abrupt descent.
50.30	Same wash as noted at 37.20 chs., 70 lks. wide, 4 ft. deep, drains SW.; begin gradual ascent of 15 ft.
53.00	Top of ascent or low spur, slopes W.; gradual descent of 25 ft.
55.70	Wash, 80 lks. wide, 4 ft. deep, in the bottom of the South Fork of Cow Canyon, drains N.70°W.; asc. gradual NE. slope 25 ft.
61.30	Begin steep ascent of 410 ft., over rugged NE. slope.
61.60	Enter a medium heavy growth of timber, bears NW. and SE.
81.00	Timber becomes scattering, bearing NW. and SE.
81.81	Triangulation flag A bears east 3 lks. dist., on top of spur, which is capped with high and nearly perpendicular red sandstone ledges, and projects NW. approximately 20 chs. dist.; desc. gradually 15 ft. over top to
85.10	Top of nearly perpendicular red sandstone ledge, about 300 ft. high, bears NW. and SE.; desc. abruptly 260 ft. to
86.35	The true point for the cor. of secs. 2, 3, 10, and 11, on the S. face of the ledge, noted at 85.10 chs.
	Land, steep slopes and nearly level bottoms of the North and South Forks of Cow Canyon, draining westerly into Buckhorn Draw, N.81.81 chs.; abrupt NE. side of Buckhorn Draw, draining SW., remainder of mile; outcroppings, large boulders, sliderock, and series of high, broken, sloping, and nearly perpendicular ledges of varied colored sandstone, red and blue shale and limestone, and conglomerate of sandstone and volcanic rock.
	Soil, shallow red sand or clay, lying on a clay subsoil, shale, or on sandstone or limestone bedrock, 4th. rate. red sand and sandy loam, about 1 to several ft. deep, lying on bedrock, 1st. to 3rd. rate, in the bottoms of the forks of Cow Canyon.
	Timber, cedar and pinon pine; cottonwood scattered along Cow Canyon washes.
	Undergrowth, yellow top, shadscale, mountain rush, black and buck brush, service berry and wild currant bushes; dense greasewood and rabbit brush along bottoms of canyons.
	Grazing, scattering growth of bunch grass; dense gramma grass in bottoms of canyons.

U. S. GOVERNMENT PRINTING OFFICE 1931 6-8100

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	From the standard cor. of secs. 33 and 34, on the S. bdy. of the Tp., hereinbefore described,
	N.0°02'W., bet. secs. 33 and 34.
	Desc. gradual SE. slope 5 ft., over rolling and broken land, through scattering timber and undergrowth.
2.00	Wash, 50 lks. wide, 3 ft. deep, in the bottom of hollow, drains westerly; asc. S. slope 55 ft.
5.70	Spur, slopes W. about 5 chs. dist.; desc. 35 ft.
8.40	Draw, drains SW.; asc. 40 ft.
10.90	Spur, slopes W. about 2.50 chs. dist.; desc. 35 ft.
12.10	Draw, drains W. approximately 3 chs. dist., thence SW.; asc. 70 ft.
22.60	Spur, slopes W, about 2 chs. dist.; desc. 65 ft.
24.50	Head of draw, drains NW.; asc. 50 ft.
26.80	Spur, slopes NW. approximately 5 chs. dist.; desc. 110 ft. to ¼ sec. cor., over general NW. slope.
38.90	Wash, 10 lks. wide, 1½ ft. deep, drains NW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, 1 ft. high, for ¼ sec. cor., with brass cap mkd.

¼
S 33 | S 34
1930

from which

A cedar, 10 ins. diam., bears N.65°30'E., 190 lks. dist., mkd. ¼ S 34 B T.

A cedar limb, 7 ins. diam., bears S.83°00'W., 82 lks. dist., mkd. ¼ S 33 B T.

63.70	Wash, 25 lks. wide, 3 ft. deep, in the bottom of draw, 40 ft. below ¼ sec. cor., drains NW.; asc. 10 ft.
70.20	Spur, slopes W. about 4 chs. dist.; desc. 15 ft.
71.80	Wagon road, bears NE. to Huntington and Castle Dale, Utah and SW. to the San Rafael Swell.
73.90	A main wash, 50 lks. wide, 3 ft. deep, in the bottom of hollow, drains NE.; asc. gradually 15 ft.
76.20	Top of ascent, bears E. and W.; desc. 10 ft., along gentle E. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 27, 28, 33, and 34, with brass cap mkd.

T20S | R11E
S28 | S27
S33 | S34
1930

raise a mound

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	of stone, 3½ ft. base, 2½ ft. high, W. of cor.
	From this cor., the highest point on top of the Window Blind Peak, bears S.89°06'E., and the reading of the vertical angle is 12°35'.
	Land, gently rolling and nearly level, draining to the NW., S. 2.00 chs. and N. 51.20 chs.; nearly barren spurs with steep slopes, and draws, draining to the W., SW., and NW., remainder of mile; sandstone and shale formation.
	Soil, shallow varied colored clays mixed with shale, 4th. rate, on the tops and slopes; rocky red sand and sandy loam, about 6 ins. to 2 ft. deep, lying on a clay subsoil, shale, or on bedrock, 1st. to 3rd. rate, on the nearly level and gently rolling land.
	Timber, a few scattering cedar.
	Undergrowth, sparse to scattering yellow top, shadscale, mountain rush, and rabbit brush.
	Grazing, a fair growth of gramma grass on the nearly level and gently rolling land.
	East, on a random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line, at the cor. of secs. 26, 27, 34, and 35.
	Thence,
	West, on a true line bet. secs. 27 and 34.
	Asc. gradually 25 ft., over broken and gently rolling top of bench or mesa, through a medium heavy growth of timber and undergrowth.
8.30	Top of ascent, bears N. and S.; desc. gradually 10 ft.
12.30	Top of broken and nearly perpendicular ledge or W. rim of bench or mesa, 85 ft. high, bears NW. and SE.; leave timber, bears NW. and SE.; undergrowth becomes scattering; desc. precipitous SW. slope 430 ft., over large boulders and slide rock, and numerous draws and spurs, putting to the SW., to
26.50	Base of abrupt descent, bears NW. and SE.; leave boulders and sliderock, and enter scattering timber; desc. gradual SW. slope 45 ft. to
39.99	True point for the ¼ sec. cor. falls in wash, 30 lks. wide, 2 ft. deep, in the bottom of hollow, draining NW., making the establishment of a cor. monument impracticable.
43.18	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the ¼ sec. cor., with brass cap mkd.

¼ S 27 / S 34 WC
1930

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.
	There are no trees within a reasonable distance suitable for marking.
	The witness cor. stands on a gentle NE. slope, 5 ft. above the true point for the ¼ sec. cor.
53.20	Spur, 10 ft. above the witness cor. to the ¼ sec. cor., slopes NW. about 3 chs. dist.; gradual descent of 40 ft.
69.30	Wash, 90 lks. wide, 5 ft. deep, in the bottom of a main hollow, drains northeasterly; asc. gradual E. slope 10 ft. to sec. cor.
74.80	Wagon road, bears NE. to Huntington and Castle Dale, Utah, and SW. to the San Rafael Swell.
79.98	The cor. of secs. 27, 28, 33, and 34.
	Land, broken and gently rolling top and steep side of bench or mesa, E. 26.50 chs.; nearly level, rolling, and gently rolling, W. 53.48 chs.; outcroppings, large boulders, sliderock, and broken, sloping, and perpendicular ledges or rims of varied colored sandstone, conglomerate of sandstone and volcanic rock, and red and blue shale; drainage NW., thence northerly.
	Soil, shallow red sand or varied colored clays, lying on alternate layers of clay, shale, and sandstone, 4th. rate, on E. 26.50 chs.; red sand and sandy loam, about 6 ins. to 3 ft. deep, lying on a clay subsoil, shale, or on bedrock, 1st. to 3rd. rate, on remainder of mile.
	Timber, cedar and pinon pine.
	Undergrowth, yellow top, shadscale, mountain rush, rabbit brush, greasewood, black brush, and service berry bushes.
	Grazing, scattering to a fair growth of gramma and bunch grass.
	N.0°02'W., bet. secs. 27 and 28.
	Over nearly level and gentle E. slope, through scattering timber and undergrowth.
1.50	Draw, 5 ft. below sec. cor., drains southeasterly; asc. S. slope 45 ft.
4.30	Top of knoll; desc. 55 ft.
9.00	Draw, drains NE. about 1.50 chs. dist., thence southeasterly; asc. 60 ft.
12.30	Eastern extremity of bench; desc. 65 ft.
20.00	Wash, 20 lks. wide, 2 ft. deep, in the bottom of draw, drains SE.; asc. 40 ft. to
27.40	Spur, slopes E. about 1 ch. dist.; desc. 50 ft.
38.90	Wash, 20 lks. wide, 2 ft. deep, in the bottom of draw, drains NE. approximately 2 chs. dist., thence southeasterly; asc. SE. slope 40 ft. to

U. S. GOVERNMENT PRINTING OFFICE: 1931 0—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
40.00	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, and in a mound of stone, 6 ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd.

¼

S 28 | S 27

1930

At the base of the monument, I deposit a sandstone, 8x6x1 ins., marked with a cross (X).

No trees are available for marking.

41.90	Spur, 10 ft. above ¼ sec. cor., projects NE. approximately 7 chs. dist.; desc. 25 ft.
53.70	Wash, 20 lks. wide, 2 ft. deep, in the bottom of draw, drains NE. about 2 chs. dist., thence southeasterly; asc. 20 ft., over S. slope.
59.60	Spur, projects E. approximately 10 chs. dist.; desc. 15 ft.
63.60	Draw, drains E.; asc. 60 ft.
67.50	Spur, slopes E. about 2 chs. dist.; desc. 40 ft.
71.30	Wash, 40 lks. wide, 12 ft. deep, in the bottom of draw, drains SE.; asc. general SE. slope 60 ft. to
74.30	Leave nearly level, rolling, and broken land, bears NE. and SW.; asc. 45 ft. to sec. cor., over large boulders and sliderock, and numerous draws and spurs, putting to the SE., on SE. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, with brass cap mkd.

T20S	R11E
S21	S22
S28	S27

1930

raise a mound of stone, 3½ ft. base, 3 ft. high, W. of cor.

There are no trees available for marking.

Land, nearly level, rolling, and broken, with small benches or mesas and knolls, S. 74.30 chs.; abrupt and rugged SE. slope, N. 5.70 chs.; outcroppings, large boulders, and sliderock of varied colored sandstone, conglomerate of sandstone and volcanic rock, and red and blue shale; drainage generally to the E., thence northerly by a main wash.

Soil, red sandy clay and varied colored clays, rocky and mixed with shale, about 6 ins. to 3 ft. deep, lying on shale or on bedrock, 3rd. and 4th. rate.

Timber, sparse to scattering cedar.

Undergrowth, yellow top, shadscale, and mountain rush.

Grazing, poor to fair growth of gramma and bunch grass.

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8165

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	East, on a random line bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at the cor. of secs. 22, 23, and 27.
	Thence,
	West, on a true line bet. secs. 22 and 27.
	Over nearly level land, through scattering undergrowth.
1.80	Begin gradual descent of 30 ft., over numerous small draws and spurs, putting to the SW., on general SW. slope.
15.50	Wash, 50 lks. wide, 3 ft. deep, in the bottom of hollow, drains N. about 4 chs. dist., thence northwesterly; asc. E. slope 10 ft.
16.50	Spur, slopes N. about 2 chs. dist.; gradual descent of 5 ft.
17.00	Wash, 50 lks. wide, 3 ft. deep, in the bottom of draw, drains NE.; asc. E. slope 75 ft.
32.30	Spur, slopes N. approximately 3 chs. dist.; desc. W. slope 75 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 4½ ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 22 / S 27 / 1930
	At the base of the monument, I deposit a sandstone, 6x5x1 ins., marked with a cross (X).
46.60	Top of ascent or low spur, 10 ft. above ¼ sec. cor., slopes N. about 10 chs. dist.; desc. 35 ft.
52.40	A main wash, 120 lks. wide, 5 ft. deep, in the bottom of hollow, drains NW.; asc. NE. slope 35 ft.
53.60	Wagon road, bears N. about 1 ch. dist., thence northeasterly to Huntington and Castle Dale, Utah and SE. to the San Rafael Swell.
56.70	Top of ascent, bears NW. and SE.; desc. 10 ft.
62.00	Wash, 50 lks. wide, 12 ft. deep, in the bottom of draw, drains NE. about 2.50 chs. dist., thence easterly; asc. gradual SE. slope 15 ft. to
64.70	Begin abrupt ascent of 160 ft. to sec. cor., over large boulders and sliderock, and small draws and low spurs, putting SE., on general SE. slope.
80.00	The cor. of secs. 21, 22, 27, and 28.
	Land, nearly level, rolling, rough, and broken; rims and outcroppings of varied colored sandstone and red and blue shale; large boulders and sliderock of varied colored sandstone and conglomerate of sandstone and volcanic rock on W. 15.30 chs.; drainage NE., N., and NW. into a main wash, thence northerly.

U. S. GOVERNMENT PRINTING OFFICE: 1934 9—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Soil, red sandy clay loam and varied colored clays, rocky and mixed with shale, varying in depth from a few ins. to several ft. and lying on a clay subsoil, shale, or on bedrock, 2nd. to 4th. rate. Timber, patches of scattering to a medium heavy growth of cedar on E. ½ mile. Undergrowth, yellow top, shadscale, and mountain rush. Grazing, poor to a fair growth of gramma and bunch grass.
	N.0°02'W., bet. secs. 21 and 22. Asc. abrupt, rugged, and broken general SE. slope 340 ft., through scattering undergrowth.
9.30	Top of nearly perpendicular red sandstone ledge or rim of shelf, 85 ft. high, bears N.25°E. about 1.50 chs. dist., thence northerly, and S.25°W.; continue ascent along steep SE. slope of shelf.
13.00	Top of ascent, bears NW. and SW.; desc. steep and broken NE. slope 90 ft.
23.00	Top of same nearly perpendicular red sandstone ledge or rim of shelf as noted at 9.30 chs., 80 ft. high, bears N. and SE., at the base of descent, bearing same as the ledge or rim; asc. 30 ft. along top of the ledge or rim of shelf.
35.60	Leave top of ledge or rim of shelf, bears NE. and S.; begin abrupt ascent of 105 ft. over SE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 5½ ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 21 | S 22 1931 At the base of the monument, I deposit a sandstone, 6x6x2 ins., marked with a cross (X).
40.50	Saddle on spur, 20 ft. above ¼ sec. cor., bears NE. and SW.; the spur projects NE. approximately 3.50 chs. dist. to the top of a high red sandstone castle, which is known as Bottle Neck Peak; desc. precipitous NW. slope 525 ft.
47.50	Top of nearly perpendicular red sandstone ledge, 55 ft. high, bears NE. and SW.
48.00	Enter scattering timber.
61.80	Base of abrupt descent, bears NE. and SW.; desc. gradually 50 ft. to sec. cor., over rolling and broken land, on general NW. slope.
77.50	Head of draw, drains N.60°E.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

T20S	R11E
S16	S15
S21	S22

1931

raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.

From this cor., the top of the Window Blind Peak, the tops of two high peaks, which are located northerly from the Window Blind Peak, and the top of the Assembly Hall Peak, bear respectively as follows: S.35°45'E., S.43°30', S.45°00'E., and S.72°30'E.

Land, abrupt, broken, and rugged with outcroppings, large boulders, sliderock, and broken, sloping, and perpendicular ledges and rims of varied colored sandstone, red shale, and conglomerate of sandstone and volcanic rock, on S. 61.80 chs.; rolling and broken with outcroppings and rims of blue shale and limestone, on N. 18.20 chs.; general drainage northerly into the San Rafael River.

Soil, shallow red sand and varied colored clays, lying alternately on layers of clay, shale, or sandstone, 4th. rate, on S. 61.80 chs.; red sand and sandy clay loam, about 3 ins. to 2 ft. deep, lying on varied colored clays mixed with shale, or on shale or sandstone bedrock; 3rd. and 4th. rate, on the rolling and broken land.

Timber, a few scattering cedar.

Undergrowth, sparse to scattering growth of yellow top, shadscale, mountain rush, black brush, service berry bushes, and sagebrush.

Grazing, scattering bunch grass on S.61.80 chs.; a fair growth of gramma grass on remainder of mile.

East, on a random line bet. secs. 15 and 22.

40.00 Set temp. ¼ sec. cor.

80.03 Intersect N. and S. line, at the true point for the cor. of secs. 14, 15, 22, and 23.

Thence,

West, on a true line bet. secs. 15 and 22.

Asc. abruptly 95 ft., over rough and broken general NE. slope, through scattering undergrowth.

3.70 Top of ascent, bears SE. and SW.; steep descent of 205 ft.

14.00 Base of abrupt descent, bears NE. and NW.; asc. 15 ft.

15.80 Spur, projects N.70°W. about 20 chs. dist.; desc. steep SW. slope 220 ft.

31.00 Base of descent, bears NW. and SE.; over nearly level and broken land.

34.80 Wagon road, bears N.20°W. to Huntington and Castle Dale, Utah and S.20°E. to the San Rafael Swell.

39.60 Draw, 20 ft. below base of descent, drains N.; asc. gradual E. slope 10 ft. to

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
40.01	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd. ¼ S 15 / S 22 1931 raise a mound of stone, 2½ ft. base, 2½ ft. high, N. of cor.
49.10	Top of ascent, 25 ft. above ¼ sec. cor., bears N. and S.; desc. broken W. slope 45 ft.
66.60	A main wash, 90 lks. wide, 4 ft. deep, in the bottom of hollow, drains N.25°E.; asc. 20 ft.
70.00	Top of ascent bears NE. and SW.; desc. 20 ft.
74.20	Wash, 150 lks. wide, 5 ft. deep, in the bottom of draw, drains N.70°E.; asc. 60 ft. to
80.03	The cor. of secs. 15, 16, 21, and 22.
	Land, rough, rolling, and broken; nearly level tops of small benches on portions of mile; outcroppings, large boulders, and sliderock of varied colored sandstone, red and blue shale, and conglomerate of sandstone and volcanic rock, on E. 14.00 chs.; outcroppings of red and blue shale and blue limestone, on remainder of mile; general drainage to the N. into the San Rafael River.
	Soil, alternate layers of varied colored clays, shale, and sandstone, 4th. rate, on E. 14.00 chs.; red sand and varied colored clays, about 4 ins. to 2 ft. deep, lying on a clay subsoil or on shale, sandstone or limestone bedrock, 3rd. and 4th. rate, on W. 66.03 chs.
	Undergrowth, yellow top, shadscale, and mountain rush.
	Grazing, gramma and bunch grass, sparse on E. ½ mile, fair to a good growth on W. ½ mile.
	No timber.
	N.0°02'W., bet. secs. 15 and 16.
	Desc. gentle NW. slope 20 ft., over rolling and broken land, through scattering undergrowth of yellow top, shadscale, and mountain rush.
6.80	Base of descent, bears E. and W.; asc. S. slope 20 ft.
8.00	S. edge of top of knoll, bears N.60°W. about 2.50 chs. dist., thence northeasterly, and S.60°E. approximately 3.50 chs. dist., thence northerly; over nearly level top.
10.40	N. edge of the knoll, bears E. and southwesterly; desc. abruptly 35 ft., over N. slope.
11.40	Begin more gradual descent of 50 ft., over gentle N. slope.
22.60	Leave yellow top, shadscale, and mountain rush, and enter dense undergrowth of greasewood and rabbit brush, bears E. and W.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

22.80 Base of descent, bears E. and N.70°W.; over nearly leve bottom land of the San Rafael River, through scattering cottonwood timber.

32.80 Leave timber and undergrowth, enter dry barren river be bears E. and N.70°W.

36.40 S. edge of the San Rafael River, which is a stream of clear alkali water, 4 to 6 ft. deep, course easterly.

37.20 N. edge of the stream.

37.40 Left bank of San Rafael dry barren river bed, 5 ft. high bears S.70°E. and W.; leave bottom land, begin ascent of 50 ft. to ¼ sec. cor., over rough and broken SW. slope, through sparse undergrowth of yellow top, shadscale, and mountain rush.

37.40 A well traveled pack and stock trail, bears E. and N.60°W

40.00 Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock, and in a mound of stone, 5 ft. base 1½ ft. high, for ¼ sec. cor., with brass cap mkd.

¼

S 16 | S 15

1931

At the base of the monument, I deposit a sandstone, 6x3x1 ins., marked with a cross (X).

40.90 A dilapidated barbed wire fence, bears E. and W.

56.50 Base of a nearly perpendicular brown sandstone ledge, 45 ft. high, bears NW. and SE.

58.80 Base of a nearly perpendicular red sandstone ledge or wall about 1200 ft. high and forming the NE. side or breaks of the San Rafael River Canyon, 110 ft. above the ¼ sec. cor bears NW. and SE.

From the base of this ledge to the true point for the cor of secs. 9, 10, 15, and 16, chaining and the projection of the line are impracticable; therefore, I describe and give the approximate distances and elevations to topography on the remainder of mile, counting from the cor. of secs. 15, 16, 21, and 22, as follows:

73.50 Top of the nearly perpendicular ledge or wall or NE. breaks of the San Rafael River Canyon, 1200 ft. above the 58.80 chs. point, bears NW. and SE.; desc. 50 ft., over rolling, rough, broken, barren, sandstone top to

80.00 True point for the cor. of secs. 9, 10, 15, and 16, falls on a steep sloping sandstone surface, where the establishment of a cor. monument or the marking of cross (X) are impracticable.

A witness cor. to the cor. of secs. 9, 10, 15, and 16, hereinafter described, is subsequently established at the 70.50 chs. point bet. secs. 10 and 15.

Owing to the high and impassable nearly perpendicular wall on the NE. side of San Rafael Canyon, and the extremely rugged country to the N. of the San Rafael River breaks, the true point for the cor. of secs. 9, 10, 15, and 16,

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	is inaccessible by offseting, traversing or triangulation; therefore, I verify the distances to topography and the position of the ¼ sec. cor. bet. secs. 15 and 16, as follows:
	From the 58.80 chs. point by direct measurement,
	S.0°02'E., bet. secs. 15 and 16.
18.80	Intersect the ¼ sec. cor.
58.80	Intersect the cor. of secs. 15, 16, 21, and 22.
	Land, gently rolling, rolling, and broken, S. 22.80 chs.; broken and rugged, N. 42.60 chs.; nearly level bottom land and dry barren river bed of the San Rafael River, remainder of mile; outcroppings of blue shale and limestone; large boulders, sliderock, surface rock, and broken sloping, and perpendicular ledges of varied colored sandstone, red shale, and conglomerate of sandstone and volcanic rock, on N. 42.60 chs.; drainage easterly by the San Rafael River, S. 73.50 chs.; N. 6.50 chs. drain NE. into the Buckhorn Draw.
	Soil, red sand and varied colored clays, about 4 ins. to 2 ft. deep, lying on a clay subsoil or on shale, sandstone or limestone bedrock, 3rd. and 4th. rate, on S. 22.80 chs.; shallow red sand, lying on shale or on sandstone bedrock, 4th. rate, on N. 42.60 chs.; red sand and clay, several ft. deep, 4th. rate, on the bottom land.
	Timber, a few scattering cedar; scattering cottonwood along the bottom land.
	Undergrowth, yellow top, shadscale, mountain rush, greasewood, and rabbit brush.
	Grazing, fair to good growth of gramma grass, on S. 22.80 chs.; scattering bunch grass on rough portions.
	As true point for cor. secs. 9, 10, 15 and 16, is inaccessible,
	From the cor. of secs. 10, 11, 14, and 15,
	West, on a true line bet. secs. 10 and 15.
	Asc. precipitous general E. slope 175 ft., over outcroppings and large boulders, through scattering timber and undergrowth, to
10.00	Base of a series of high and impassable, broken, sloping, and perpendicular ledges, bears N.20°E. and S.20°W.
	From this base of series of ledges to the true point for the cor. of secs. 9, 10, 15, and 16, chaining and the projection of the line are impracticable, on account of sandstone crags, pillars, and domes on the tops of narrow, sharp spurs, and series of high and impassable ledges on the steep slopes; therefore, I describe and give the approximate distances and elevations to topography on the remainder of mile, counting from the cor. of secs. 10, 11, 14, and 15, as follows:
17.50	Barren sandstone spur, 1200 ft. above base of series of ledges, projects N.15°E. approximately 30 chs. dist.; steep descent of 1000 ft.
38.00	Ravine, drains N.; asc. abrupt E. slope 75 ft. to

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

40.01 The ¼ sec. cor., hereinafter described.

41.50 Spur, 50 ft. above ¼ sec. cor., projects N. about 12 chs. dist.; abrupt descent of 250 ft.

47.00 Draw, drains N.20°E.; steep ascent of 600 ft.

56.00 Barren sandstone spur, projects NE. approximately 20 chs. dist.; desc. precipitous NW. slope 600 ft.

67.00 Draw, drains NE.; asc. abrupt SE. slope 150 ft. to

70.50 The witness cor. to the cor. of secs. 9, 10, 15, and 16, hereinafter described,

71.20 Base of nearly perpendicular red sandstone ledge, 200 ft. high, bears NW. and SE., 25 ft. above witness cor.

From the top of the ledge, asc. rugged and barren NE. slope 100 ft., over rolling sandstone surface to

80.03 The true point for the cor. of secs. 9, 10, 15, and 16.

Then, I return to the cor. of secs. 10, 11, 14, and 15, and offset

N.0°01'W. to the 40.06 chs. point bet. secs. 10 and 11.

Thence, on traverse line

S.63°15'W., 49.35 chs. dist. At the beginning of course, asc. SE. slope 135 ft., over rolling and broken land, through scattering timber and undergrowth.

At 11.80 chs., top of ascent bears NE. and SW.; desc. gradually 25 ft.

At 20.10 chs., base of descent, bears NE. and N.; abrupt ascent of 195 ft.

At 34.50 chs., top of broken and nearly perpendicular brown sandstone ledge, 40 ft. high, bears E. and NW.

At 42.70 chs., spur, slopes NE. about 1 ch. dist.; desc. 25 ft.

At 46.40 chs., draw, drains NE. approximately 2 chs. dist., thence easterly; asc. 15 ft., over general SE. slope

At 49.35 chs. end of course.

Thence, on traverse line

S.12°50'E., 18.31 chs. dist. At the beginning of course, desc. SE. slope 15 ft.

At 5.30 chs., draw, drains NE.; asc. 320 ft., along general N. slope to ¼ sec. cor.

At 13.70 chs., N. extremity of spur from S., bears W. about 1.50 chs. dist.

At 16.40 chs., top of nearly perpendicular brown sandstone ledge, bears NW. and SE.

At 18.31 chs., end of course, intersect true line bet. secs. 10 and 15; set an iron

Chains

post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.

¼ S 10 / S 15
1931

at the base of the monument, I deposit a sandstone, 7x6x1½ ins., marked with a cross (X).

From this ¼ sec. cor. by direct measurement,

N.12°50'W., 18.31 chs. dist.

Thence, on traverse line,

S.63°15'W., 29.59 chs. dist. At the beginning of course, asc. steep general SE. slope 805 ft.

At 6.54 chs., top of broken and nearly perpendicular red sandstone ledge, 110 ft. high, bears NW. and SE.

At 29.59 chs., end of course.

Thence,

South, 4.53 chs. dist. At the beginning of course, asc. abruptly 115 ft., along general SE. slope.

At 4.53 chs., end of course, intersect true line bet. secs. 10 and 15; set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to solid rock, and in a mound of stone, 7 ft. base, 2 ft. high, for witness cor. to the cor. of secs. 9, 10, 15, and 16, with brass cap mkd.

T20S R11E
WC S9 | S10
S16 | S15
1931

At the base of the monument, I deposit a sandstone, 7x7x1½ ins., marked with a cross (X).

From the witness cor. by direct measurement,

North, 4.53 chs. dist.

Thence, on traverse line,

N.63°15'E., 78.94 chs. dist. At 29.59 chs., point on traverse line.

At 78.94 chs., end of course, intersect line bet. secs. 10 and 11, N.0°01'W. 40.06 chs. dist. from the cor. of secs. 10, 11, 14, and 15.

Land, steep and rugged with outcroppings, large boulders, sliderock, and broken, sloping, and perpendicular ledges of varied colored sandstone, red and blue shale, and conglomerate of sandstone and volcanic rock; surface rock exposed on greater portions of mile; drainage E. and NE. into the Buckhorn Draw, thence S.

Soil, shallow red sand and varied colored clays, lying on

U. S. GOVERNMENT PRINTING OFFICE: 1941 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

shale or sandstone bedrock, 4th. rate.

Timber, sparse to a medium heavy growth of cedar and pinon pine.

Undergrowth, sparse to scattering black brush, mountain rush, and service berry bushes.

Grazing, scattering growth of bunch grass.

From the true point for the cor. of secs. 9, 10, 15, and 16,

N.0°02'W., bet. secs. 9 and 10.

Chaining and the projection of the line are impracticable, as the true point for the cor. of secs. 9, 10, 15, and 16 and almost all points on the line bet. secs. 9 and 10, are inaccessible, owing to series of high and impassable ledges on the sides of deep canyons and gorges. Therefore, I describe and give the approximate distances and elevations to topography on the true line as follows:

Desc. 200 ft., over rolling and barren sandstone top to

6.00 Top of nearly perpendicular red sandstone ledge or S. rim of Good Water Canyon, 200 ft. high, bears N.60°E. and S.60°W.; desc. more abruptly 1250 ft., over rugged NW. slope.

37.80 Good Water Canyon, drains NE.; small springs of good water rise in several places in the bottom of this canyon, NE. and SW. of line; asc. 50 ft. along rugged SE. slope to

40.00 The ¼ sec. cor., hereinafter described.

58.00 Top of sharp, narrow sandstone spur, 1200 ft. above ¼ sec. cor., projects E. about 3 chs. dist., thence N.15°E. approximately 25 chs. dist.; desc. abruptly 900 ft. to the true point for sec. cor., across the head of gorge.

69.00 Head of the gorge, drains NE.

80.00 True point for the cor. of secs. 3, 4, 9, and 10, falls on the high and nearly perpendicular sandstone ledge or W. wall of the gorge noted at 69.00 chs., where the establishment of a cor. monument or the marking of a cross (X) is impracticable.

A witness cor. to the cor. of secs. 3, 4, 9, and 10, hereinafter described, is subsequently established at the 70.73 chs. point bet. secs. 3 and 10.

On account of the line bet. secs. 9 and 10 being inaccessible and crossing over impassable country, the most practicable way to establish the ¼ sec. cor. bet. secs. 9 and 10, is by offsetting and traversing.

From the true point for the cor. of secs. 2, 3, 10, and 11, offset

West, 40.03 chs. dist.; then on traverse line,

S.45°00'W. 56.57 chs. dist. At the beginning of course, asc. gradual E. slope 105 ft., over rough and broken land, through scattering timber and undergrowth.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

At 4.60 chs., spur, slopes N. about 6 chs. dist.; desc. 95 ft., along general NW. slope.

At 12.20 chs., wash, 20 lks. wide, 3 ft. deep, in the bottom of gulch, drains NW. approximately 7 chs. dist., thence northeasterly; asc. abrupt SE. slope 295 ft.

At 18.80 chs., top of nearly perpendicular brown sandstone ledge, 80 ft. high, bears E. and W.

At 33.60 chs., spur, slopes NE. about 3 chs. dist.; desc. steep NW. slope 155 ft.

At 39.50 chs., top of nearly perpendicular brown sandstone ledge, 80 ft. high, bears NE. and SW.

At 54.00 chs., wash, 30 lks. wide, 4 ft. deep, in the bottom of Good Water Canyon, drains NE.; seeps and small springs of good clear water rise in several places in the bottom of this canyon, NE. and SW. of line; asc. abrupt SE. slope 70 ft.

At 56.57 chs., end of course, intersect the 40.00 chs. point on true line bet. secs. 9 and 10; set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 6 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 9 | S 10

1933

At the base of the monument, I deposit a sandstone, 8x5x2 ins., marked with a cross (X).

From this $\frac{1}{4}$ sec. cor. by direct measurement, on traverse line,

N.45°00'E., 56.57 chs. dist.; then offset

East, 40.03 chs. dist. to the true point for the cor. of secs. 2, 3, 10, and 11.

Land, steep and mountainous; nearly barren and rugged with outcroppings, large boulders, sliderock, and series of high broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic rock, red and blue shale, and blue limestone; drainage E. and NE. by deep canyons, gulches, and gorges into the Buckhorn Draw.

Soil, shallow red sand, and alternate layers of red sand and varied colored clays or shale, lying on shale or sandstone bedrock, 4th. rate.

Timber, sparse to medium heavy growth of cedar and pinon pine.

Undergrowth, sparse to scattering black and buck brush, mountain rush, and service berry bushes.

Grazing, scattering growth of bunch grass.

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	From the true point for the cor. of secs. 2, 3, 10, and 11,
	West, on a true line bet. secs. 3 and 10.
	Desc. abrupt rough SW. slope 170 ft., through scattering timber and undergrowth.
7.50	Base of abrupt descent, bears NW. and SE.; desc. gradually 45 ft., over broken top of bench or mesa.
7.70	Enter a medium heavy growth of timber, bears NW. and SE.
21.00	Leave medium heavy growth of timber, bears N. and S., and enter scattering.
21.20	W. edge of bench or mesa, bears N. and S.; desc. steep W. slope 90 ft.
23.50	Base of descent, bears N. and S.; over level bottom of Buckhorn Draw.
25.00	Wash, 80 lks. wide, 5 ft. deep, drains S.20°E.
25.90	Wagon road, bears N.20°W. to Huntington and Castle Dale, Utah and S.20°E. to the San Rafael Swell.
27.00	Leave level bottom of Buckhorn Draw, bears N.30°W. and S.30°E.; begin abrupt ascent of 75 ft., over NE. slope.
30.10	Top of nearly perpendicular red sandstone ledge or E. rim of bench, 20 ft. high, bears N.30°W. and S.30°E.; asc. gradually 70 ft., over rolling and broken top.
38.00	W. edge of bench, bears N.60°W. and S.60°E.; asc. more abruptly 20 ft., over NE. slope to
40.01	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 6 ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{S\ 3}{S\ 10}$$
1933

At the base of the monument, I deposit a sandstone, 4x3x1 ins., marked with a cross (X); also witness the cor. by

A pinon pine limb, 5 ins. diam., bears N.72°00'E., 66 lks. dist., mkd. ¼ S 3 B T.

A pinon pine, 8 ins. diam., bears S.33°30'E., 58 lks. dist., mkd. ¼ S 10 B T.

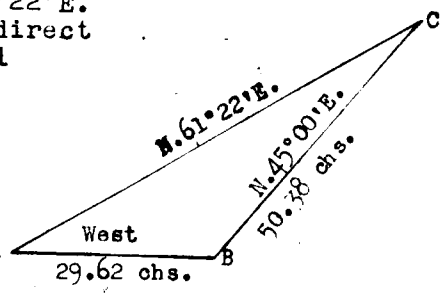
41.30	Top of ascent, 25 ft. above ¼ sec. cor., bears SE. and SW.; desc. NW. slope 105 ft.
41.50	The N. extremity of a sandstone spur, projecting from the S., bears S. about 3.50 chs. dist.
53.10	Good Water Canyon, drains NE.; seeps and small springs of good clear water rise in several places in the bottom of this canyon, NE. and SW. of line; asc. abrupt rough SE. slope 150 ft. to
60.20	Base of impassable and nearly perpendicular red sandstone

Chains

ledge, about 400 ft. high, bears N.20°E. and S.20°W.

Chaining is impracticable on the greater part of the distance from the base of this ledge to the true point for the cor. of secs. 3, 4, 9, and 10, owing to high and impassable ledges or nearly perpendicular walls on the sides of canyon and gorge. Therefore, I return to the bench near the ¼ sec. cor. bet. secs. 3 and 10, the most suitable site for a base line, and triangulate as follows:

Set a flag A on line west approximately 30 chs. dist. from the ¼ sec. cor. bet. secs. 3 and 10, and designate this ¼ sec. cor. as point B; then from point B, measure a base line N.45°00'E. 50.38 chs. dist. to a flag C, which from flag A bears N.61°22'E.
All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 28°38'
Angle at point B = 135°00'
Angle at flag C = 16°22'

Length of the E. ½ mile bet. secs. 3 and 10...=40.01 chs.
Distance from the ¼ sec. cor. bet. secs. 3 and 10 or point B to flag A.....=29.62 chs.
Distance from the true point for the cor. of secs. 2, 3, 10, and 11 to flag A.....=69.63 chs.
or at

69.63 Triangulation flag A, 435 ft. above the base of the ledge noted at 60.20 chs., on top of sandstone spur, which projects NE. about 8 chs. dist., thence easterly; over nearly level top by direct measurement to

70.73 The mean of two determinations of the distance to this point from the true point for the cor. of secs. 2, 3, 10, and 11, the 2nd. determination hereinafter described.

Set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 6 ft. base, 3 ft. high, for witness cor. to the cor. of secs. 3, 4, 9, and 10, with brass cap mkd.

T20S | R11E
WC — S4 | S3
S9 | S10
1933

There are no trees available for marking as bearing trees.

72.10 W. edge of the spur and top of nearly perpendicular red sandstone ledge or E. wall of gorge, about 400 ft. high, bears NE. and SW. From the top of this ledge, chaining and the projection of the line are impracticable.

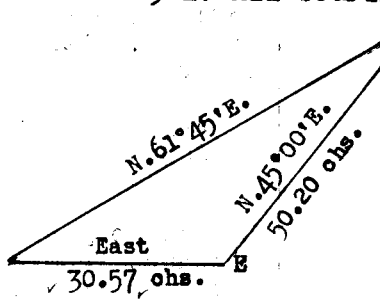
77.00 Approximate distance. Bottom of gorge or boxed gulch, about 500 ft. below top of spur, drains NE. approximately 7 chs. dist. into a gulch draining from the W. to E.

80.03 True point for the cor. of secs. 3, 4, 9, and 10, falls on the nearly perpendicular sandstone ledge or W. wall of the gorge, about 200 ft. above bottom.

I verify the distances to topography and the positions of the ¼ sec. cor. bet. secs. 3 and 10 and the witness cor.

Chains	
	to the cor. of secs. 3, 4, 9, and 10, as follows:
	From the 72.10 chs. point by direct measurement,
	East, bet. secs. 3 and 10.
1.37	Intersect the witness cor. to the cor. of secs. 3, 4, 9 and 10.
1.55	Point identical with the 70.53 chs. point by the 1st. determination of the distance bet. secs. 3 and 10. From this point I triangulate the distance to the ¼ sec. cor. bet. secs. 3 and 10 as follows:

Set a flag D at the 1.55 chs. point, and designate the ¼ sec. cor. bet. secs. 3 and 10 as point E. Then, from point E, measure a base line N.45°00'E. 50.20 chs. dist. to a flag F, which from flag D, bears N.61°45'E. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced 180°.



Angle at flag D = 28°15'
Angle at point E = 135°00'
Angle at flag F = 16°45'

Distance from flag D to the ¼ sec. cor. bet. secs. 3 and 10 or point E.....=30.57 chs.
Distance from the witness cor. to the cor. of secs. 3, 4, 9, and 10 to flag D.....= 0.18 chs.
30.75 chs.

Thence, from the ¼ sec. cor. bet. secs. 3 and 10 by direct measurement,

East, 40.00 chs. dist. to the true point for the cor. of secs. 2, 3, 10, and 11.

40.00 chs. plus 30.75 chs. gives the distance from the witness cor. to the cor. of secs. 3, 4, 9, and 10 to the true point for the cor. of secs. 2, 3, 10, and 11.

Distance from the true point for the cor. of secs. 2, 3, 10, and 11 to flag D by the 1st. determination of the distance bet. secs. 3 and 10 is 70.53 chs., which added to 0.18 chs., the distance from flag D to the witness cor. to the cor. of secs. 3, 4, 9, and 10, gives 70.71 chs.

Therefore, the mean of the two determinations of the distances from the true point for the cor. of secs. 2, 3, 10, and 11 to the witness cor. to the cor. of secs. 3, 4, 9, and 10 is 70.73 chs.

Land, abrupt and mountainous, E. 7.50 chs. and W. 42.03 chs.; rolling, rough, and broken tops and sides of benches or mesas, remainder of mile; surface rock, outcroppings, large boulders, sliderock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone, red and blue shale, and blue limestone; general drainage to the S. and SE. by the Buckhorn Draw.

Soil, shallow red sand or clay, and alternate layers of red sand and varied colored clays or shale, lying on shale sandstone, or limestone bedrock, 3rd. and 4th. rate; deep red sand and sandy loam in the bottom of Buckhorn Draw, 1st. rate.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Timber, cedar and pinon pine; scattering and groves of cottonwood along the bottom of Buckhorn Draw.
	Undergrowth, sparse to medium dense yellow top, shadscale, mountain rush, service berry bushes, and black and buck brush; scattering to dense greasewood and rabbit brush grow along the bottom of Buckhorn Draw.
	Grazing, poor to fair growth of gramma and bunch grass.
	N.0°06'W. on a random line bet. secs. 3 and 4, for a distance of approximately 35 chs. from the true point for the cor. of secs. 3, 4, 9, and 10, which is inaccessible, chaining and the projection of the line are impracticable, owing to series of high and impassable ledges on the sides of gorges or gulches. Therefore, as it is almost impossible to determine any portion of the distance of the S. ½ mile by triangulation, I offset from the true point for the cor. of secs. 3, 4, 9, and 10.
	East, 40.01 chs. dist. to the ¼ sec. cor. bet. secs. 3 and 10; then on traverse lines as follows:
	N.16°00'W., 37.10 chs. dist.; thence
	N.54°30'W., 33.90 chs. dist.; thence
	S.8°00'W., 16.18 chs. dist. to random line.
	Thence, on random line bet. secs. 3 and 4,
	N.0°06'W., 0.67 chs. dist., or at
40.00	Set temp. ¼ sec. cor.
	Thence, continue on random line,
	N.0°06'W., bet. secs. 3 and 4.
80.00	Set temp lot cor.
86.60	Intersect the N. bdy. of the Tp., west 15 lks. dist. from the cor. of secs. 3, 4, 33, and 34, which is an iron post, 3 ins. diam., extending 18 ins. above ground, firmly set in a mound of stone, 3 ft. base, 1 ft. high, correctly marked, and witnessed on the W. by a mound of stone, 2 ft. base, 1½ ft. high, as described in the official record of the survey of T. 19 S., R. 11 E.
	Thence,
	South, on a true line bet. secs. 3 and 4.
	Asc. abruptly 35 ft., over rough and barren NW. slope.
1.60	Rugged and barren red sandstone spur, slopes W. approximately 10 chs. dist.; steep descent of 150 ft. over rough SW. slope to
6.40	Set an iron post, 3 ft. long, 1 in. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 6 ft. base, 2¾ ft. high, for witness cor. to the cor. of lots Nos. 4 and 5, sec. 3, and lots Nos. 1 and 8, sec. 4, with brass cap mkd.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	1 | 4 S 4 ——— S 3 8 | 5 W | C 1933
6.60	Mark a cross (X) at the true point for the cor. of lots Nos. 4 and 5, sec. 3, and lots Nos. 1 and 8, sec. 4, which falls on top and near S. edge of a nearly perpendicular red sandstone ledge, 20 ft. high, bearing NW. and S
11.60	Leave rugged sandstone surface, 105 ft. below lot cor., bears NW. and SE.; enter scattering timber and undergrow over rolling and broken land, across the bottom of Buckhorn Draw.
15.60	N. bank of wash, 5 ft. high, bears NW. and SE., 10 ft. below sandstone surface; wash drains SE.
19.30	Wagon road in wash, bears NW. to Huntington and Castle Dale, Utah and SE. to the San Rafael Swell.
23.10	S. bank of the wash, 6 ft. high, bears NW. and SE.
28.00	Leave rolling and broken land in bottom of Buckhorn Draw 10 ft. above S. bank of wash, bears NW. and SE.; asc. N. slope 30 ft.
31.30	Spur, projects E. about 5 chs. dist.; desc. 20 ft.
35.00	Head of draw, drains SE.; abrupt ascent of 90 ft.
42.90	Spur, slopes SE. about 2 chs. dist.; desc. SW. slope 15 ft. to
46.60	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 5½ ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 4 | S 3 1933
	from which
	A pinon pine, 4 ins. diam., bears N.81°15'E., 16 lks. dist., mkd. ¼ S 3 B T.
	A cedar, 10 ins. diam., bears S.36°15'W., 40 lks. dist., mkd. ¼ S 4 B T.
47.27	On SW. slope, 10 ft. below ¼ sec. cor., the point of intersection of the traverse line with the random line bet. secs. 3 and 4, bears W. 7 lks. dist.
	From this station, I describe and give the approximate distances and elevations to topography on the remainder of mile, counting from the cor. of secs. 3, 4, 33, and 34, on the N. bdy. of the Tp., as follows:
58.10	Gulch, 10 ft. below the 47.27 chs. point, drains E.; precipitous ascent of 800 ft., over NW. slope.
65.10	Sharp, rugged spur, projects NE. approximately 20 chs. dist.; abrupt descent of 1000 ft., over series of high, broken, sloping, and nearly perpendicular ledges, on SE. slope.
79.60	Gorge, drains easterly; steep ascent of 200 ft. along the rugged W. side of gorge to

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
36.60	The true point for the cor. of secs. 3, 4, 9, and 10.
	From the 39.33 chs. point on random line bet. secs. 3 and 4, on traverse line,
	N.8°00'E., 16.18 chs. dist. At the beginning of course, asc. gradually 15 ft., over SW. slope, through scattering timber and undergrowth.
	At 4.40 chs., spur, projects E. approximately 7 chs. dist.; desc. 80 ft., across the head of draw, draining E.
	At 16.18 chs., end of course, on top of spur, projecting E. about 3 chs. dist.
	Thence, on traverse line
	S.54°30'E., 33.90 chs. dist. At the beginning of course, desc. 85 ft., over rolling bottom of Buckhorn Draw.
	At 12.70 chs., Buckhorn wash, 50 lks. wide, 4 ft. deep, drains SW.
	At 17.20 chs., same wash, 50 lks. wide, 4 ft. deep, drains SE.
	At 18.30 chs., same wash, 60 lks. wide, 5 ft. deep, drains S.
	At 25.70 chs., a wash from E., 30 lks. wide, 6 ft. deep, drains W. about 1.50 chs. dist. into Buckhorn wash.
	At 33.90 chs., end of course.
	Thence, on traverse line
	S.16°00'E., 37.10 chs. dist. At the beginning of course, desc. gradually 10 ft.; over rolling bottom of Buckhorn Draw.
	At 4.10 chs., stream of clear alkali water, 3 lks. wide, 2 ins. deep, in Buckhorn wash, 70 lks. wide, 4 ft. deep, course southeasterly; asc. gradually 35 ft., over NE. slope.
	At 4.60 chs., a wagon road, bears NW. to Huntington and Castle Dale, Utah and SE. to the San Rafael Swell.
	At 17.30 chs., top of ascent, bears NW. and SW.; gradual descent of 15 ft.
	At 19.20 chs., wash, 30 lks. wide, 7 ft. deep, in the bottom of Good Water Canyon, drains NE. approximately 5 chs. dist. into Buckhorn Draw; asc. gradually 100 ft. to the ¼ sec. cor. bet. secs. 3 and 10, over gently rolling top of bench.
	At 37.10 chs., end of course, intersect the ¼ sec. cor. bet. secs. 3 and 10.
	Description on true line:
	Land, steep and mountainous, and nearly barren, and rugged with outcroppings, large boulders, sliderock, and series of high broken, sloping, and nearly perpendicular ledges

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8185

Chains	
	of varied colored sandstone, conglomerate of sandstone and volcanic rock, red and blue shale, and blue limestone on N. 11.60 chs. and S. 58.60 chs.; rolling and broken, across bottom of Buckhorn Draw, remainder of mile; drainage easterly and SW. into Buckhorn Draw, thence southeasterly.
	Soil, shallow red sand, and alternate layers of red sand and varied colored clays or shale, lying on shale or on sandstone and limestone bedrock, 4th. rate. Red sand and sandy loam, several ft. deep, in the bottom of Buckhorn Draw, 1st. rate.
	Timber, sparse to a medium heavy growth of cedar and pinon pine; scattering and groves of cottonwood along the bottom of Buckhorn Draw.
	Undergrowth, yellow top, shadscale, mountain rush, black and buck brush, and service berry bushes; dense greasewood and rabbit brush grow along the bottom of Buckhorn Draw.
	Grazing, sparse to scattering bunch grass; a fair growth of gramma grass on the rolling and broken land in Buckhorn Draw.
	From the standard cor. of secs. 32 and 33, on the S. bdy. of the Tp., hereinbefore described,
	N.0°03'W., bet. secs. 32 and 33.
	Asc. 15 ft., over rolling and broken land, on general SE. slope, through scattering undergrowth.
2.50	Spur, projects E.; desc. 15 ft.
4.10	Draw, drains E.; asc. 20 ft.
7.10	Spur, projects N.70°E. about 8 chs. dist.; desc. 20 ft.
14.50	Draw, drains E.; asc. abruptly 495ft.
22.00	Wash, 30 lks. wide, 2 ft. deep, drains E.
31.20	Ascent becomes more abrupt, over large sandstone boulders.
39.50	Leave boulders at the base of a nearly perpendicular brown sandstone ledge or rim of bench or mesa, 95 ft. high, bears NE. approximately 15 chs. dist., thence N.10°W., and SW. about 10 chs. dist., thence S.10°W.
39.80	Top of the ledge or rim, bears same as the base; over rough and broken top of bench or mesa.
40.00	At the top of ascent, bearing NE. and SW., 5 ft. above the top of ledge or rim, set an iron post, 3 ft. long, 1 in. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 5 ft. base, $2\frac{3}{4}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 32 | S 33

1931

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	from which
	A pinon pine, 6 ins. diam., bears N.17°45'E., 280 lks. dist., mkd. ¼ S 33 B T.
	A pinon pine, 16 ins. diam., bears N.77°30'W., 313 lks. dist., mkd. ¼ S 32 B T.
40.50	Enter a medium heavy growth of timber, bears NE. and SW.
52.00	Head of draw, 20 ft. below ¼ sec. cor., drains N.60°W.; asc. 155 ft., along SW. slope.
62.00	Ascent becomes more abrupt.
68.50	Top of ascent, bears NE. and SE.; the N. extremity of the top of a knoll, bears E. 1.50 chs. dist.; the length of the top of the knoll is about 20 chs., and bears approximately N.30°W. and S.30°E.; desc. abrupt NW. slope 180 ft.
77.70	Head of draw, drains NW.; asc. gradual SW. slope 10 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 6½ ft. base, 2¾ ft. high, for cor. of secs. 28, 29, 32, and 33, with brass cap mkd.

T20S | R11E
S29 | S28
S32 | S33
1931

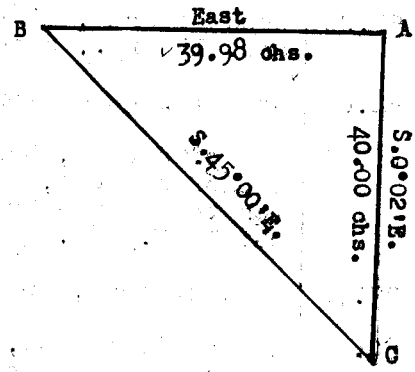
	from which
	A pinon pine, 10 ins. diam., bears N.34°45'E., 75 lks. dist., mkd. T 20 S R 11 E S 28 B T.
	A pinon pine, 8 ins. diam., bears S.35°00'E., 167 lks. dist., mkd. T 20 S R 11 E S 33 B T.
	A pinon pine, 6 ins. diam., bears S.29°30'W., 73 lks. dist., mkd. T 20 S R 11 E S 32 B T.
	A pinon pine, 8 ins. diam., bears N.56°45'W., 202 lks. dist., mkd. T 20 S R 11 E S 29 B T.
	Land, rolling and broken, and rough with outcroppings, large boulders, sliderock, and rims of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale; drainage NE., S. ½ mile; N. ½ mile drains NW.
	Soil, shallow red sand or clay, and alternate layers of red sand and varied colored clays or shale, lying on shale or on sandstone bedrock, 4th. rate.
	Timber, cedar and pinon pine.
	Undergrowth, yellow top, shadscale, mountain rush, black and buck brush, and service berry bushes.
	Grazing, a sparse to scattering growth of bunch grass.
	East, on a random line bet. secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
41.50	Top of a series of high, broken, and nearly perpendicular ledges, which make chaining impracticable; so I determine the length of the E. ½ mile by triangulation as follows:

Set a flag A on line S.0°02'E. 4 lks. dist. from the cor. of secs. 27, 28, 33, and 34, and erect a flag B on the temp. ¼ sec. cor. bet. secs. 28 and 33. From flag B, a flag C set S.0°02'E. 4 lks. dist. from the ¼ sec. cor. bet. secs. 33 and 34, bears S.45°00'E.

The bearing of the base line from flag A to flag C is S.0°02'E., and the length is 40.00 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 90°02'
Angle at flag B = 45°00'
Angle at flag C = 44°58'

Distance from the cor. of secs. 28, 29, 32, and 33 to the temp. ¼ sec. cor. bet. secs. 28 and 33 or flag B..... = 40.00 chs.
Distance from flag B to flag A by triangulation..... = 39.98 chs.
Length of the line bet. secs. 28 and 33.... = 79.98 chs., or at

79.98	Intersect N. and S. line, 4 lks. S. of the cor. of secs. 27, 28, 33, and 34.

Thence,

S.89°58'W., on a true line bet. secs. 28 and 33.

Asc. gradually 25 ft., over gentle E. slope, through scattering timber and undergrowth.

16.00	Wash, 40 lks. wide, 3 ft. deep, drains S.70°E.
23.20	Leave gently rolling land or gradual E. slope; begin precipitous ascent of 570 ft. to ¼ sec. cor., over rugged general SE. slope.
35.50	Base of a series of broken, sloping, and perpendicular ledges, 240 ft. high, bears N.30°E. about 12 chs. dist., thence westerly, and S.30°W. approximately 10 chs. dist., thence westerly.
38.50	Top of the series of ledges, bears same as the base.
39.98	Triangulation flag B, bears south 2 lks. dist.
39.99	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼ S 28 / S 33 1931

raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.

There are no trees available, suitable for marking.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
41.70	Red clay and sandstone spur, 40 ft. above ¼ sec. cor., projects NE. approximately 12 chs. dist.; desc. 10 ft.
48.00	Head of draw, drains N.; asc. abrupt NE. slope 155 ft.
49.30	Top of nearly perpendicular yellow sandstone ledge, 65 ft. high, bears S. about 1 ch. dist., thence easterly, and NW. approximately 12 chs. dist.
51.50	Top of sandstone butte, about 75 ft. high, bears S. 1.50 chs. dist.
52.50	Sandstone spur, projects N.20°W. about 20 chs. dist., thence northeasterly; desc. abruptly 305 ft., over broken SW. slope.
57.20	Top of nearly perpendicular brown sandstone ledge, 25 ft. high, bears N. and southwesterly.
65.50	Base of steep descent, bears NW. and SE.; asc. gradually 70 ft. to sec. cor., over SW. slope.
66.00	Enter a heavy growth of timber, bears NW. and SE.
72.90	Wash, 30 lks. wide, 2 ft. deep, drains NW.
79.98	The cor. of secs. 28, 29, 32, and 33.
	Land, gently rolling E. slope, E. 23.20 chs.; steep and mountainous, and rugged with outcroppings, large boulders, sliderock, surface rock, and series of high, broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, red and blue shale, and blue limestone, W. 56.78 chs.; drainage to the NE., E. 52.50 chs.; remainder of mile drains to the NW.
	Soil, red sand, sandy loam, or clay, about 6 ins. to 2 ft. deep, lying on clay mixed with shale, 2nd. to 4th. rate, on E. 23.20 chs.; shallow red sand or alternate layers of red sand, varied colored clays, and shale, 4th. rate, on rough portions of mile.
	Timber, cedar and pinon pine.
	Undergrowth, yellow top, mountain rush, black and buck brush.
	Grazing, fair growth of gramma grass on E. 23.20 chs.; sparse to scattering bunch grass on rough portions of mile.
	N.0°03'W., bet. secs. 28 and 29.
	Over gently rolling top of bench or mesa, through a heavy growth of timber and scattering undergrowth; asc. gradually 20 ft.
7.80	Wash, 10 lks. wide, 2 ft. deep, drains W.
15.80	Wash, 20 lks. wide, 3 ft. deep, drains W.
20.20	Top of ascent, bears E. and W.; desc. gentle N. slope 30 ft. to ¼ sec. cor.
38.00	Leave dense and enter a medium heavy growth of timber, bears E. and W.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
40.00	Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 5½ ft. base 2½ ft. high, for ¼ sec. cor., with brass cap mkd.

¼

S 29 | S 28

1931

from which

A pinon pine, 5 ins. diam., bears S.33°00'E., 88 lks. dist., mkd. ¼ S 28 B T.

A pinon pine, 8 ins. diam., bears N.78°00'W., 80 lks. dist., mkd. ¼ S 29 B T.

43.70	Top of nearly perpendicular brown sandstone ledge or rim of bench or mesa, 45 ft. high, bears E. about 10 chs. dist., thence northerly, and SW. approximately 1.50 chs. dist., thence S.10°W., 20 ft. above ¼ sec. cor.; desc. rough, broken N. slope 350 ft.
51.10	Base of steep descent, bears E. and W.; desc. gradually.
61.10	Wash, 80 lks. wide, 4 ft. deep, in the bottom of gulch, formed by the junction of two gulches, one draining from S.15°E. and the other from S.25°W., drains N.15°W.; desc. gradually 25 ft. to sec. cor., over rolling and broken land on the sides of gulch.
71.60	Recross same wash as noted at 61.10 chs., 80 lks. wide, 4 ft. deep, drains N.20°E.
75.50	S. bank of same wash as noted at 71.60 chs., 5 ft. high, bears N.15°W. and S.15°E.; over level bottom, draining N.
79.50	N. bank of same wash as noted at 71.60 chs., 5 ft. high, bears N.15°W. and S.15°E.; over nearly level land to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, with brass cap mkd.

T20S | R11E

S20 | S21

S29 | S28

1931

from which

A cedar, 10 ins. diam., bears N.30°00'E., 123 lks. dist., mkd. T 20 S R 11 E S 21 B T.

A pinon pine, 6 ins. diam., bears S.36°45'E., 268 lks. dist., mkd. T 20 S R 11 E S 28 B T.

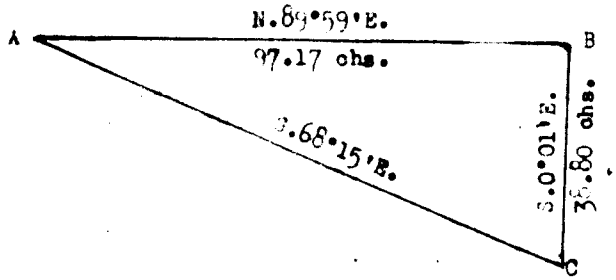
A cedar limb, 5 ins. diam., bears S.67°30'W., 314 lks. dist., mkd. T 20 S R 11 E S 29 B T.

A pinon pine, 8 ins. diam., bears N.35°15'W., 230 lks. dist., mkd. T 20 S R 11 E S 20 B T.

Land, gently rolling top of bench or mesa, S. 43.70 chs., rolling and broken land on the sides of gulch, N. 28.90 chs.; abrupt N. slope of bench or mesa with outcropping large boulders, sliderock, and broken, sloping, and near perpendicular ledges, on remainder of mile; varied color sandstone, conglomerate of sandstone and volcanic rock,

Chains	
	and red and blue shale; general drainage to the N.
	Soil, shallow red sand and varied colored clays, lying on bedrock, 4th. rate, on top of bench or mesa, S. 43.70 chs.; red sand and sandy loam, several ft. deep, along and near the bottom of gulch, 1st. and 2nd. rate, N. 18.90 chs.; alternate layers of red sand, varied colored clays, and shale, 4th. rate, on remainder of mile.
	Timber, cedar and pinon pine.
	Undergrowth, yellow top, mountain rush, black and buck brush, and service berry bushes.
	Grazing, scattering to fair growth of bunch grass.
	N.89°58'E., on a random line bet. secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
64.10	High and nearly perpendicular ledge or rim of spur makes chaining impracticable. Therefore, I determine the distance from the 62.80 chs. point to the cor. of secs. 21, 22, 27, and 28 by triangulation as follows:

On account of the country being rugged, there are no suitable sites for base lines near the line bet. secs. 21 and 28, so I use a portion of the E. boundaries of secs. 22 and 27 as a base line. I erect a flag A at the 62.80 chs. point; then set a flag B, N.89°59'E. on line on the tangent N.0°01'W. 4 lks. dist. from the cor. of secs. 22, 23, 26, and 27. From flag A, a flag C set at the 41.24 chs. point bet. secs. 26 and 27, bears S.68°15'E. The bearing of the base line from flag B to flag C is S.0°01'E., and the length 38.80 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 21°46'
Angle at flag B = 90°00'
Angle at flag C = 68°14'

Distance by triangulation from flag A at the 62.80 chs. point bet. secs. 21 and 28 to flag B on the E. bdy. of sec. 22..... = 97.17 chs.
Length of the line bet. secs. 22 and 27..... = 80.00 chs.
Distance from flag A at the 62.80 chs. point bet. secs. 21 and 28 to the cor. of secs. 21, 22, 27, and 28..... = 17.17 chs.,
which added to 62.80 chs. gives 79.97 chs., or at

79.97	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 21, 22, 27, and 28.
	Thence,

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	S.89°59'W., on a true line bet. secs. 21 and 28.
	Asc. abrupt, rugged, and broken general SE. slope 725 ft through scattering undergrowth.
4.50	Top of nearly perpendicular brown sandstone ledge, 80 ft high, bears NE. and SW.
15.90	Top of nearly perpendicular red sandstone ledge or rim of spur, 315 ft. high, bears NE. and SW.; gradual ascent of 10 ft., over nearly level top.
17.17	Triangulation flag A, bears north 1.6 lks. dist.
20.20	Spur or top of ascent, bears NE. and SW.; desc. 390 ft. to the true point for ¼ sec. cor., over rough and broken NW. slope.
21.00	Enter scattering timber.
30.00	Top of nearly perpendicular red sandstone ledge, 140 ft. high, bears northwesterly and S.; from the base of this ledge, desc. abruptly over sandstone surface to
37.00	Top of nearly perpendicular red sandstone ledge, 105 ft. high, bears NW. and SE. about 5 chs. dist., thence southwesterly; slope changes from NW. to SW.
39.98	True point for the ¼ sec. cor. falls on the S. face of a red sandstone boulder, 15x10x10 ft., where it is impracticable to establish a cor. monument, but mark a cross (X)
40.37	At the base of a nearly perpendicular red sandstone ledge 15 ft. high, bearing NW. and SE., set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, and in a mound of stone, 3½ ft. base; 1 ft. high, for witness cor. to the ¼ sec. cor., with brass cap mkd.
	¼ S 21 / S 28 WC 1931
	At the base of the monument, I deposit a sandstone, 8x4x2 ins., marked with a cross (X).
	All available trees are too scrubby for marking.
	The witness cor. stands 15 ft. below the true point for the ¼ sec. cor.
40.80	Enter a medium heavy growth of timber, bears NW. and SE.
55.90	Gulch, 235 ft. below the witness cor. to the ¼ sec. cor., drains NW.; asc. NE. slope 95 ft.
64.80	Top of ascent, bears N. and S.; enter a heavy growth of timber, bears N. and S.; desc. gradually 15 ft. to
67.20	Top of nearly perpendicular red sandstone ledge, 75 ft. high, bears N. and S.; leave heavy growth of timber, bears N. and S., and enter scattering; desc. 450 ft. to sec. cor., over abrupt general W. slope.
74.30	Base of abrupt descent, bears N. and S.; over rolling and broken land to
79.97	The cor. of secs. 20, 21, 28, and 29.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Land, abrupt and mountainous, and rugged with outcroppings, large boulders, sliderock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale, E. 74.30 chs.; rolling and broken, W. 5.67 chs.; drainage to the N. and NE.
	Soil, shallow and rocky red sand and varied colored clays, lying alternately on layers of shale and clay or on sandstone bedrock, 4th. rate. Surface rock exposed on greater portion of mile.
	Timber, cedar and pinon pine.
	Undergrowth, black brush, service berry bushes, shadscale, mountain rush, and yellow top.
	Grazing, sparse to scattering growth of gramma and bunch grass.
	N.0°03'W., bet. secs. 20 and 21.
	Over rolling and broken land, through medium heavy growth of timber and undergrowth; desc. gradually 15 ft., along E. side and near bottom of gulch, draining northerly.
9.70	Wash, 100 lks. wide, 6 ft. deep, in the bottom of gulch, drains NE.; gradual ascent of 10 ft.
15.30	Spur, projects NE. about 2.50 chs. dist.; gradual descent of 15 ft.
26.00	Recross same wash as noted at 9.70 chs., 80 lks. wide, 5 ft. deep, in the bottom of gulch, drains N.80°W. about 2 chs. dist., thence N.15°W.; asc. gradually 10 ft. along gentle W. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd. ¼ S 20 | S 21 1931 from which A pinon pine, 14 ins. diam., bears S.19°30'E., 118 lks. dist., mkd. ¼ S 21 B T. A pinon pine, 4 ins. diam., bears N.68°45'W., 232 lks. dist., mkd. ¼ S 20 B T.
41.50	Top of ascent, 10 ft. above ¼ sec. cor., bears NW. and SE.; gradual descent of 25 ft.
42.50	Wash, 70 lks. wide, 4 ft. deep, drains W. approximately 4 chs. dist. into the main wash in the bottom of gulch.
58.70	Recross same wash as noted at 26.00 chs., 80 lks. wide, 5 ft. deep, in the bottom ofgulch, drains NE.; asc. precipitous rugged and broken SE. slope 945 ft. to sec. cor.
65.00	Mark point for offsetting; timber becomes scattering, bearing NE. and SW.

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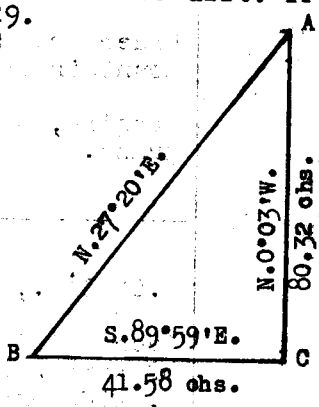
SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
76.50	Nearly perpendicular red sandstone ledge on N. rim of gulch, about 400 ft. high and bearing NE. and SW., mak chaining impracticable; so I determine the entire leng of the mile bet. secs. 20 and 21 by triangulation as fo lows:

I use as a base line the east 41.58 chs. of the random line bet. secs. 20 and 29, heretofore established. Set flag A on line N.0°03'W. from the cor. of secs. 20, 21, 28, and 29; then erect a flag B at the 38.38 chs. point on the random line bet. secs. 20 and 29, and also set a flag C at the intersection of this random line with the line bet. secs. 20 and 21 or N.0°03'W. 2 lks. dist. fro the cor. of secs. 20, 21, 28, and 29.

The bearing of the base line B to C is S.89°59'E. From flag B, flag A bears N.27°20'E. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 27°23'
Angle at flag B = 62°41'
Angle at flag C = 89°56'

Distance from flag C to flag A..... = 80.32 chs.
Distance from the cor. of secs. 20, 21, 28, and 29 to flag C..... = 0.02 chs.
Distance from the cor. of secs. 20, 21, 28, and 29 to flag A..... = 80.34 chs.

Thence, from flag A

S.0°03'E., 0.34 chs. dist., or at

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in t ground to solid rock, and in a mound of stone, 5 ft. bas 2 ft. high, for cor. of secs. 16, 17, 20, and 21, with brass cap mkd.

T20S	R11E
S17	S16
S20	S21

1931

from whic

A pinon pine limb, 6 ins. diam., bears S.65°30'E., 42 lks. dist., mkd. T 20 S R 11 E S 21 B T.

There are no other trees within a reasonable distance, suitable for marking; therefore, at the base of the monu ment, I deposit a sandstone, 9x6x1 ins., marked with a cross (X).

Land, rolling and broken, along bottom of gulch, S. 58.7 chs.; steep and broken, and rugged with outcroppings, large boulders, sliderock, and broken, sloping, and nea perpendicular ledges and rims of varied colored sandsto conglomerate of sandstone and volcanic formation, and r and blue shale, on SE. slope of gulch, N. 21.30 chs.; general drainage to the N. and NE.

Soil, red sand and sandy loam, several ft. deep, along near the bottom of gulch, 1st. and 2nd. rate, S. 58.70 chs.; shallow and rocky red sand and varied colored cla

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	lying alternately on layers of shale and clay or on sandstone bedrock, 4th. rate, on N. 21.30 chs.
	Timber, cedar and pinon pine.
	Undergrowth, scattering to medium dense growth of yellow top, mountain rush, shadscale, black, buck, and rabbit brush, and service berry bushes.
	Grazing, a fair growth of gramma, salt, and bunch grass, along and near bottom of gulch.
	N.89°59'E., on a random line bet. secs. 16 and 21.
	E. for a distance of approximately 25 chs., chaining and the projection of the line are impracticable, on account of the line passing over series of high and impassable nearly perpendicular ledges and rims on the SE. side and near the top of a sandstone spur; therefore, from the cor. of secs. 16, 17, 20, and 21, I offset
	S.0°03'E. 15.00 chs. dist. to the 65.00 chs. point bet. secs. 20 and 21; then on offset line
	N.89°59'E., 38.00 chs. dist.; then offset
	N.0°03'W., 15.00 chs. dist. to random line bet. secs. 16 and 21.
	Thence,
	N.89°59'E., on random line.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 15, 16, 21, and 22.
	Thence,
	S.89°57'W., on a true line bet. secs. 16 and 21.
	Desc. gentle NW. slope 25 ft., over rolling and broken land, through scattering timber and undergrowth.
3.00	Wash, 35 lks. wide, 12 ft. deep, drains N.15°W.
11.80	Wash, 20 lks. wide, 3 ft. deep, in the bottom of gulch, drains N. about 3.50 chs. dist. into a main wash, thence N.60°E.; asc. gradually 20 ft.
16.90	Spur, slopes NE. about 3 chs. dist.; gradual descent of 15 ft.
20.60	Wash, 80 lks. wide, 4 ft. deep, in the bottom of gulch, drains N.60°E.; asc. gradual broken SE. slope 40 ft. to
35.20	Begin more abrupt ascent of 80 ft. to ¼ sec. cor., over rough and broken SE. slope.
39.99	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to solid rock, and in a mound of stone, 5 ft. base, 1½ ft. high, for ¼ sec. cor., with brass cap mkd.

$\frac{1}{4}$ $\frac{S\ 16}{S\ 21}$

1931

Chains	
	At the base of the monument, I deposit a sandstone, 8x3x ins., marked with a cross (X).
	There are no trees within a reasonable distance suitable for marking.
	Continue abrupt ascent of 250 ft. to base of impassable ledges, over rough SE. slope.
41.98	Point of offset on random line, bears south 2.5 lks. dist
55.00	Base of series of high and impassable ledges, bearing NE. and SW., on NW. side of gulch.
79.98	The cor. of secs. 16, 17, 20, and 21, about 600 ft. above the base of series of ledges.
	I return to the 41.98 chs. point, from the base of the series of ledges noted at 55.00 chs.
	Thence, offset **from the 41.98 chs. point**
	S.0°03'E., 15.00 chs. dist. At the beginning of course, desc. steep, rough, and broken SE. slope 270 ft., through scattering timber and undergrowth.
	At 8.20 chs., wash, 80 lks. wide, 4 ft. deep, in the bottom of gulch, drains N.70°E.; asc. general N. slope 35 ft.
	At 15.00 chs., end of offset.
	Thence, on offset line,
	S.89°57'W., 38.00 chs. dist. At the beginning of course, desc. 75 ft., over rolling and broken land, on general N. slope.
	At 5.10 chs., wash, 25 lks. wide, 3 ft. deep, drains N.
	At 31.10 chs., wash, 80 lks. wide, 5 ft. deep, in the bottom of gulch, drains N.60°E.; asc. abrupt rugged SE. slope 290 ft.
	At 38.00 chs., end of course.
	Thence, offset
	N.0°03'W., 15.00 chs. dist. to the cor. of secs. 16, 17, 20, and 21.
	Description on true line:
	Land, rolling and broken, and rough with outcroppings and large boulders, E. 55.00 chs.; abrupt NW. side of gulch or SE. slope of sandstone spur with series of high, broken, sloping, and nearly perpendicular ledges, W. 24.98 chs.; varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale; general drainage to the NE.
	Soil, red sand and varied colored clays, about 4 ins. to 3 ft. deep, lying on a clay subsoil, shale, or on sandstone bedrock, 3rd. and 4th. rate, E. 55.00 chs.; shallow red sand, lying on sandstone bedrock, 4th. rate, W. 24.98 chs.
	Timber, cedar and pinon pine.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

Undergrowth, yellow top, shadscale, mountain rush, rabbit brush, greasewood, and service berry bushes.

Grazing, sparse to scattering gramma and bunch grass.

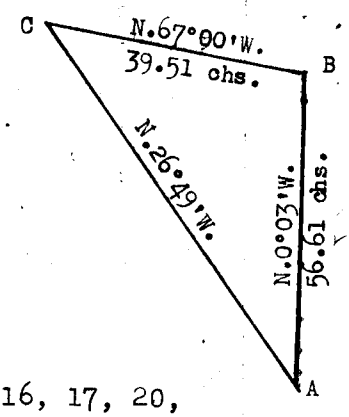
N.0°03'W., bet. secs. 16 and 17.

Over rough mountainous land, through scattering timber and undergrowth; asc. abrupt general SE. slope 20 ft.

0.70 Sandstone spur, projects N.70°E. approximately 30 chs. dist., thence northeasterly,

From this station, chaining is impracticable, on account of the line descending abruptly over series of high and nearly perpendicular ledges, bearing NE. and SW., on general NW. slope. Therefore, I make the following triangulation:

Set a flag A at the 0.70 chs. point, and erect a flag B on line N.0°03'W. about 55 chs. dist.; then from flag B, measure a base line N.67°00'W. 39.51 chs. dist. to a flag C, which from flag A bears N.26°49'W. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 26°46'
Angle at flag B = 113°03'
Angle at flag C = 40°11'

Distance from the cor. of secs. 16, 17, 20, and 21 to flag A.....= 0.70 chs.
Distance from flag A to flag B by triangulation.....= 56.61 chs.
Distance from the cor. of secs. 16, 17, 20, and 21 to flag B.....= 57.31 chs.

Thence from flag B,

S.0°03'E., 18.80 chs. dist. to

38.51 Leave series of ledges at the base of steep descent, bearing E. and W., 1095 ft. below flag A on top of spur.

Thence,

N.0°03'W.

Desc. gradual N. slope 40 ft. to

40.00 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼
S 17 | S 16
1931

from which

SUBDIVISION OF T. 20 S., R. 11 E.

Chains.	
	A cedar limb, 6 ins. diam., bears S.36°00'E., 69 lks. dist., mkd. ¼ S 16 B T.
	A cedar, 8 ins. diam., bears N.23°15'W., 102 lks. dist., mkd. ¼ S 17 B T.
41.30	Draw, 10 ft. below ¼ sec. cor., drains NE.; asc. S. slope 35 ft.
42.80	Top of ascent or knoll, bears E. and W.; desc. 45 ft.
43.00	Leave cedar and pinon pine timber, and enter scattering cottonwood.
43.10	Leave yellow top, shadscale, mountain rush, and service berry bushes, and enter dense undergrowth of rabbit brush, willows, and greasewood, bears E. and W., at the base of descent, bearing E. and W.; over nearly level bottom land of the San Rafael River.
44.10	S. edge of the San Rafael River, which is a stream of clear alkali water, 4 ft. deep, course N.80°E.
45.00	N. edge of the stream.
55.00	Leave cottonwood, enter scattering cedar and pinon pine timber.
55.40	Leave undergrowth of rabbit brush, willows, and greasewood, bears E. and W., and enter scattering yellow top, shadscale, mountain rush, black brush, and service berry bushes; leave bottom land, bears E. and W.; asc. SE. slope 345 ft.
57.31	Triangulation flag B.
59.00	Ascent becomes abrupt, slope changing from S. and SE. to W.
66.40	Top of nearly perpendicular red sandstone ledge, 65 ft. high, bears NW. and SE.
70.60	Top of ascent on steep W. slope; desc. gradually 15 ft.
78.00	Gulch, drains SW.; asc. SE. slope 85 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the ground to solid rock, and in a mound of stone, 4 ft. base, 1 ft. high, for cor. of secs. 8, 9, 16, and 17, with brass cap mkd.

T20S	R11E
S8	S9
S17	S16

1931

At the base of the monument, I deposit a sandstone, 8x7x1 ins., marked with a cross (X).

There are no trees available suitable for marking.

Land, abrupt and mountainous, and rough with outcroppings, large boulders, sliderock, and series of broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, red and blue shale, and blue limestone, S. 43.10 chs. and N.24.60 chs.; nearly level bottom land of the San Rafael River, remainder of mile; drainage into the San Rafael River, thence easterly.

SUBDIVISION OF T. 20 S., R. 11 E.

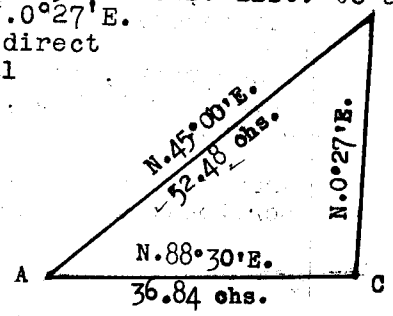
Chains	
	Soil, shallow red sand and varied colored clays, lying alternately on layers of clay, shale, sandstone, and limestone, 4th. rate, on S. 43.10 chs. and N. 24.60 chs.; red sand, sandy loam, and clay, several ft. deep, 1st. to 4th. rate, on the bottom land.
	Timber, cedar and pinon pine; scattering and groves of cottonwood on the bottom land.
	Undergrowth, yellow top, shadscale, mountain rush, rabbit brush, greasewood, willows, black brush, and service berry bushes.
	Grazing, scattering gramma and bunch grass on mountainous portions; dense growth of salt grass on bottom land.
	N.89°57'E., on a true line bet. secs. 9 and 16, for the true point for the cor. of secs. 9, 10, 15, and 16, is inaccessible.
	Desc. rugged SE. slope 25 ft., through scattering timber and undergrowth.
0.80	Gulch, drains SW.; asc. abrupt NW. slope 80 ft. to
2.20	Base of a series of high and nearly perpendicular ledges, bears northwesterly and southeasterly.
	E. from this station, chaining is impracticable, owing to the line passing along and near the top of the steep N. breaks of San Rafael River Canyon, over sandstone crags, pillars, pinnacles, and series of high ledges; therefore, I describe and give the approximate distances and elevations to topography on the remainder of mile, counting from the cor. of secs. 8, 9, 16, and 17, as follows:
8.00	Top of series of ledges noted at 2.20 chs., bears N. and S., on top of sandstone spur, projecting S. about 10 chs. dist., 360 ft. above gulch; steep descent of 400 ft.
22.00	Gulch, drains SE.; precipitous ascent of 600 ft. to ¼ sec. cor., over rugged S. slope.
39.99	The ¼ sec. cor., hereinafter described.
	Continue ascent of 500 ft. along and near the top of the N. side or breaks of the San Rafael River Canyon to
77.00	Rolling, rough, broken, and barren top of mountain or top of N. breaks of San Rafael River Canyon, bears N.80°W. and S.; desc. 25 ft. over top to
79.98	The true point for the cor. of secs. 9, 10, 15, and 16.
	I establish the ¼ sec. cor. bet. secs. 9 and 16 by the following method:
	From the ¼ sec. cor. bet. secs. 16 and 17, I project a line N.44°57'E. to an intersection with the true line bet. secs. 9 and 16. The point of intersection is the 40.00 chs. point bet. secs. 9 and 16.
	Thence, from this point of intersection
	S.89°57'W., 1 lk. dist., and set temp. ¼ sec. cor.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

To verify the position of the temp. ¼ sec. cor., I make the following triangulation:

Erect a flag A at the ¼ sec. cor. bet. secs. 16 and 17, then from this ¼ sec. cor., set a flag B, N.45°00'E. on the N. breaks of San Rafael River Canyon. From flag A, measure a base line N.88°30'E. 36.84 chs. dist. to a flag C, from which flag B bears N.0°27'E.
All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 43°30'
Angle at flag B = 44°33'
Angle at flag C = 91°57'

Distance from flag A to flag B by triangulation = 52.48 chs

Thence, from flag B by direct measurement

N.45°00'E., 4.14 chs. dist. to an intersection with the true line bet. secs. 9 and 16.

Thence, from this point of intersection

S.89°57'W., 8.1ks. dist. to the 39.99 chs. point bet. secs. 9 and 16, which is identical with the point for the temp. ¼ sec. cor., previously set by the method of intersection of the true line bet. secs. 9 and 16 and a line bearing N.44°57'E. from the ¼ sec. cor. bet. secs. 16 and 17.

At the 39.99 chs. point bet. secs. 9 and 16, set an iron post, 3 ft. long, 1 in. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2¾ ft. high, for ¼ sec. cor., with brass cap mkd.

¼ S 9 / S 16
1931

There are no trees available for marking as bearing trees.

This cor. stands on the top of a broad sandstone shelf on the N. side of San Rafael River Canyon, 935 ft. above the ¼ sec. cor. bet. secs. 16 and 17.

Land, steep and mountainous, and rugged with outcroppings, large boulders, sliderock, surface rock, and broken, sloping, and nearly perpendicular ledges and rims of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale; general drainage easterly.

Soil, shallow red sand and varied colored clays, lying alternately on layers of clay, shale, and sandstone, 4th. rate.

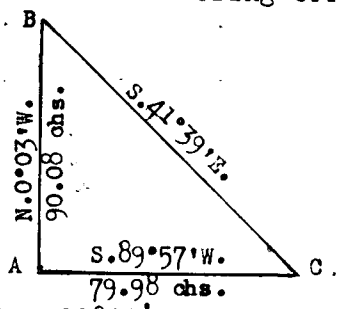
Timber, scrubby cedar and pinon pine.

Undergrowth, yellow top, shadscale, mountain rush, black brush, and service berry bushes.

Grazing, sparse growth of bunch grass.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	From the cor. of secs. 8, 9, 16, and 17
	N.0°03'W., bet. secs. 8 and 9.
	Asc. abrupt and rugged SE. slope 340 ft., through scattering timber and undergrowth, to
8.50	Base of nearly perpendicular red sandstone ledge or N. rim of San Rafael River Canyon, about 600 ft. high, bears E. and W.
	To chain over this ledge is impracticable; therefore, I triangulate as follows:
	Owing to the country being rugged and broken, there are no suitable sites for base lines near or in the vicinity of this ledge, so I use the true line bet. secs. 16 and 21 as a base, it being the most convenient line for this purpose in this locality.
	Designate the cor. of secs. 16, 17, 20, and 21 as point A, and set a flag B on line on top of the ledge or N. rim of San Rafael River Canyon. From flag B, flag C on the cor. of secs. 15, 16, 21, and 22, bears S.41°39'E. The bearing of the base line is S.89°57'W., and the length is 79.98 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at point A = 90°00'
Angle at flag B = 41°36'
Angle at flag C = 48°24'

Distance from the cor. of secs. 16, 17, 20, and 21 or point A to flag B.....= 90.08 chs.
Distance from the cor. of secs. 16, 17, 20, and 21 to the cor. of secs. 8, 9, 16, and 17.= 80.00 chs.
Distance from the cor. of secs. 8, 9, 16, and 17 to flag B.....= 10.08 chs., or at

10.08	Triangulation flag B, on top of the ledge or N. rim of San Rafael River Canyon, bearing E. and W., 940 ft. above the cor. of secs. 8, 9, 16, and 17. Thence,
	N.0°03'W., from flag B by direct measurement.
	Asc. gradual S. slope 75 ft., through a heavy growth of timber and medium dense undergrowth.
30.20	Leave heavy growth of timber, bears NE. and SW., and enter scattering.
39.00	Top of ascent, bears E. and W.; desc. gradual N. slope 10 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	$\frac{1}{4}$ S 8 | S 9 1931 from which
	A pinon pine limb, 12 ins. diam., bears N.29°30'E., 11 lks. dist., mkd. $\frac{1}{4}$ S 9 B T.
	A cedar limb, 4 ins. diam., bears S.43°00'W., 232 lks. dist., mkd. $\frac{1}{4}$ S 8 B T.
46.40	Wash, 30 lks. wide, 5 ft. deep, in the bottom of swale, 100 ft. below $\frac{1}{4}$ sec. cor., drains S.15°W.; asc. SE. slope 80 ft.
54.40	Base of sloping light colored sandstone ledge, 35 ft. high, bears NE. and SW.
55.40	Top of the ledge, bears same as base; enter a medium heav growth of timber, bears E. and W.
57.90	Ridge, bears E. and W.; desc. 35 ft.
64.70	Draw, drains NW.; asc. gradually 10 ft.
66.70	Spur, slopes W. about 4 chs. dist.; desc. 15 ft.
68.20	Draw, drains W.; asc. 25 ft.
71.70	Spur, projects W.; desc. N. slope 35 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in the ground to solid rock, and in a mound of stone, 6 ft. base 2½ ft. high, for cor. of secs. 4, 5, 8, and 9, with brass cap mkd.
	T20S | R11E S5 | S4 S8 | S9 1931 from which
	A pinon pine, 10 ins. diam., bears N.67°15'E., 106 lks. dist., mkd. T 20 S R 11 E S 4 B T.
	A pinon pine limb, 5 ins. diam., bears S.56°30'E., 147 lks. dist., mkd. T 20 S R 11 E S 9 B T.
	A cedar limb, 7 ins. diam., bears S.56°15'W., 38 lks. dist., mkd. T 20 S R 11 E S 8 B T.
	A pinon pine, 8 ins. diam., bears N.39°45'W., 16 lks. dist., mkd. T 20 S R 11 E S 5 B T.

Land, steep and rugged with red sandstone outcroppings, large boulders, sliderock, and nearly perpendicular ledge or rim on the N. side of San Rafael River Canyon, S. 10.10 chs.; broken and rough with outcroppings and surface rock of light colored sandstone formation, N. 69.90 chs.; drainage generally to the S. into the San Rafael River, S. 39.00 chs.; remainder of mile drains to the NW. and W.

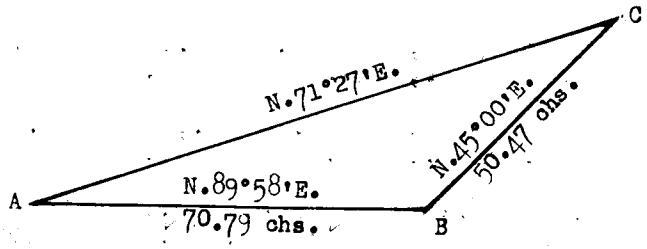
Soil, shallow red sand and alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate, on S. 10.10 chs.; red sand and sandy loam, shallow on tops and slopes, and several ft. deep, in the bottoms of swales hollows, and basins, 1st. to 4th. rate, on N.69.90 chs.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Timber, cedar and pinon pine. Undergrowth, scattering to a medium dense growth of mountain rush, black brush, and yellow top. Grazing, sparse to scattering bunch grass on rough portions; good growth of gramma grass in basins, swales, and hollows.
	N.89°57'E., on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
49.085	Top of high and impassable ledge or rim of gorge.

E. from this station, chaining is impracticable on the remainder of mile, due to the line passing over deep rugged gorges and narrow topped spurs, which are capped with high and nearly perpendicular ledges or rims. Therefore, I determine the remaining distance of the mile by triangulation as follows:

Erect a flag A at the 49.085 chs. point; then set a flag B on line on the tangent 1 lk. N. of the ¼ sec. cor. bet. secs. 3 and 10. From flag B, measure a base line N.45°00'E. 50.47 chs. dist. to a flag C, which from flag A bears N.71°27'E. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°,



Angle at flag A = 18°31'
Angle at flag B = 135°02'
Angle at flag C = 26°27'

Distance from flag A to flag B by triangulation = 70.79 chs.
Distance from flag B to the witness cor. to the cor. of secs. 3, 4, 9, and 10, which is established at the 70.73 chs. point bet. secs. 3 and 10.....=30.715 "
By subtraction, the distance from flag A to the witness cor. to the cor. of secs. 3, 4, 9, and 10.....=40.075 "
Distance on line from the cor. of secs. 4, 5, 8, and 9 to flag A.....=49.085 "
By addition, the distance from the cor. of secs. 4, 5, 8, and 9 to the witness cor. to the cor. of secs. 3, 4, 9, and 10.....=89.16 ", or at

89.16	Fall 2 lks. N. of the witness cor. to the cor. of secs. 3, 4, 9, and 10, which is east 9.30 chs. dist. from the inaccessible true point for the cor. of said secs.
	89.16 chs. minus 9.30 chs. gives 79.86 chs., or at
79.86	Intersect N. and S. line, 2 lks. N. of the true point for the cor. of secs. 3, 4, 9, and 10.

Chains	
	Thence,
	S.89°56'W., on a true line bet. secs. 4 and 9.
	Asc. abruptly 300 ft., over nearly perpendicular red sand stone wall on the W. side of gorge.
3.90	Approximate distance. Barren sandstone spur, projects NE. about 5 chs. dist.; steep descent of about 500 ft.
13.90	Approximate distance. Gorge, drains NE. about 10 chs. dist., thence easterly; precipitous ascent of about 1200 ft. to
30.775	Triangulation flag A, on top of nearly perpendicular red sandstone ledge or rim of gorge, about 400 ft. high, bearing NE. and SW.; asc. more gradually 10 ft., along top to
31.10	Top of ascent or sandstone spur, projects northeasterly; desc. NW. slope 120 ft. to ¼ sec. cor., through a medium heavy growth of timber.
35.80	Top of nearly perpendicular red sandstone ledge, 45 ft. high, bears NE. and SW.
39.93	Set an iron post, 3 ft. long, 1 in. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 6 ft. base, 2¾ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 4 / S 9 1933
	from which
	A pinon pine, 12 ins. diam., bears N.21°15'E., 133 lks. dist., mkd. ¼ S 4 B T.
	A pinon pine, 7 ins. diam., bears S.59°00'E., 82 lks. dist., mkd. ¼ S 9 B T.
43.30	Gulch, 30 ft. below ¼ sec. cor., drains NE. about 15 chs. dist. to rim of gorge; asc. SE. slope 165 ft.
45.60	Top of broken sandstone ledge, 80 ft. high, bears N. and SE.
52.60	Ridge, bears N. and S.; desc. gradual W. slope 115 ft.
61.50	Top of sloping light colored sandstone ledge, 50 ft. high, bears NE. and SW.
64.00	Wash, 20 lks. wide, 3 ft. deep, in the bottom of draw, drains southwesterly about 6 chs. dist., thence northwesterly; asc. 25 ft.
66.60	Spur, slopes S. about 1 ch. dist.; desc. 70 ft.
72.60	Wash, 30 lks. wide, 5 ft. deep, in the bottom of draw, drains northwesterly; gradual ascent of 40 ft.
79.70	Ridge, bears NW. and SE.; desc. gradually 10 ft. to
79.86	The cor. of secs. 4, 5, 8, and 9.
	Land, deep and rugged gorges and gulches, draining easterly and northeasterly into Buckhorn Draw, E. 52.60 chs.; rough and broken, draining northwesterly into the San Rafael River, W. 27.26 chs.; outcroppings and broken,

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	sloping, and nearly perpendicular ledges and rims of red and brown sandstone formation, E. 35.80 chs.; outcroppings, and broken and sloping ledges of light colored sandstone and shale, W. 44.06 chs. Soil, shallow red sand and alternate layers of red sand, varied colored clays, shale, and sandstone, lying on bed-rock, 4th. rate. Timber, varies from a scattering to a heavy growth of cedar and pinon pine, on W. 48.76 chs. Undergrowth, sparse to scattering black brush, mountain rush, and service berry bushes, on W. 48.76 chs. Grazing, sparse to scattering growth of bunch grass.
	North, on a random line bet. secs. 4 and 5.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. lot cor.
86.86	Intersect the N. bdy. of the Tp., east 32 lks. dist. from the cor. of secs. 4, 5, 32, and 33, which is an iron post, 3 ins. diam., extending 2 ft. above ground, firmly set in a mound of stone, 4 ft. base, 2 ft. high, correctly marked, and witnessed by two bearing trees, one in each of secs. 5 and 32, as described in the official record of the survey of T. 19 S., R. 11 E. This cor. stands at the base of a sloping light colored sandstone ledge, 50 ft. high, bearing NW. and SE. Thence, S.0°13'E., on a true line bet. secs. 4 and 5. Over rough and broken land, through a medium heavy growth of timber and scattering undergrowth; desc. SW. slope 20 ft.
1.90	Head of draw, drains W. about 12 chs. dist., thence N.; asc. gradually 25 ft., over NW. slope to
4.56	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the cor. of lots Nos. 4 and 5, sec. 4, and lots Nos. 1 and 8, sec. 5, with brass cap mkd. S 5 — 1 | 4 — S 4 8 | 5 WC 1933 from which A pinon pine, 10 ins. diam., bears N.74°30'E., 49½ lks. dist., mkd. W C Lot 4 S 4 B T. A pinon pine limb, 8 ins. diam., bears S.35°45'E., 64 lks. dist., mkd. W C Lot 5 S 4 B T. A pinon pine, 7 ins. diam., bears S.38°30'W., 97 lks. dist., mkd. W C Lot 8 S 5 B T.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	A pinon pine, 5 ins. diam., bears N.83°45'W., 207 lks. dist., mkd. W C Lot 1 S 5 B T.
6.86	Mark a cross (X) at the true point for the cor. of lots Nos. 4 and 5, sec. 4, and lots Nos. 1 and 8, sec. 5, which falls on the NW. face of a sloping light colored sandstone ledge, 80 ft. high, bearing NE. and SW., 20 ft. above the witness cor. to the cor. of said lots.
9.60	Spur, 60 ft. above the true point for the lot cor., slope W. about 2 chs. dist.; desc. 25 ft.
12.80	Head of draw, drains E.; asc. abruptly 60 ft.
17.00	Spur, projects NW. approximately 10 chs. dist.; desc. 85 ft.
28.80	Wash, 40 lks. wide, 5 ft. deep, in the bottom of draw, drains NW.; asc. 65 ft.
28.90	A dry water hole or tank in sandstone surface rock, bears W. 1.50 chs. dist. Size of tank 20 lks. square, 5 ft. deep.
38.60	Spur, projects NE. about 15 chs. dist.; desc. 10 ft.
43.30	Draw, drains NE.; asc. 10 ft.
45.30	Spur, projects E. approximately 10 chs. dist.; gradual descent of 5 ft. to
46.86	Set an iron post, 3 ft. long, 1 in. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 6 ft. base, $2\frac{3}{4}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 5 | S 4

1933

from which

A pinon pine, 7 ins. diam., bears N.33°30'E., 51 lks. dist., mkd. $\frac{1}{4}$ S 4 B T.

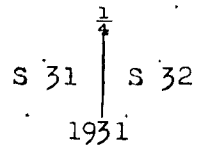
A pinon pine, 7 ins. diam., bears S.3°00'W., 110 lks. dist., mkd. $\frac{1}{4}$ S 5 B T.

From this $\frac{1}{4}$ sec. cor., desc. 90 ft. across the head of draw, draining E.

59.80	Ridge, bears NW. and SE.; desc. SW. slope 85 ft.
64.10	Draw, drains NW.; gradual ascent of 5 ft.
69.40	Spur, projects W. about 7 chs. dist.; gradual descent of 10 ft.
73.70	Wash, 40 lks. wide, 6 ft. deep, in the bottom of draw, drains W.; asc. gradual general N. slope 70 ft. to sec. cor.
82.50	Leave timber, bears NW. and SE.
82.80	Enter a medium heavy growth of timber, bears NW. and SE.
86.86	The cor. of secs. 4, 5, 8, and 9.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Land, broken and rough with outcroppings and broken and sloping ledges of light colored sandstone and blue limestone and shale formation; portions of mile drain easterly and northeasterly into the Buckhorn Draw, and other parts drain westerly and northwesterly into the San Rafael River.
	Soil, red sand and sandy loam, shallow on tops and slopes, and several ft. deep, in the bottoms of swales, draws, and hollows, lying on bedrock, 1st. to 4th. rate. Surface rock exposed on portions of mile.
	Timber, cedar and pinon pine.
	Undergrowth, scattering to a medium dense growth of black brush, mountain rush, and yellow top.
	Grazing, sparse to scattering bunch grass on tops and slopes; good growth of gramma grass in swales, draws, and hollows.
	From the standard cor. of secs. 31 and 32, on the S. bdy. of the Tp., hereinbefore described,
	N.0°03'W., bet. secs. 31 and 32.
	Asc. gentle SW. slope 20 ft., over rolling and broken top of mesa, through a medium heavy growth of timber and scattering undergrowth.
9.60	Top of ascent, bears NW. and SE.; desc. gradual NE. slope 20 ft.
12.80	Draw, drains NW.; gradual ascent of 10 ft.
26.00	Top of ascent, bears N.30°W. and S.30°E.; gradual descent of 10 ft.
28.70	Bottom of descent, bears NE. and SE.; asc. gradual SE. slope 10 ft.
31.50	Top of ascent, bears N.20°E. and S.20°W.; desc. gentle NW. slope 20 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, 1½ ft. high, for ¼ sec. cor., with brass cap mkd.



from which

A cedar, 8 ins. diam., bears N.69°30'E., 26 lks. dist., mkd. ¼ S 32 B T.

A pinon pine, 5 ins. diam., bears N.33°30'W., 153 lks. dist., mkd. ¼ S 31 B T.

50.00	Bottom of descent, 15 ft. below ¼ sec. cor., bears NE. and SW.; over nearly level and gently rolling land to
73.80	Leave nearly level and gently rolling land, 55 ft. above

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Chains	
	bottom of descent, bears N.70°W. and S.70°E.; leave med heavy growth of timber, bears E. and W., and enter scattering; asc. abrupt rough SW. slope 190 ft. to sec. cor.
79.60	Top of nearly perpendicular light colored sandstone ledge 60 ft. high, bears S.70°E. and W.
80.00	On top of barren sandstone ridge, bearing E. and W., set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 6 ft base, 2¾ ft. high, for cor. of secs. 29, 30, 31, and 32, with brass cap mkd.

T20S	R11E
S30	S29
S31	S32

1931

There are no trees within a reasonable distance suitable for marking.

Land, gently rolling and nearly level top of bench or mesa, S. 73.80 chs.; outcroppings, large boulders, and ledges on abrupt general S. slope of nearly barren ridge, N. 6.20 chs.; red and light colored sandstone, and blue and red shale formation; drainage to the NW.

Soil, red sand varying in depth from surface rock to about 1½ ft., lying on bedrock, 2nd. to 4th. rate, S. 73.80 chs varied colored clays, shallow, rocky, and mixed with shale, and lying on bedrock, 4th. rate, N. 6.20 chs.

Timber, cedar and pinon pine.

Undergrowth, mountain rush, shadscale, black and buck brush.

Grazing, fair to good growth of gramma and bunch grass, and weeds on top of bench or mesa.

East, on a random line bet. secs. 29 and 32.

E. from the cor. of secs. 29, 30, 31, and 32, for a distance of approximately 25 chs., chaining and the projection of the line are impracticable, as the line follows along or near the top of a barren sandstone ridge, which is capped with crags, high pinnacles and ledges. Therefore, from the cor. of secs. 29, 30, 31, and 32, I offset

S.0°03'E., 11.60 chs. dist.; then on offset line

East, 35.00 chs. dist.; then offset

N.0°03'W., 11.60 chs. dist. to random line.

Thence,

East, on random line

40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 28, 29, 32, and 33.
	Thence,

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	N.89°59'W., on a true line bet. secs. 29 and 32.
	Over gently rolling top of bench or mesa, through a heavy growth of timber and scattering undergrowth; desc. gradual SW. slope 40 ft.
5.60	Draw, drains NW.; gradual ascent of 10 ft.
10.30	Top of ascent or low spur, projects NW.; desc. gradual SW. slope 25 ft.
15.80	Top of nearly perpendicular sandstone ledge or E. rim of gulch, 80 ft. high, bears NW. about 8 chs. dist., thence N., and SE.; desc. abrupt NW. slope 160 ft.
20.80	Bottom of gulch, drains NE.; steep ascent of 160 ft., over SE. slope.
23.60	Top of nearly perpendicular sandstone ledge or W. rim of gulch, 75 ft. high, bears N.10°E. and S.10°W.; asc. gradually 60 ft. to ¼ sec. cor., over E. slope.
24.00	Enter medium dense undergrowth, bears N.10°E. and S.10°W.
39.98	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, 1½ ft. high, for ¼ sec. cor., with brass cap mkd. S 29 ¼ —— S 32 1931 from which A pinon pine, 8 ins. diam., bears S.10°15'W., 67 lks. dist., mkd. ¼ S 32 B T. A pinon pine, 4 ins. diam., bears N.39°00'W., 48 lks. dist., mkd. ¼ S 29 B T.
44.96	Point of offset on random line, bears nor[illegible] 1 lk. dist.
52.80	Ascent becomes abrupt, bearing of slope changing from E. to NE. and SW.
56.50	Base of series of high and impassable ledges, bears NE. and SW., on SE. face of sandstone ridge. From this point, the line ascs. along and near the top of the barren sandstone ridge, which bears approximately E. and W. and is about 350 ft. above the ¼ sec. cor.
	I return to the 44.96 chs. point from the base of impassable ledges.
	Thence, offset
	S.0°03'E., 11.60 chs. dist. At the beginning of course, desc. gradually 25 ft., along gentle E. slope, through a medium heavy growth of timber and scattering undergrowth.
	At 11.60 chs., end of course.
	Thence, on offset line
	N.89°59'W., 35.00 chs. dist. At the beginning of course, asc. gentle E. slope 10 ft.

Chains	
	At 0.50 chs., top of ascen bears N. and S.; desc. gradually 15 ft.
	At 3.50 chs., draw, drains S.60°E.; asc. gradually 80 ft., over nearly level an gently rolling top of bench or mesa.
	At 35.00 chs., end of offs line.
	Thence, offset
	N.0°03'W., 11.60 chs. dist. to the cor. of secs. 29, 30, 31, and 32, 200 ft. above the W. end of offset line.
	Land, nearly level, rolling, top of bench or mesa, and rou and broken with outcroppings, large boulders, and broken ledges of light colored sandstone and red and blue shale on E. 56.50 chs. and on offsets and offset lines; ridge, rugged with crags, pinnacles, and broken, sloping, and nearly perpendicular ledges of light colored and red san stone formation, W. 27.16 chs.; general drainage to the NE.
	Soil, red sand varying in depth from surface rock to abo 1½ ft., lying on bedrock, 2nd. to 4th. rate, on top of bench or mesa; varied colored clays, shallow, rocky, and mixed with shale, and lying on bedrock, 4th. rate, on slopes of rugged ridge.
	Timber, cedar and pinon pine.
	Undergrowth, mountain rush, shadscale, black and buck brush, yellow top, and service berry bushes.
	Grazing, fair to good growth of gramma and bunch grass, and weeds on top of bench or mesa.
	West, on random line bet. secs. 30 and 31.
3.80	To base of nearly perpendicular and impassable ledge on top of rugged ridge.
	W. from the base of this ledge for a distance of approximately 6 chs., the projection of the line and chaining are impracticable, so I return to the cor. of secs. 29, 30, 31, and 32, and offset
	S.0°03'E., 11.60 chs. dist.; then on offset line
	West, 10.80 chs. dist.; then offset
	N.0°03'W., 11.60 chs. dist. to random line
	Thence,
	West, on random line.
40.00	Set temp. ¼ sec. cor.
80.59	Intersect the W. bdy. of the Tp., N.0°01'W. 2 lks. dist. from the cor. of secs. 25, 30, 31, and 36, hereinbefore described.
	Thence,

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	N.89°59'E., on a true line bet. secs. 30 and 31.
	Over rough, broken, and rolling top of bench or mesa, through a heavy growth of timber and medium dense undergrowth; asc. gradual W. slope 40 ft.
4.20	Spur, projects N. about 6 chs. dist.; desc. gradual E. slope 5 ft.
6.50	Top of nearly perpendicular brown sandstone ledge or W. rim of Cain Wash Gulch, 60 ft. high, bears N. and S.30°E.; desc. abrupt, rough, and broken E. slope 160 ft.
7.90	Bottom of steep descent, bears northeasterly and southeasterly; over level bottom of gulch.
10.40	W. bank of Cain Wash, 4 ft. high, bears N.20°E. and S.20°E.; wash, drains N.20°E.
13.50	E. bank of Cain Wash, 4 ft. high, bears N.10°E. and S.10°W.
16.20	Leave level bottom of gulch, bears N.15°E. and S.15°W.; begin abrupt ascent of 145 ft., over rough and broken general W. slope.
18.60	Top of nearly perpendicular brown sandstone ledge or E. rim of Cain Wash Gulch, 25 ft. high, bears N.15°W. and S.15°E.; asc. gradual SW. slope 65 ft., over rough, broken, and rolling top of bench or mesa.
39.90	Top of ascent, bears N.30°W. and S.30°E.; desc. gradual NE. slope 5 ft. to
40.59	Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 4½ ft. base, 2¾ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 30 / S 31 / 1931
	from which
	A pinon pine, 6 ins. diam., bears S.27°45'W., 57 lks. dist., mkd. ¼ S 31 B T.
	A pinon pine, 6 ins. diam., bears N.73°45'W., 21 lks. dist., mkd. ¼ S 30 B T.
41.10	Draw, 5 ft. below ¼ sec. cor., drains NW.; asc. 25 ft.
47.20	Top of ascent, bears NW. and SE.; desc. 15 ft.
52.10	Draw, drains NW.; asc. 15 ft.
55.60	Top of ascent on SW. slope; desc. gradually 5 ft.
56.60	Same draw as noted at 52.10 chs., drains from S.80°E. to S.80°W.; asc. 65 ft., over SW. slope.
68.60	Leave timber, bears NW. and SE.; undergrowth becomes scattering.
68.80	Leave rough, broken, and rolling top of bench or mesa, bears NW. and SE.; begin abrupt ascent of 230 ft., over rough and broken W. end or slope of ridge.
69.79	Point of offset.
74.80	Approximate distance. W. extremity of top of barren sandstone ridge, bearing E. and W.; desc. 100 ft. along rugged

Chains	
	top to sec. cor.
76.40	Approximate distance. Top of nearly perpendicular light colored sandstone ledge, about 80 ft. high, bears N.70°W. and S.70°E.
77.40	Base of the ledge noted at 76.40 chs., bears same as the top.
	From the 69.79 chs. point, I offset
	S.0°03'E., 11.60 chs. dist. At the beginning of course, over nearly level top of bench or mesa; through scattering timber and undergrowth.
	At 11.60 chs., end of offset, 5 ft. below beginning of course.
	Thence, on offset line
	N.89°59'E., 10.80 chs. dist. At the beginning of course, desc. gradually 10 ft., over nearly level top of bench or mesa.
	At 10.80 chs., end of offset line.
80.59	Thence, offset
	N.0°03'W., 11.60 chs. dist. to the cor. of secs. 29, 30, 31, and 32, 200 ft. above the W. end of offset line.
	Land, rough, broken, and rolling top of bench or mesa, which is cut by Cain Wash Gulch, W. 68.80 chs.; rugged sandstone ridge, E. 11.80 chs.; surface rock, outcroppings, large boulders, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale; general drainage to the N. by Cain Wash.
	Soil, shallow red sand lying on bedrock, 4th. rate, on top of bench or mesa; red sand and sandy loam, several ft. deep, lying on bedrock, 1st. rate, in the bottom of Cain Wash Gulch; varied colored clays, shallow, rocky, and mixed with shale, and lying on bedrock, 4th. rate, on slopes of rugged ridge.
	Timber, cedar and pinon pine.
	Undergrowth, mountain rush, shadscale, black and buck brush, yellow top, and service berry bushes.
	Grazing, sparse to scattering growth of bunch grass.
	N.0°03'W., bet. secs. 29 and 30.
	Desc. gradually 35 ft., over rough and broken N. slope, through scattering timber and medium dense undergrowth.
6.60	Top of sloping light colored sandstone ledge, 40 ft. high, bears S.70°E. about 15 chs. dist., thence N., and W. approximately 10 chs. dist. to end; begin abrupt descent of 270 ft., over N. slope.
16.50	Base of abrupt descent, bears NW. and SE.; enter a heavy growth of timber, bears NW. and SE.; desc. gradual NE.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	slope 15 ft.
26.00	Draw, drains NW.; gradual ascent of 10 ft.
31.00	Spur, projects NW.; desc. gradual NE. slope 35 ft.
39.10	Draw, drains W.; asc. gradual S. slope 5 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 5 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 30 | S 29 1931 from which A pinon pine, 6 ins. diam., bears N.37°15'E., 30 lks. dist., mkd. ¼ S 29 B T. A pinon pine, 6 ins. diam., bears N.65°15'W., 82 lks. dist., mkd. ¼ S 30 B T.
43.60	Top of ascent, 10 ft. above ¼ sec. cor., bears NW. and SE.; desc. gradually 20 ft.
55.20	Draw, drains W.; asc. rough general S. slope 560 ft.
61.30	Base of steep ascent, bears E. and S.60°W.; timber becomes more scattering.
66.60	Top of nearly perpendicular red sandstone ledge, 85 ft. high, bears E. about 15 chs. dist., thence S., and S.60°W.
72.40	Top of nearly perpendicular red sandstone ledge, 65 ft. high, bears E. approximately 20 chs. dist., thence S., and S.70°W. about 7 chs. dist. to end.
74.90	Sandstone spur, projects S.70°W. approximately 5 chs. dist.; enter a medium heavy growth of timber, bears N.70°E. and S.70°W.; desc. gradually 20 ft., over surface rock, on NW. slope.
78.50	Draw, drains W.; asc. gradually 15 ft., over nearly level surface rock to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 6 ft. base, 2½ ft. high, for cor. of secs. 19, 20, 29, and 30, with brass cap mkd. T20S | R11E S19 | S20 S30 | S29 1931 from which A pinon pine, 5 ins. diam., bears N.14°45'E., 153 lks. dist., mkd. T 20 S R 11 E S 20 B T. A pinon pine, 5 ins. diam., bears S.89°00'E., 125 lks. dist., mkd. T 20 S R 11 E S 29 B T. A pinon pine, 5 ins. diam., bears S.76°45'W., 42 lks. dist., mkd. T 20 S R 11 E S 30 B T. A cedar, 5 ins. diam., bears N.20°30'W., 153 lks. dist., mkd. T 20 S R 11 E S 19 B T.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

Land, steep and rugged mountains of varied colored sand-
stone, conglomerate of sandstone and volcanic formation
and red and blue shale, in the form of surface rock, la
boulders, sliderock, outcroppings, and broken, sloping,
and nearly perpendicular ledges; 16.50 chs. to 61.30 ch
line crosses a large basin with surface exposed in the
form of sandstone almost entirely; general drainage to
the NW. into Cain Wash.

Soil, shallow red sand or alternate layers of red sand,
varied colored clays, shale, and sandstone, 4th. rate.

Timber, cedar and pinon pine.

Undergrowth, shadscale, service berry bushes, yellow to
mountain rush, and black and buck brush.

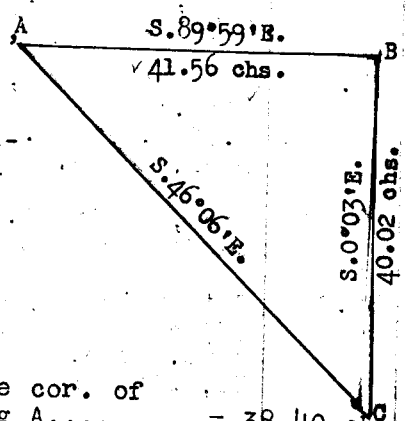
Grazing, sparse growth of bunch grass.

S.89°59'E., on a random line bet. secs. 20 and 29.

40.00 Set temp. ¼ sec. cor.

40.40 E. from this station for a distance of approximately 25 chs., the line descends abruptly over series of high and nearly perpendicular ledges on the W. side of gulch; making chaining impracticable. Therefore, I triangulate as follows:

Erect a flag A at the 38.40 chs. point, and set a flag B on line N.0°03'W. 2 lks. dist. from the cor. of secs. 20, 21, 28, and 29. From flag A, a flag C previously set on the ¼ sec. cor. bet. secs. 28 and 29, bears S.46°06'E. Th bearing of the base line bet. flag B and flag C, is S.0°03'E. and the length 40.02 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 43°53'
Angle at flag B = 90°04'
Angle at flag C = 46°03'

Distance on random line from the cor. of secs. 19, 20, 29, and 30 to flag A.....= 38.40 chs.
Distance from flag A to flag B by triangulation.....= 41.56 chs.
Distance from the cor. of secs. 19, 20, 29, and 30 to the cor. of secs. 20, 21, 28, and 29.....= 79.96 chs.,
or at

79.96 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 20, 21, 28, and 29.

Thence,

N.89°58'W., on a true line bet. secs. 20 and 29.

Over nearly level, rolling, and broken land, across bott of gulch, through medium to heavy growth of timber and scattering undergrowth; desc. gradually 5 ft.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
1.00	Wash, 80 lks. wide, 4 ft. deep, drains N.; asc. gradually 105 ft., over E. slope.
15.90	Leave nearly level, rolling, and broken land, across bottom of gulch, bears NE. and SE.; begin steep ascent of 870 ft. to ¼ sec. cor., over rugged general E. slope.
18.50	Leave medium to heavy growth of timber, bears NE. and SE., and enter scattering.
37.50	Approximate distance, Top of nearly perpendicular red sandstone ledge, about 140 ft. high, bears N. and S.
39.60	Top of nearly perpendicular red sandstone ledge, 50 ft. high, bears N. and S.
39.98	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd. ¼ S 20 / S 29 1931 from which A pinon pine, 5 ins. diam., bears N.16°00'E., 36 lks. dist., mkd. ¼ S 20 B T. A pinon pine, 4 ins. diam., bears S.42°00'W., 23 lks. dist., mkd. ¼ S 29 B T.
41.56	Triangulation flag A, bears north 1 lk. dist., on top of sandstone knoll, bearing N. approximately 5 chs. dist. and S. about 3.50 chs. dist., 50 ft. above ¼ sec. cor.; desc. abruptly 155 ft., over rough and broken W. slope.
46.10	Base of abrupt descent, bears N. and S.; desc. gradual W. slope 35 ft.
50.20	Enter a medium heavy growth of timber, bears N. and S.
57.80	Draw, drains N. about 4 chs. dist., thence NW.; asc. general NE. slope 40 ft.
74.20	Ridge, bears N.30°W. and S.30°E.; enter medium dense undergrowth, bears NW. and SE.; desc. SW. slope 60 ft. to
79.96	The cor. of secs. 19, 20, 29, and 30.

Land, nearly level, rolling, and broken, across bottom of gulch, E. 15.90 chs.; rolling, rough, and broken top of mountain, W. 38.40 chs.; steep and rugged W. side of gulch, remainder of mile; outcroppings, large boulders, surface rock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale, on W. 64.06 chs.; general drainage NE., E. 74.20 chs.; remainder of mile drains W. and NW. into Cain Wash.

Soil, red sand and sandy loam, several ft. deep, along and near bottom of gulch, 1st. and 2nd. rate, E. 15.90 chs.; shallow red sand or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate, on W. 64.06 chs.; surface rock exposed on greater portion of W. 64.06 chs.

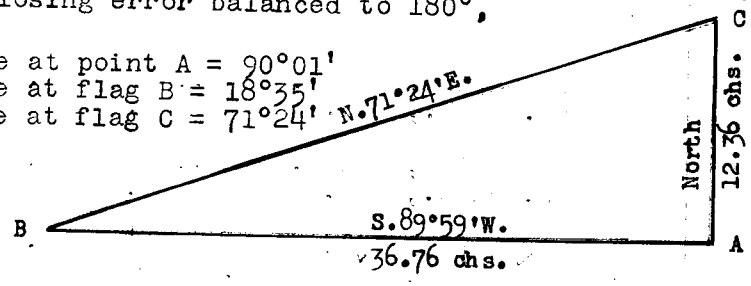
Timber, cedar and pinon pine.

Undergrowth, black brush, yellow top, mountain rush, and service berry bushes.

U. S. GOVERNMENT PRINTING OFFICE 16—8155

Chains	
	Grazing, sparse to scattering growth of bunch grass and weeds.
	S.89°59'W., on a random line bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
69.20	To base of series of high, broken, sloping, and nearly perpendicular ledges or rim of bench or shelf, which makes chaining impracticable: so I return to the 40.00 chs. point, the most suitable site for a base line, and triangulate as follows: Designate the 40.00 chs. point as point A; then set a flag B on random line on top of the series of ledges or rim of bench or shelf noted at 69.20 chs. From point A, measure a base line north 12.36 chs. dist. to a flag C, which from flag B, bears N.71°24'E. All bearings are checked by direct reading of the solar, and all angles are determined by deflection, by three repetitions, with the closing error balanced to 180°,

Angle at point A = 90°01'
Angle at flag B = 18°35'
Angle at flag C = 71°24'



Distance on random line from the cor. of secs. 19, 20, 29, and 30 to point A.....= 40.00 chs.
Distance from point A to flag B by triangulation.....= 36.76 chs.
Distance on random line from the cor. of secs. 19, 20, 29, and 30 to flag B.....= 76.76 chs., or at

76.76	Triangulation flag B.
	Thence,
	S.89°59'W., on random line with continuous measurement from flag B to
80.55	Intersect the W. bdy. of the Tp., N.0°01'W. 2 lks. dist. from the cor. of secs. 19, 24, 25, and 30, hereinbefore described.
	Thence,
	N.89°58'E., on a true line bet. secs. 19 and 30.
	Over nearly level top of bench or shelf, through a medium heavy growth of timber and undergrowth.
3.79	Triangulation flag B, on top of series of broken, sloping and nearly perpendicular ledges or rim of bench or shelf, which is 375 ft. high and bears NW. and SE.; leave timber bears NW. and SE.; undergrowth becomes scattering; desc. abrupt rough general NE. slope 645 ft.
11.35	Base of the series of ledges or rim of bench or shelf, bears NW. and SE.
21.10	Bottom of descent, bears NW. and SE.; over level bottom of Cain Wash Gulch.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
23.60	W. bank of Cain Wash, 4 ft. high, bears N. and S.
23.80	Stream of clear alkali water, 3 lks. wide, 3 ins. deep, course N.
25.10	E. bank of Cain Wash, 4 ft. high, bears N.10°E. and S.10°W.
27.40	W. bank of Cain Wash, 4 ft. high, bears N.70°E. and S.70°W.
33.20	Stream of clear alkali water, 3 lks. wide, 3 ins. deep, course S.70°W.
33.40	E. bank of Cain Wash, 5 ft. high, bears NE. and SW.; begin abrupt ascent of 100 ft., over rough NW. slope.
35.40	Top of nearly perpendicular brown sandstone ledge or E. rim of Cain Wash Gulch, 55 ft. high, bears NE. and SW.; asc. gradually 10 ft. to ¼ sec. cor., over nearly level top of bench or mesa, through scattering timber.
40.55	Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd. ¼ S 19 / S 30 1931 from which A pinon pine, 8 ins. diam., bears S.39°15'W., 273 lks. dist., mkd. ¼ S 30 B T. A pinon pine, 8 ins. diam., bears N.70°30'W., 156 lks. dist., mkd. ¼ S 19 B T. From this ¼ sec. cor., triangulation point A bears north 1 lk. dist.
41.80	Top of nearly perpendicular brown sandstone ledge or W. rim of Cain Wash Gulch, 15 ft. high, bears N. and S.; steep descent of 105 ft., over rough E. slope.
43.70	Bottom of abrupt descent, bears N. and S.; over nearly level bottom of Cain Wash Gulch.
45.50	W. bank of Cain Wash, 4 ft. high, bears N.20°W. and S.20°E.
46.80	Stream of clear alkali water, 2 lks. wide, 2 ins. deep, course N.20°W.
47.60	E. bank of Cain Wash, 4 ft. high, bears N.20°W. and S.20°E.
51.50	Leave bottom of Cain Wash Gulch, bears N. and S.; begin steep ascent of 160 ft., over rough W. slope.
53.80	Top of nearly perpendicular brown sandstone ledge or E. rim of Cain Wash Gulch, 65 ft. high, bears N.20°E. and S.; continue abrupt ascent.
56.10	Spur, projects NW. about 2 chs. dist.; gradual descent of 10 ft.
61.30	Draw, drains NW.; asc. precipitous rugged general W. slope 645 ft.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
71.10	Top of nearly perpendicular red sandstone ledge, 100 ft high, bears NW. and SE.
79.30	Top of nearly perpendicular red sandstone ledge or rim mountain, 130 ft. high, bears N. and S.; asc. gradual S slope 5 ft., over surface rock to
80.55	The cor. of secs. 19, 20, 29, and 30.
	Land, abrupt and mountainous, with mesas, benches or shel rugged with outcroppings, large boulders, sliderock, sur face rock, and broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sand stone and volcanic formation, and red and blue shale; drainage into Cain Wash, thence northerly. E. and W. exposure.
	Soil, shallow and rocky red sand or alternate layers of red sand, varied colored clays, shale, and sandstone, 4t rate. Surface rock exposed on greater portion of mile. Red sand and sandy loam, several ft. deep, in the bottom of Cain Wash Gulch, 1st. rate.
	Timber, cedar and pinon pine.
	Undergrowth, black brush, mountain rush, service berry bushes, and yellow top.
	Grazing, sparse to scattering growth of gramma and bunch grass.
	N.0°03'W., bet. secs. 19 and 20.
	Over rough mountainous land, through scattering timber and undergrowth; asc. gradual SW. slope 30 ft., over surface rock to
5.00	Leave surface rock, bears NE. and NW.; begin abrupt ascen of 110 ft., slope changing from SW. to S.
9.60	S. edge of flat topped ridge, bears E. about 50 lks. dist thence northeasterly, and N.60°W.; over nearly level top.
11.00	SE. extremity of large sandstone capping or castle on top of ridge, bears NW. about 1 ch. dist.
12.50	N. edge of flat topped ridge, bears NW. and SE.; desc. abrupt, broken, and rugged NE. slope 1065 ft. to the witness cor. to the ¼ sec. cor.
13.00	Top of nearly perpendicular red sandstone ledge, 35 ft. high, bears NW. and SE.
17.30	Top of nearly perpendicular red sandstone ledge, 100 ft. high, bears N.10°W. and S.60°E.
30.80	Top of nearly perpendicular red sandstone ledge, 260 ft. high, bears N.70°W. and S.70°E.
31.20	Enter a medium heavy growth of timber, bears N.70°W. and S.70°E.
39.51	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the ¼ sec. cor., with brass cap mkd.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	WC ¼ S 19 | S 20 1931
	from which
	A pinon pine, 6 ins. diam., bears S.88°00'E., 59 lks. dist., mkd. W C ¼ S 20 B T.
	A pinon pine, 4 ins. diam., bears N.50°30'W., 82 lks. dist., mkd. W C ¼ S 19 B T.
40.00	True point for ¼ sec. cor., falls in bottom of wash, 30 lks. wide, 10 ft. deep, draining northeasterly, 15 ft. below witness cor.
43.10	Wash, 30 lks. wide, 6 ft. deep, drains E. about 70 lks. dist., thence northeasterly, at the base of abrupt descent, bearing N.15°W. and S.15°E., 50 ft. below the true point for ¼ sec. cor.; desc. gradual broken NE. slope 25 ft.
53.70	Draw, drains N.15°E. about 3 chs. dist., thence NE.; asc. gradually 20 ft., over rough SE. slope.
55.40	Begin abrupt ascent of 770 ft. to the witness cor. to the cor. of secs. 17, 18, 19, and 20, over rugged SE. slope.
59.40	Base of series of nearly perpendicular red sandstone ledges, 375 ft. high, bears NE. and SW.; timber becomes scattering, bearing NE. and SW.
65.00	Top of the series of ledges, bears NE. and SW.; asc. along top of shelf, bearing NE. and SW., to
79.60	At the base of a nearly perpendicular red sandstone ledge, 165 ft. high, bearing N.25°E. and S.25°W., set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 5½ ft. base, 2½ ft. high, for witness cor. to the cor. of secs. 17, 18, 19, and 20, with brass cap mkd.
	WC T20S | R11E S18 | S17 S19 | S20 1931
	from which
	A cross (X) on the SE. face of the ledge, bears N.80°30'W., 9 lks. dist., mkd. S 19 X B 0.
	There are no trees available suitable for marking.
80.00	Chisel a cross (X) at the true point for cor. of secs. 17, 18, 19, and 20, which falls on the SE. face of the ledge, where it is impracticable to establish a cor. monument.
	Land, abrupt and mountainous, and rugged with outcroppings, large boulders, sliderock, surface rock, and series of broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale; drainage westerly into Cain Wash, S. 11.00 chs.; N. 69.00 chs. drain northeasterly into the San Rafael River.
	Soil, shallow and rocky red sand or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate. Surface rock exposed on portions of mile,

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

Chains

Timber, cedar and pinon pine.

Undergrowth, black brush, mountain rush, shadscale, service berry bushes, and yellow top.

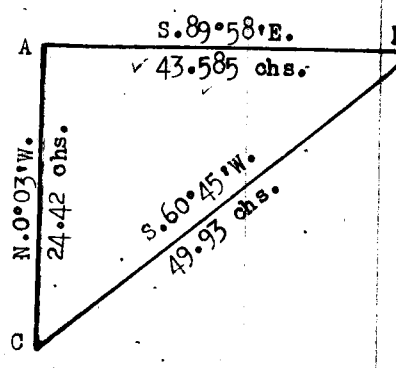
Grazing, sparse to scattering growth of bunch grass.

From the true point for the cor. of secs. 17, 18, 19, an 20,

S.89°58'E., on a random line bet. secs. 17 and 20.

E. from the true point for the cor. of secs. 17, 18, 19, and 20 for a distance of approximately 20 chs., the line passes over series of high ledges, which make chaining impracticable. Therefore, I make the following triangulation:

Designate the true point for the cor. of secs. 17, 18, 1 and 20, as point A, and set a flag B on line about 45 ch dist. from said true point. From flag B, measure a base line S.60°45'W. 49.93 chs. dist. to a flag C previously set at the 55.58 chs. point bet. secs. 19 and 20. All bearings are checked by direct reading of the solar. As the true point for the cor. of secs. 17, 18, 19, and 20 falls on the face of a nearly perpendicular ledge, it is impracticable to measure the angle at point A; but the angles at flags B and C are determined by deflection by three repetitions, and the sum of the angles of the triangle is equal to 180°.



Angle at point A = 89°55'
Angle at flag B = 29°17'
Angle at flag C = 60°48'

Distance on random line from the true point for the cor. of secs. 17, 18, 19, and 20 to flag B by triangulation is 43.585 chs.

Thence, from flag B by direct measurement

N.89°58'W., 3.585 chs. dist. to

40.00 Set temp. ¼ sec. cor.

Thence,

S.89°58'E., on random line by direct measurement.

43.585 Triangulation flag B.

79.92 Intersect N. and S. line at the cor. of secs. 16, 17, 20, and 21.

Thence,

N.89°58'W., on a true line bet. secs. 17 and 20.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Over rough mountainous land, through scattering timber and undergrowth; asc. gradually 20 ft., along SE. slope.
4.40	Top of spur, from W., projects N.70°E.; asc. gradually 20 ft., along E. edge of top.
7.70	Leave top of spur, projecting from S.20°W. to E.; begin precipitous descent of 1095 ft., over rugged general W. slope.
21.90	Top of nearly perpendicular red sandstone ledge, 275 ft. high, bears NW. and SE.
31.40	Draw, drains NW.; asc. 25 ft.
36.335	Triangulation flag B, on top of spur, projecting N. about 7 chs. dist.; desc. gradual W. slope 15 ft. to
37.60	Top of nearly perpendicular brown sandstone ledge, 25 ft. high, bears N. and S.; desc. abrupt W. slope 115 ft. to
39.96	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{S\ 17}{S\ 20}$$

1931

raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

All trees within a reasonable distance are too scrubby for marking.

43.70	Gulch, 100 ft. below ¼ sec. cor., drains N.10°E.; asc. steep rugged general SE. slope 1045 ft. to the true point for cor. of secs. 17, 18, 19, and 20.
49.90	Top of nearly perpendicular brown sandstone ledge, 75 ft. high, bears N. and S.
67.40	Top of nearly perpendicular red sandstone ledge, 375 ft. high, bears NE. and SW.; asc. over shelf to
79.92	Triangulation point A at the true point for the cor. of secs. 17, 18, 19, and 20.

Land, abrupt and mountainous, and rugged with outcroppings, large boulders, sliderock, surface rock, and series of broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale; general drainage to the NE. into the San Rafael River.

Soil, shallow and rocky red sand or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate. Surface rock exposed on greater portion of mile.

Timber, cedar and pinon pine.

Undergrowth, black brush, mountain rush, shadscale, service berry bushes, and yellow top.

Grazing, sparse to scattering growth of bunch grass.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	From the true point for the cor. of secs. 17, 18, 19, and 20,
	S.89°58'W., on a random line bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
80.54	Intersect the W. bdy. of the Tp., S.0°01'E. 2 lks. dist. from the cor. of secs. 13, 18, 19, and 24, hereinbefore described.
	Thence,
	N.89°59'E., on a true line bet. secs. 18 and 19.
	Desc. abrupt rugged general NE. slope 220 ft., through a sparse growth of timber and undergrowth.
2.90	Top of nearly perpendicular red sandstone ledge, 75 ft. high, bears NW. and SE.
10.20	Base of steep descent, bears NW. and SE.; desc. gradually 60 ft., over rolling, broken, and rough top of bench or mesa.
20.70	Top of nearly perpendicular brown sandstone ledge or W. rim of Cain Wash Gulch, 55 ft. high, bears N. and S.20°W.; steep descent of 105 ft., over rough general E. slope.
23.40	Stream of clear alkali water, 3 lks. wide, 3 ins. deep, in the bottom of Cain Wash Gulch, course NW. about 5 chs. dist., thence westerly; asc. abrupt rough general W. slope 180 ft. to
26.80	Top of nearly perpendicular brown sandstone ledge or E. rim of Cain Wash Gulch, 130 ft. high, bears N. approximately 5 chs. dist., thence N.70°W., and S.; asc. rough and broken SW. slope 115 ft. to
40.54	Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock, and in a mound of stone, 5 ft. base, 1½ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 18 / S 19 1931
	At the base of the monument, I deposit a sandstone, 6x4x2 ins., marked with a cross (X), as there are no trees available suitable for marking.
45.90	Top of nearly perpendicular red sandstone ledge, 105 ft. high, bears NW. and SE.; bearing of slope changes from NW. and SE. to N. and S.
57.60	Top of nearly perpendicular red sandstone ledge or W. rim of top of mountain, 170 ft. high, bears NW. and SE., 760 ft. above ¼ sec. cor.; desc. 95 ft., over rough and broken top, through medium dense undergrowth and scattering timber.
59.80	Head of gulch, drains NW.; asc. 25 ft.
67.30	Top of ascent, bears N. and S.; desc. 30 ft.
78.00	Head of gulch, drains NW.; asc. 15 ft.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
79.90	Top of nearly perpendicular red sandstone ledge or E. rim of top of mountain, 165 ft. high, bears NE. and SW.; leave undergrowth, bears NE. and SW.; precipitous descent of about 100 ft. to the true point for the cor. of secs. 17, 18, 19, and 20, which falls on the SE. face of the ledge.
80.54	True point for cor. of secs. 17, 18, 19, and 20.
	Land, abrupt and mountainous, and rugged with outcroppings, large boulders, sliderock, surface rock, and series of broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale; general drainage to the N. by Cain Wash, W. 79.90 chs.; remainder of mile drains NE. into the San Rafael River.
	Soil, shallow and rocky red sand or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate. Surface rock exposed on greater portion of mile.
	Timber, cedar and pinon pine.
	Undergrowth, black brush, mountain rush, shadscale, service berry bushes, and yellow top.
	Grazing, sparse to scattering growth of bunch grass.
	From the true point for the cor. of secs. 17, 18, 19, and 20,
	N.0°03'W., bet. secs. 17 and 18.
	Asc. precipitous rugged SE. slope 100 ft., through scattering timber.
0.60	Top of nearly perpendicular red sandstone ledge or S. rim of top of mountain, 165 ft. high, bears NE. and SW.; enter medium dense undergrowth, bears NE. and SW.; asc. more gradual SE. slope 100 ft., over top.
4.70	Top of sandstone dome, 25 ft. high, at the top of ascent, bearing NE. and SW.; desc. 75 ft.
6.20	Top of nearly perpendicular red sandstone ledge or N. rim of top of mountain, 100 ft. high, bears NE. and SW.; desc. abruptly 845 ft. to ¼ sec. cor., over rugged NW. slope.
17.30	Top of nearly perpendicular red sandstone ledge, 225 ft. high, bears NE. and NW.
27.40	Enter a medium heavy growth of timber, bears NW. and SE.
40.00	At the base of abrupt descent, bearing NW. and SE., set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 5 ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd.

¼

S 18 | S 17

1931

from which

A pinon pine, 6 ins. diam., bears S.54°00'E., 37 lks. dist., mkd. ¼ S 17 B T.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	A cedar, 10 ins. diam., bears N.8°00'W., 201 lks. dist., mkd. ¼ S 18 B T.
	From this ¼ sec. cor., desc. gradually 75 ft., along general NE. slope.
46.70	Draw, drains N.60°E. about 5 chs. dist. into a gulch, draining NE.; asc. rough SE. slope 50 ft.
54.20	Spur, projects NE. approximately 10 chs. dist.; desc. gradually 30 ft., over NW. slope to
57.20	Top of nearly perpendicular red sandstone ledge or bluff, 85 ft. high, bears N.60°E. and S.60°W.; steep descent of 215 ft., over N. slope to
59.00	Base of abrupt descent, bears E. and W.; over nearly leve bottom land of the San Rafael River, through a grove of cottonwood timber.
60.40	Right bank of San Rafael dry barren river bed, 5 ft. high bears NE. and S.70°W.; leave timber and undergrowth, bear NE. and SW.; over level river bed.
60.80	S. edge of the San Rafael River, which is a stream of clear alkali water, 4 to 6 ft. deep, course easterly.
62.20	N. edge of the stream.
63.60	Left bank of San Rafael dry barren river bed, 5 ft. high, bears E. and W.; continue over nearly level bottom land, through a grove of cottonwood timber, and medium dense undergrowth, bearing E. and W.
70.30	Leave grove of cottonwood timber, bears NE. and SW.; continue through scattering cedar and pinon pine.
70.70	Leave bottom land, bears N.60°E. and S.60°W.; asc. abrupt, rough, and broken SE. slope 100 ft. to
72.60	Top of nearly perpendicular brown sandstone ledge or bluff 45 ft. high, bears N.60°E. and S.60°W.; asc. gradually 95 ft., over rolling and gently rolling top of bench or mesa.
75.00	Top of ascent, bears NE. and SW.; desc. gradual NW. slope 40 ft. to
80.00	At the base of descent, bearing NE. and SW., set an irom post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 2 ft. high, for cor. of secs. 7, 8, 17, and 18, with brass cap mkd.

T20S	R11E
S7	S8
S18	S17

1931

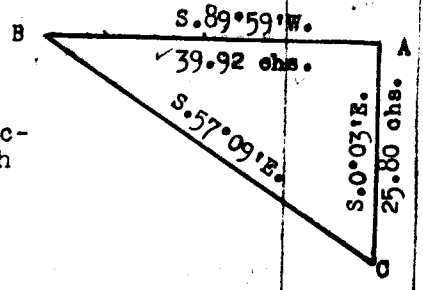
	from which
A cedar limb, 6 ins. diam., bears N.34°15'E., 1 lks. dist., mkd. T 20 S R 11 E S 8 B T.	270
A cedar limb, 4 ins. diam., bears S.54°45'E., 1 lks. dist., mkd. T 20 S R 11 E S 17 B T.	70
A cedar limb, 8 ins. diam., bears S.17°15'W., 1 lks. dist., mkd. T 20 S R 11 E S 18 B T.	197

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	A cedar limb, 5 ins. diam., bears N.44°15'W., 63 lks. dist., mkd. T 20 S R 11 E S 7 B T.
	Land, abrupt and mountainous, and rough with outcroppings, large boulders, sliderock, surface rock, and series of broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale, S. 59.00 chs. and N. 9.30 chs.; nearly level bottom land of the San Rafael River, remainder of mile; drainage into the San Rafael River, thence easterly.
	Soil, shallow and rocky red sand or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate. Surface rock exposed on portions of mile. Red sand and sandy loam, several ft. deep, on the bottom land of the San Rafael River, 1st. and 2nd. rate.
	Timber, cedar and pinon pine; scattering and groves of cottonwood on the bottom land of the San Rafael River.
	Undergrowth, black brush, mountain rush, shadscale, service berry bushes, and yellow top; mostly greasewood, rabbit brush, willows, and squaw bushes on the bottom land.
	Grazing, sparse to scattering bunch grass; dense growth of salt grass on the bottom land.
	S.89°58'E., on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line, 16 lks. N. of the cor. of secs. 8, 9, 16, and 17.
	Thence,
	N.89°51'W., on a true line bet. secs. 8 and 17.
	Asc. abrupt and rugged general SE. slope 275 ft., through scattering timber and undergrowth.
7.50	Top of spur, which is capped with nearly perpendicular ledges and outcroppings, projects S. about 4 chs. dist.; precipitous descent of 510 ft., over rough W. slope.
20.60	Draw, drains S.; asc. 115 ft., along general S. slope to
39.98	On top of ascent on S. slope, set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to solid rock, and in a mound of stone, 6 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 8 / S 17 1931
	At the base of the monument, I deposit a sandstone, 10x4x2 ins., marked with a cross (X), as there are no trees available suitable for marking.
46.50	Bottom of cove or base of descent, 60 ft. below ¼ sec. cor., bears southeasterly and southwesterly; asc. 75 ft. to
52.10	Top of nearly perpendicular brown sandstone ledge or rim,

Chains	
	45 ft. high, bears N.70°E. and S.70°W.; asc. gradually 155 ft., along rugged top of shelf on the abrupt N. side of San Rafael River Canyon.
74.00	Leave shelf at the top of ascent, bearing NE. and SW.; desc. gradually 20 ft. to sec. cor., over rolling and gently rolling top of bench or mesa.
79.96	The cor. of secs. 7, 8, 17, and 18.
	Land, abrupt N. side of San Rafael River Canyon, which is rugged with outcroppings, large boulders, sliderock, and broken, sloping, and nearly perpendicular ledges and rims of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale, E. 74.00 chs. rolling and gently rolling top of bench or mesa, W. 5.96 chs.; drainage generally S. and W. into the San Rafael River, thence easterly.
	Soil, shallow and rocky red sand or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th rate.
	Timber, sparse to scattering cedar and pinon pine..
	Undergrowth, black brush, mountain rush, shadscale, yellow top, and service berry bushes.
	Grazing, sparse to scattering bunch grass; fair growth of gramma grass on top of bench or mesa.
	S.89°59'W., on a random line bet. secs. 7 and 18.
39.92	Set temp. ¼ sec. cor.
40.00	Falls on the SW. face of a sandstone boulder, 10x10x5 ft.
45.30	To base of high and nearly perpendicular ledge or rim, which makes chaining impracticable; therefore, I make the following triangulations:

To verify the distance from the cor. of secs. 7, 8, 17, and 18 to the temp. ¼ sec. cor. at the 39.92 chs. point, I set a flag A on the cor. of secs. 7, 8, 17, and 18, and also erect a flag B at the 39.92 chs. point. From flag B, a flag C previously set at the 54.20 chs. point bet. secs. 17 and 18, bears S.57°09'E. The base line bet. flags A and C, bears S.0°03'E., and its length is 25.80 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.

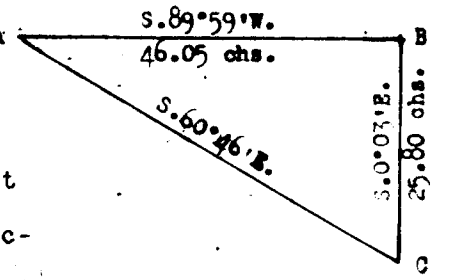


Angle at flag A = 90°02'
Angle at flag B = 32°52'.
Angle at flag C = 57°06'.

Distance from the cor. of secs. 7, 8, 17, and 18 to the temp. ¼ sec. cor. or flag B by triangulation is 39.92 chs., which agrees with the length of the line obtained by chaining.

Chains

To determine the distance from the cor. of secs. 7, 8, 17, and 18 to the top of the high ledge or rim of spur at approximately 6 chs. W. of temp. ¼ sec. cor., I erect a flag A on line on top of the ledge or rim, and designate the flag on the cor. of secs. 7, 8, 17, and 18, as flag B. From flag A, the flag C previously set at the 54.20 chs. point bet. secs. 17 and 18, bears S.60°46'E. The bearing of the base line bet. flags B and C is S.0°03'E., and the length 25.80 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 29°15'
Angle at flag B = 90°02'
Angle at flag C = 60°43'

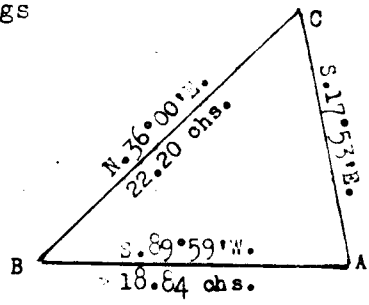
Distance from flag B on the cor. of secs. 7, 8, 17, and 18 to flag A by triangulation is 46.05 chs., or at

46.05 Triangulation flag A.

Thence, by direct measurement,

47.82 To top of high and nearly perpendicular ledge or rim, which makes chaining impracticable; so I triangulate as follows:

Erect a flag A at the 47.82 chs. point, and set a flag B S.89°59'W. on line. From flag B, measure a base line N.36°00'E, 22.20 chs. dist. to a flag C, from which flag A bears S.17°53'E. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 72°08'
Angle at flag B = 53°59'
Angle at flag C = 53°53'

Distance on random line from the cor. of secs. 7, 8, 17, and 18 to flag A.....= 47.82 chs.
Distance from flag A to flag B by triangulation.....= 18.84 chs.
Distance on random line from the cor. of secs. 7, 8, 17, and 18 to flag B.....= 66.66 chs.

Thence, from flag B by direct measurement,

70.10 To base of series of high ledges, which make chaining impracticable for a distance of approximately 5 chs. Then, I return to flag B.

Thence, on traverse line,

N.17°45'W., 7.42 chs. dist.; then on offset line,

S.89°59'W., 11.53 chs. dist. to an intersection with the

Chains	
	W. bdy. of the Tp.
	Thence, offset
	S.0°01'E., 7.09 chs. dist. bet. secs. 7 and 12 to the co of secs. 7, 12, 13, and 18, or at
80.45	Intersect the W. bdy. of the Tp., N.0°01'W. 2 lks. dist. from the cor. of secs. 7, 12, 13, and 18, hereinbefore described.
	Thence,
	N.89°58'E., on a true line bet. secs. 7 and 18.
	Asc. abrupt general NW. slope 250 ft., over series of sloping and perpendicular ledges, 10 to 20 ft. high, bea ing northeasterly and westerly, through scattering timbe and undergrowth.
6.50	Rugged spur, projects northeasterly approximately 50 chs. dist.; precipitous descent of about 500 ft. to triangulation flag B at the S. end of traverse line, over series of high and nearly perpendicular ledges, bearing NE. and SW., on SE. slope, making chaining impracticable. Therefore, I return to the cor. of secs. 7, 12, 13, and 18, or the W. bdy. of the Tp., and offset
	N.0°01'W., 7.07 chs. dist.; then on offset line
	N.89°58'E., 11.53 chs. dist. This offset line runs nearl parallel and within a few lks. dist. of the offset line used in determining the position of the cor. of secs. 7, 12, 13, and 18, on the W. bdy. of the Tp.; therefore, the position of the topography on this offse line practically agrees with the position of the topog raphy on the offset line; hereinbefore described.
	At 11.53 chs., end of offse line.
	Thence, on traverse line
	S.17°45'E., 7.42 chs. dist. At the beginning of course, desc. abrupt, rough, and broken SE. slope 160 ft., through scattering timber and undergrowth.
	At 7.42 chs., end of course intersect true line, or at
13.79	Triangulation flag B, bears north 1.7 lks. dist., at the base of abrupt descent, bearing NE. and SW.
	Thence,
	N.89°58'E., on true line.
	Desc. 25 ft., over rough and broken top of bench or shelf.
14.70	Top of nearly perpendicular brown sandstone ledge or W. rim of Cain Wash Gulch, 65 ft. high, bears N. and S.; desc. steep E. slope 80 ft.
15.80	Stream of clear alkali water, 4 lks. wide, 4 ins. deep, in the bottom of Cain Wash Gulch, course N.; asc. abrupt W. slope 80 ft.
16.80	Top of nearly perpendicular brown sandstone ledge or E.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	rim of Cain Wash Gulch, 55 ft. high, bears N. and S.; asc. gradually 40 ft., over rough and broken top of bench or shelf.
21.40	Leave top of bench or shelf, bears N.20°E. and S.20°W.; begin steep ascent of 640 ft., over rough W. slope.
32.63	Triangulation flag A bears north 1.2 lks. dist., on top of nearly perpendicular red sandstone ledge or W. rim of spur, bearing N. and S., about 200 ft. high; over nearly level top of spur, projecting N. approximately 20 chs. dist.
34.40	Triangulation flag A bears north 1.1 lks. dist., on top of nearly perpendicular red sandstone ledge or E. rim of spur, bearing N. and S., about 200 ft. high; desc. precipitous rough E. slope 480 ft. to
40.45	At the base of steep descent, bearing N. and S., set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock, and in a mound of stone, 4 ft. base, 1 ft. high, for ¼ sec. cor., with brass cap mkd.
	¼ S 7 / S 18 1931
	At the base of the monument, I deposit a sandstone, 5x2x2 ins., marked with a cross (X), as there are no trees within a reasonable distance suitable for marking.
40.53	Triangulation flag B bears north 1 lk. dist.
47.50	Draw, 85 ft. below ¼ sec. cor., drains NE.; asc. gradually 25 ft., over rolling top of bench, through a medium heavy growth of timber.
54.40	Top of ascent, bears NE. and SW.; desc. gradual SE. slope 30 ft.
66.20	Leave timber, bears N. and S.
66.30	Top of nearly perpendicular red sandstone ledge or E. rim of bench, 40 ft. high, bears N. about 6 chs. dist., thence northwesterly, and S.; desc. abrupt and rough E. slope 115 ft.
68.20	Base of abrupt descent, bears N. and S.; over nearly level bottom land of the San Rafael River, through scattering cottonwood.
69.20	Right bank of San Rafael River, 4 ft. high, bears N. and S.; W. edge of stream of clear alkali water, 4 to 6 ft. deep, course S.20°E.
70.20	Left bank of San Rafael River, 4 ft. high, bears N. and S.; E. edge of the stream.
75.50	Leave bottom land, bears N.30°W. and S.; leave cottonwood timber; asc. abrupt and rough W. slope 145 ft.
78.10	Top of nearly perpendicular brown sandstone ledge or W. rim of bench or mesa, 10 ft. high, bears N. and S.; enter a medium heavy growth of timber, bears N. and S.; asc. gradually 10 ft., over rolling and gently rolling top to
80.45	Triangulation flag A on the cor. of secs. 7, 8, 17, and 18.
	Land, abrupt and mountainous with benches or mesas and shelves, and bottom land of the San Rafael River; outcroppings, large boulders, sliderock, surface rock, and series

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	of broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale; drainage into the San Rafael River, thence easterly.
	Soil, shallow and rocky red sand or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th rate. Red sand and sandy loam, several ft. deep, on the bottom land of the San Rafael River, 1st. and 2nd. rate.
	Timber, cedar and pinon pine; scattering and groves of cottonwood on the bottom land.
	Undergrowth, black brush, mountain rush, shadscale, service berry bushes, and yellow top; mostly greasewood, rabbit brush, willows, and squaw bushes on the bottom land.
	Grazing, sparse to scattering bunch grass; dense growth of salt grass on the bottom land.
	N.0°03'W., bet. secs. 7 and 8.
	Over rolling and gently rolling top of bench or mesa, through scattering timber and undergrowth; asc. gradually 15 ft.
2.30	Leave top of bench or mesa, bears NW. and SE.; begin abrupt ascent of 400 ft., over rough and broken SW. slope.
16.00	Top of a series of broken sandstone ledges, 265 ft. high, bears N.20°W. and S.20°E.,, on spur, projecting northwesterly about 1.50 chs. dist.; precipitous descent of 470 ft. over a series of broken sandstone ledges, 265 ft. high, bearing NW. and SE., on NE. slope.
24.20	Gulch, drains W.; steep ascent of 395 ft., over rough S. slope.
31.20	Spur, which is capped with a series of broken and nearly perpendicular ledges, about 250 ft. high and bearing E. and W., projects W. approximately 1 ch. dist.; desc. NW. slope 265 ft.
35.40	Gulch, drains S.20°W.; asc. 70 ft. to
40.00	On top of ascent on SW. slope, set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 5½ ft. base, 2 ft. high, for ¼ sec. cor., with brass cap mkd.

¼

S 7 | S 8

1931

from which

A cedar, 6 ins. diam., bears N.69°15'E., 25 lks. dist., mkd. ¼ S 8 B T.

A cedar, 6 ins. diam., bears S.64°15'W., 127 lks. dist., mkd. ¼ S 7 B T.

43.00	Gulch, 25 ft. below ¼ sec. cor., drains S.15°W.; asc. abrupt rough SE. slope 25 ft. to

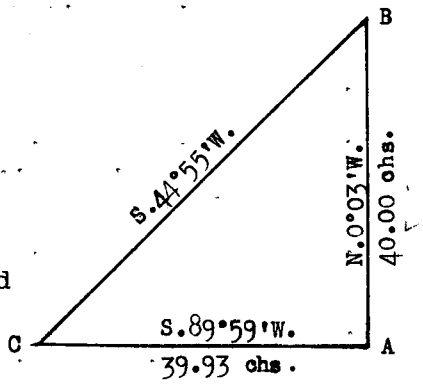
SUBDIVISION OF T. 20 S., R. 11 E.

Chains

43.80 Base of a series of broken, sloping, and nearly perpendicular red sandstone ledges or wall, which is about 1400 ft. high and forms the general NE. side or breaks of the San Rafael River Canyon.

N. from the base of the series of ledges or wall for a distance of approximately 15 chs., chaining is impracticable; therefore, I make the following triangulations:

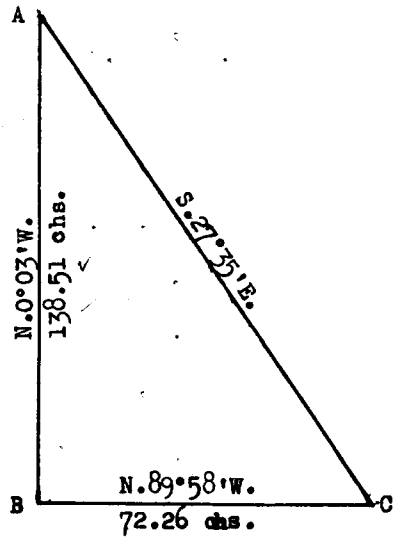
To verify the length of the S. ½ mile or the position of the ¼ sec. cor. bet. secs. 7 and 8, I erect a flag A on the cor. of secs. 7, 8, 17, and 18, and set a flag B on the ¼ sec. cor. bet. secs. 7 and 8. From flag B, a flag C previously set at the 39.93 chs. point on the random line bet. secs. 7 and 18, bears S.44°55'W. The base line bet. flags A and C, bears S.89°59'W., and the length is 39.93 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 89°58'
Angle at flag B = 44°58'
Angle at flag C = 45°04'

Distance from flag A on the cor. of secs. 7, 8, 17, and 18 to flag B on the ¼ sec. cor. bet. secs. 7 and 8 by triangulation is 40.00 chs., which agrees with the length of the S. ½ mile by chaining.

Owing to the country being rugged and broken, there are no suitable sites for base lines in the vicinity of the line bet. secs. 7 and 8, and projecting points and high ledges prevent the use of flags previously set on nearby sec. lines. To determine the distance from the cor. of secs. 7, 8, 17, and 18 to the top of the series of ledges or rim on the NE. side or breaks of San Rafael River Canyon, I use a portion of the true line bet. secs. 17 and 20 as a base for triangulating. Set a flag A on line on top of the N. rim of San Rafael River Canyon, and designate the true point for the cor. of secs. 17, 18, 19, and 20, as point B. From flag A, a flag C previously set at the 7.66 chs. point bet. secs. 17 and 20, bears S.27°35'E. The base line from point B to flag C, has a bearing of S.89°58'E., and a length of 72.26 chs. All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.



Angle at flag A = 27°32'
Angle at point B = 90°05'
Angle at flag C = 62°23'

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Distance from point B or the true point for the cor. of secs. 17, 18, 19, and 20 to flag A..... = 138.51 chs Distance from point B or the true point for the cor. of secs. 17, 18, 19, and 20 to the cor. of secs. 7, 8, 17, and 18..... = 80.00 chs Distance from the cor. of secs. 7, 8, 17, and 18 to flag A..... = 58.51 chs or at
58.51	Triangulation flag A, on top of series of ledges, wall or rim on the NE. side or breaks of San Rafael River Canyon, bearing NE. and SW., 1395 ft. above the base of ledges; desc. 65 ft., over gradual N. slope, through a medium heavy growth of timber and undergrowth.
61.30	Descent becomes more abrupt.
64.10	Draw, heads W. about 2 chs. dist., drains E. approximately 4 chs. dist., thence southwesterly; asc. SE. slope 140 ft.
71.10	Top of ascent, bears NE. and SW.; desc. 200 ft., over rough and broken NW. slope to true point for sec. cor.
71.30	Timber and undergrowth become sparse to scattering, bearing NE. and SW.
80.00	True point for the cor. of secs. 5, 6, 7, and 8, falls on steep slope of sandstone surface rock, where it is impracticable to establish a cor. monument, but I chisel a cross (X). N.0°12'E. 0.90 chs. dist. from the true point for the cor. of secs. 5, 6, 7, and 8, subsequently, set an iron post, 3 ft. long, 2 ins. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 6½ ft. base, 2¾ ft. high, for witness cor. to the cor. of secs. 5, 6, 7, and 8, with brass cap mkd. T20S | R11E S6 | S5 S7 | S8 WC 1931 There are no trees within a reasonable distance suitable for marking. Land, rolling and gently rolling top of bench or mesa, S. 2.30 chs.; abrupt and mountainous, and rugged with outcroppings, large boulders, sliderock, surface rock, and series of broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale, N. 77.70 chs.; drainage into the San Rafael River; S. 71.10 chs. drain SW.; N. 8.90 chs. drain northwesterly. Soil, shallow and rocky red sand or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate. Mostly surface rock exposed on entire mile. Timber, cedar and pinon pine. Undergrowth, black brush, mountain rush, shadscale, service berry bushes, and yellow top. Grazing, sparse to scattering growth of bunch grass.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	From the true point for the cor. of secs. 5, 6, 7, and 8, S.89°51'E., on a random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.07	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 4, 5, 8, and 9.
	Thence,
	N.89°55'W., on a true line bet. secs. 5 and 8.
	Over rolling, rough, and broken land, through a medium heavy growth of timber and scattering undergrowth; desc. gradually 60 ft., along SW. slope.
11.90	Top of nearly perpendicular light colored sandstone ledge, 30 ft. high, bears NW. and SE.
13.30	Leave timber, bears N. and S.
16.80	Wash, 15 lks. wide, 3 ft. deep, in the bottom of draw, drains N.60°W.; gradual ascent of 10 ft.
22.60	Spur, slopes N. about 3 chs. dist.; enter a heavy growth of timber, bears N. and S.; desc. W. slope 35 ft.
33.60	Draw, drains N. about 3 chs. dist., thence northwesterly; asc. E. slope 20 ft.
38.70	Saddle, bears N. and S., on top of sandstone spur, projecting N. approximately 4 chs. dist.; desc. W. slope 5 ft. to
40.03	True point for ¼ sec. cor. falls on a broken sandstone outcropping, where it is impracticable to establish a cor. monument or chisel a cross (X).
41.05	On W. slope, 10 ft. below the true point for ¼ sec. cor., set an iron post, 3 ft. long, 1 in. diam., over a cross (X) chiseled into surface rock, and in a mound of stone, 5 ft. base, 2½ ft. high, for witness cor. to the ¼ sec. cor., with brass cap mkd.
	¼ S 5 / S 8 WC 1933
	from which
	A pinon pine, 6 ins. diam., bears S.45°30'E., 173 lks. dist., mkd. W C ¼ S 8.B T.
	A pinon pine, 8 ins. diam., bears N.9°00'W., 283 lks. dist., mkd. W C ¼ S 5.B T.
44.20	Wash, 20 lks. wide, 3 ft. deep, in the bottom of draw, 25 ft. below the witness cor. to the ¼ sec. cor., drains N.; asc. E. slope 85 ft.
46.50	Base of sloping light colored sandstone ledge, 60 ft. high, bears N. and S.
47.80	Top of the ledge, bears N. and S.; saddle, bears N. and S., on top of sandstone spur, projecting N. approximately 15 chs. dist.; desc. 50 ft.
58.90	Head of gulch, drains NW.; asc. 35 ft.

U. S. GOVERNMENT PRINTING OFFICE: 1943 6—8155

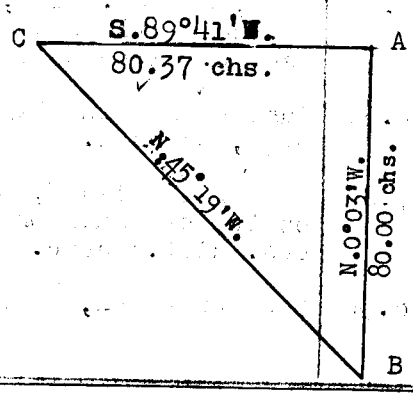
Chains	
64.90	Spur, projects NW. about 10 chs. dist.; abrupt descent o 105 ft.
70.00	Top of sloping light colored sandstone ledge, 75 ft. hig bears NE. and SW.
73.20	Head of gulch, drains NW.; asc. E. slope 45 ft.
76.20	Sandstone spur, projects N. about 3 chs. dist.; desc. abruptly 60 ft.
79.50	Head of gulch, drains N.; asc. gradual NE. slope 10 ft. t
80.07	The true point for the cor. of secs. 5, 6, 7, and 8.
	Land, rolling, broken, and rough with outcroppings, surface rock, and broken, sloping, and nearly perpendicular ledges of light colored sandstone; drainage to the NW.
	Soil, red sand and sandy loam, shallow and rocky on tops and slopes, and about 1 to 2 ft. deep, in the bottoms of draws and gulches, and lying on bedrock, 1st. to 4th. rat Surface rock exposed on greater portion of W. ½ mile.
	Timber, cedar and pinon pine; a few yellow pine on W. ½ mile.
	Undergrowth, mountain rush, black brush, and yellow top.
	Grazing, sparse to scattering growth of bunch grass; dens gramma grass in draws on E. ½ mile.

From the true point for the cor. of secs. 5, 6, 7, and 8, S.89°58'W., on a random line bet. secs. 6 and 7.

16.40 To top of series of high ledges, wall or rim on the NE. side or breaks of San Rafael River Canyon.

From this station, chaining is impracticable on the remainder of the mile, owing to the line crossing several deep gulches and gorges, which are rimmed with high and nearly perpendicular ledges. I continue the line, setting flags on the tops of ledges and spurs in the vicinity of the temp. point for the ¼ sec. cor. of secs. 6 and 7, for determining later the true position of said ¼ sec. cor. The line intersects the W. bdy. of the Tp., north 40 lks. dist. from the cor. of secs. 1, 6, 7, and 12, hereinbefore described. Then, I triangulate as follows:

Designate the true point for the cor. of secs. 5, 6, 7, and 8 as point A. From flag B on the cor. of secs. 7, 8, 17, and 18, flag C on the cor. of secs. 1, 6, 7, and 12, on the W. bdy. of the Tp., bears N.45°19'W. The base line AB has a bearing of N.0°03'W., and a length of 80.00 chs.; and the true line bet. secs. 6 and 7, or from point A to flag C, bears S.89°41'W.



SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	All bearings are checked by direct reading of the solar, and all angles are determined by deflection by three repetitions, with the closing error balanced to 180°.
	Angle at point A = 89°44' Angle at flag B = 45°16' Angle at flag C = 45°00'
	Distance from point A to flag C by triangulation is 80.37 chs., or at
80.37	Intersect the W. bdy. of the Tp., north 40 lks. dist. from the cor. of secs. 1, 6, 7, and 12, hereinbefore described.
	Thence,
	N.89°41'E., on a true line bet. secs. 6 and 7.
	Over rugged mountainous land, through a sparse growth of timber and undergrowth; desc. precipitous SW. side of gorge about 1000 ft.
23.00	Approximate distance. Gorge, drains S.; asc. abrupt W. slope about 300 ft.
29.00	Approximate distance. Spur, projects S. about 7 chs. dist.; steep descent of about 300 ft.
36.50	Approximate distance. Gulch, from NE., drains S.; asc. abrupt general E. side of gulch about 75 ft. to
40.37	The ¼ sec. cor., hereinafter described and established.
	Owing to the country being rugged and broken, there are no suitable sites for base lines near or in the vicinity of the ¼ sec. cor. of secs. 6 and 7, and projecting points and high ledges, which obstruct the view, prevent the use of flags previously set on nearby sec. lines. Therefore, the establishment of this ¼ sec. cor. by triangulation is impracticable, and I find that the best and most convenient method is by traversing from a point on the W. bdy. of the Tp. So, I return to the 32.93 chs. point on the W. bdy. of sec. 7.
	Thence, on traverse line,
	N.40°30'E., 61.67 chs. dist. At the beginning of course, desc. abrupt, rough, and broken NE. slope 145 ft., through scattering cedar timber and undergrowth of shadscale, mountain rush, and yellow top.
	At 4.10 chs., leave cedar timber and undergrowth of shadscale, mountain rush, and yellow top at the base of descent, bearing NW. and SE.; over nearly level dry bottom land of the San Rafael River, through a medium heavy growth of cottonwood timber and dense undergrowth of rabbit brush, greasewood, willows, and squaw bushes, bearing N.60°W. and S.60°E.
	At 11.00 chs., right bank of river channel, 4 ft. high, bears E. and W.
	At 11.70 chs., San Rafael River, which is a stream of clear alkali water, 80 lks. wide, 3 ft. deep, course easterly about 7 chs. dist., thence northerly.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains

At 13.40 chs., left bank of river channel, 4 ft. high, bears E. and W.

At 13.80 chs., leave nearly level dry bottom land of the San Rafael River, bears E. about 2 chs. dist., thence NE., and W.; leave timber and undergrowth, bear same as bottom land; asc. abrupt S. slope 80 ft.

At 14.00 chs., enter scattering undergrowth of shadscale and mountain rush.

At 15.20 chs., spur, projects E. about 1 ch. dist., thence NE.; desc. general NW. slope 80 ft.

At 25.40 chs., left bank of river channel, 5 ft. high, bears N. and S., at the base of descent; leave undergrowth of shadscale and mountain rush, enter scattering cottonwood timber, and dense undergrowth of rabbit brush, greasewood, willows, and squaw bushes, bears N. and S.; over nearly level dry bottom land of the San Rafael River.

At 33.50 chs., left bank of river channel, 5 ft. high, bears N.80°E. and S.80°W.

At 35.10 chs., leave nearly level dry bottom land of the San Rafael River, bears N.80°E. and S.80°W.; leave timber and undergrowth, bear same as bottom land; asc. abrupt S. slope 210 ft.

At 35.40 chs., enter scattering cedar and pinon pine timber and undergrowth of shadscale, mountain rush, and yellow top.

At 40.80 chs., top of nearly perpendicular red sandstone ledge, 110 ft. high, bears N.70°E. about 2 chs. dist. to end, and W.

At 42.10 chs., sandstone spur, projects E. approximately 1.50 chs. dist.; steep descent of 200 ft., over N. slope.

At 43.20 chs., top of nearly perpendicular red sandstone ledge, 100 ft. high, bears NW. and SE.

At 46.20 chs., gulch, drains S.80°E. about 8 chs. dist. into the San Rafael River; abrupt ascent of 85 ft., over SW. slope.

At 51.10 chs., spur, projects SE. approximately 3 chs. dist.; desc. 55 ft.

At 60.40 chs., gulch, drains S.10°W.; asc. 30 ft., along general W. slope.

At 61.67 chs., end of course, intersect true line bet. secs. 6 and 7.

Thence, on true line bet. secs. 6 and 7.

N.89°41'E., 30 lks. dist., or at

40.37 At the base of a nearly perpendicular sandstone ledge, 65 ft. high, bearing N.20°W. and S.70°E., set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec.

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	cor., with brass cap mkd.
	$\frac{1}{4}$ S 6 / S 7 1933
	raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
	There are no trees within a reasonable distance suitable for marking.
	To verify the position of the $\frac{1}{4}$ sec. cor. and the distances to topography on the traverse line in sec. 7, I proceed as follows:
	From the $\frac{1}{4}$ sec. cor.,
	S.89°41'W., 30 lks. dist., on true line bet. secs. 6 and 7; then on traverse line,
	S.40°30'W., 61.67 chs. dist. At the end of course, intersect the W. bdy. of the Tp., at the 32.93 chs. point bet. secs. 7 and 12.
	From the $\frac{1}{4}$ sec. cor. of secs. 6 and 7,
	N.89°41'E., on true line.
	Asc. precipitous rugged general E. side of gulch or NE. breaks of San Rafael River Canyon about 1400 ft.
42.30	Approximate distance. Top of nearly perpendicular sandstone ledge, about 120 ft. high, bears NE. and S.
64.00	Top of series of high ledges, wall or rim, bears NW. and SE., and forms the general NE. side or breaks of the San Rafael River Canyon; enter a medium heavy growth of timber, bears NW. and SE.; asc. gradual SW. slope 10 ft.
64.90	Top of ascent, bears NW. and SE.; desc. gradual NE. slope 45 ft. to
70.50	Top of sloping, light colored sandstone ledge, 90 ft. high, bears NW. about 30 lks. dist., thence westerly, and SE.; leave medium heavy growth of timber, bears NW. and SE., and enter scattering; desc. abrupt E. slope 100 ft.
73.90	Head of gulch, drains northwesterly; steep ascent of 95 ft.
77.20	Top of a sloping, light colored sandstone ledge, 65 ft. high, bears NW. and SE., on the top of spur, projecting NW. approximately 20 chs. dist.; desc. abrupt NE. slope 85 ft. to
80.37	Point A of triangulation at the true point for the cor. of secs. 5, 6, 7, and 8.
	Land, abrupt and mountainous, and rugged with outcroppings, large boulders, sliderock, surface rock, and series of broken, sloping, and nearly perpendicular ledges of varied colored sandstone, conglomerate of sandstone and volcanic formation, and red and blue shale; drainage S., SE., and SW. by gulches and gorges into the San Rafael River, thence southeasterly.
	Soil, shallow and rocky red sand or alternate layers of red sand, varied colored clays, shale, and sandstone, 4th. rate. Mostly surface rock exposed on entire mile.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
	Timber, cedar and pinon pine.
	Undergrowth, black brush, mountain rush, shadscale, service berry bushes, and yellow top.
	Grazing, sparse to scattering growth of bunch grass.
	From the true point for the cor. of secs. 5, 6, 7, and 8, N.0°13'W., on a random line bet. secs. 5 and 6.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. lot cor.
86.69	Intersect the N. bdy. of the Tp., west 63 lks. dist. from the cor. of secs. 5, 6, 31, and 32, which is an iron post 3 ins. diam., extending 16 ins. above ground, firmly set, correctly marked, and witnessed by four bearing trees, on in each sec., as described in the official record of the survey of T. 19 S., R. 11 E.
	Thence,
	S.0°12'W., on a true line bet. secs. 5 and 6.
	Over rolling land, through a heavy growth of timber and scattering undergrowth; desc. gradual W. slope 25 ft. to bottom of swale.
6.69	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock, and in a mound of stone, 4½ ft. base, 2 ft. high, for cor. of lots Nos. 4 and 5, sec. 5, and lots Nos. 1 and 8, sec. 6, with brass cap mkd.

S 6 — 1 | 4 / 8 | 5 — S 5

1933

from which

A cedar, 8 ins. diam., bears N.26°15'E., 12 lks. dist., mkd. Lot 4 S 5 B T.

A cedar limb, 4 ins. diam., bears S.68°45'E., 254 lks. dist., mkd. Lot 5 S 5 B T.

A cedar limb, 4 ins. diam., bears S.86°15'W., 79 lks. dist., mkd. Lot 8 S 6 B T.

A cedar, 7 ins. diam., bears N.58°45'W., 46 lks. dist., mkd. Lot 1 S 6 B T.

7.30	Leave timber, enter opening, bears E. and W.
7.50	Swale, 5 ft. below lot cor., drains SW.; asc. gradual N. slope 10 ft.
12.50	Leave opening, enter a heavy growth of timber, bears E. and W.
17.30	Top of ascent, bears E. and W.; gradual descent of 10 ft.
19.00	Swale, drains W.; asc. gradual N. slope 30 ft. to

SUBDIVISION OF T. 20 S., R. 11 E.

Chains	
35.00	Top of nearly perpendicular brown sandstone ledge or N. rim of gorge, 15 ft. high, bears NE. and S.10°W.; leave nearly level and rolling land; timber becomes more scattering, bearing same as top of ledge; desc. 25 ft., along SE. slope to
40.61	Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to solid rock, and in a mound of stone, 6 ft. base, 2½ ft. high, for witness cor. to the ¼ sec. cor., with brass cap mkd.

¼
S 6 | S 5
W C
1933

from which

A cedar, 7 ins. diam., bears S.43°45'E., 58 lks. dist., mkd. W C ¼ S 5 B T.

A pinon pine, 10 ins. diam., bears S.61°15'W., 36 lks. dist., mkd. W C ¼ S 6 B T.

This cor. stands E. 20 lks. dist. from the top of the N. rim of the gorge; bearing of rim at this point is N. and SW.

45.20	Top of nearly perpendicular light colored sandstone ledge, 35 ft. high, bears NE. and S.10°W.
46.69	The true point for the ¼ sec. cor. falls on a broken and sloping sandstone outcropping, where it is impracticable to establish a cor. monument or mark a cross (X), 125 ft. below the witness cor. to the ¼ sec. cor.
49.60	Bottom at junction of two gorges, one from the NE. and one from the E., 50 ft. below the true point for ¼ sec. cor., drains SW.; asc. abrupt NW. slope 195 ft.
56.00	Top of nearly perpendicular brown sandstone ledge or S. rim of gorge, 25 ft. high, bears NE. and southwest about 1.50 chs. dist., thence southeasterly; asc. gradual N. slope 5 ft.
56.70	Top of ascent, bears E. and W. about 70 lks. dist. to rim of gorge; gradual descent of 5 ft. to
60.90	Top of nearly perpendicular brown sandstone ledge or N. rim of gulch, 135 ft. high, bears SE. and NW. about 50 lks. dist., thence northerly; precipitous descent of 180 ft., over general S. slope.
62.80	Base of the ledge or N. rim of gulch, bears same as top.
64.10	Gulch, drains W. approximately 15 chs. dist. into a gorge draining from the NE.; asc. abrupt general N. slope 135 ft.
70.90	Top of ascent on W. slope of sandstone knoll; top of the knoll, bears E. about 1 ch. dist.; desc. general SW. slope.
77.60	Wash, 30 lks. wide, 5 ft. deep, in the bottom of gulch from the S., drains NW.; asc. along or near the bottom of the gulch.
84.20	Leave bottom of gulch; asc. NE. slope.
85.79	The witness cor. to the cor. of secs. 5, 6, 7, and 8,

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

Chains

hereinbefore described, 35 ft. above the gulch noted at 77.60 chs.

86.69 The true point for the cor. of secs. 5, 6, 7, and 8, 20 ft. above the witness cor. to the cor. of said secs.

Land, nearly level, rolling, and gently rolling, with blue limestone outcroppings, N. 35.00 chs.; gorges and gulches with outcroppings, large boulders, sliderock, and broken, sloping, and nearly perpendicular ledges of brown yellow, and light colored sandstone and blue limestone formation, S. 51.69 chs.; general drainage to the SW.

Soil, red sand and sandy loam, shallow and rocky on tops and slopes, and about 1 to 3 ft. deep, in the bottoms of draws and swales, and lying on bedrock, 1st. to 4th. rate N. 35.00 chs.; shallow red sand in places, 1st. to 4th. rate, but mostly surface rock exposed on greater portion of S. 51.69 chs.

Timber, cedar and pinon pine; a few scattering yellow pine along the bottoms of gulches and gorges on S. 51.69 chs.

Undergrowth, black brush, yellow top, mountain rush, and service berry bushes, scattering on N. 35.00 chs. and a sparse growth on remainder of mile.

Grazing, a scattering to a fair growth of gramma grass on N. 35.00 chs.; scattering bunch grass on remainder of mile

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GENERAL DESCRIPTION

All the lands embraced in this township are located in a rough section of Emery County, Utah. The San Rafael River, which is a stream of clear alkali water, varying in width from about one to three chains and in depth from two to five feet, crosses the west boundary of the township near the true point for the quarter section corner of sections 7 and 12 and flows in a southeasterly and easterly direction, leaving the east boundary of section 25, north approximately fifteen chains distant from the quarter section corner of sections 25 and 30. The country to the north of the San Rafael River is a plateau, which is bordered on the south and southeast by the high north rim or wall of this river. The base of the rim or north wall of the river has an elevation above sea level of approximately four thousand feet and the altitude of the higher parts of the plateau at the top of the rim or wall is about two thousand five hundred feet higher. From the south edge or rim of the plateau, the land has a general north and northwest slope of about five hundred feet to the north boundary of the township. All the land to the south of the San Rafael River lies in a section of country known as Sinbad, and the elevation above sea level varies from about four thousand feet on the river to about sixty-five hundred feet on the higher tops. All of the land is rugged, except small portions in the northwest, central, south central, southeast, and the extreme northeast parts of the township, which may be classed as rolling and broken, and gently rolling, with some bad lands. Also, large tracts of nearly level bottom land are found in many places along the San Rafael River. The surface is cut by large washes, deep canyons, gorges, box canyons, chasms, gulches, draws, swales, and hollows, which drain into the San Rafael River, thence southeasterly. All the canyons,

gorges, chasms, and gulches are bordered or rimmed by nearly perpendicular ledges or walls, varying in height from about twenty to several hundred feet; and a great many of the larger canyons and gorges range from one thousand to two thousand feet deep. San Rafael River passes through a large canyon or gorge until it reaches the southeast quarter of section 16, where the stream comes into open country and crosses Sinbad. A large box canyon, which is called Buckhorn Draw, drains the greater portion of the northeast quarter and small parts of the northwest quarter of the township. This canyon has a southeasterly course through sections 4, 3, 10, 11, 14, and 15 into the San Rafael River. The junction of the North and South Forks of Cow Canyon is in the NE.¼SE.¼ of section 3; then, the main fork of Cow Canyon drains southwest into the Buckhorn Draw. Pine Canyon passes through the northeast quarter of section 12 and the south half and SW.¼NW.¼ of section 1 into the South Fork of Cow Canyon. Good Water Canyon heads in the southeast quarter of section 9, and crosses the west half of section 10, and the SE.¼SW.¼ of section 3 into the Buckhorn Draw. Cain Wash enters into a box gulch or canyon in the NE.¼SW.¼ of section 31, and crosses sections 31, 30, 19, 18, and 7 into the San Rafael River. Cain Wash or Cain Wash Gulch lies at the east base of a high, rugged, and prominent mountain, known as Sid Mountain. Narrow benches or shelves are located along the sides of nearly all the rugged ridges and spurs. A large nearly level, rolling, and broken bench or mesa, covers the greater portion of section 32 and small parts of sections 28, 29, 31, and 33. Smaller benches or mesas lie in sections 26, 27, and 34 and in the northeast quarter of the township. The area between the San Rafael River and the Buckhorn Draw is called The Wedge. Many conspicuous high peaks, buttes, domes, knolls, and knobs can be seen all over the township. A peak, known as the Window Blind Peak, is situated on line near the true point for the quarter section corner of sections 26 and 35. This peak received its name from the indentations or holes in the sandstone around and near the top, which have the appearance of windows with shades or blinds. The top of the peak rises about two thousand five hundred feet above the San Rafael River, and can be seen for many miles from the surrounding country. This peak is also the highest of a rugged chain of peaks, extending through sections 23, 26, and 35. Assembly Hall Peak, which is several hundred feet lower than the Window Blind Peak, stands in the SE.¼NW.¼ of section 23. Bottle Neck Peak, which has the shape of the neck of a bottle, is located in the SW.¼NW.¼ of section 22. These peaks and many others in the township are made up almost entirely of red sandstone.

Varied colored sandstone, conglomerate of sandstone and volcanic rock, red and blue shale, and blue limestone are the principal formations, being exposed or shown on the greater portion of the township as surface rock, large boulders, sliderock, outcroppings, and series of broken, sloping, and nearly perpendicular ledges, rims, and walls. Blue shale and blue limestone are the main formations on the rolling and broken, and gently rolling land in the southeast quarter of the township and on top of The Wedge.

Numerous petrified trees, varying in diameter from about six inches to three feet, are strewn along the sides and near the bottom of Cain Wash Gulch. Many of the trees are found embedded or partly embedded and projecting out from the sandstone walls of the gulch.

The soil is a shallow red sand or alternate layers of red sand, varied colored clays, shale, or sandstone, lying on bedrock, 3rd. and 4th. rate, on tops, slopes, and sides of canyons, gorges, and gulches. Red sand and sandy

U. S. GOVERNMENT PRINTING OFFICE, 1951 6—8155

loam, about one to three feet deep, lying on bedrock, 1st. and 2nd. rate, in the bottoms and on the sides of some of the canyons, gulches, swales, draws, and hollows. On the rolling and broken land, gently rolling land, and bad lands in the southeast quarter of the township, the soil is a shallow red sand in places, but mostly a blue clay mixed with shale, about four inches to three feet deep, lying on shale or sandstone bedrock, 4th. rate. Red sand and sandy loam, about one to several feet deep, lying on bedrock, 1st. rate, is found on the greater portion of the bottom land of the San Rafael River and along the bottom of the Buckhorn Draw.

The principal timber is cedar and pinon pine, varying from a scattering to a heavy growth or in patches on the tops of ridges, spurs, benches or mesas. On the sides or slopes and bottoms of canyons, gorges, gulches, swales, draws, and hollows, the timber is generally sparse to scattering. A few cedar grow in the southeast quarter of the township, and some yellow pine are found on the sides of canyons and on the tops in the southeast quarter of section 12 and northeast quarter of section 13. Scattering and groves of cottonwood grow along the bottom land of the San Rafael River and bottom of the Buckhorn Draw.

Mountain rush, shadscale, yellow top, and service berry bushes are the principal undergrowth, varying from a scattering to a medium dense growth on all of the sections. Medium dense to dense willows, squaw bushes, rabbit brush, and greasewood grow on the banks and bottom land of the San Rafael River and along the washes in Buckhorn Draw and and in the forks of Cow Canyon.

The San Rafael River, hereinbefore described, is the main stream of water in the township. A stream of clear alkali water, about two to four links wide and one to four inches deep, flows in the wash in the Buckhorn Draw, during the spring, fall, and winter months. Small streams of clear alkali water rise and sink in many places along the bottoms of the North and South Forks of Cow Canyon. A stream of clear alkali water, about three to six links wide and two to six inches deep, rises in the E.½SW.¼ of section 31, and flows through Cain Wash Gulch into the San Rafael River. Seeps and small springs of good clear water rise and sink in many places in the bottom of Good Water Canyon. This is the only good running water in the township. A water hole or tank in the sandstone, forty links in diameter and six feet deep, is located in lot 3 of section 18, Township 20 South, Range 12 East, and east two and one half chains distant from the range line between sections 13 and 18. The tank is fed from a small seep, and the water which is about three feet deep, is slightly alkaline, but fairly good for culinary purposes. Two water tanks in the sandstone surface rock, one fifty links in diameter, three feet deep and the other one hundred links long, fifty links wide, five feet deep, are situated in the NE.¼NE.¼ of section 13. These two tanks contain water during the rainy seasons and in the winter months. A stream of clear alkali water, about two links wide, two inches deep, flows in the bottom of a main wash through the W.½SW.¼ of section 33. Several seeps and small springs of clear alkali water rise and sink in the SW.¼NE.¼ of section 13.

Although the greater portion of the land is rugged and cut by deep canyons, gorges, and gulches, there is a scattering to a fair growth of either gramma or bunch grass on nearly all of the sections, where rock is not entirely exposed.

At present, the land is used chiefly for grazing purposes. Approximately twenty thousand sheep, five hundred head of cattle, and one hundred head of horses graze in this township and adjoining townships during the winter and in the

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

late fall and early spring months of the year. Also, about two hundred and fifty wild horses and one hundred wild burros range in this township and vicinity the year round. Except during periods when snow serves as water, the stock trail to water at the San Rafael River, streams in the Buckhorn Draw, Cow Canyon, Cain Wash Gulch, and seeps, springs, and water holes.

Owing to the country being rugged and broken and the scarcity of water, there are very few tracts suitable for farming. Floyd Day, a homesteader has cultivated about twenty acres in the eastern portion of section 1, and raised wheat and barley by dry farming. All small pieces of ground on the bottom land of the San Rafael River, adapted for growing of crops, are over flowed by high water from melting snow in the spring of the year and from cloud bursts during the summer months.

A wagon road from Huntington and Castle Dale, Utah to the San Rafael Swell, which is located in the southern part of Sinbad, follows along the bottom of the Buckhorn Draw, crosses the San Rafael River in the NW.¼SW.¼ of section 14, then bears in a southwesterly direction and leaves the south boundary of section 33 just west of the standard quarter section corner of section 33. It is possible to travel over this road with an automobile, and this route is the only practicable way into the Sinbad country, which is only accessible from other directions by three or four pack trails. From the road just described, a wagon road, which is badly in need of repair, takes off in the SW¼NW.¼ of section 14, and bears in an easterly and southeasterly course to the abandoned oil well prospects of the Old Emery Oil Company in sections 24 and 25, thence southeasterly to Mexican Bend on the San Rafael River in the northern part of Township 21 South, Range 13 East.

Floyd Day settled in part of section 1 of this township, along with other portions of sections 6 and 7 in Township 20 South, Range 12 East. Later, he sold his holdings to Rufus Wilberg, the only settler in this township, who has all of his improvements in sections 6 and 7, Township 20 South, Range 12 East. Three prospect oil wells, two of which are located in the SW.¼SE.¼ of section 24 and one in the NW.¼NE.¼ of section 25, were drilled by the Old Emery Oil Company in the years 1921 and 1922. These wells are now plugged and abandoned. Paul Judd of Castle Dale constructed a log cabin, 18½x15 feet in the SE.¼SE.¼ of section 14. He has abandoned his holdings in section 14, and the cabin is now used by prospectors and cattlemen. There are no other improvements in the township.

There are no seams or veins of coal exposed on any of the sections, nor any indications of oil, except oil shale, which is found all over the township, and more so in the southeast portion. Small seams or veins, which appear to carry ore, are exposed in the NE.¼NE.¼ of section 31, the NW.¼NW.¼ of section 32, and also on the sides of canyon in the N.½SE.¼ of section 10. Several men were prospecting in this township and vicinity while this survey was in progress.

U. S. GOVERNMENT PRINTING OFFICE, 1931 6—8155

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BOOK A-514

4—680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
1930	
Elmo Sager	Principal Assistant.
John Willie	Chainman.
Molen Roper	Axman.
Heber Pearson	Cornerman.
1931	
Edward Eliason	Principal Assistant.
John Willie	Chainman.
Barney Dougall	Axman.
Molen Roper	Flagman.
C. A. Green	Cornerman.
1933	
Elmo Sager	Principal Assistant.
John Willie	Chainman.
S. D. Nicholes	Axman.
Edward Johnson	Flagman.

6—6764

CERTIFICATE OF ~~UNITED STATES~~ SURVEYOR

I, J. C. Clark, ~~U. S.~~ Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Utah bearing date of the 17th. day of February, 1925, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of: Retracement of a Portion of the North Boundary of T. 20 S., R. 11 E., Survey of a Portion of the Fourth Standard Parallel South, through Range 10 East, Survey of the Fourth Standard Parallel South, through Range 11 East, and the East Boundary, a Portion of the West Boundary, and the Subdivision of T. 20 S., R. 11 E. of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Certified to at Salt Lake City, Utah April 30, 1935.

J. C. Clark
~~U. S.~~ Surveyor.

APPROVAL

OFFICE OF ~~U. S.~~ SUPERVISOR OF SURVEYS,

Denver, Colorado, February 6, 1942.

The foregoing field notes of ~~the survey of~~ the Retracement of a Portion of the North Boundary of T. 20 S., R. 11 E., Survey of a Portion of the Fourth Standard Parallel South, through Range 10 East, Survey of the Fourth Standard Parallel South, through Range 11 East, and the East Boundary, a Portion of the West Boundary, and the Subdivision of T. 20 S., R. 11 E.

executed by J. C. Clark

under his special instructions dated February 17, 1925, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank M. Johnson
~~U. S.~~ Supervisor of Surveys.

~~I certify that the foregoing transcript of the field notes of the above-described surveys in~~

~~, has been correctly copied from the original notes on file in this office.~~

~~U. S. Supervisor of~~

U. S. GOVERNMENT PRINTING OFFICE 1937 6—2784

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Page

4—679

BOOK A-514

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Public Survey Office
Salt Lake City, Utah

FIELD NOTES

OF THE SURVEY OF THE

EAST BOUNDARY AND SUBDIVISION

OF

T. 21 S., R. 17 E.

Of the SALT LAKE BASE AND *Meridian,*

in the State of UTAH

EXECUTED BY

CHAS. E. MOORE

in the capacity of U. S. Surveyor, *under Special Instructions dated* Sept. 28th, *19*30, *issued by the District Cadastral Engineer to govern surveys included in Group No.* 224, *which were approved by the Commissioner of the General Land Office,* Dec. 16th, *19*30, *and Assignment Instructions dated* August 14, *19* 1931.

Survey commenced September 16th, *19* 31

Survey completed September 17th, *19* 31

6—151

Moore

BOOK A-514

INDEX DIAGRAM.

Township 21 SOUTH, *Range* 17 EAST.

6	5	4	3	2	1 6 2 5
7	8	9	10	11	12 1
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

U. S. GOVERNMENT PRINTING OFFICE 6—151

T. 21 S.,R. 17 E.

The survey of township 21 south, range 17 east, commenced September 16th, 1931; was excuted with Buff and Buff light mountain transit No. 9983 . Township 21 south, range 17 east, was surveyd in conjunction with township 21 south, range 18 east, of this group. For full description and tests of instrument and method of measurements, see the tests and descriptions given at the beginning of the survey of township 21 south, range 18 east.

I repeat the tests of the arcs daily by noon observations and verify the meridional indications at frequent intervals through out the survey.

SURVEY OF THE EAST BOUNDARY OF T. 21 S.,R. 17 E.

From the ¼ sec. cor., for secs. 7 and 12, on the east boundary, which is a sandstone 14 x 10 x 7 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.

North, on true line bet. secs. 7 and 12.

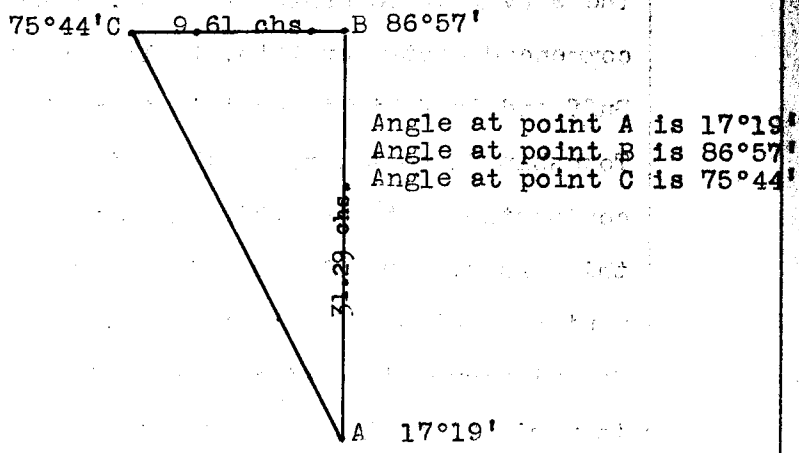
Over rough and broken bench land, through scattering undergrowth.

The line to the north ascends over precipitous slopes and vertical sandstone ledge over which chaining is impracticable. Therefore to determine the distance I triangulate as follows:

Erect flag A at the ¼ sec. cor., and set flag B on line to the north, and also set flag C northwesterly from A. The mean distance of the base line BC is 9.61 chs. with no difference in measurement between two set of chainmen. The angles were determined by three repetitions with the error balanced to 180°. The vertical angle from A to B is plus 14°.

SURVEY OF THE EAST BOUNDARY OF T. 21 S., R. 17 E.

Chains



Distance by triangulation on line to B------- 31.29 chs.

31.00 Top of sandstone rim, 100 ft. high, bears E. and W.

31.29 Point B of triangulation. On top of spur, projects W.

Descend 330 ft. over abrupt N. slope.

40.00 True point for the cor. of secs. 1, 6, 7 and 12, falls sloping clay slope where it is impracticable to set cor.

40.58 Set an iron post, 3 ft. long, 2 ins. diam., 15 ins. in the ground to solid rock, with sandstone 12 x 10 x 8 ins. mkd. X deposited at the base, and surrounded by mound of stone to the top, for the witness cor. of secs. 1, 6, 7 and 12, with brass cap mkd.

T21S
R17E R18E
S 1 | S 6
S12 | S 7
WC
1931

No other suitable accessories available.

Land, broken bench; general drainage and exposure SW.

Soil, loose sandy and clay loam, with exposed surface sandstone; 3rd rate.

Timber, none.

Undergrowth, shadscale and black brush.

Poor grazing.

North, on true line bet. secs. 1 and 6. **counting dis-distances from true corner point for secs.1,6,7 and 12.** Over rough and broken bench land, through scattering undergrowth.

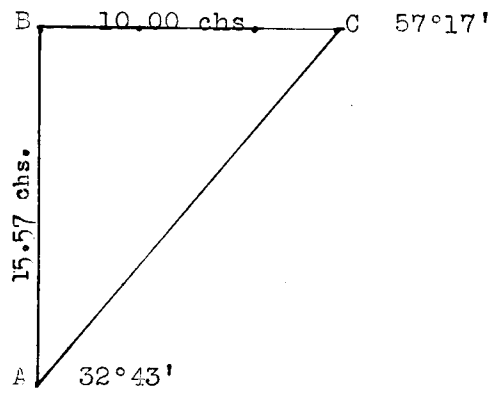
0.58 The witness cor. of secs. 1, 6, 7 and 12.

Chains

The line to the north crosses canyon with precipitous slopes and ascends over vertical sandstone rim over which chaining is impracticable. Therefore to determine the distance I triangulate as follows:

Erect flag A at the witness cor. of secs. 1, 6, 7 and 12, and set flag B on line to the north and also set flag C northeasterly from A. The mean distance of the base line BC is 10.00 chs. with no difference in measurement between two sets of chainmen. The angles were determined by three repetitions with the error balanced to 180°. The vertical angle from A to B is plus 25°30'.

Angle at point A is 32°43'
Angle at point B is 90°00'
Angle at point C is 57°17'



Distance on line to point A----------0.58 chs.
Distance by triangulation A to B----------15.57 chs.
Total distance on line to B----------16.15 chs.

6.00 Approx. dist. to bottom of canyon, course N. 150 ft. below witness sec. cor.

Ascend precipitous S. slope.

16.10 Top of sandstone rim, 75 ft. high, bears E. and W.

Commence gradual descent of 490 ft. to bottom of draw.

16.15 Point B of triangulation.

19.10 Sandstone rim, 30 ft. high, bears E. and W. Commence abrupt descent over N. slope.

36.40 Bottom of draw, course SW. Ascend 360 ft. over SE. slope to top of spur.

40.00 Set an iron post, 3 ft. long, 1 in. diam. 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 1 | S 6

1931

SURVEY OF THE EAST BOUNDARY OF T. 21 S., R. 17 E.

Chains	
	and raise mound of stone 3 ft. base, 2 ft. high, W. of the cor.
42.52	Point for the closing cor. of Tps. 20½ and 21 S., R. 18 E. established in the survey of T. 21 S., R. 18 E. of this group. Thence along E. bdy. sec. 1. T.21S., R.17 E.
42.70	Top of spur, projects SW. Descend 40 ft. over NW. slope.
57.00	Bottom of draw, course SW. Ascend 220 ft. over SE. slope to top of ridge.
61.00	Top of sandstone rim, 30 ft. high, bears NE. and SW.
70.30	Top of ridge, bears E. and W. Descend 210 ft. over N. slope, to bottom of draw.
80.00	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid rock, and surrounded by mound of stone to the top, for the cor. of lots 9 and 16, sec. 1, with brass cap mkd.

S 1 | 9 / 16 |
1931

No other suitable accessories available.

84.00	Bottom of draw, course W. Ascend 100 ft. over S. slope.
86.80	Top of ridge brs. NW. & SE. Descend 180 ft. over N. slope to bottom of draw.
100.00	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, to solid rock, with sandstone 9 x 7 x 5 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the cor. of lots 8 and 9 sec. 1, with brass cap mkd.

S 1 | 8 / 9 |
1931

No other suitable accessories available.

120.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the cor. of lots 1 and 8, sec. 1, with brass cap mkd.

S 1 | 1 / 8 |
1931

Chains	
	of stone 3 ft. base, 2 ft. high, W. of the cor.
128.60	Bottom of draw. course S. Ascend 70 ft. over S. slope.
126.62	Intersect the 4th Stand. Par. South. East, 19.70 chs. dist. from the stand.cor. of secs. 34 and 35, which is a sandstone 10 x 8 x 8 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.
	At point of intersection
	Set an iron post, 3 ins. diam., 3 ft. long, 6 ins. in the ground to solid rock, with sandstone 14 x 12 x 10 ins. mkd. with X deposited at the base, and surrounded by a mound of stone, to the top, for the closing cor. of secs. 1 and 31, Tps. 20½ and 21 S., Rs. 17 and 18 E., with brass cap mkd.

T20S R17E	
S 35	
S 1	S31
T21S	T20½S
R17E	R18E
C C	
1931	

No other suitable accessories available.

Land, broken bench; general drainage and exposure W.

Soil, loose sandy loam with exposed surface sandstone; 3rd rate.

Timber, none.

Undergrowth, shadscale and black brush.

Poor grazing.

SUBDIVISION OF T. 21 S.,R. 17 E.

From the cor. of secs. 1, 2, 11 and 12, which is a sandstone 24 x 10 x 4 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.

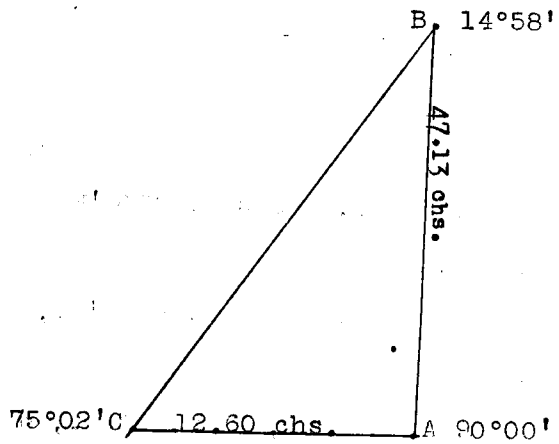
N.89°59'E., on random line bet. secs. 1 and 12.

40.00	Set temp. ¼ sec. cor.
80.04	Intersect the E. bdy., 30 lks. N. of the true point for the cor. of secs. 1, 6, 7 and 12, heretofore described.
	Thence

Chains	
	N.89°48'W., on true line bet. secs. 1 and 12.
	Over broken bench land, through scattering undergrowth.
	Counting distance from the true corner point.
	Descend 130 ft. over gradual NW. slope.
30.00	Bottom of draw, course SW. Ascend 100 ft. over SE. slope to top of spur.
40.02	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 1 / S 12 / 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
50.90	Top of spur, projects SE. Descend 100 ft. over SW. slope.
80.04	The cor. of secs. 1, 2, 11 and 12,
	Land, broken bench; general drainage and exposure S.
	Soil, loose sandy and clay loam; 3rd rate.
	Timber, none.
	Undergrowth, shadscale and black brush.
	Poor grazing.
	N.0°01'W., bet. secs. 1 and 2.
	Over rough and broken bench land through scattering undergrowth.
0.55	The line to the north ascends over precipitous slope and vertical sandstone ledge, over which chaining is impracticable. Therefore to determine the distance I triangulate as follows:
	Erect flag A at this point and set flag B on line to the north, and set flag C westerly from A the mean distance of 12.60 chs. with no difference in the measurement by two sets of chainmen. The angles were determined by three repetitions with the error balanced to 180°. The vertical angle from A to B is plus 14°45'.

SUBDIVISION OF T.21 S., R. 17 E.

Chains



Angle at point A is 90°00'
Angle at point B is 14°58'
Angle at point C is 75°02'

Distance on line to point A----------0.55 chs.
Distance by triangulation A to B----------47.13 chs.
Total distance on line to B---------- 47.68 chs.

40.00 True point for the ¼ sec. cor., falls on inaccessible ledges where it is impracticable to set. cor.

47.68 Top of sandstone rim, 100 ft. high, bears E. and W. Point B of triangulation. Enter scattering timber bearing E. and W. Thence over top of bench land.

49.06 Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the witness ¼ sec. cor., with brass cap mkd.

¼

S 2 | S 1

WC
1931

from which

A pinon, 4 ins. diam., bears S.86°00'E., 188 lks. dist., mkd. ¼ S 1 WC B T.

A pinon, 8 ins. diam., bears N.27°15'W., 160 lks. dist., mkd. ¼ S 2 WC B T.

50.00 Top of low ridge, bears E. and W. Descend 375 ft. over general N. slope to the closing cor.

80.00 Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of lots 12 and 13, sec. 1 and lots 9 and 16, sec. 2, with brass cap mkd.

Chains

S 2 — 9 | 12 / 16 | 13 — S 1
1931

from which

A pinon, 3 ins. diam., bears S.72°30'E., 122 lks. dist., mkd. B T.

A pinon, 3 ins. diam., bears S.25°15'W., 96 lks. dist., mkd. B T.

100.00 Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of lots 5 and 12 sec. 1 and lots 8 and 9 sec. 2, with brass cap mkd.

S 2 — 8 | 5 / 9 | 12 — S 1
1931

No other suitable accessories available.

120.00 Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of lots 4 and 5 sec. 1 and lots 1 and 8 sec. 2, with brass cap mkd.

S 2 — 1 | 4 / 8 | 5 — S 1
1931

from which

A juniper, 3 ins. diam., bears S.48°00'E., 22 lks. dist., mkd. B T.

A juniper, 3 ins. diam., bears S.10°30'W., 79 lks. dist., mkd. B T.

126.75 Intersect the 4th Stand. Par. S., East, 20.02 chs. dist., from the cor. of secs. 33 and 34, which is a sandstone 18 x 14 x 4 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.

At point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock, with sandstone 10 x 8 x 6 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the closing cor. of secs.

Chains

1 and 2, with brass cap mkd.

T20S R17E
S34

S 2 | S 1
T21S | R17E
C C
1931

No other suitable accessories available.

Land, broken bench; general drainage and exposure W.

Soil, sandy loam with exposed surface rock; 3rd rate.

Timber, juniper and pinon.

Undergrowth, shadscale and black brush.

Poor grazing.

FINAL TEST OF INSTRUMENT.

See final test at completion of the survey of T. 21 S., R.18 E., of this group.

GENERAL DESCRIPTION

The land embraced in this fractional township is rough and broken bench land, at the base of the Book Cliff Mountains.

The higher portions of the bench land is covered with a scattering growth of juniper and pinon timber of no commercial value except for fire wood.

The entire portion of the township is covered with a scattering growth of shadscale and black brush.

The soil, is a loose sandy loam, with much exposed sandstone surface rock.

The only industry is winter grazing of live stock.

There is no living water in the portion of the township under survey.

There are surface indications of coal.

The magnetic declination was not taken on account of defective needle.

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Page

BOOK A-514

4—680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Wilson McConkie	Chainman
Andrew McConkie	Chainman
Archie Jeffs	Cornerman
Robert Bywater	Flagman

6—2764

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Chas. F. Moore, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Utah bearing date of the 28th day of September, 19 30 I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of T. 21 S., R. 17

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Salt Lake City, Utah
April 30,1932

Chas. F. Moore
Chas. F. Moore
U. S. Surveyor.

APPROVAL.

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

~~Denver Colo.~~ DEC 19 1935, 19

The foregoing field notes of the survey of T. 21 S., R. 17 E.

executed by Chas. F. Moore

under his special instructions dated September 28th, 1930, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

[signature]
U. S. Supervisor of Surveys.

~~I certify that the foregoing transcript of the field notes of the above described surveys in T. 21 S., R. 17 E., has been correctly copied from the original notes on file in this office.~~

~~U. S. Supervisor of Surveys.~~

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APR 2 [illegible] 1932
Department Of The Interior
Public Survey Office
Salt Lake City, Utah

4-679

BOOK A-514 "B"

FIELD NOTES

OF THE SURVEY OF THE

SOUTH BOUNDARY T. 20½ S., R. 18 E.

SUBDIVISIONS

AND

DEPENDENT RESURVEY OF THE SOUTH BOUNDARY

OF

T. 21 S., R. 18 E.

Of the Salt Lake Base and Meridian,

In the State of Utah

EXECUTED BY

Chas. F. Moore

In the capacity of U. S. Surveyor, under instructions dated Sept. 28, 1930, *issued by the* ~~United States Surveyor General~~ DISTRICT CADASTRAL ENGINEER *to govern surveys included in Group No.* 224, *which were approved by the Commissioner of the General Land Office,* Dec. 16th, 1930, and assignment instructions dated August 14, 1931.

Survey commenced August 17th, 1931

Survey completed September 27th, 1931

8-181

BOOK A-514

INDEX DIAGRAM.

Township 21 SOUTH, *Range* 18 EAST.

16	15	14	13	12	11	10	9
6 80 79	5 63 78	4 50 62	3 37 49	2 26 36	1 25		
7 77 75	8 60 74	9 48 60	10 35 47	11 24 34	12 24		
18 73 72	17 58 71	16 46 57	15 33 45	14 22 32	13 22		
19 70 69	20 56 68	21 43 55	22 31 41	23 20 30	24 19		
30 67 67	29 54 65	28 39 52	27 29 38	26 19 28	25 18		
31 64 8	32 51 7	33 38 5	34 27 4	35 17 3	36 2		

T. 21 S., R. 18 E.

Survey commenced August 17th, 1931, and was executed with Buff and Buff light mountain transit No. 9983; the instrument is equipped with full vertical circle and the Smith solar attachment; unless otherwise specified all azimuth determinations are accomplished with the solar attachment. The instrument was in good condition and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer for Utah in assignment instructions dated August 14, 1931. I examined all the instrumental adjustments before making the field tests hereinafter described.

The measurements were made with Lallie steel tape, 8 chs. in length, graduated every link for the first 100 links and the balance at intervals of 10 links. The tape was tested by comparison with Lufkin standard 1 chain tape and found correct. The measurement was made on the slope, and the vertical angle of each interval was ascertained by clinometer in good condition; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position for the SE. corner of the township as follows: Latitude 38°56'N., and the longitude 109°54'W.

August 17th, 1931, at the corner of secs. 3, 4, 33 and 34, on the S. bdy. of T. 21 S., R. 18 E., at 9h 59m p.m., l.m.t., I observe Polaris at eastern elongation, making two sights each with the telescope in direct and reversed positions, and place a tack at the mean point, on a peg driven firmly in the ground 10 chains N. August 18th, 1931, at 6h 00m a.m., l.m.t., I lay off the azimuth of Polaris, 1°22'W., and make a meridian mark on a second peg to the west of the mean point in the line determined by observation.

Chains	
	In order to verify the latitude of this station I make a meridian observation of the sun, first setting on the lower limb and noting the transit of the west limb, then after reversal of the instrument setting on the upper limb and noting the transit of the east limb as follows: Mean observed altitude - - - - - - - 64°18'40" Reduced latitude - - - - - - - - - - 38°56' Every 30 minutes from 7 to 10:30 a.m., and from 1:30 to 5 p.m., I make the proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error of less than 1'30". I repeat the tests of the arcs daily by noon observations and verify the meridional indications at frequent intervals throughout the survey.
	DEPENDENT RESURVEY OF THE SOUTH BDY. OF T. 21 S., R. 18 E. "Reestablishment of the surveys executed by Heist and Winwood, U.S. Deputy Surveyors, in 1908." From the corner of Tps. 21 and 22 S., Rs. 18 and 19 E., which is an iron post, 3 ins. diam., extending 6 ins. above ground, firmly set, properly marked and witnessed as described in the official record. N. 89° 59' W., on true line between secs. 1 and 36. Over rolling desert land through scattering undergrowth. Descend 20 feet over rolling land.
40.00	Record course and distance intersect the ¼ sec. corner, which is a sandstone, 8x8x6 ins. above ground, firmly set, properly marked and witnessed as described in the official record. At the exact corner point Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with the original corner deposited alongside for the ¼ sec. corner with brass cap marked ¼ S 36 / S 1 1931

DEPENDENT RESURVEY OF THE SOUTH BDY. OF T. 21 S.,R. 18 E.

Chains	
	Continue descent of 40 ft. over rolling desert land.
60.10	Bottom of draw, course SW. Ascend 30 ft. over SE.slope.
77.10	Top of spur, projects SW. Descend 10 ft. over NW.slope.
80.00	Record course and distance, intersect the cor. of secs., 1, 2, 35 and 36, which is ansandstone 10 x 8 x 6 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.
	At the exact corner point
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock, with the orig. cor. deposited alongside, and surrounded by mound of stone to the top, for the cor. of secs. 1, 2, 35 and 36, with brass cap mkd.

T21S R18E
S35 | S36
S 2 | S 1
T22S.
1931

Land, rolling desert land; general drainage and exposure SW.

Soil, clay loam; 2nd rate.

Timber, none.

Undergrowth, shadscale.

Fair grazing.

	N.89°59'W., on true line bet. secs. 2 and 35.
	Over rolling desert land, through scattering undergrowth.
	Descend 10 ft. over rolling land to ¼ sec. cor.
9.00	Denver and Rio Grande Western Railroad tracks, bears N.71°45'E., and S.71°45'W.
10.80	Western Union Telegraph line, bears N.71°45'E., and S.71°45'W.
23.00	Bottom of small draw, course SW.
40.00	Record course and distance, intersect the ¼ section cor. of secs. 2 and 35, which ia a sandstone, 12 x 8 x 6 ins. firmly set, properly mkd. and witnessed as described in the official record.
	At the exact corner point

DEPENDENT RESURVEY OF THE S. BDY. OF T.21 S.,R. 18 E.

Chains

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with the orig. ¼ sec. cor., deposited alongside, for the ¼ sec. cor., with brass cap mkd.

¼ S 35 / S 2
1931

Ascend 70 ft. to top of ridge.

66.20 Top of ridge, bears NE. and SW. Descend 20 ft. over NW. slope.

80.00 Record course and distance, intersect the corner of secs. 2, 3, 34 and 35, which is a sandstone, 8 x 4 x 4 ins. firmly set, properly mkd. and witnessed as described in the official record.

At the exact corner point.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with the orig. cor. deposited alongside, for the cor. of secs. 2, 3, 34 and 35, with brass cap mkd.

T21S R18E
S34 | S35
S 3 | S 2
T22S
1931

Land, rolling desert land; general drainage and exposure SW.

Soil, clay loam; 2nd rate.

Timber, none.

Undergrowth, shadscale.

Fair grazing.

N.89°59'W., on true line bet. secs. 3 and 34.

Over rolling desert land, through scattering undergrowth.

Descend 40 ft. to the ¼ sec. cor.

40.00 Record course and distance, intersect the ¼ sec. cor., which is a sandstone 10 x 8 x 6 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.

At the exact corner point

DEPENDENT RESURVEY OF THE S. BDY. OF T.21 S.,R. 18 E.

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with the orig. cor. deposited alongside, for the ¼ sec. cor., with brass cap mkd.
	¼ S 34 / S3 1931
	and raise mound of stone 3 ft. base, 2 ft. high, N. of the cor.
	Continue over rolling desert land.
50.90	Bottom of Saleratus Wash, 1 chain wide, 15 ft. deep, course S.
	Ascend 30 ft. over E. slope to sec. cor.
66.00	Road, bears NE. and SW.
80.00	Record course and distance, intersect the cor. of secs. 3, 4, 33 and 34, which is a limestone 8 x 8 x 3 ins. above ground, firmly set, properly marked and witnessed as described in the official record.
	At the exact corner point
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with the orig. cor. deposited alongside, for the cor. of secs. 3, 4, 33 and 34, with brass cap mkd.
	T21S R18E S33 | S34 S 4 | S 3 T22S 1931
	and raise mound of stone 3 ft. base, 2 ft. high W. of the cor.
	Land, rolling desert; general drainage and exposure S.
	Soil, sandy clay loam; 2nd rate.
	Timber, none.
	Undergrowth, greasewood, and shadscale.
	Poor grazing.
	N.89°59'W., on true line bet. secs. 4 and 33.
	Over rolling desert land, through scattering undergrowth.
	Descend 15 ft. over general W. slope.

DEPENDENT RESURVEY OF THE S. BDY. OF T. 21 S., R. 18 E.

Chains	
34.70	Bottom of draw, course S. Ascend 70 ft. over general E. slope to top of spur.
40.00	Record course and distance intersect the ¼ sec. cor., for secs. 4 and 33, which is a sandstone, 18 x 6 x 4 ins. firmly set, properly mkd. and witnessed as described in the official record. At the exact corner point Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground with the orig. cor. deposited alongside, for the ¼ sec. cor., with brass cap mkd. ¼ S 33 / S 4 1931
51.30	Top of spur, projects S. Descend 80 ft. over W. slope.
57.60	Bottom of draw, course S. Ascend 120 ft. over E. slope.
72.10	Top of ridge, bears N. and S. Descend 120 ft. over W. slope.
80.00	Record course and distance, intersect the cor. of secs. 4, 5, 32 and 33, which is a sandstone 18 x 6 x 4 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record. At the exact corner point Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with the orig. cor. deposited alongside, for the cor. of secs. 4, 5, 32 and 33, with brass cap mkd. T21S R18E S32 | S 33 S 5 | S 4 T22S 1931 and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor. Land, rolling desert; general drainage and exposure S. Soil, gravelly clay loam; 2nd rate. Timber, none. Undergrowth, shadscale. Poor grazing.

DEPENDENT RESURVEY OF THE S. BDY. OF T.21 S., R. 18 E.

Chains	
	N.89°59'W., on true line bet. secs. 5 and 32 .
	Over rolling desert land, through scattering undergrowth.
	Descend 30 ft. over NW. slope.
6.70	Bottom of draw, course SW. Thence over rolling desert
	land, with no change in elevation.
40.00	Record course and distance, intersect the ¼ sec. cor.,
	for secs. 5 and 32, which is a sandstone, 8 x 6 x 5 ins.
	firmly set, properly mkd. and witnessed as described
	in the official record.
	At the exact corner point
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in
	the ground, with the orig. ¼ sec. cor., deposited
	alongside, for the ¼ sec. cor., with brass cap mkd.
	¼ S 32 / S 5 1931
	and raise
	mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Continue over rolling desert land, with no change in
	elevation.
41.00	Draw, course NW.
49.60	Bottom of same draw, course SW.
60.70	Western Union Telegraph line, bears N.32°30'W., and
	S. 32°30'E.,
61.70	Denver and Rio Grande Western Railroad, bears N.32°30'W.,
	S. 32°30'E.
77.00	Road, bears NW. and SE.
80.00	Record course and distance, intersect the cor. of secs.
	5, 6, 31 and 32, which is a sandstone, 12 x 6 x 4 ins.
	firmly set, properly mkd. and witnessed as described
	in the official record.
	At the exact corner point
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in
	the ground, with the orig. cor. deposited alongside
	for the cor. of secs. 5, 6, 31 and 32, with brass cap
	mkd.

Chains	
	T21S R18E S31 | S32 S 6 | S 5 T22S 1931 and raise
	mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Land, rolling desert; general drainage and exposure S.
	Soil, gravelly clay loam; 2nd rate.
	Timber, none.
	Undergrowth, shadscale.
	Poor grazing.
	N.89°59'W., on true line bet. secs. 6 and 31.
	Over rolling desert land, through scattering undergrowth.
	Descend 10 ft. over general NW. slope.
40.00	Record course and distance, intersect the ¼ sec. cor. for secs. 6 and 31, which is a sandstone, 12 x 12 x 4 ins. firmly set. properly mkd. and witnessed as described in the official record.
	At the exact corner point.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with the orig. ¼ sec. cor., deposited alongside, for the ¼ sec. cor., with brass cap mkd.
	¼ S 31 S 6 1931 and raise
	mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Continue descent of 80 ft. over general W. slope, to the sec. cor.
58.30	Utah Power and Light Co. power line, bears S.78°E., and N. 78°W.
59.60	Road, bears SE. and NW.
77.57	Record course and distance, intersect the cor. of Tps. 21 and 22 S., Rs. 17 and 18 E., which is a sandstone, 12 x 10 x 6 ins. above ground, firmly set and properly mkd. and witnessed as described in the official record.

DEPENDENT RESURVEY OF THE S. BDY., OF T. 21 S., R. 18 E.

Chains

Land, rolling desert; general drainage and exposure W.

Soil, gravelly clay loam; 2nd rate.

Timber, none.

Undergrowth, shadscale.

Poor grazing.

SURVEY OF THE SOUTH BOUNDARY OF T.20½ S., R. 18 E.

From the Standard corner of T. 20 S., Rs.18 and 19 E., which is an iron post, 3 ins. diam., firmly set, properly mkd. and witnessed as described in the official record.

I change the markings on the brass cap of this post to read as follows:

SC
T20½S | T20S
R18E | R19E
S36 | S31
1919

West, on true line on the south boundary of sec. 36, over broken bench land, through scattering timber and undergrowth.

9.66 Intersect the closing cor. of T. 21 S., Rs.18 and 19 E., which is an iron post, 3 ins. diam., firmly set, properly mkd. and witnessed as described in the official record.

Descend 140 ft. over W. slope.

13.30 Bottom of draw, course S. Ascend 240 ft. over E. slope.

28.00 Top of spur, projects S. Descend 30 ft. over W. slope to bottom of draw.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for the ¼ sec. cor., with brass cap mkd.

¼ S 36
1931

and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.

No suitable bearing tree available.

49.66 Point midway, bet. the closing cor. of T. 21 S., Rs. 18 and 19 E., and the closing cor. of seds. 1 and 2

Chains	
	T. 21 S., R. 18 E., hereinafter described.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., for sec. 1 only, with brass cap mkd.
	¼ S 1 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
49.70	Bottom of draw, course SW. Continue over broken bench land, with general W. slope.
66.60	Top of spur, projects SW. Descend 50 ft. over NW. slope.
74.50	Bottom of draw, course SW. Ascend 10 ft. over gradual W. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 35 and 36, T.20½ S., R. 18 E., with brass cap mkd.
	T20½S | R18E S35 | S36 1931
	and raise mound of stone, 3 ft. base, 1 ft. high, N. of the cor.
	Land, broken bench; general drainage and exposure SW.
	Soil, sandy loam with surface sandstone; 3rd rate.
	Timber, very scattering scrub juniper.
	Undergrowth, sagebrush.
	Fair grazing.
	West, on the S. bdy. of sec. 35.
	Over broken bench land, through scattering undergrowth.
	Ascend a very gradual NE. slope.
1.00	Top of spur, projects SE. Descend 10 ft. over SE. slope.
2.80	Bottom of draw, course SE. Ascend 160 ft. over E. slope to top of spur.
9.66	Point for the closing cor. of secs. 1 and 2, hereinafter described.
20.20	Top of spur, projects NE. Descend 50 ft. over NW. slope.

Chains	
24.10	Bottom of draw, course NE. Ascend 50 ft. over SE. slope.
28.20	Top of spur, projects NE. Descend 40 ft. over NW. slope.
34.30	Bottom of draw. course NE. Ascend 210 ft. over SE. slope to top of ridge.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock, with sandstone 6 x 6 x 4 ins. mkd. with X, deposited at the base, and surrounded by a mound of stone to the top, for the ¼ sec. cor., for sec. 35 only with brass cap mkd. ¼ S 35 1931
42.80	Top of ridge, bears N. and S. This ridge is the divide bet. Horse Canyon and Saleratus Wash. Descend 450 ft. over E. slope to sec. cor.
49.76	Point midway bet. the closing cors. of secs. 1 and 2 and secs. 2 and 3, hereinafter described. Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the sec. cor., for sec. 2 only, with brass cap mkd. S 2 1931 and raise mound of stone, 3 ft. base, 2 ft. high, E. of the cor.
68.00	Bottom of draw, course SW.
69.00	Bottom of same draw, course NW.
70.00	Bottom of same draw, course SW.
71.00	Bottom of same draw, course NW.
72.00	Bottom of same draw, course SW.
75.00	Bottom of same draw, course NW.
79.90	Bottom of same draw, course S.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock, with sandstone 10 x 8 x 5 ins. mkd. with X, deposited at the base, and surrounded by mound of stone to the top, for the cor. of secs. 34 and 35, T. 20½ S., R. 18 E., with brass cap mkd.

Chains

T20½S | R18E
S34 | S35

1931

Land, broken bench; general drainage and exposure, E. of the divide is NE. and W. of the divide SW.

Soil, sandy clay loam, with surface sandstone; 3rd rate.

Timber, none.

Undergrowth, sagebrush and shadscale.

Poor grazing.

West, on the S. bdy. of secs. 34.

Over broken bench land, through scattering undergrowth.

Ascend 25 ft. over SE. slope, to top of spur at 36.90 chs.

1.60 Bottom of draw, course NW.

7.90 Same draw, course SE.

8.40 Same draw, course NW.

9.86 Point for the closing cor. of secs. 2 and 3, hereinafter described.

12.00 Same draw, course SW.

14.80 Top of low spur, projects SW.

23.20 Same draw, course N.

26.50 Bottom of same draw, course SW.

36.90 Top of spur, projects S. Descend 80 ft. over W. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., for sec. 34 only, with brass cap mkd.

½ S 34
1931

Continue descent of 100 ft. over general W. slope.

49.86 Midway bet. the closing cor. of secs. 2 and 3 and the closing cor. of secs. 3 and 4, hereinafter described.

Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock, with sandstone 9 x 8 x 6 ins. mkd. X, deposited at the base, and surrounded by

Chains	
	a mound of stone to the top, for the ¼ sec. cor., for sec. 3 only, with brass cap mkd.
	¼ S 3 1931
52.10	Bottom of draw, course S. Ascend 90 ft. over E. slope.
62.10	Top of spur, projects S. Descend 240 ft. over W. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 33 and 34, T. 20½ S., R. 18 E., with brass cap mkd.
	T20½S | R18E S33 | S34 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Land, broken bench; general drainage and exposure SW.
	Soil, sandy clay loam with exposed surface sandstone; 3rd rate.
	Timber, none.
	Undergrowth, sagebrush and shadscale.
	Poor grazing.
	West, on the S. bdy of sec. 33.
	Over broken bench land, through scattering undergrowth.
	Descend 90 ft. over W. slope.
9.86	Point for the closing cor. of secs. 3 and 4, hereinafter described.
10.00	Bottom of draw, course SW. Ascend 170 ft. over SE. slope to top of spur.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., of sec. 33 only, with brass cap mkd.
	¼ S 33 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
49.79	Midway bet. the closing cor. of secs. 3 and 4, and the closing cor. of secs. 4 and 5, hereinafter described.

Chains

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, with sandstone 11 x 9 x 7 ins. mkd. with X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., for sec. 4 only, with brass cap mkd.

¼ S 4
1931

[illegible].50 Top of spur, projects S. Descend 370 ft. over W. slope.

[illegible] Bottom of draw, course S.

[illegible] Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 32 and 33, with brass cap mkd.

T20½S	R18E
S32	S33

1931

and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.

Land, broken bench; general drainage and exposure SW.

Soil, sandy loam, with exposed surface sandstone;3rd rate

Timber, none.

Undergrowth, shadscale and black brush.

Poor grazing.

West, on the S. bdy of sec. 32.

Over broken bench land, through scattering undergrowth.

Ascend 190 ft. over E. slope.

[illegible].72 Point for the closing cor. of secs. 4 and 5, hereinafter described.

16.[illegible] Top of spur, projects SE. Descend 110 ft. over SW. slope.

[illegible].60 Bottom of draw, course SE. Ascend 70 ft. over NE. slope.

4[illegible] True point for the ¼ sec. cor., falls on precipitous slope of loose rock and gravel where it is impracticable to set the cor.

41.68 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the witness ¼ sec. cor., with brass cap mkd.

SURVEY OF THE SOUTH BOUNDARY OF T. 20½ S., R. 18 E.

Chains	
	¼ S 32 WC 1931
	and raise mound of stone 3 ft. base, 2 ft. high, N. of the cor.
	Continue ascent of 610 ft. over NE. slope, to top of spur.
82.50	Top of spur, projects S.
49.78	Midway bet. the closing cor. of secs. 4 and 5 and the closing cor. of secs. 5 and 6, hereinafter described. Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, with sandstone 8 x 8 x 6 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., for sec. 5 only, with brass cap mkd.
	¼ S 5 1931
80.00	Set an iron post, 3 ft. long, 2 in. diam., 30 ins. in the ground, for the cor. of secs. 31 and 32, T. 20½ S., R. 18 E., with brass cap mkd.
	T20½S | R18E S31 | S32 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Land, rough and broken bench; general drainage and exposure S.
	Soil, loose sandy loam with exposed surface sandstone; 3rd rate.
	Timber, none.
	Undergrowth, shadscale and black brush.
	Poor grazing.
	West, on the S. bdy of sec. 31.
	Over very rough and broken bench land, through scattering undergrowth. Descend 380 ft. over W. slope.
9.60	Bottom of draw, course S. Ascend 800 ft. over E. slope.

SURVEY OF THE SOUTH BOUNDARY OF T.20½ S.,R. 18 E.

Chains	
9.84	Point for the closing cor. of secs. 5 and 6, hereinafter described.
28.20	Top of spur, projects S. Descend 1090 ft. over W. slope to the bottom of draw.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock, with sandstone 8 x 4 x 4 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the sec. cor., for sec. 31 only, with brass cap mkd. S 31 1931
47.14	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, with sandstone 6 x 6 x 4 ins. mkd. X deposited at the base, and surrounded by mound of stone to the top, for the witness sec. cor., for sec. 6 only, with brass cap mkd. WC S 6 1931
49.70	Bottom of draw, course ascend 30 ft. over E. slope to top of spur.
49.84	Point, westing of 40.00 chs. from the closing cor. of secs. 5 and 6; true point for the sec. cor., for sec. 6, falls on precipitous clay slope where it is impracticable to set cor.
52.60	Top of spur, projects S. Thence over broken top of mesa.
84.99	Set an iron post, 3 ft. long, 3 ins. diam., over X cut in solid rock, and surrounded by mound of stone to the top, for the witness closing cor. of Tps. 20½ and 21 S., R. 18 E., with brass cap mkd. T20½S R18E S31 WC — CC S 6 T21S 1931
85.30	Top of vertical rim, 75 ft. high, bears N. and S. Descend 85 ft. over precipitous W. slope.

Chains	
86.21	Intersect the E. bdy of sec. 1, T. 21 S., R. 17 E., north, 2.52 chs. dist. from the ¼ sec. cor. for 1 and 6, which is an iron post, 1 in. diam., firmly set, properly mkd. and witnessed as described in the official record of T. 21 S., R. 17 E., of this group. The point of intersection and true point for the closing cor. of Tps. 20½ and 21 S., R. 18 E., falls on sloping ledge, where it is impracticable to set. cor. Land, rough and broken bench; general drainage and exposure S. Soil, loose sandy and clay loam with exposed surface sandstone; 3rd rate. Timber, none. Undergrowth, black brush and shadscale. Poor grazing.

SUBDIVISION OF T. 21 S., R. 18 E.

From the cor. of secs. 1, 2, 35 and 36, on the S. bdy., heretofore described.

N.0°01'W., bet. secs. 35 and 36.

Over rolling desert land, through scattering undergrowth.

Ascend 70 ft. over general S. slope to the ¼ sec. cor.

2.60 Denver and Rio Grande Western Railroad, bears N.81°00'E., and S. 81°00'W.

3.30 Western Union Telegraph line, bears N.81°00'E., and S. 81°00'W.

13.80 Top of small spur, projects SE.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S35 | S36

1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Continue ascent of 20 ft. over rolling desert land, to the sec. cor.

Chains	
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 25, 26, 35 and 36, with brass cap mkd. T21S R18E S26 | S25 S35 | S36 1931 and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor. Land, rolling desert, general drainage and exposure S. Soil, loose clay loam; 2nd rate. Timber, none. Undergrowth, shadscale. Poor grazing.
	S.89°59'E., on random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
80.28	Intersect the E. bdy., 2 lks. S. of the cor. of secs. 25, 30, 31 and 36, which is an iron post, 2 ins. diam., firmly set, properly mkd. and witnessed as described in the official record. Thence West, on true line bet. secs. 25 and 36. Over top of mesa land, through scattering timber and undergrowth.
2.00	Top of sandstone rim, 50 ft. high, bears N. and S. Leave scattering timber, bears N. and S. Commence abrupt descent of 430 ft. over W. slope to ¼ sec. cor.
40.14	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd. ¼ S 25 / S 36 1931 and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor. Continue gradual descent of 40 ft. over gentle SW. slope
66.00	Bottom of draw, course SW. Ascend 40 ft. over E. slope.

Chains	
80.28	Intersect the cor. of secs. 25, 26, 35 and 36.
	Land, rolling desert; general drainage and exposure SW.
	Soil, loose sandy and clay loam; 2nd rate.
	Timber, scattering juniper on the first 2.00 chs.
	Undergrowth, shadscale.
	Poor grazing.
	N.0°01'W., bet. secs. 25 and 26.
	Over broken desert land, through scattering undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼
S 26 | S 25
1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

	Gradual ascent of 50 ft. over gradual E. slope to the sec. cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with sandstone 8 x 6 x 4 ins. mkd. X. deposited at the base, for the cor. of secs. 23, 24, 25 and 26, with brass cap mkd.

T21S R18E
S23 | S24
S26 | S25
1931

	No other suitable accessories available.
	Land, broken desert; general drainage and exposure S.
	Soil, loose sandy and clay loam; 2nd rate.
	Timber, none.
	Undergrowth, shadscale.
	Poor grazing.
	East, on random line bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.20	Intersect the E. bdy., 2 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, 2 ins. diam.

Chains

firmly set, properly mkd. and witnessed as described in the official record.

Thence

N.89°59'W., on true line bet. secs. 24 and 25.

Over broken bench land, through scattering timber.

Descend 480 ft. over general W. slope to the ¼ sec. cor.

36.10 Top of rim, 75 ft. high, bears NW. and SE. Leave timber, bears NW. and SE. Continue descent over W. slope.

40.10 Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with sandstone 9 x 8 x 6 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

S 24
S 25
1931

No other suitable accessories available.

Continue descent 220 ft. over SW. slope to sec. cor.

42.20 Intersect the cor. of secs. 23, 24, 25 and 26.

Land, broken bench and desert; general drainage and exposure SW.

Soil, loose sandy and clay loam, with exposed surface rock; 3rd rate.

Timber, scattering juniper.

Undergrowth, shadscale, and black brush

Poor grazing.

N.0°01'W., bet. secs. 23 and 24.

Over broken desert land, through scattering undergrowth.

Ascend 35 ft. over SE. slope.

6.44 Top of low ridge, bears E. and W. Descend 20 ft. over N. slope.

17.00 Road, bears E. and W.

24.50 Bottom of Saleratus Wash, 1 ch. wide, and 15 ft. deep, with small stream of salty water 1 lk. wide, in bottom, course W. Ascend 180 ft. over SE. slope.

Chains

38.10 Top of spur, projects SW. Descend 40 ft. over NW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, to solid rock, with sandstone 10 x 8 x 6 ins. mkd. X, deposited at the base, and surrounded by mound of stone, to the top, for the ¼ sec. cor., with brass cap mkd.

	¼	
S23		S24
	1931	

No other suitable accessories available.

40.10 Bottom of draw, course SW. Ascend 70 ft. over SE. slope.

45.50 Top of spur, projects SW. Descend 90 ft. over NW. slope.

49.10 Bottom of draw, course SW. Ascend 550 ft. over SE. slope.

55.40 Top of sandstone rim, 75 ft. high, bears W and E. 3 chs. thence S. Thence over top of mesa land.

65.40 Enter scattering timber, bears NW. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, to solid rock, and surrounded by mound of stone to the top, for the cor. of secs. 13, 14, 23 and 24, with brass cap mkd.

T21S R18E

S14	S13
S23	S24

1931

from which

A juniper, 8 ins. diam., bears S.61°00'E., 61 lks. dist., mkd. T 21 S R 18 E S 24 B T.

A juniper, 4 ins. diam., bears S.25°00'W., 41 lks. dist., mkd. T 21 S R 18 E S 23 B T.

A juniper, 4 ins. diam., bears N.67°00'W., 92 lks. dist., mkd. T 21 S R 18 E S 14 B T.

No other suitable accessory available.

Land, broken bench; general drainage and exposure S.

Soil, loose sandy and clay loam, with exposed surface sandstone; 3rd rate.

Timber, scrub juniper.

Undergrowth, shadscale and black brush.

Poor grazing.

Chains	
	S.89°59'E., on random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.20	Intersect the E. bdy., 7 lks. S. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, 2 ins. diam. firmly set, properly mkd. and witnessed as described in the official record.
	Thence
	S.89°58'W., on true line bet. secs. 13 and 24.
	Over broken bench land through scattering undergrowth.
	Ascend 60 ft. over NE. slope.
7.20	Top of spur, projects NW. Descend 120 ft. over W. slope to bottom of Saleratus Wash.
16.20	Road, bears NE. and SW.
30.90	Bottom of Saleratus Wash, 1 chs. wide, 10 ft. deep, course S. Ascend 600 ft. over SE. slope to top of spur
40.10	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 13 / S 24 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
63.10	Top of sandstone rim, 75 ft. high, bears NE. and SW.
66.10	Top of spur, projects S. Descend 10 ft. over SW. slope.
80.20	The cor. of secs. 13, 14, 23 and 24.
	Land, rough and broken bench; general drainage and exposure S.
	Soil, loose sandy and clay loam, with exposed surface sandstone; 2nd rate.
	Timber, a few scattering scrub juniper .
	Undergrowth, shadscale and black brush.
	Poor grazing.
	N.0°01'W., bet. secs. 13 and 14
	Over broken bench land, through scattering timber.
	Ascend 70 ft. over S. slope.
7.50	Top of ridge, bears E. and W. Descend 430 ft. over N.sl

Chains	
37.40	Bottom of draw, course SW. Ascend 60 ft. over SE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼

S 14 | S 13

1931

from which

A juniper, 6 ins. diam., bears N.78°00'E., 197 lks. dist., mkd. ¼ S 13 B T.

No other suitable accessories available.

	Continue ascent of 20 ft. over SE. slope.
55.80	Top of spur, projects SW. Descend 40 ft. over NW. slope.
62.20	Bottom of draw, course SW. Ascend 40 ft. over SE. slope.
65.70	Top of spur, projects SW. Descend 180 ft. over NW. slope.
68.50	Bottom of draw, course SW. Ascend 120 ft. over SE. slope.
74.90	Top of rocky spur, projects W. Descend 130 ft. over ledges on NW. slope.
76.00	Bottom of draw, course SW. Ascend 130 ft.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to solid rock and deposit a sandstone 8 x 6 x 6 ins. mkd. X/ at base of post, and surrounded by mound of stone to the top, for the cor. of secs. 11, 12, 13 and 14, with brass cap mkd.

T21 | R18

S11 | S12

S14 | S13

1931

No other suitable accessories available.

Land, broken bench; general drainage and exposure W.

Soil, sandy and clay loam, with exposed surface sandstone; 3rd rate.

Timber, very scattering scrub juniper.

Undergrowth, black brush.

Poor grazing.

Chains	
	N.89°58'E., on random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.14	Intersect the E. bdy., 12 lks. N. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, 2 ins. diam., firmly set, properly mkd. and witnessed as described in the official record.
	Thence
	N.89°57'W., on true line bet. secs. 12 and 13.
	Over broken bench land, through scattering undergrowth and very scattering scrub timber.
	Ascend 260 ft. over SE. slope to top of ridge.
3.70	Top of sandstone rim, 75 ft. high, bears NW. and SE.
15.00	Top of ridge, bears NE. and SW. Descend 60 ft. over W. slope.
40.07	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, with sandstone 9x 8x 6 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 12 / S 13 1931
	No other suitable accessories available.
	Continue descent of 410 ft. over W. slope.
77.10	Bottom of draw, course S. Ascend 140 ft. over E.slope.
80.14	Intersect the cor. of secs. 11, 12, 13 and 14.
	Land, broken bench; general drainage and exposure SW.
	Soil, sandy loam with exposed surface sandstone; 3rd rate.
	Timber, scrub juniper.
	Undergrowth, black brush.
	Poor grazing.
	N.0°01'W., bet. secs. 11 and 12.
	Over broken bench land, through scattering timber and undergrowth. Ascend 100 ft. over SE. slope.

SUBDIVISION OF T.21 S.,R. 18 E.

Chains	
38.00	Top of spur, projects SW. Descend 60 ft. over N. slope to bottom of draw.
40.00	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼
S 11 | S 12
1931

from which

A pinon, 18 ins. diam., bears S.71°00'E., 90 lks. dist., mkd. ¼ S 12 B T.

A pinon, 3 ins. diam., bears N.20°00'W., 57 lks. dist., mkd. B T.

67.20	Bottom of draw, course SW. Ascend 180 ft. over gradual S. slope.
80.00	At base of ledge, 75 ft. high, bearing E. and W. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground to solid rock, with sandstone 6 x 4 x 4 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the cor. of secs. 1, 2, 11 and 12, with brass cap mkd.

T21S R18E
S 2 | S 1
S11 | S12
1931

No other suitable accessories available.

Land, broken bench; general drainage and exposure SW.

Soil, loose sandy loam with exposed surface sandstone; 3rd rate.

Timber, scrub juniper and pinon.

Undergrowth, black brush.

Poor grazing.

S. 89°57'E., on random line bet. secs. 1 and 12.

40.00	Set temp. ¼ sec. cor.,
80.00	Intersect the E. bdy., 7 lks. S. of the cor. of secs. 1, 6, 7 and 12, which is an iron post, 2 ins. diam.,

Chains	
	firmly set, properly mkd. and witnessed as described in the official record.
	Thence
	West, on true line bet. secs. 1 and 12.
	Over broken bench land, through very scattering timber and undergrowth.
	Descend 410 ft. over SW. slope.
21.10	Bottom of draw, course SE., Ascend 350 ft. over E.slope
29.00	Top of spur, projects S. Descend 25 ft. over W.slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground, to solid rock, with sandstone 8 x 6 x 4 ins mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	½ S 1 / S12 1931
	No other suitable accessories available.
	Continue descent of 170 ft. over W. slope.
57.10	Bottom of draw, course S. Ascend 160 ft. over NE.slope.
72.00	Top of ridge, bears NW. and SE. Descend 50 ft. over W. slope.
80.00	Intersect the cor. of secs. 1, 2, 11 and 12.
	Land, broken bench; general drainage and exposure SW.
	Soil, loose sandy loam with exposed surface sandstone; 3rd rate.
	Timber, scrub juniper.
	Undergrowth, black brush.
	Poor grazing.
	N.0°01'W., on true line bet. secs. 1 and 2.
	Over broken bench land, through scattering timber and undergrowth. Ascend 150 ft. over SE. slope.
1.80	Top of ledges and ridge, bears NW. and SE. Descend 250 ft. over NE. slope.
14.80	Bottom of draw, course SE. Ascend 60 ft. over SE. slope

Chains	
23.20	Top of spur, projects SE. Descend 40 ft. over NE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 2 | S 1

1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

42.93	Intersect the N. bdy., West, 9.66 chs. from the cor. of secs. 35 and 36, T.20½ S., R. 18 E., heretofore described.

At point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to solid rock, with sandstone 6 x 6 x 4 ins. mkd. X, deposited at the base, and surrounded by mound of stone, to the top, for the closing cor. of secs. 1 and 2, with brass cap mkd.

T20½S R18E
S 35

S 2 | S 1
T21S | R18E
C C
1931

No other suitable accessories available.

Land, broken bench; general drainage and exposure SW.

Soil, loose sandy loam with exposed surface sandstone; 3rd rate.

Timber, scattering juniper and pinon.

Undergrowth, black brush.

Poor grazing.

From the cor. of secs. 2, 3, 34 and 35, on the S. bdy., heretofore described.

N.0°01'W., bet. secs. 34 and 35.

Over rolling desert land, through scattering undergrowth.

Along gradual NW. slope.

40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

Chains	
	$\frac{1}{4}$ S34 | S35 1931
	and raise mound
	of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Descend 10 ft. over NW. slope.
49.00	Bottom of draw, course SW. Ascend 70 ft. over S. slope
	to top of spur.
56.10	Trail, bears NW. and SE.
61.20	Top of spur, projects SW. Descend 50 ft. over NW. slope
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins.
	in the ground, for the cor. of secs. 26, 27, 34 and 35,
	with brass cap mkd.
	T21S R18E S27 | S26 S34 | S35 1931
	and raise mound
	of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Land, rolling desert; general drainage and exposure SW.
	Soil, sandy and clay loam; 2nd rate.
	Timber, none.
	Undergrowth, shadscale.
	Poor grazing.
	S.89°59'E., on random line bet. secs. 26 and 35.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect N. and S. line, 5 lks. N. of the cor. of
	secs. 25, 26, 35 and 36.
	Thence
	N.89°57'W., on true line bet. secs. 26 and 35.
	Over rolling desert land, through scattering undergrowth
4.00	Top of ridge, bears N. and S.
	Continue over rolling desert land.
40.06	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in
	the ground, with sandstone 6 x 4 x 4 ins. mkd. X,
	deposited at the base, for the $\frac{1}{4}$ sec. cor., with brass
	cap mkd.

Chains	
	$\frac{1}{4}$ S 26 / S 35 1931
	No other suitable accessories available.
	Continue over rolling desert land.
72.00	Low spur, projects SW. Descend 90 ft. over NW. slope.
80.12	Intersect the cor. of secs. 26, 27, 34 and 35.
	Land, rolling desert; general drainage and exposure SW.
	Soil, sandy and clay loam; 2nd rate.
	Timber, none.
	Undergrowth, shadscale.
	Poor grazing.
	N.0°01'W., bet. secs. 26 and 27.
	Over rolling desert land, through scattering undergrowth.
	Descend 20 ft. over SE. slope.
3.00	Bottom of draw, course SW.
10.70	Top of low spur, projects SW.
27.90	Headgate, of Lorenzo Hatch's irrigation ditch bears West, 60 lks. dist.
31.00	Saleratus Wash, stream of salty water, 5 lks. wide, course SW.
	Ascend 50 ft. over SE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 27 | S 26 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Continue ascent of 5 ft. over SE. slope.
43.20	Top of spur, projects SW. Descend 5 ft. over NW. slope.
45.10	Bottom of draw, course SW. Continue descent of 25 ft.
49.10	Road. bears NE. and SW.
49.90	Road, bears NE. and SW.
51.80	Bottom of same draw as at 45.10 chs., course SE. Road in bottom of draw, bears NW. and SE. Ascend 50 ft. over

Chains	
	SW. slope.
63.20	Top of spur, projects SW. Descend 30 ft. over NW. slope.
71.50	Bottom of same draw, as before mentioned, course SW.
	Road in bottom of draw, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 22, 23, 26 and 27, with brass cap mkd.
	T21S R18E S22 | S23 S27 | S26 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Land, rolling desert; general drainage and exposure SW.
	Soil, loose sandy and clay loam; 2nd rate.
	Timber, none.
	Undergrowth, shadscale.
	Poor grazing.
	S.89°57'E., on random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
80.14	Intersect the cor. of secs. 23, 24, 25 and 26.
	Thence
	N.89°57'W., on true line bet. secs. 23 and 26.
	Over rolling desert land, through scattering undergrowth
	Ascend 15 ft. over SE. slope.
3.80	Top of ridge, bears NE. and SW. Descend 30 ft. over NW. slope.
10.70	Bottom of draw, course SW. Ascend 20 ft. over SE. slope.
24.10	Top of spur, projects SW. Descend 80 ft. over W. slope to bottom of Saleratus Wash.
34.60	Road, bears NE. and SW.
40.07	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 23 S 26 1931
	and raise mound

Chains	
	of stone, 3 ft. base, 2 ft. high, N. of the cor.
45.10	Bottom of Saleratus Wash, 2 chs. wide and 15 ft. deep, stream of salty water, 1 lk. wide in bottom, course S. Ascend 70 ft. over E. slope.
57.50	Top of ridge, bears N. and S. Descend 30 ft. over SW. slope to bottom of draw.
78.00	Bottom of draw, course SE. Road, in bottom bears NW. and SE.
80.14	The cor. of secs. 22, 23, 26 and 27.
	Land, broken desert; general drainage and exposure SW.
	Soil, loose sandy and clay loam; 2nd rate.
	Timber, none.
	Undergrowth, shadscale and grease wood along Saleratus Wash.
	Poor grazing.

	N.0°01'W., bet. secs. 22 and 23.
	Over broken bench land, through scattering undergrowth. Descend 5 ft. over NE. slope.
1.50	Bottom of draw, course SE. Road in bottom bears NW. and SE. Ascend 50 ft. over SW. slope.
5.90	Top of spur, projects W. Descend 30 ft. over NW. slope.
13.30	Bottom of draw, course SW. Ascend 50 ft. over SE. slope.
22.60	Top of spur, projects E. Descend 20 ft. over N. slope.
30.60	Bottom of draw, course E. Ascend gradual SE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S22 | S23

1931

and raise mound

	of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Continue ascent of 510 ft. over SE. slope.
79.60	Top of sandstone rim, 75 ft. high, bears NE. and SW. Thence over mesa top.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over X cut

Chains	
	in solid surface rock, and surrounded to the top with a mound of stone, for the cor. of secs. 14, 15, 22 and 23, with brass cap mkd.
	T21S R18E S15 | S14 S22 | S23 1931
	No other suitable accessories available.
	Land, broken bench; general drainage and exposure SE.
	Soil, loose sandy loam and exposed surface sandstone; 3rd rate.
	Timber, none.
	Undergrowth, shadscale and black brush.
	Poor grazing.
	S.89°57'E., on random line bet. secs. 14 and 23.
40.00	Set temp. sec. cor.
80.16	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 13, 14, 23 and 24.
	Thence
	N.89°56'W., on true line bet. secs. 14 and 23.
	Over broken bench land, through scattering undergrowth and timber.
3.80	Top of ridge, bears N. and S. Descend 610 ft. over W. slope to ¼ sec. cor.
18.00	Leave timber, bears NW. and SE. Also top of sandstone ledge, bears NW. and SE., 50 ft. high.
40.08	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 14 S 23 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
47.50	Bottom of draw, course SW. Road, in bottom of draw, bears NE. and SW. Ascend 490 ft. over E. slope.
79.80	Top of sandstone ledge, 75 ft. high, bears N. and S. Thence over top of mesa land.

Chains	
80.16	Intersect the cor. of secs. 14, 15, 22 and 23.
	Land, broken bench; general drainage and exposure S.
	Soil, loose sandy and clay loam, with exposed sandstone surface rock; 3rd rate.
	Timber, scrub juniper.
	Undergrowth, shadscale and black brush.
	Poor grazing.
	N.0°01'W., bet. secs.14 and 15.
	Over mesa land, through scattering timber and undergrowth.
	Ascend 100 ft. over SE. slope.
4.20	Top of rim, 10 ft. high, bears NE. and SW. Thence over rolling top of mesa land.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 15 | S 14

1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

41.00	Edge of mesa, bears E. and W. Commence abrupt descent of 430 ft. over NW. slope.
59.70	Bottom of draw, course E. Ascend 70 ft. over broken E. slope to sec. cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 10, 11, 14 and 15, with brass cap mkd.

T21S R18E.

S10 | S11

S15 | S14

1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

From this cor. a small spring bears S.47°21'E.

Land, broken bench; general drainage and exposure SE.

Soil, loose sandy loam, with exposed surface sandstone; 2nd rate.

Chains	
	Timber, very scattering scrub juniper.
	Undergrowth, black brush and shadscale.
	Poor grazing.
	S.89°56'E., on random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.22	Intersect N. and S. line, 3 lks. S. of the cor. of secs 11, 12, 13 and 14.
	Thence
	N.89°57'W., on true line bet. secs. 11 and 14.
	Over broken bench land, through scattering timber and undergrowth.
	Descend 170 ft. over SW. slope.
16.90	Bottom of draw, course SE. Ascend 100 ft. over NE. slope
20.40	Top of spur, projects SE. Descend 100 ft. over W.slope.
40.11	Set an iron post, 3 ft. long, 1 in. diam., over X.cut in solid rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 11 / S 14 1931
	from which
	A juniper, 3 ins. diam., bears S.51°30'E., 16 lks. dist., mkd. B T.
	A juniper, 4 ins. diam., bears N.36°00'W., 33 lks. dist., mkd. ¼ S 11 B T.
	Descend 80 ft. over W. slope to bottom of draw.
56.90	Leave scattering timber, bears N. and S.
66.10	Bottom of draw, course S. Ascend 70 ft. over E. slope.
80.22	Intersect the cor. of secs. 10, 11, 14 and 15.
	Land, broken bench; general drainage and exposure S.
	Soil, sandy loam, with exposed surface sandstone; 3rd rate.
	Timber, scrub juniper.
	Undergrowth, black brush and shadscale.
	Poor grazing.

SUBDIVISION OF T. 21 S., R. 18 E.

Chains	
	N.0°01'W., bet. secs. 10 and 11.
	Over broken bench land, through scattering undergrowth.
	Gradual descent of 5 ft. over NE. slope.
25.30	Bottom of draw, course E. Ascend 240 ft. over SE. slope.
33.60	Top of spur, projects SE. Descend 30 ft. over NE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼

S 10 | S 11

1931

No other suitable accessories available.

This corner stands in small depression sloping S.

Ascend 430 ft. over SE. slope.

60.60	Top of ridge, bears E. and W. This is the divide bet. Horse Canyon and Saleratus Wash. The spring mentioned at the cor. of secs. 10, 11, 14 and 15, bears S.26°E., from this point.
	Descend 240 ft. over N. slope.
79.90	Bottom of draw, course N.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock, and surrounded by mound of stone to the top, with sandstone 8 x 6 x 4 ins. mkd. X. deposited at base, for the cor. of secs. 2, 3, 10 and 11, with brass cap mkd.

T21S R18E

S 3 | S 2

S10 | S11

1931

No other suitable accessories available.

Land, broken bench; general drainage and exposure S.

Soil, loose sandy loam with exposed surface sandstone; 3rd rate.

Timber, none.

Undergrowth, black brush and shadscale.

Poor grazing.

Chains	
	S.89°57'E., on random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
80.20	Intersect the cor. of secs. 1, 2, 11 and 12.
	Thence
	N.89°57'W., on true line bet. secs. 2 and 11.
	Over broken bench land, through scattering undergrowth.
	Ascend 160 ft. over SE. slope.
13.70	Top of ridge, bears NE. and SW. Descend 165 ft. over W. slope.
24.20	Bottom of draw, course S. Ascend 115 ft. over E.slope.
[illegible]	Top of rocky spur, projects S. Descend 100 ft. over W. slope.
[illegible]	Bottom of draw, course S. Ascend 40 ft. over E. slope.
40.10	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, with sandstone 8 x 4 x 4 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

$$\frac{S\ 2}{S\ 11}$$
1931

	No other suitable accessories available.
	Ascend 90 ft. over E. slope.
[illegible]	Top of ridge, divide bet. Horse Canyon and Saleratus Wash, bears N. and S.
	Descend 140 ft. over W. slope.
60.90	Bottom of draw, course N. Ascend 40 ft. over NE. slope.
[illegible]	Top of spur, projects NW. Descend 45 ft. over SW.slope.
80.00	The cor. of secs. 2, 3, 10 and 11,
	Land, broken bench; general drainage and exposure S.
	Soil, loose sandy loam with exposed surface sandstone; 3rd rate.
	Timber, none.
	Undergrowth, black brush.
	Poor grazing.

Chains	
	N.0°01'W., on true line bet. secs. 2 and 3.
	Over broken bench land, through scattering undergrowth.
	Ascend 20 ft. over SW. slope.
6.70	Top of spur, projects NW. Descend 180 ft. over NE.slope.
14.20	Bottom of draw, course NW. Ascend 170 ft. over SW.slope.
18.90	Top of spur, projects W. Descend 150 ft. over N.slope.
23.00	Bottom of draw, course W.;ascend 130 ft. over S.slope.
32.90	Top of spur, projects W. Descend 90 ft. over N. slope to the closing cor.
40.00	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼
S 3 | S 2
1931

No other suitable accessories available.

42.80	Intersect the N. bdy., West, 9,86 chs. dist., from the cor. of secs. 34 and 35, T. 20½ S.,R. 18 E., heretofore described.

At point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the closing cor. of secs. 2 and 3, with brass cap mkd.

T20½S R18E
S34
S 3 | S 2
T21S | R18E
C C
1931

and raise mound of stone, 3 ft. base, 2 ft. high, S. of the cor.

Land, broken bench; general drainage and exposure N.

Soil, loose sandy loam, with exposed surface sandstone; 3rd rate.

Timber, none.

Undergrowth, black brush.

Poor grazing.

Chains	
	From the cor. of secs. 3, 4, 33 and 34, on the S. bdy., heretofore described.
	N.0°02'W., on true line bet. secs. 33 and 34.
	Over rolling desert land, through scattering undergrowth.
	Ascend 80 ft. over SE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼
S33 | S34
1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

	Continue ascent of 10 ft. over SE. slope.
44.80	Top of spur, projects SE. Descend 15 ft. over NE. slope
61.90	Bottom of draw, course SE. Ascend 55 ft. over SW. slope.
75.50	Top of spur, projects SE. Descend 20 ft. over NE. slope.
79.00	Bottom of draw, course SE.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 27, 28, 33 and 34, with brass cap mkd.

T21S R18E
S28 | S27
S33 | S34
1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

	Land, rolling desert; general drainage and exposure SE.
	Soil, loose sandy and clay loam; 3rd rate.
	Timber, none.
	Undergrowth, shadscale.
	Poor grazing.

	S.89°59'E., on random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.,
80.14	Intersect N. and S. line, 18 lks. N. of the cor. of secs. 26, 27, 34 and 35.
	Thence

SUBDIVISION OF T. 21 S., R. 18 E.

Chains	
	N.89°51'W., on true line bet. secs. 27 and 34.
	Over rolling desert land, through scattering undergrowth.
2.10	Bottom of draw, course SW. Ascend 20 ft. over NE. slope.
4.50	Top of spur, projects SW. Descend 70 ft. over SW. slope.
7.00	Bottom of Saleratus Wash, course SW.
8.00	Wire fence, 4 barbed wires, bears NW. and SE.
12.40	Enter cultivated land, bears NE. and SW.
20.00	The NW. corner of Lorenzo Hatch's house, 34 ft by 12 ft. 2 rooms, bears S.36°24'W., 10.94 chs. dist.
20.10	Irrigating ditch, 2 ft. wide, course SW. Leave cultivated field, bears NE. and SW.
20.20	Wire fence, 4 barbed wires, bears NE. and SW.
20.60	Road, bears NE. and SW. Thence over desert land, ascend 90 ft. over E. slope.
35.70	Top of spur, projects SW. Descend 40 ft. over SW. slope to bottom of draw.
40.07	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock, with sandstone 10 x 6 x 4 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 27 / S 34 1931
	No other suitable accessories available.
44.00	Bottom of draw, course SW. Ascend 70 ft. over NE. slope.
72.50	Top of spur, projects SE. Descend 20 ft. over W. slope.
80.14	The cor. of secs. 27, 28, 33 and 34.
	Land, desert; general drainage and exposure S.
	Soil, loose sandy and clay loam; 2nd rate.
	Timber, none.
	Undergrowth, shadscale.
	Poor grazing.
	N.0°02'W., bet. secs. 27 and 28.
	Over broken bench land, through scattering undergrowth.

Chains
43.31 Top of sandstone rim, 200 ft. high, bears NW. and SE.,

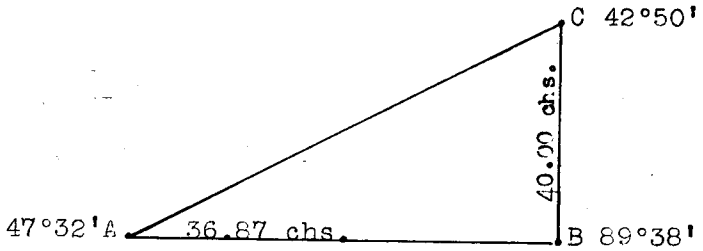
The line to the east, descends over vertical sandstone rim and precipitous slope over which chaining is impracticable. Therefore to determine the distance I triangulate as follows:

Erect flag A at this point and set flag B on line 5 lks N. of the cor. of secs. 22, 23, 26 and 27. Erect flag C northerly from B the mean distance of 40.00 chs.

by 1st set of chainmen 39.99 chs.

by 2nd set of chainmen 40.01 chs.

The angles were determined by three repetitions with the error balanced to 180°. The vertical angle from A to B is -13°30'.



Angle at point A is 47°32'
Angle at point B is 89°38'
Angle at point C is 42°50'

Distance on line to point A is ----------43.31 chs.
Distance by triangulation A to B----------36.87 chs.
Total distance on line to B----------80.18 chs.

80.18 Point B of triangulation; intersect N. and S. line 5 lks. N. of the cor. of secs. 22, 23, 26 and 27.

Thence

N.89°49'W., on true line bet. secs. 22 and 27.

Over broken bench land, through scattering undergrowth.

Ascend 585 ft. over E. slope.

36.87 Top of vertical sandstone rim, 200 ft. high, bears NW. and SE. Thence over top of mesa.

40.09 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, with sandstone 8 x 6 x 4 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{S\ 22}{S\ 27}$$
1931

Chains	
	No other suitable accessories available.
	Descend 50 ft. over broken top of mesa.
80.18	The cor. of secs. 21, 22, 27 and 28.
	Land, broken bench; general drainage and exposure S.
	Soil, loose sandy loam with exposed surface sandstone; 3rd rate.
	Timber, none.
	Undergrowth, black brush and shadscale.
	Poor grazing.

N.0°02'W., bet. secs. 21 and 22.

Over rolling mesa top, through scattering undergrowth.

8.00 Top of ridge, bears NE. and SW. Gradual descent.

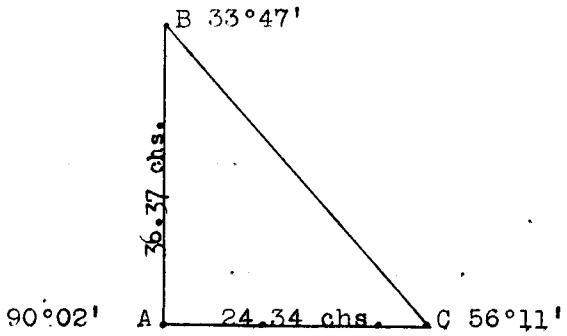
8.90 Rim of mesa, also top of sandstone rim, 150 ft. high, bears E. and W.

The line to the north descends over vertical sandstone rim, and crosses canyon with precipitous slopes over which chaining is impracticable. Therefore to determine the distance I triangulate as follows:

I return to the cor. of secs. 21, 22, 27 and 28, and erect flag A, and set flag B on line on N. side of canyon, and erect flag C easterly from A the mean distance of 24.34 chs.

by 1st set of chainmen 24.33 chs.
by 2nd set of chainmen 24.35 chs.

All angles were determined by three repetitions with the error balanced to 180°. The vertical angle from A to B is plus 3°.



Angle at point A is 90°02'
Angle at point B is 33°47'
Angle at point C is 56°11'

Chains	
	Distance by triangulation A to B is---------36.37 chs.
16.00	Approx. dist. to bottom of draw, course W.
18.00	Approx. dist. to trail, bears E. and W.
[illegible]	Top of sandstone rim, 200 ft. high, bears E. and W.
36.37	Point B of triangulation. Thence over mesa top. Ascend 5 ft. over S. slope.
37.00	Top of ridge, bears E. and W. Enter scattering timber bears E. and W. Descend 75 ft. over N. slope, to bottom of draw.
40.00	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼

S 21 | S 22

1931

from which

A juniper, 8 ins. diam., bears S.18°00'E., 64 lks. dist., mkd. ¼ S 22 B T.

A juniper, 2 ins. diam., bears N.13°00'W., 34 lks. dist., mkd. B T.

Continue descent.

60.70	Bottom of draw, course E. Ascend 30 ft. over S. slope.
[illegible].00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 15, 16, 21 and 22, with brass cap mkd.

T21S R18E

S16	S15
S21	S22

1931

from which

A juniper, 18 ins. diam., bears N.75°00'E., 413 lks. dist., mkd. T 21 S R 18 E S 15 B T.

A juniper, 8 ins. diam., bears S.55°30'E., 5.41 chs. dist., mkd. T 21 S R 18 E S 22 B T.

A juniper, 6 ins. diam., bears S.61°30'W., 345 lks. dist., mkd. T 21 S R 18 E S 21 B T.

No other suitable accessories available.

SUBDIVISION OF T.21 S., R. 18 E.

Chains	
	Land, broken bench; general drainage and exposure W.
	Soil, loose sandy loam with exposed sandstone; 3rd rate.
	Timber, scrub juniper.
	Undergrowth, black brush.
	Poor grazing.
	S.89°49'E., on random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 14, 15, 22 and 23.
	Thence
	N.89°50'W., on true line bet. secs. 15 and 22.
	Over broken mesa top, through scattering timber and undergrowth.
	Ascend 80 ft. over W. slope.
1.50	Top of spur, projects SW. Thence over mesa top.
15.10	Rim of mesa, bears NW. and SE. Commence abrupt descent of 240 ft. over W. slope.
27.30	Bottom of draw, course SE. Ascend 250 ft. over E. slope to top of spur.
36.50	Rim of mesa, bears NE. and SW. Continue gradual ascent.
38.70	Top of spur, projects SE.
40.03	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 15 / S 22 1931
	No other suitable accessories available.
	Descend 90 ft. over SW. slope to bottom of draw.
54.60	Small seep in bottom of draw, bears S. 2.00 chs. dist.
55.70	Bottom of draw, course SE. Ascend 70 ft. over E. slope.
65.60	Top of spur, projects S. Descend 10 ft. over W. slope.
73.60	Bottom of draw, course S. Ascend 20 ft. over E. slope.
80.06	Intersect the cor. of secs. 15, 16, 21 and 22.
	Land, broken bench; general drainage and exposure SE.
	Soil, loose sandy loam, with surface rock; 3rd rate.

Chains	
	Distance by triangulation A to B is----------36.37 chs.
18.00	Approx. dist. to bottom of draw, course W.
19.00	Approx. dist. to trail, bears E. and W.
36.00	Top of sandstone rim, 200 ft. high, bears E. and W.
36.37	Point B of triangulation. Thence over mesa top. Ascend 5 ft. over S. slope.
37.00	Top of ridge, bears E. and W. Enter scattering timber bears E. and W. Descend 75 ft. over N. slope, to bottom of draw.
40.00	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼

S 21 | S 22

1931

from which

A juniper, 8 ins. diam., bears S.18°00'E., 64 lks. dist., mkd. ¼ S 22 B T.

A juniper, 2 ins. diam., bears N.13°00'W., 34 lks. dist., mkd. B T.

Continue descent.

68.70	Bottom of draw, course E. Ascend 30 ft. over S. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 15, 16, 21 and 22, with brass cap mkd.

T21S R18E

S16 | S15

S21 | S22

1931

from which

A juniper, 18 ins. diam., bears N.75°00'E., 413 lks. dist., mkd. T 21 S R 18 E S 15 B T.

A juniper, 8 ins. diam., bears S.55°30'E., 5.41 chs. dist., mkd. T 21 S R 18 E S 22 B T.

A juniper, 8 ins. diam., bears S.61°30'W., 345 lks. dist., mkd. T 21 S R 18 E S 21 B T.

No other suitable accessories available.

SUBDIVISION OF T.21 S.,R. 18 E.

Chains	
	T21S R18E S 9 | S10 S16 | S15 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor. Land, broken bench; general drainage and exposure W. Soil, loose sandy loam with exposed surface sandstone; 3rd. rate. Timber, scrub juniper and pinon. Undergrowth, black brush. Poor grazing.
	S.89°50'E., on random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 10, 11, 14 and 15.
	Thence
	N.89°46'W., on true line bet. secs. 10 and 15.
	Over broken bench land, through scattering undergrowth.
	Ascend 210 ft. over gr. slope.
12.10	Top of spur, projects SE. Descend 190 ft. over gr. slope.
31.80	Bottom of draw, course SE. Ascend 260 ft. over gr. slope to top of divide.
40.01	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, with sandstone 6 x 4 x 4 ins. mkd. ¼ deposited at the base and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 10 S 15 1931
	No other suitable accessories available.
	Continue ascent.
42.40	Top of sandstone rim, 75 ft. high, bears N. and S.
46.80	Top of divide, bet. Horse Canyon and Saleratus Wash, bears N. and S. Descend 370 ft. over W. slope to sec. cor.

Chains	
47.62	Top of sandstone rim, 75 ft. high, bears N. and S.
	Continue descent over W. slope.
80.02	Intersect the cor. of secs. 9, 10, 15 and 16.
	Land, broken bench; general drainage and exposure S.
	Soil, loose sandy loam, with exposed surface sandstone; 3rd rate.
	Timber, none.
	Undergrowth, black brush.
	Poor grazing.
	N.0°02'W., bet. secs. 9 and 10.
	Over broken bench land through scattering undergrowth.
	Ascend 220 ft. over S. slope to top of spur.
2.40	Top of sandstone rim, 75 ft. high, bears E. and W.
9.60	Top of spur, projects SW. Descend 60 ft. over NW. slope.
14.40	Bottom of draw, course SW. Ascend 150 ft. over SE. slop
18.20	Top of spur, projects SW. Descend 100 ft. over NW. slope
28.40	Bottom of draw, course SW. Ascend 280 ft. over SE. slope to top of spur.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock, with sandstone 8 x 6 x 4 ins. mkd. with X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 9 | S 10

1931

No other suitable accessories available.

42.30	Top of spur, projects SW. Descend 400 ft. over NW. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of secs. 3, 4, 9 and 10, with brass cap mkd.

SUBDIVISION OF T.21 S.,R. 18 E.

Chains	
	T21S R18E S 4 | S 3 S 9 | S10 1931
	No other suitable accessories available.
	Land, broken bench; general drainage and exposure SW.
	Soil loose sandy loam with exposed surface sandstone; 3rd rate.
	Timber, none.
	Undergrowth, black brush.
	Poor grazing.
	S.89°46'E., on random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 2, 3, 10 and 11.
	Thence
	N.89°42'W., on true line, bet. secs. 3 and 10.
	Over broken bench land, through scattering undergrowth.
0.20	Bottom of draw, course NW. Ascend W. slope 10 ft.
8.40	Top of spur, projects N. Descend 30 ft. over W. slope.
11.00	Bottom of draw, course N. Ascend E. slope 90 ft.
16.30	Top of spur, projects N. Descend 110 ft. over W. slope.
30.40	Bottom of draw, course N. Ascend 120 ft. over E. slope
35.20	Top of spur, projects N. Descend 120 ft. over W. slope.
40.04	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 3 / S10 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
43.40	Bottom of draw, course N. Ascend 150 ft. over E. slope.
47.80	Top of spur, projects N. Descend 220 ft. over W. slope.
63.90	Bottom of draw, course N. Ascend 50 ft over NE. slope.
70.30	Top of spur, projects NW. Descend 280 ft. over NW. slope.
76.50	Bottom of draw, course NW. Ascend 130 ft. over NE. slope.

Chains	
47.62	Top of sandstone rim, 75 ft. high, bears N. and S.
	Continue descent over W. slope.
80.02	Intersect the cor. of secs. 9, 10, 15 and 16.
	Land, broken bench; general drainage and exposure S.
	Soil, loose sandy loam, with exposed surface sandstone;
	3rd rate.
	Timber, none.
	Undergrowth, black brush.
	Poor grazing.
	N.0°02'W., bet. secs. 9 and 10.
	Over broken bench land through scattering undergrowth.
	Ascend 220 ft. over S. slope to top of spur.
2.40	Top of sandstone rim, 75 ft. high, bears E. and W.
9.60	Top of spur, projects SW. Descend 60 ft. over NW. slope.
14.40	Bottom of draw, course SW. Ascend 150 ft. over SE. slop
18.20	Top of spur, projects SW. Descend 100 ft. over NW. slope
25.40	Bottom of draw, course SW. Ascend 280 ft. over SE. slope to top of spur.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock, with sandstone 8 x 6 x 4 ins. mkd. with X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

$$\begin{array}{ccc} & \frac{1}{4} & \\ S\ 9 & | & S\ 10 \\ & 1931 & \end{array}$$

	No other suitable accessories available.
42.30	Top of spur, projects SW. Descend 400 ft. over NW. slope.
80.[illegible]	Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of secs. 3, 4, 9 and 10, with brass cap mkd.

SUBDIVISION OF T.21 S.,R. 18 E.

Chains	
	T21S R18E S 4 | S 3 S 9 | S10 1931
	No other suitable accessories available.
	Land, broken bench; general drainage and exposure SW.
	Soil loose sandy loam with exposed surface sandstone; 3rd rate.
	Timber, none.
	Undergrowth, black brush.
	Poor grazing.
	S.89°46'E., on random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 2, 3, 10 and 11.
	Thence
	N.89°42'W., on true line, bet. secs. 3 and 10.
	Over broken bench land, through scattering undergrowth.
0.20	Bottom of draw, course NW. Ascend W. slope 10 ft.
8.40	Top of spur, projects N. Descend 30 ft. over W. slope.
11.00	Bottom of draw, course N. Ascend W. slope 90 ft.
16.30	Top of spur, projects N. Descend 110 ft. over W. slope.
30.40	Bottom of draw, course N. Ascend 120 ft. over E. slope
35.20	Top of spur, projects N. Descend 120 ft. over W. slope.
40.04	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 3 / S10 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
43.40	Bottom of draw, course N. Ascend 150 ft. over E. slope.
47.80	Top of spur, projects N. Descend 220 ft. over W. slope.
63.90	Bottom of draw, course N. Ascend 50 ft over NE. slope.
70.30	Top of spur, projects NW. Descend 280 ft. over NW. slope.
76.50	Bottom of draw, course NW. Ascend 130 ft. over NE. slope.

Chains	
80.00	The cor. of secs. 3, 4, 9 and 10.
	Land, broken bench; general drainage and exposure N.
	Soil, loose sandy loam with exposed surface sandstone; 3rd rate.
	Timber, none.
	Undergrowth, black brush.
	Poor grazing.
	N.0°02'W., on true line bet. secs. 3 and 4.
	Over broken bench land, through scattering undergrowth.
	Descend 110 ft. over N. slope.
2.70	Bottom of draw, course W. Ascend 110 ft. over S.slope.
6.30	Top of spur, projects W. Descend 200 ft. over N. slope.
21.30	Bottom of draw, course W. Ascend 130 ft.over S. slope.
25.40	Top of spur, projects SW. Descend 180 ft.over NW.slope.
29.60	Bottom of draw, course SW.
33.00	Bottom of same draw, course SE. Ascend 60 ft.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

$\frac{1}{4}$
S 4 | S 3
1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

41.16	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the witness closing cor. for secs. 3 and 4, with brass cap mkd.

T20½S R18E
S33
WC

S 4 | S 3
T21S | R18E
C | C
1931

and raise mound of stone, 3 ft. base, 2 ft. high, S. of the cor.

42.44	Intersect the N. bdy of the township, West, 9.86 chs. dist., from the cor. of secs. 33 and 34, T.20½S.,R.18 E. heretofore described.

Chains

The point of intersection, falls in bottom of draw, course SW. Impracticable to set cor. at this point.

Land, broken bench land; general drainage and exposure; W.

Soil, loose sandy loam with exposed surface sandstone; 3rd rate.

Timber, none.

Undergrowth, black brush and shadscale.

Poor grazing.

From the cor. of secs. 4, 5, 32 and 33, on the S. bdy., heretofore described.

N.0°03'W., on true line bet. secs.32 and 33.

Over rolling desert land, through scattering undergrowth.

Gradual ascent of 50 ft.over general S. slope.

24.20 Bottom of draw, course SW. Continue ascent.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, with sandstone 9 x 8 x 6 ins. mkd. X deposited at the base, and surrounded to the top by a large mound of stone, for the ¼ sec. cor., with brass cap mkd.

¼

S 32 | S 33

1931

No other suitable accessories available.

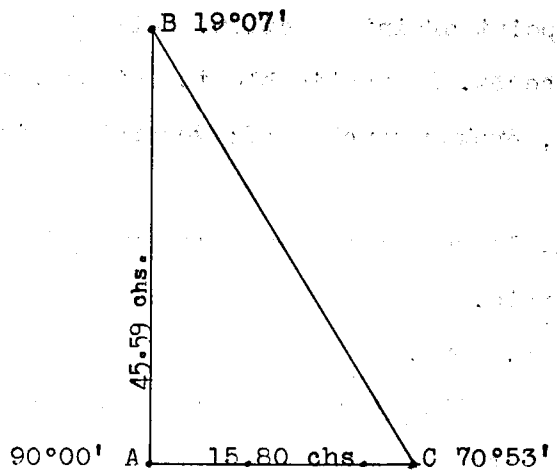
The line to the north ascends over precipitous slope and vertical ledges over which chaining is impracticable. Therefore to determine the distance I triangulate as follows:

Erect flag A at the ¼ sec. cor., and set flag B on line to the north, and erect flag C easterly from A the mean distance of 15.80 chs.

by 1st set of chainmen 15.79 chs.
by 2nd set of chainmen 15.81 chs.

The angles were determined by three repetitions with the error balanced to 180°. The vertical angle from A to B is plus 15°.

Chains



Angle at point A is 90°00'
Angle at point B is 19°07'
Angle at point C is 70°53'

Distance on line to A----------40.00 chs.
Distance by triangulation A to B----------45.59 chs.
Total distance on line to point B----------85.59 chs.

80.00 True point for the cor. of secs. 28, 29, 32 and 33, falls on precipitous sloping ledge, where it is impracticable set cor.

85.59 Point B. of triangulation. Also top of sandstone rim, 200 ft. high, bears NE. and SW.

85.89 Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the witness cor. of secs. 28, 29, 32 and 33, with brass cap mkd.

T21S R18E
S29 | S28
S32 | S33
W C
1931

No other suitable accessories available.

Land, broken bench and rolling desert; general drainage and exposure S.

Soil, sandy and clay loam, with exposed surface sandstone; 3rd rate.

Timber, none.

Undergrowth, shadscale.

Poor grazing.

From the witness cor. of secs. 28, 29, 32 and 33.

SUBDIVISION OF T.21 S., R. 18 E.

Chains	
	S.89°59'E., on random off set line bet. secs. 28 and 33.
13.48	Thence S.0°03'E., 5.89 chs. to a point on true line.
	Thence S.89°59'E., on true random line bet. secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
79.78	Intersect N. and S. line; 14 lks. S. of the cor. of secs. 27, 28, 33 and 34.
	Thence
	S.89°55'W., on true line bet. secs. 28 and 33.
	Over broken bench land, through scattering undergrowth.
1.10	Bottom of draw, course SE. Ascend 140 ft. over E. slope.
39.89	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, with sandstone 8 x 6 x 4 ins. mkd. X deposited at the base and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 28 / S 33 1931
	No other suitable accessories available.
	Ascend 490 ft. over E. slope.
57.60	Top of sandstone rim, 50 ft. high, bears SE. and NW.
	Continue ascent of 80 ft. over E. slope.
62.00	Top of ridge, bears NW. and SE. Thence over top of mesa.
66.30	Top of sandstone rim, 200 ft. high, bears NW. and SE.
	The line to the west descends over vertical ledge over which chaining is impracticable, and the true point for the cor. of secs. 28, 29, 32 and 33, is inaccessible
	Therefore I run on offset as follows:
	N.0°03'W., 5.89 chs. dist.
	S.89°55'W., 13.48 chs. dist to
79.78	Intersect the witness cor. of secs. 28, 29, 32 and 33.
	Land, broken bench; general drainage and exposure E.
	Soil, loose sandy loam with exposed surface rock; 3rd rate.
	Timber, none.

Chains	
	Undergrowth, black brush and shadscale.
	Poor grazing.
	N.0°03'W., bet. secs. 28 and 29.
	Counting distance from the true corner point.
	Over broken bench land, through scattering timber and undergrowth.
5.59	Top of sandstone rim, 200 ft. high, bears NE. and SW.
5.89	The witness cor. of secs. 28, 29, 32 and 33, heretofore described.
	Descend 30 ft. over N. slope of broken mesa top.
18.61	Rim of mesa, 100 ft. high, bears NE. and SW. Continue descent of 540 ft. over NW. slope. Leave timber bears NE and SW.
32.40	Bottom of draw, course W. Ascend 450 ft. over SW. slope to top of divide.
32.91	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock, with sandstone 9 x 8 x 6 ins. mkd. X deposited at the base, and surrounded to the top, by a mound of stone, for the witness ¼ sec. cor., with brass cap mkd.

WC
¼
S 29 | S 28
1931

	No other suitable accessories available.
40.00	True point for the ¼ sec. cor., falls on sloping sandstone ledge where it is impracticable to set cor.
59.00	Top of sandstone rim, 100 ft high, bears NW. and SE. Thence continue ascent over broken mesa top.
60.00	Top of low ridge, bears E. and W. Descend 420 ft. over broken N. slope to sec. cor.
63.30	Top of sandstone rim, 100 ft. high, bears NW. and SE. Continue ascent over abrupt N. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 20, 21, 28 and 29, with brass cap mkd.

Chains	
	T21S R18E S20 | S21 S29 | S28 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Land, broken bench; general drainage and exposure W.
	Soil, loose sandy loam with exposed surface sandstone; 3rd rate.
	Timber, scrub juniper.
	Undergrowth, black brush.
	Poor grazing.
	N.89°55'E., on random line bet. secs. 21 and 28
36.08	Set temp. witness ¼ sec. cor.
40.00	True point for the temp. ¼ sec. cor., falls on sloping sandstone ledge.
79.80	Intersect the cor. of secs. 21, 20, 27 and 28.
	Thence
	S.89°55'W., on true line bet. secs. 21 and 28.
	Over broken bench land, through scattering undergrowth.
	Ascend 70 ft.over [illegible]. slope.
8.20	Top of ridge, bears N[illegible]. and [illegible].
11.10	Top of spur, projects [illegible]. Descend [illegible] ft. over [illegible] slope.
19.50	Rim of mesa, 75 ft. high, bears W. and [illegible]. Abrupt descent of 650 ft.over [illegible]. slope.
32.00	Bottom of draw, course N[illegible]. Ascend 75 ft. over [illegible] slope.
39.90	Point for the ¼ sec. cor., falls on sloping sandstone where it is impracticable to set cor.
41.00	Top of rocky spur, projects N[illegible]. Descend 25 ft. over [illegible]. slope.
43.72	Set an iron post, 3 ft. long, 1 in. diam., [illegible] ins. in the ground, for the wit. ¼ sec.cor., with brass cap mkd.

¼ S 21 / S 28 1931 WC

and raise mound of stone 3 ft. base, 2 ft.high, W. of the cor.

Chains	
	Continue descent of 40 ft.over W. slope.
56.20	Bottom of draw, course NW. Ascend 70 ft.over NE slope.
66.70	Top of spur, projects NW. Descend 20 ft.over W. slope.
72.00	Bottom of draw, course NW. Ascend 50 ft.over NE.slope.
79.80	Intersect the cor.of secs. 20, 21, 28 and 29.
	Land, broken bench; general drainage and exposure NW.
	Soil, loose sandy loam with exposed surface sandstone; 3rd rate.
	Timber, none.
	Undergrowth, black brush and shad cale.
	Poor grazing.
	N.0°03'W., bet. secs. 20 and 21.
	Over broken bench land, through scattering undergrowth.
	Descend 320 ft. over N. slope to the bottom of the draw, at 43.90 chs.
39.50	Trail, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 20 | S 21

1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

43.90	Bottom of draw, course W. Ascend 40 ft. over S.slope.
49.70	Top of spur, projects W. Descend 50 ft. over N.slope.
61.80	Bottom of draw, course W. Ascend 30 ft. over S. slope to top of spur.
64.00	Trail, bears NE. and SW.
79.30	Top of spur, projects SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 16, 17, 20 and 21, with brass cap mkd.

T21S R18E

S17 | S16

S20 | S21

1931

and raise mound

Chains

of stone 3 ft. base, 2 ft. high, W. of the cor.

Land, broken bench; general drainage and exposure W.

Soil, loose sandy loam mixed with surface sandstone; 2nd rate.

Timber, none.

Undergrowth, black brush and shadscale.

Poor grazing.

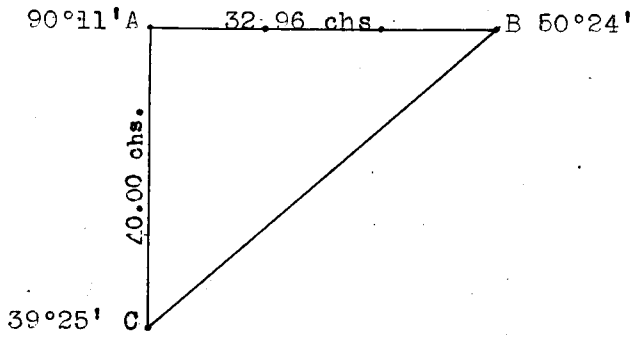
N.89°55'E., on random line bet. secs. 16 and 21.

The line to the east ascends over precipitous W. slope and vertical sandstone ledges over which chaining is impracticable. Therefore to determine the distance I triangulate as follows:

Erect flag A at the cor. of secs. 16, 17, 20 and 21, and set flag B on line to the east and set flag C southerly from A the mean distance of 40.00 chs.

by 1st set of chainmen 39.98 chs.
by 2nd set of chainmen 40.02 chs.

All angles were determined by three repetitions with the error balanced to 180°. The vertical angle from A to B is plus 18°15'.



Angle at point A is 90°11'
Angle at point B is 50°24'
Angle at point C is 39°25'

Distance by triangulation A to B is ------32.96 chs.

32.96 Point B of triangulation

40.00 Set temp. ¼ sec. cor.

79.82 Intersect N. and S. line, 3 lks. S. of the cor. of secs. 15, 16, 21 and 22.

Thence

S.89°54'W., on true line bet. secs.16 and 21.

Chains	
	Over broken top of mesa , through scattering timber and undergrowth.
	Ascend 40 ft. over general E. slope.
27.10	Top of low ridge, bears N. and S. Descend 20 ft. over W. slope.
39.91	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 16 / S 21 1931
	from which
	A juniper, 4 ins. diam., bears N. 15°00'E., 135 lks. dist., mkd. ¼ S 16 B T.
	A juniper, 4 ins. diam., bears S.55°00'W., 82 lks. dist., mkd. ¼ S 21 B T.
46.90	Top of sandstone rim, 200 ft. high, bears N. and S.
	Leave scattering timber bears N. and S.
	Commence abrupt descent of 765 ft. over W. slope, to the sec. cor.
79.00	Top of low spur, projects SW.
79.82	The cor. of secs. 16, 17, 20 and 21.
	Land, broken bench; general drainage and exposure S.
	Soil, loose sandy loam with exposed surface sandstone; 3rd rate.
	Timber, scrub juniper.
	Undergrowth, black brush and shadscale.
	Poor grazing.
	N.0°03'W., bet. secs. 16 and 17.
	Over broken bench land, through scattering undergrowth.
	Descend gradual N. slope.
1.30	Bottom of draw, course W. ascend 55 ft. over S. slope.
2.90	Top of spur, projects SW. Descend 60 ft. over NW. slope.
9.50	Bottom of draw, course W. Ascend 60 ft. over S. slope.
25.00	Top of spur, projects W. Descend 50 ft. over N. slope.

SUBDIVISION OF T.21 S.,R. 18 E.

Chains	
30.10	Bottom of draw, course W. Ascend 50 ft.over S. slope to top of spur.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec.cor., with brass cap mkd. ¼ S 17 | S 16 1931 and raise mound of stone, 3 ft. base, 2 ft.high, W. of the cor.
46.40	Top of spur, projects SW. Descend 40 ft. over NW. slope.
54.50	Bottom of Horse Canyon, course SW. Road in bottom of canyon, bears NE. and SW. Ascend 30 ft. to sec. cor.
69.50	Bottom of Horse canyon, course SE.
76.40	Fence, 4 barbed wires, bears NW. and SE.
80.00	Bottom of Horse Canyon, course SW. True point for the cor. of secs. 8, 9, 16 and 17, falls in bottom of canyon where it is impracticable to set cor. Erect small mound of stone at the exact cor. point.
80.27	Set an iron post, 3 ft.long, 2 ins. diam., 30 ins. in the ground, for the witness cor. of secs. 8, 9, 16 and 17, with brass cap mkd. T21S R18E S 8 | S 9 S17 | S16 W C 1931 and raise mound of stone, 3 ft. base, 2 ft.high, W. of the cor. Land, broken bench; general drainage and exposure SW. Soil, loose sandy and clay loam, mixed with sandstone; 3rd rate. Timber, none. Undergrowth, black brush and shadscale, with grease wood along the bottom of Horse Canyon. Poor grazing.

Chains	
	N.89°54'E., on random line bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
70.90	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 9, 10, 15 and 16.
	Thence
	S.89°56'W., on true line bet. secs. 9 and 16.
	Over broken bench land, through scattering undergrowth.
	Descend 180 ft. over SW. slope to the ¼ sec. cor.
20.10	Top of sandstone rim, 50 ft. high, bears NW. and SE.
23.10	Bottom of small draw, course SW.
30.05	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, to solid rock, with sandstone 12 x 5 x 3 ins. mkd. X deposited at the base, and surrounded by a mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 9 / S 16 1931
	No other suitable accessories available.
	Continue descent of 210 ft. over SW. slope to sec. cor.
52.70	Bottom of draw, course NW.
57.90	Bottom of same draw, course SW.
65.20	Bottom of same draw, course NW.
70.70	Bottom of same draw, course SW.
70.60	Road, bears NE. and SW.
70.90	The true point for the cor. of secs. 8, 9, 16 and 17.
	Land, broken bench; general drainage and exposure SW.
	Soil, loose sandy clay, mixed with sandstone; 3rd rate.
	Timber, none.
	Undergrowth, black brush and shadscale.
	Poor grazing.
	N.0°03'W., bet. secs. 8 and 9.
	Over broken bench land, through scattering undergrowth.
	Ascend 370 ft. over SE. slope to top of rim of mesa.

SUBDIVISION OF T.21 S.,R. 18 E.

Chains	
0.27	Witness cor. of secs. 8, 9, 16 and 17, heretofore described.
19.20	Bottom of Horse Canyon, course SE.
21.50	Bottom of same canyon, course SW. Commence abrupt ascent.
32.20	Rim of mesa, bears E. and W. Thence over mesa top.
35.98	The SW. cor. of L.H.Milton's house bears N.37°11'E.
38.40	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the witness ¼ sec. cor., with brass cap mkd.

WC
¼
S 8 | S 9
1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

38.50	Rim of mesa, bears NW. and SE. Thence along broken E. slope of mesa.
40.00	True point for the ¼ sec. cor., falls on sloping sandstone ledge, where it is impracticable to set cor.
48.00	Rim of mesa, bears NE. and SW. Thence over top of mesa.
49.15	L.H.Milton's house bears S.68°51'E.
52.90	Small seep, under ledge, bears East, 1.80 chs. dist.
56.90	Top of low spur, projects E. Descend 50 ft.over N. slope.
63.70	Bottom of draw, course E. Ascend 10 ft. over S.slope.
68.40	Top of spur, projects E. Descend 60 ft.over N. slope.
80.00	Set an iron post, 3 ft. long, 2 ins.diam., 30 ins. in the ground, for the cor. of secs. 4, 5, 8 and 9, with brass cap mkd.

T21S R18E
S 5 | S 4
S 8 | S 9
1931

and raise mound of stone 3 ft. base, 2 ft. high, W. of the cor.

Chains	
	Land, broken bench; general drainage and exposure SE.
	Soil, loose sandy loam with exposed sandstone; 3rd rate
	Timber, none.
	Undergrowth, black brush and shadscale, with grease wood
	and sage brush along bottom of Horse Canyon.
	Poor grazing.
	N.89°56'E., on random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
79.86	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 3, 4, 9 and 10.
	Thence
	S.89°53'W., on true line bet. secs. 4 and 9.
	Over broken bench land, through scattering undergrowth.
	Ascend 150 ft. over NE. slope.
9.00	Top of spur, projects NW. Descend 490 ft. over W. slope to bottom of Horse Canyon.
30.90	Fence, 4 barbed wires, bears NW. and SE.
39.93	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 4 / S 9 1931
	and raise mound of stone, 3 ft. base, 2 ft.high, N.of the cor.
40.60	Sandstone rim, 15 ft.high, bears NE. and SW.
47.60	Bottom of E. fork of Horse Canyon, course SW. Ascend 130 ft. over E. slope.
49.90	Sandstone rim, 10 ft. high, bears N. and S.
57.00	Top of spur, projects S. Descend 100 ft. to bottom of canyon.
63.10	Sandstone rim, 15 ft. high, bears NW. and SE.
64.90	Bottom of Horse Canyon, course SE. Ascend 120 ft. over SE. slope.
67.50	Sandstone rim, 20 ft. high, bears NW. and SE.
75.90	Top of spur, projects NE. Descend 10 ft.over W.slope.
79.86	The cor. of secs. 4, 5, 8 and 9.

SUBDIVISION OF T.21 S.,R. 18 E.

Chains	
	Land, broken bench; general drainage and exposure SW. Soil, loose sandy loam mixed with sandstone; 3rd rate. Timber, none. Undergrowth, black brush and shadscale, with grease wood, sagebrush and rabbit brush in bottom of canyon. Poor grazing.
	N.0°03'W., on true line bet. secs. 4 and 5. Over broken bench land, through scattering undergrowth. Descend 30 ft. over N. slope.
4.40	Bottom of draw, course E. Ascend 30 ft.over S. slope.
7.30	Top of spur, projects E. Descend 40 ft. over N. slope.
10.50	Bottom of draw, course E. Ascend 40 ft. over S. slope.
17.90	Top of spur, projects E. Descend 20 ft. over N. slope.
21.20	Bottom of draw, course SE. Ascend 200 ft. over SW. slope, to top of spur.
27.90	Top of sandstone rim, 30 ft. high, bears NE. and SW.
29.00	Top of spur, projects E. Descend 330 ft. over N. slope.
38.20	Bottom of draw, course NE. Ascend 300 ft. over SE. slope, to the closing cor.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ ✓ S 5 | S 4 1931 and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
42.65	Intersect the N. bdy., West, 9,72 chs. dist., from the cor. of secs. 32 and 33, T. 20½ S., R. 18 E., heretofore described. At point of intersection Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground to solid rock, and surrounded by mound of stone, for the closing cor. of secs. 4 and 5, with brass cap mkd.

Chains	
	T20½S R18E S32 S 5 | S 4 T21S | R18E C C 1931
	and raise
	mound of stone, 3 ft. base, 2 ft. high, S.of the cor.
	Land, broken bench; general drainage and exposure SE.
	Soil, loose sandy loam mixed with sandstone; 3rd rate..
	Timber, none.
	Undergrowth, black brush and shadscale.
	Poor grazing.
	From the cor. of secs. 5, 6, 31 and 32 on the S. bdy., heretofore described.
	N.0°03'W., on true line bet. secs. 31 and 32.
	Over rolling desert land, through scattering undergrowth
	Descend 40 ft. over general N. slope.
18.60	Bottom of draw, course NW. Ascend 20 ft. over S.slope.
21.90	Top of spur, projects W. Descend 70 ft.over N. slope.
23.00	Bottom of draw, course W. ascend 175 ft. over S. slope to the ¼ sec. cor.
29.00	Denver and Rio Grande Western Railroad, bears S.33°00'E. and N. 33°00'W.
30.40	Western Union Telegraph Line, bears S.33°00'E., and N.33°00'W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, with sandstone 6 x 4 x 4 ins. mkd. X, deposited at the base and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 31 | S 32 1931
	No other suitable accessories available.
	Continue ascent of 135 ft. over SW. slope.
50.80	Top of spur, projects W. Descend 190 ft. over N.slope.

Chains	
63.80	Bottom of draw, course NW. Ascend 100 ft. over SW. slope.
69.50	Top of spur, projects W. Descend 85 ft. over N.slope.
77.30	Bottom of draw, course W. Ascend 20 ft.over S.slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock, with sandstone 8 x 6 x 4 ins. mkd. X, and surrounded by mound of stone to the top, for the cor. of secs. 29, 30, 31 and 32, with brass cap mkd.

T21S R18E	
S30	S29
S31	S32

1931

No other suitable accessories available.

Land, rolling desert; general drainage and exposure SW.

Soil, loose sandy and clay loam; 3rd rate.

Timber, none.

Undergrowth, shadscale.

Poor grazing.

S.89°59'E., on random line bet. secs. 29 and 32.

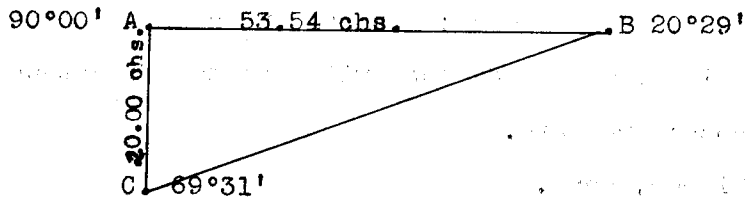
40.00 Set temp. ¼ sec. cor.

The line to the east ascends over precipitous slope over which chaining is impracticable. The true corner point for the cor. of secs. 28, 29, 32 and 33, is inaccessible therefore I triangulate as follows:

Erect flag A at the temp. ¼ sec. cor. and set flag B on line to the east. and set flag C southerly from A the mean distance of 20.00 chs.

by 1st set of chainmen is 19.99 chs.
by 2nd set of chainmen is 20.01 chs.

The angles were determined by three repetitions and the error balanced to 180°. The vertical angle from A to B is plus 14°15'.



Chains	
	Angle at point A is 90°00' Angle at point B is 20°29' Angle at point C is 69°31'
	Distance on line to point A is ----------40.00 chs. Distance by triangulation A to B----------53.54 chs. Total distance on line to point B----------93.54 chs.
	Thence by offset on return measurement.
	N.0°03'W., 5.89 chs.
	N.89°59'W., 13.52 chs. to
80.02	Intersect N. and S. line, 21 lks. S. of the witness corner of secs. 28, 29, 32 and 33, which is N.0°03'W., 5.89 chs. dist., from the true corner point.
	Therefore the true bearing of this mile is S.89°52 ' W. 80.02 chs. dist.
	Thence
	S.89°52'W., on true line bet. secs. 29 and 32.
	Counting distance from the true corner point.
	Over broken bench land, through scattering undergrowth.
	Descend precipitous W. slope.
14.00	Top of spur, projects SW. Descend over W. slope.
40.01	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	$\frac{S\ 29}{\frac{1}{4}\ S\ 32}$ 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Descend 110 ft. over NW. slope to bottom of draw.
53.00	Bottom of draw, course NW.
55.80	Bottom of same draw, course SW. Ascend 40 ft. over SE. slope.
62.80	Top of spur, projects SW. Descend 30 ft. over SW. slope
63.80	Bottom of draw, course SW.
65.80	Bottom of same draw, course NW.
67.80	Bottom of draw, course SW.
80.02	Intersect the corner of secs. 29, 30, 31 and 32.
	Land, broken bench; general drainage and exposure W.
	Soil, loose sandy loam with exposed sandstone surface rock; 3rd rate.
	Timber, none.

Chains	
	Undergrowth, black brush and shadscale.
	Poor grazing.
	N.89°59'W., on random line bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor.
77.58	Intersect the W. bdy., 3 lks. N. of the cor. of secs. 25, 30, 31 and 36, which is a sandstone 8 x 6 x 6 ins. above ground, properly mkd. and witnessed as described in the official record.
	Thence
	East, on true line bet. secs. 30 and 31.
	Over broken desert land, through scattering undergrowth.
9.20	Bottom of draw, course SW.
22.30	Denver and Rio Grande Western Railroad, bears N.34°00'W., and S.34°00'E.
23.20	Western Union Telegraph Line, bears N.34°00'W., and S. 34°00'E.
	Ascend 70 ft. over NW. slope.
37.58	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with sandstone 10 x 8 x 4 ins. mkd. X, deposited at the base, for the sec. cor., with brass cap mkd.

¼ S 30 / S 31 / 1931

	No other suitable accessories available.
	Continue ascent of 150 ft. over NW. slope.
52.60	Top of spur, projects SW. Descend 30 ft.over SE.slope.
77.58	Intersect the cor. of secs. 29, 30, 31 and 32.
	Land, broken desert; general drainage and exposure W.
	Soil, loose sandy and clay loam; 2nd rate.
	Timber, none.
	Undergrowth, black brush and shadscale.
	Poor grazing.
	N.0°03'W., bet. secs. 29 and 30.

Chains	
	Over broken bench land, through scattering undergrowth.
	Ascend 120 ft. over S. slope.
10.90	Top of spur, projects SW. Descend 40 ft. over NW. slope
25.00	Bottom of draw, course SW. Ascend SE. slope, 40 ft.
34.00	Top of ridge, bears E. and W. Descend 90 ft. to bottom of draw.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with sandstone 9 x 6 x 4 ins. mkd. X, deposited at the base, for the ¼ sec. cor., with brass cap mkd.

¼

S 30 | S 29

1931

	No other suitable accessories available.
	Continue descent.
60.50	Bottom of draw, course W. Ascend 70 ft. over S. slope.
66.00	Top of spur, projects W. Descend 20 ft. over N. slope.
69.10	Bottom of draw, course W. Ascend 10 ft. over S. slope.
72.00	Top of spur, projects W. Descend 10 ft. over N. slope.
79.00	Bottom of draw, course W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 19, 20, 29 and 30, with brass cap mkd.

T21S R18E

S19	S20
S30	S29

1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Land, broken desert; general drainage and exposure W.

Soil, loose sandy loam; 2nd rate.

Timber, none.

Undergrowth, black brush and shadscale.

Poor grazing.

N.89°52'E., on random line bet. secs. 20 and 29.

40.00 Set temp. ¼ sec. cor.

SUBDIVISION OF T.21 S., R. 18 E.

Chains	
80.10	Intersect N. and S. line, 12 lks. N. of the cor. of secs. 20, 21, 28 and 29.
	Thence
	S.89°57'W., on true line bet. secs. 20 and 29.
	Over broken bench land, through scattering undergrowth.
	Ascend 100 ft. over NE. slope.
5.90	Top of spur, projects NW. Descend 385 ft. over SW. slope.
27.90	Bottom of draw, course NW. Ascend 30 ft. over NE. slope.
33.40	Top of spur, projects NW. Descend 60 ft. over SW. slope to bottom of draw.
40.05	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd. $\frac{1}{4}\frac{S\ 20}{S\ 29}$ 1931 and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
63.70	Bottom of draw, course NW. Ascend 20 ft. over NE. slope.
74.90	Top of ridge, bears NW. and SE. Descend 20 ft. over SW. slope.
80.10	Intersect the cor. of secs. 19, 20, 29 and 30.
	Land, broken bench; general drainage and exposure NW.
	Soil, loose sandy loam with exposed sandstone; 3rd rate.
	Timber, none.
	Undergrowth, black brush and shadscale.
	Poor grazing.
	West, on random line bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
77.21	Intersect the W. bdy., 7 lks. S. of the cor. of secs. 19, 24, 25 and 30, which is a sandstone 14 x 12 x 10 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.
	Thence
	S.89°57'E., on true line bet. secs. 19 and 30.

Chains	
	Over broken bench land, through scattering undergrowth.
	Ascend 50 ft. over NW. slope.
17.60	Top of spur, projects SW. Descend 50 ft. over NE. slope
36.30	Bottom of draw, course SW.
37.21	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with sandstone 6 x 6 x 4 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 19 / S 30 1931
	No other suitable accessories available.
	Descend 50 ft. over SE. slope.
39.30	Bottom of draw, course NW. Ascend 120 ft. over NW. slope
55.60	Top of spur, projects SW. Descend 30 ft. over SE. slope.
61.10	Bottom of draw, course SW. Ascend 30 ft. over W. slope.
77.21	The cor. of secs. 19, 20, 29 and 30.
	Land, broken bench; general drainage and exposure NW.
	Soil, loose sandy loam; 3rd rate.
	Timber, none.
	Undergrowth, black brush and shadscale.
	Poor grazing.
	N.0°03'W., bet. secs. 19 and 20.
	Over broken bench land, through scattering undergrowth.
	Ascend 80 ft. over SE. slope.
3.20	Top of ridge, bears NE. and SW. Descend 50 ft. over NW. slope.
20.30	Bottom of draw, course W. Ascend 30 ft. over S. slope.
32.70	Top of spur, projects W. Descend 80 ft. over N. slope to bottom of draw.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 19 | S 20 1931
	and raise mound

Chains	
	of stone 3 ft. base, 2 ft. high, W. of the cor.
50.20	Bottom of draw, course W. Ascend 30 ft. over S.slope.
57.00	Top of spur, projects W. Descend 40 ft. over N. slope.
64.90	Bottom of draw, course SW. Ascend 20 ft. over SE.slope.
77.30	Road, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 17, 18, 19 and 20, with brass cap mkd.

T21S	R18E
S18	S17
S19	S20

1931

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Land, broken bench; general drainage and exposure SW.

Soil, loose sandy and clay loam; 3rd rate.

Timber, none.

Undergrowth, shadscale.

Poor grazing.

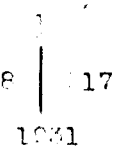
	N.89°57'E., on random line bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S.line, 7 lks. N. of the cor. of secs. 16, 17, 20 and 21.
	Thence
	West, on true line bet. secs. 17 and 20.
	Over broken bench land, through scattering undergrowth.
3.00	Bottom of draw, course SW. Ascend 20 ft. over SE. slope.
8.10	Trail, bears N. and S.
10.50	Top of spur, projects SW. Descend 60 ft. over NW.slope.
20.70	Bottom of draw, course SW. Ascend 20 ft. over SE. slope.
23.70	Top of spur, projects SW. Ascend 70 ft. over SW.slope.
31.50	Bottom of Horse Canyon, course SW. Ascend 40 ft. over SE. slope.
40.05	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

Chains	
	$\frac{1}{4}$ S 17 / S 20 1931
	and raise
	mound of stone, 3 ft. base, 2 ft.high, N. of the cor.
	Continue ascent of 20 ft. over SE. slope.
52.60	Top of spur, projects S. Descend 20 ft. over W. slope.
55.50	Bottom of draw, course S. Ascend 20 ft. over E. slope.
69.80	Top of spur, projects S. Descend 30 ft. over W. slope.
77.40	Road, bears NE. and SW.
77.60	Bottom of draw, course SW. Ascend 10 ft. over SE. slope
80.10	Intersect the cor. of secs. 17, 18, 19 and 20.
	Land, broken bench; general drainage and exposure SW.
	Soil, sandy and clay loam; 3rd rate.
	Timber, none.
	Undergrowth, shadscale.
	Poor grazing.

	N.89°57'W., on random line bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
76.84	Intersect the W. bdy., 12 lks. S. of the cor. of secs. 13, 18, 19 and 24, which is a sandstone 12 x 6 x 6 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.
	Thence
	S.89°52'E., on true line bet. secs. 18 and 19.
	Over broken bench land, through scattering undergrowth.
	Ascend 90 ft. over W. slope.
36.84	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 18 / S 19 1931
	and raise mound
	of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Continue ascent of 50 ft.over W. slope.
70.60	Top of spur, projects S. Descend 50 ft. over E. slope.

SUBDIVISION OF T.21 S., R. 18 E.

Chains	
76.84	Intersect the cor. of secs. 17, 18, 19 and 20.
	Land, broken bench; general drainage and exposure SW.
	Soil, sandy and clay loam; 3rd. rate.
	Timber, none.
	Undergrowth, shadscale and black brush.
	Poor grazing.
	N.0°03'W., bet. secs. 17 and 18.
	Over broken bench land, through scattering undergrowth.
	Ascend 100 ft. over S. slope.
34.20	Top of spur, projects SW. Descend 20 ft. over N. slope.
37.20	Bottom of draw, course SW. Ascend 60 ft. over SE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, with sandstone 6 x 5 x 4 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the 1/4 sec.cor., with brass cap mkd.

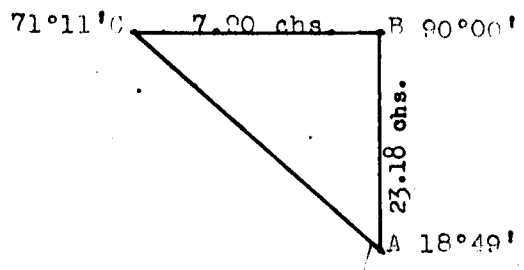


No other suitable accessories available.

The line to the north ascends over precipitous slope and vertical rim, over which chaining is impracticable. Therefore to determine the distance I return to the 31.57 chs. point and triangulate as follows:

Erect flag A at the 31.57 chs. point and set flag B on line to the north and set flag C northwesterly from A.

The mean distance of the base line BC is 7.90 chs. with no difference in the measurement by two sets of chainmen. The angles were determined by three repetitions with the error balanced to 180°. The vertical angle from A to B is plus 26°45'.



Chains	
	Angle at point A is 18°49' Angle at point B is 90°00' Angle at point C is 71°11'
	Distance on line to point A----------31.57 chs. Distance by triangulation A to B----------23.18 chs. Total distance on line to B----------54.75 chs.
54.70	Top of sandstone rim, 100 ft. high, bears E. and W.
54.75	Point B of triangulation.
	Thence over broken top of mesa. Ascend 10 ft.
57.90	Top of spur, projects E. Descend 80 ft. over N. slope.
	Enter scattering timber, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid rock, and surrounded by mound of stone, to the top, for the cor. of secs. 7, 8, 17 and 18, with brass cap mkd.

T21S R18E
S 7 | S 8
S18 | S17
1931

from which

A juniper, 3 ins. diam., bears N.64°15'E., 61 lks. dist., mkd. B T.

A juniper, 3 ins. diam., bears S.66°15'E., 61 lks. dist., mkd. B T .

A juniper, 6 ins. diam., bears S.62°15'W., 78 lks. dist., mkd. T 21 S R 18 E S 18 B T.

A pinon, 12 ins. diam., bears N.23°45'W., 211 lks. dist., mkd. T 21 S R 18 E S 7 B T.

Land, broken bench; general drainage and exposure S.

Soil, sandy loam mixed with sandstone; 3rd rate.

Timber, scrub juniper and pinon.

Undergrowth, shadscale and black brush.

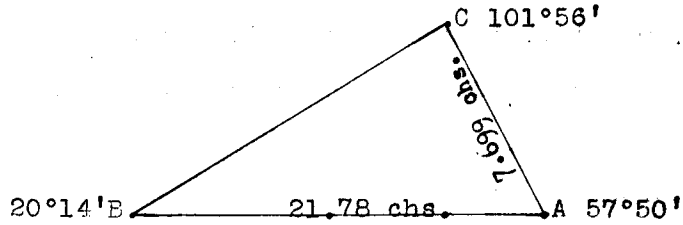
Poor grazing.

	Test. on random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line 3 lks. S. of the true point for the cor. of secs. 8, 9, 16 and 17.
	Thence

SUBDIVISION OF T.21 S.,R. 18 E.

Chains	
	S.89°59'W., on true line bet. secs. 8 and 17.
	Over rough and broken bench land, through scattering undergrowth.
	Ascend 480 ft. over broken E. slope to the ¼ sec. cor.
5.80	Fence, 4 barbed wires, bears NW. and SE.
27.20	Spur, projects NE.
40.02	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground, to solid rock, with sandstone 12 x 6 x 4 ins. mkd. X, deposited at the base, and surrounded by mound of stone, to the top, for the ¼ sec. cor., with brass cap mkd.
	S 8 / S 17 1931
	No other suitable accessories available.
	Continue ascent of 150 ft. over SW. slope to top of spur.
44.10	Top of mesa, bears N. and S. Enter scattering timber bearing N. and S.
50.50	Top of spur, projects NW. Descend 40 ft. over NW. slope.
67.00	Bottom of draw, course NW. Ascend 90 ft. over SW. slope.
80.04	Intersect the cor. of secs. 7, 8, 17 and 18.
	Land, broken bench; general drainage and exposure NW.
	Soil, loose sandy loam, with surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, shadscale and black brush.
	Poor grazing.
	N.89°52'W., on random line bet. secs. 7 and 18.
18.46	Top of vertical sandstone rim, over which chaining is impracticable. Therefore to determine the distance I triangulate as follows:
	Erect flag A at this point and set flag B on line to the west, also set flag C northwesterly from A the mean distance of 7.699 chs. with no difference in measurement by two sets of chainmen. The angles were determined by three repetitions with the error balanced to 180° The vertical angle from A to B is -26°14'

Chains



Angle at point A is 57°50'
Angle at point B is 20°14'
Angle at point C is 101°56'

Distance on line to point A----------	18.46 chs.
Distance by triangulation A to B------ -----	21.78 chs.
Total distance on line to B--- ----------	40.24 chs.
Distance by return measurement----------	0.24 chs.
	40.00 chs.

40.00 Set temp. ¼ sec. cor.

76.64 Intersect the N. bdy., 3 lks. S. of the cor.of secs. 7, 12, 13 and 18, which is a sandstone 14 x 8 x 6 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.

Thence

S.89°51'E., on true line bet. secs. 7 and 18.

Over broken bench land, through scattering undergrowth.

Ascend 130 ft. over W. slope.

36.64 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼ S 7 / S 18
1931

and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.

Ascend 700 ft. over precipitous W. slope.

58.18 Top of sandstone rim, 200 ft. high, bears NW. and SE.

Thence ascend 10 ft. over W. slope.

58.60 Top of ridge, bears NW. and SE. Descend 30 ft. over gradual E. slope. Enter scattering timber, bearing NW. and SE.

76.64 Intersect the cor.of secs. 7, 8, 17 and 18.

Land, broken bench; general drainage exposure W.

Soil, sandy loam, with exposed surface sandstone; 3rd. rate.

Timber, juniper and pinon.

Chains	
	Undergrowth, shadscale and black brush.
	Poor grazing.
	N.0°03'W., bet. secs. 7 and 8.
	Over broken mesa top, through scattering timber and undergrowth.
	Descend 170 ft. over NE. slope to bottom of draw.
5.50	Rim, 20 ft. high, bears NE. and SW.
10.80	Bottom of draw, course NE. Ascend 130 ft. over SE. slope.
21.30	Top of spur, projects NE. Descend 170 ft. over NW. slope.
26.40	Bottom of draw, course E. ascend 170 ft. over SW. slope.
29.00	Rim, 20 ft. high, bears E. and W.
33.90	Top of spur, projects E. Descend 40 ft. over N. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, surrounded by mound of stone to the top, for the sec. cor., with brass cap mkd.

S 7 | S 8
1931

from which

A juniper, 3 ins. diam., bears N.81°45'E., 285 lks. dist., mkd. B. T.

A pinon, 6 ins. diam., bears S.79°45'W., 335 lks. dist., mkd. B. T.

Continue descent of 60 ft. over N. slope to the bottom of draw.

62.00	Leave scattering timber, bearing E. and W.
79.00	Bottom of draw, course SE. Ascend 30 ft. over SW. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 5, 6, 7 and 8, with brass cap mkd.

T21S R18E
S 6 | S 5
S 7 | S 8
1931

and raise

mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Land, broken bench; general drainage and exposure NE.

Chains	
	Soil, sandy loam, with exposed surface sandstone; 3rd. rate.
	Timber, juniper and pinon.
	Undergrowth, black brush.
	Poor grazing.
	N.89°59'E., on random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.14	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 4, 5, 8 and 9.
	Thence
	S.89°57'W., on true line bet. secs. 5 and 8.
	Over broken bench land, through scattering undergrowth.
	Descend 10 ft. over W. slope.
12.00	Bottom of draw, course NE. Ascend 290 ft. over E. slope to top of spur.
27.90	Rim, 20 ft. high, bears N. and S.
29.40	Top of spur, projects S. Descend 240 ft. over NW. slope to bottom of draw.
39.10	Rim, 20 ft. high, bears N. and S. Continue descent.
40.07	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 5 ✓ / S 8 / 1931
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Continue descent.
52.40	Bottom of draw, course SW. Ascend 90 ft. over E. slope.
62.70	Top of spur, projects S. Descend 30 ft. over SW. slope.
72.60	Bottom of draw, course SE. Ascend 70 ft. over NE. slope.
80.14	Intersect the cor. of secs. 5, 6, 7 and 8.
	Land, broken bench; general drainage and exposure S.
	Soil, sandy clay loam, with exposed surface sandstone; 3rd rate.
	Timber, none.
	Undergrowth, shadscale and black brush.

SUBDIVISION OF T.21 S.,R. 18 E.

Chains	Poor grazing.
	N.89°51'W., on random line bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
76.37	Intersect the W. bdy.,61 lks. S. of the witness cor. of secs. 1, 6, 7 and 12, which is an iron post, 2 ins. diam., firmly set, properly mkd. and witnessed as described in the official record of T. 21 S.,R. 17 E., of this group.
	Thence, from the true point for the cor. of secs.1,6, 7 and 12.
	S.89°50'E., on true line bet. secs. 6 and 7.
	Over broken bench land through scattering undergrowth.
	Ascend 400 ft. over NW. slope to the ¼ sec. cor.
18.40	Rim, 20 ft. high, bears NE. and SW. Enter scattering timber, bears NE. and SW.
36.37	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	$\frac{1}{4}\ \frac{S\ 6}{S\ 7}$ 1931
	from which
	A juniper, 3 ins.diam., bears N.52°00'W., 40 lks. dist., mkd. B T.
	A juniper, 3 ins. diam., bears S.27°00'W., 2.32 chs. dist., mkd. B T.
	Continue ascent of 270 ft. over NW. slope.
49.60	Top of spur, projects SW. Descend 210 ft. over SE. slope.
55.80	Bottom of draw, course SW. Ascend 120 ft. over W.slope.
63.20	Top of spur, projects S. Gradual descent of 200 ft. over NE. slope to sec. cor.
73.20	Bottom of small draw, course SE. Leave scattering timber, bearing N. and S.
76.37	Intersect the cor.of secs. 5, 6, 7 and 8.
	Land, broken bench; general drainage and exposure S.
	Soil, sandy loam with exposed surface sandstone; 3rd rate.
	Timber, juniper and pinon.

Chains	
	Undergrowth, shadscale and black brush.
	Poor grazing.
	N.0°03'W., on true line bet. secs. 5 and 6.
	Over broken bench land, through scattering undergrowth.
	Ascend 20 ft. over SW. slope.
6.10	Top of spur, projects SE. Descend 50 ft. over NE. slope.
8.00	Bottom of draw, course SE. ascend 200 ft. over SW. slope.
14.30	Top of spur, projects SE. Descend 100 ft. over NE. slope.
19.10	Bottom of draw, course SE. Ascend 140 ft. over SW. slope.
22.50	Top of spur, projects SE. Descend 120 ft. over NE. slope.
32.30	Bottom of draw, course SE. Ascend 70 ft. over SW. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, to solid rock with sandstone 6 x 4 x 4 ins. mkd. Y, deposited at the base and surrounded to the top by a mound of stone, for the ¼ sec. cor., with brass cap mkd.

¼

S 6 | S 5

1931

No other suitable accessories available.

42.74 Intersect the N. bdy., West, 9.84 chs. dist., from the cor. of secs. 31 and 32, T. 20½S., R.18 E., heretofore described.

At point of intersection

Set an iron post, 3 ft.long, 2 ins. diam., 30 ins. in the ground, for the closing cor. of secs. 5 and 6, with brass cap mkd.,

T20½S R18E

S 31

S 6 | S 5

T21S | R18E

C C

1931

and raise mound of stone, 3 ft. base, 2 ft. high, S. of the cor.

Land, broken bench; general drainage and exposure SE.

Soil, sandy loam and surface sandstone; 3rd rate.

Timber, none.

SUBDIVISION OF T.21 S.,R. 18 E.

Chains

Undergrowth, shadscale and black brush.
Poor grazing.

FINAL TEST OF INSTRUMENTS.

Sept. 27th, 1931: At the corner of secs. 3, 4, 33 and 34, on the S. bdy., T. 21 S., R. 18 E., at 8h 00m a.m. l.m.t., I set off 38°56'N. on the lat arc; 1° 23' S. on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 4h 00m p.m. l.m.t., with lat. arc unchanged; I set off 1°31'S. on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris.

GENERAL DESCRIPTION

The land embraced in T. 21 S.,R. 18 E., is rough and broken bench land and rolling desert land, with general southerly drainage and exposure.

The soil is a sandy and clay loam, with exposed surface sandstone. The sandy loam is found on the benches and the clay loam in the bottom of the canyons and on the rolling desert.

The mesa land has a scattering growth of scrub juniper and pinon, of no commerical value except for fire wood.

The undergrowth consists of sage brush, grease wood, shadscale and black brush. There is a sparce growth of grass on the bench land.

The township is used for the winter grazing of livestock. I estimate that approximately 50 head of cattle and horses and 500 head of sheep are wintered on this township. The range conditions show excess grazing.

There is one small ranch in secs.27 and 34, consisting of about 25 acres of alfalfa land, belonging to

Lorenzo Hatch. It is irrigated from water in the Saleratus Wash. The entire water flow in the summer is used in the irrigating of this ranch.

There are two homesteaders in Horse Canyon, in secs. 9 and 16. L.H.Milton and Clifford Phillips. They graze horses and cattle on their homesteads and the land adjoining.

The nearest Post Office is Green River Utah, 10 miles to the west.

There are surface indications of coal over the entire township.

The magnetic declination was not taken on account of defective needle.

Water Locations.

S½ of NW¼ of sec. 9, very small seep.

SE¼ of NE¼ of sec. 16, seep.

NE¼ of NW¼ of sec. 22, very small seep.

NW¼ of SE¼ of sec. 14, spring.

SE¼ of SW¼ of sec. 23, spring.

Water in Saleratus Wash in the SE¼ of sec. 27, W½ of Sec. 26, S½ of Sec. 23, and SW¼ of Sec. 24.

BOOK A-514

4—680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Wilson McConkie	Chainman
Andrew McConkie	Chainman
Archie Jeffs	Cornerman
Robert Bywater	Flagman

6—2764

CERTIFICATE OF UNITED STATES SURVEYOR

I, Chas. F. Moore, U. S. Surveyor, hereby certify upon honor that, in pursu[illegible] of special instructions received from the District Cadastral Engineer for Utah bearing date of the 28th day of September, 19 30, I have well, faithfully, and tru[illegible] in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instru[illegible] tions, and the laws of the United States, surveyed all those parts or portions of T. 21 S., R. 18 E., of the Salt Lake Base and Meridian, in the State of Utah, which are represented i[illegible] the foregoing field notes as having been executed by me, and under my direction; and that all the corners o[illegible] said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc[illegible] tions, and the special written instructions of the District Cadastral Engineer for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes o[illegible] such survey.

Salt Lake City, Utah
April 27, 1932

Chas. F. Moore
Chas. F. Moore
U. S. Surveyor.

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver Colo. NOV 30 1936, 19

The foregoing field notes of the survey of T. 21 S., R. 18 E.

executed by Chas. F. Moore

under his special instructions dated September 28th, 19 30, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

[illegible]
U. S. Supervisor of Surveys.

~~I certify that the foregoing transcript of the field notes of the above described surveys in T. 21 S., R. 18 E., has been correctly copied from the original notes on file in this office.~~

~~U. S. Supervisor of Surveys.~~

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4—679
(April 1933)

BOOK A-514

Office of District Cadastral Engineer
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District No. 6

FIELD NOTES

OF THE

DEPENDENT RESURVEYOF A PORTION OF THE NORTH, SOUTH, AND WEST BOUNDARIES, AND SUBDIVISIONAL LINES; AND SURVEY OF A PORTION OF THE WEST BOUNDARY AND SUBDIVISIONAL LINES, COMPLETING THE SURVEY OF, T. 37 S., R. 13 W.

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

Elliot Bird, Surveyor,
Andrew Nelson, Surveyor,
Edward Eliason, Transitman,
Kelvin Winwood, Transitman,

Under special instructions dated April 8, *1933, which provided for the surveys included under Group No.* 243, *bearing the approval of the Commissioner of the General Land Office under date of* July 5, 1933 *and assignment instructions dated* June 26, *1936,* and supplemental assignment instructions dated July 20, 1936.

Survey commenced July 2, *1936.*

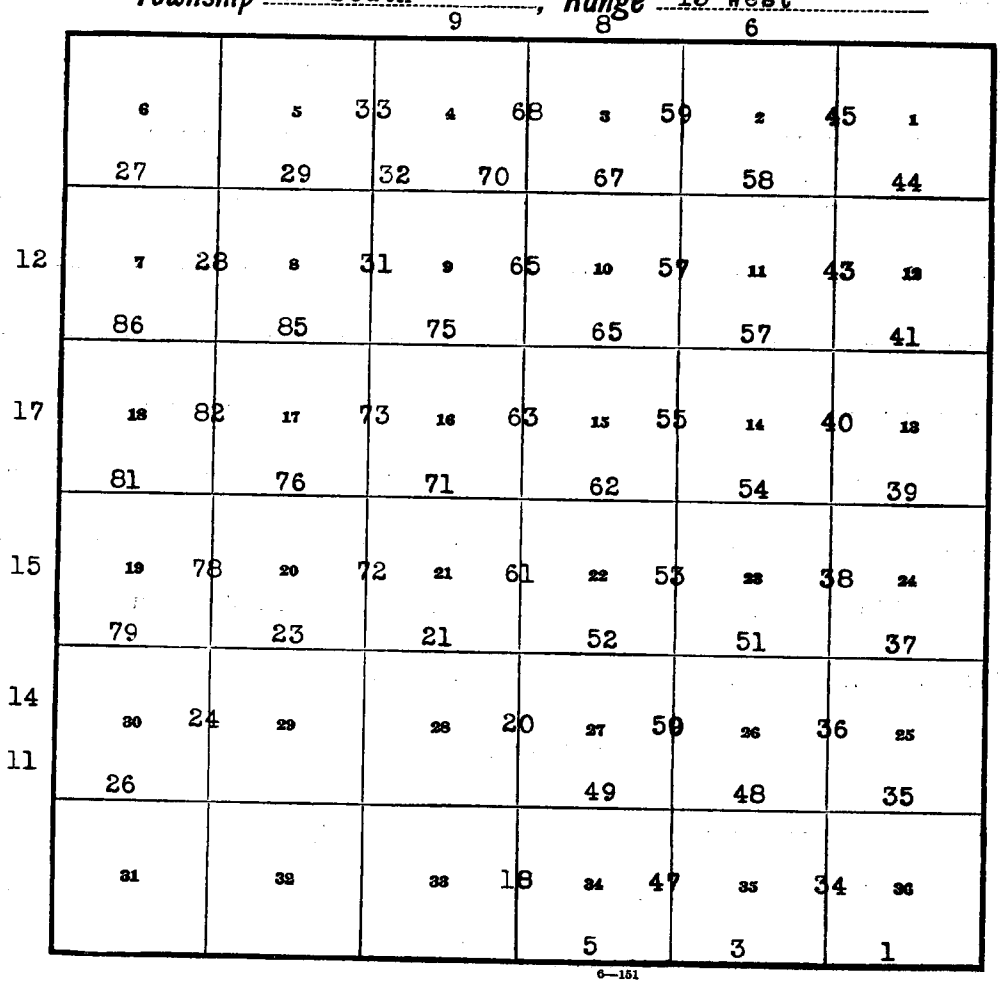
Survey completed August 12, *1936.*

U. S. GOVERNMENT PRINTING OFFICE 6—151

BOOK A-514

INDEX DIAGRAM.

Township 37 South ; *Range* 13 West



6—151

T. 37 S., R. 13 W.

The survey of T. 37 S., R. 13 W., Salt Lake Meridian, Utah, was commenced July 2, 1936, and executed with Buff and Buff transits Nos. 14191 and 18003, used by Andrew Nelson and Elliot Bird, ~~U.S.~~ Surveyors, and Transitman Edward Eliason, respectively, and Buff and Buff transit No. 9210, used by Transitman Kelvin Winwood.
The instruments are the property of the General Land Office and were approved for use on this survey, conditional upon satisfactory field tests, by the district cadastral engineer for Utah, in assignment instructions dated June 26, 1936, issued to Andrew Nelson and Elliot Bird, and supplemental assignment instructions dated July 20, 1936, issued to Edward Eliason and Kelvin Winwood.
Each instrument is equipt with Smith solar attachments and full vertical circles. The horizontal limbs are equipt with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs and vertical circles.
The solar attachments were not used on this survey, and all controlling meridians were established by observations on Polaris, some of which are shown in this record. The bearings of the lines of the survey, were deflected from these true meridians by repetition of angles, and carried forward by transit lines, taking the mean of double fore and back sights.
The measurements were made with Lallie steel ribbon tapes 5 and 8 chains in length, compared with a Lufkin standard steel tape, 1 chain in length and found correct. The measurements were made on the slope, the vertical angle determined with large improved clinometers and the slope measurements properly reduced to true horizontal distances.

DEPENDENT RESURVEY PORTION SOUTH BDY. T. 37 S., R. 13 W.

Reestablishment of surveys executed by A.J. Stewart, Jr. U.S. Deputy Surveyor in 1870, and resurveyed by Hugo Price, U.S. Surveyor, under Group 57, Utah, in 1918.

July 2, 1936: Stationed at the cor. of Ts. 37 and 38 S., Rs. 12 and 13 W., hereinafter described, in approximate latitude 37°33' N., longitude 113°12' W., at 11h 7.9m a.m. local mean time, I make an hour angle observation on Polaris west of the meridian, making four observations, two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from a flag pole about 20 chains N., in a counter clockwise direction to the star.

Watch time of observation (correct 105th Meridian Standard Time)..... 11h 40.7m a.m.

Mean horizontal deflection angle, flag pole to star 1° 10' W.

Azimuth of Polaris at time of observation 1° 10' W.

True bearing to flag pole..... North.

The cor. of Ts. 37 and 38 S., Rs. 12 and 13 W., is an iron post, 3 ins. diam., set, marked, and witnessed as described in the official record of the survey of T. 37 S., R. 12 W., Group 40, Utah.

Thence, from the above cor.

N. 89°45' W., along the S. bdy. of sec. 36, T. 37 S., R. 13 W.

DEPENDENT RESURVEY OF A PORTION SOUTH BDY., T. 37 S., R.

Chains	
	Descend gradual SW. slope of broken mountainous land, through medium dense timber and dense tall undergrowth.
0.20	Small draw, 10 ft. below cor., drains S. 15° W.; ascend gradual SE. slope.
9.00	Top of ascent on rocky S. slope, 110 ft. above draw, bea N. 20° W. and slopes S.; leave timber, bears with top of ascent and descend abrupt SW. slope.
15.40	Draw, 100 ft. below top of ascent, drains S.; ascend abrupt SE. slope.
17.50	Spur, 60 ft. above draw, projects S. 30° E.; descend gradually along steep SW. slope.
19.60	Bottom of main draw, 20 ft. below spur, drains S. 60° E. ascend abrupt NE. slope.
21.65	An improved trail, bears NW. and SE.
40.00	On NE. slope near top of ridge.
	Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 36, with brass cap marked
	¼ S36
	1936
	From this cor., a concrete box, 4 ft. square, 6 ins. dee at small spring, bears N. 15°39' E., 19.92 chs. dist.
	The SW. cor. of a net wire corral, bears N. 20°45' E., 44.40 chs. dist.
40.25	The ¼ sec. cor. sec. 36, a volcanic stone, 14 x 12 x 10 ins. above the ground, firmly set, marked ¼ on N. face. Cor. is witnessed by a large mound of stone to the N. I change this cor. to an angle point by marking the cor. monument AP on its N. face. Cor. is on top of ridge, 390 ft. above main draw, bears N. 65° W. and S. 70° E.
	From the above cor., a small spring in bottom of draw draining S., bears N. 16°30' E., about 20.00 chs. dist.
	Thence; N. 89°36' W., with continuous measurement; descen gradual SW. slope.
41.75	Find no trace of the ¼ sec. cor. sec. 1, T. 38 S., R. 13
43.80	Head of draw, 40 ft. below ridge, drains SE.; continue descent.
55.20	Draw, 60 ft. below ridge, drains S. 30° E.; ascend abrupt SE. slope.
62.80	Enter scattered juniper and pinon timber, bears NE. and SW.
71.50	Draw, 20 ft. deep, drains SE.; continue ascent.
77.50	Ridge, 320 ft. above the draw at the 55.20 chs. point, bears NW. and SE.; descend abrupt SW. slope.
78.00	Head of gulch, 20 ft. below ridge, drains S. 10° W.; ascend abrupt SE. slope.

DEPENDENT RESURVEY OF A PORTION SOUTH BOUNDARY, T. 37 S., R. 13 W.

Chains	
30.00	On abrupt SE. slope, 25 ft. above head of gulch.
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground and in a large mound of stone, for cor. secs. 35 and 36, T. 37 S., R. 13 W., with brass cap marked T37S | R13W S35 | S36 T38S | R13W S1 1936
	A pinon, 10 ins. diam., bears N. 76° E., 29 lks. dist., marked T37S R13W S36 BT. from which
	A scrub pinon, 8 ins. diam., bears N. 74° W., 92 lks. dist., marked S35 BT.
	Land, broken and mountainous with a general southeasterly exposure and drainage. Granite and limestone formation.
	Soil, shallow sand, clay, and rock; 4th rate.
	Undergrowth, oak, service berry, and sage brush.
	Timber, juniper and pinon on portions of mile.
	Fair grazing land.
	N. 89°36' W., along the S. bdy. sec. 35.
	Ascend abrupt SE. slope of broken mountainous land, through scattered timber and dense tall undergrowth.
0.48	The cor. of secs. 35 and 36, T. 37 S., R. 13 W., set during the survey of T. 38 S., R. 13 W. under group 57, Utah, an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of said township. As this cor. becomes an angle point, I efface the sec. marks on the cor. monument and mark same AP.
	Thence; N. 88°32' W., with continuous measurement.
1.70	The corner of sections 1 and 2, T. 38 S., R. 13 W., an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of T. 38 S., R. 13 W., group 57, Utah.
5.60	Spur, 150 ft. above the cor. secs. 35 and 36, projects S. 15° W.; descend abrupt SW. slope.
23.80	Draw, 510 ft. below spur, drains SW.; ascend gradually over steep SE. slope.
27.00	Spur, 40 ft. above draw, projects S. 15° W.; descend abrupt W. slope.
28.30	Draw, 40 ft. below spur, drains S.; ascend abruptly.
30.60	Spur, 30 ft. above draw, projects S. 30° E., 2.00 chs. dist. to end; descend gradually.
31.10	Draw, 30 ft. below spur, drains SE.; ascend abrupt E. slope.
38.20	Spur, 240 ft. above draw, projects S., about 3.50 chs., thence SE.; descend abrupt SW. slope.

DEPENDENT RESURVEY OF A PORTION SOUTH BDY. T. 37 S., R. 13 W.

Chains	
40.01	On steep SW. slope, 30 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground and in a mound of stone, for ¼ sec. cor. sec. 35, with brass cap marked
	¼ S35
	1936
	from which
	A pinon limb, 6 ins. diam., bears N. 69° E., 72 lks. dist., marked ¼ S35 BT.
	A pinon, 6 ins. diam., bears N. 43°30' W., 56 lks. dist., marked ¼ S35 BT.
40.53	The ¼ sec. cor. set for sec. 35 during the progress of the survey of T. 38 S., R. 13 W., under group 57, Utah, which is an iron post, 1 in. diam., set, marked, and witnessed as described in the official record of said survey. I efface the marks on the cor. monument and bearing tree and change the cor. monument to an angle point, by marking same AP.
	Thence; S. 89°28' W., with continuous measurement.
41.00	Draw, 30 ft. below the ¼ sec. cor. sec. 35, drains SE.; ascend abrupt NE. slope.
42.83	The ¼ sec. cor. sec. 2, an iron post, 1 in. diam., set, marked, and witnessed as described in the official record of the survey of T. 38 S., R. 13 W., group 57, Utah.
53.50	Ridge, 260 ft. above draw, bears N. 15°E., and S. 15° W.; descend abrupt broken SW.
80.01	On broken SW. slope, 640 ft. below ridge.
	Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock and in a large mound of stone, for cor. secs. 34 and 35, T. 37 S., R. 13 W., with brass cap marked

T37S S34	R13W S35
T38S S2	R13W

1936

I take bearings and distances to the bearing trees taken to the cor. of secs. 35 and 36, during the survey of T. 38 S., R. 13 W., as follows.

A juniper, 9 ins. diam., bears N. 77°15' E., 131 lks. dist., marked T37S R13W S35 BT.

A juniper, 5 ins. diam., bears N. 86° W., 114 lks. dist., marked T37S R13W S34 BT.

Land, broken and mountainous, with a general southerly exposure and drainage. Limestone and granite formation.

Soil, shallow sand and clay, mixed with rock; 4th rate.

Undergrowth, sage, service berry, and oak brush.

DEPENDENT RESURVEY OF A PORTION SOUTH BDY., T. 37 S., R. 13 W.

Chains	
	Timber, scrub juniper and pinon.
	Fair grazing land.
	S. 89°28' W., along the S. bdy. sec. 34.
	Descend abrupt SW. slope of broken mountainous land, through scattered timber and dense tall undergrowth.
0.47	The cor. of secs. 34 and 35, T. 37 S., R. 13 W., set during the survey of T. 38 S., R. 13 W., group 57, Utah, an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of said township. I efface the sec. marks on the cor. monument and change it to an angle point by marking same AP.
	Thence; S. 89°35' W., with continuous measurement.
2.12	The cor. of secs. 2 and 3, T. 38 S., R. 13 W., an iron post, 2 ins. diam., set, marked, and witnessed as described in the offical record of the survey of T. 38 S., R. 13 W., group 57, Utah.
3.50	Small stream, 1 lk. wide, 1 in. deep, in bottom of draw, 70 ft. below cor. secs. 34 and 35, flows S. 30° W.; ascend abrupt SE. slope.
8.00	Spur, 70 ft. above draw, projects S. 20° W., about 5.50 chs. dist. to end; descend steep SW. slope.
13.00	Draw, 60 ft. below spur, drains S. 60° E.; ascend abrupt broken E. slope.
33.00	Spur, 600 ft. above draw, projects S. 10° E.; descend gradually along steep S. slope.
40.00	On steep S. slope, 20 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 34, with brass cap marked
	¼ S34
	1936
	from which
	A mahogany, 4 ins. diam., bears N. 83°30' E., 149 lks. dist., marked ¼ S34 BT.
	A mahogany, 5 ins. diam., bears N. 81°30' W., 287 lks. dist., marked ¼ S34 BT.
40.40	Slope changes from a steep S. slope to a gradual SW. slope.
41.32	The ¼ sec. cor. set for sec. 34 during the survey of T. 38 S., R. 13 W. group 57, Utah, an iron post, 1 in. diam., set, marked, and witnessed as described in the offical record of the survey of said township. As this cor. now becomes an angle point, I efface the sec. marks on the corner monument and mark same AP.
	Continue on same line with continuous measurement.

DEPENDENT RESURVEY OF A PORTION SOUTH BDY., T. 37 S., R. 13 W.

Chains	
43.24	The ¼ sec. cor. sec. 3, T. 38 S., R. 13 W., an iron post, 1 in. diam., set, marked, and witnessed as described in the official record of the survey of T. 38 S., R. 13 W., group 57, Utah.
51.40	Gulch, 180 ft. below the ¼ sec. cor. sec. 34, drains SE.; ascend abrupt E. slope over small volcanic ledges.
62.90	Ridge, 350 ft. above gulch, bears N. and S. 10° W.; from this point, a mound of stone, bears N. 40°50' W., about 30.00 chs. dist.; descend abrupt W. slope.
68.00	Slope changes from an abrupt W. slope to a gradual SW. slope.
81.81	The cor. of secs. 33 and 34, T. 37 S., R. 13 W., an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of T. 38 S., R. 13 W., group 57, Utah.
	Land, broken and mountainous, with a general southerly exposure and drainage. Limestone, granite, and volcanic formation.
	Soil, shallow clay and sand, mixed with rock; 4th rate.
	Undergrowth, sage, oak, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.

DEPENDENT RESURVEY PORTION NORTH BDY., T. 37 S., R. 13 W.

Reestablishment of surveys executed by A.J. Stewart, Jr., U.S. Deputy Surveyor in 1870, and resurveyed by A.D. Ferron, U.S. Deputy Surveyor, in 1911.

July 26, 1936: Stationed at the cor. of secs. 1, 2, 35, and 36, on the N. bdy. of T. 37 S., R. 13 W., in approximate latitude 37°38' N., longitude 113°13' W., at 8h 22.7m a.m. local mean time, with instrument No. 14191, we make an hour angle observation on Polaris west of the meridian, making four observations, two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from a flag pole about 40.00 chs. N., in a counter clockwise direction to the star.

Watch time of observation (correct 105th Meridian Standard Time) ..... 8h 55.6m a.m.

Mean horizontal angle, flag pole to star 0° 56' W.

Azimuth of Polaris at time of observation 0° 56' W.

True bearing to flag pole, North.

The cor. of secs. 1, 2, 35, and 36, is a stationary volcanic stone, 4 x 4 x 2½ ft. above ground, marked X on its top face, and 5 grooves to the W. and 1 groove to the E. of the cross (X). Cor. is witnessed by bearing trees as follows.

A juniper, 10 ins. diam., bears N. 64° E., 40 lks. dist., marked T36S R13W S36 BT.

DEPENDENT RESURVEY OF A PORTION NORTH BDY., T. 37 S., R. 13 W.

Chains	
	A juniper, 9 ins. diam., bears N. 40° W., 31 lks. dist., marked T37S R13W S35 BT.
	Thence, from the above cor.
	S. 89°53' W., along the S. bdy. sec. 35, T. 36 S., R. 13 W.
	Ascend gradually along broken N. slope of rough mountainous land, through dense timber and undergrowth.
2.00	Ridge, 10 ft. above cor., bears N. and S. 10° E.; descend gradually over broken W. slope.
18.50	Draw, 140 ft. below ridge, drains SE.; ascend steep E. slope.
39.51	The cor. originally set for the ¼ sec. cor. secs. 2 and 35, a volcanic stone, 16 x 10 x 6 ins. above ground, firmly set, marked ¼ on N. face. Cor. is witnessed by a mound of stone around the cor. monument and one bearing tree as follows.
	A juniper, 6 ins. diam., bears N. 49° W., 51 lks. dist., marked ¼ S35 BT.
	This cor. now refers only to the ¼ sec. cor. sec. 35, T. 36 S., R. 13 W.
	Thence; S. 89°47' W., with continuous measurement.
39.96	Point midway bet. the cor. of secs. 1, 2, 35, and 36, and the closing cor. secs. 2 and 3.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 2, T. 37 S., R. 13 W., with brass cap marked
	¼ S2
	1936
	from which
	A pinon, 5 ins. diam., bears S. 28°15' E., 58 lks. dist., marked ¼ S2 BT.
	A juniper, 10 ins. diam., bears S. 68° W., 79 lks. dist., marked ¼ S2 BT.
54.20	Ridge, 300 ft. above draw, bears N. and S.; descend steep W. slope.
67.60	Draw, 230 ft. below ridge, drains NW.; ascend gradual NE. slope.
73.50	Low spur, 30 ft. above draw, projects NW.; descend gradual W. slope.
78.95	On gradual W. slope, 50 ft. below spur; the cor. set originally for secs. 2, 3, 34, and 35, a quartzite, 6 x 6 x 6 ins. above ground, firmly set, marked 4 notches on W. edge and 2 notches on E. edge. Cor. is witnessed by bearing trees as follows.
	A pinon, 18 ins. diam., bears N. 35° E., 69 lks. dist., marked T36S R13W S35 BT.
	A juniper, 8 ins. diam., bears N. 24° W., 28 lks. dist., marked T36S R13W S34 BT.
	This cor. now refers only to secs. 34 and 35, T. 36 S.,

DEPENDENT RESURVEY OF A PORTION NORTH BDY., T. 36 S., R. 13 W.

Chains R. 13 W.

Land, broken and mountainous, with a general southeasterly and northwesterly exposure and drainage. Limestone and granite formation.

Undergrowth, sage, oak, service berry, buck, and bitter brush.

Timber, juniper and pinon.

Fair grazing land.

N. 89°50' W., along the S. bdy. sec. 34.

Descend gradual W. slope of rolling mountainous land, through dense timber and undergrowth.

[illegible].97 The closing cor. secs. 2 and 3, subsequently set at this pt

14.[illegible]0 Draw, 20 ft. below cor., drains N.; ascend gradual NE. slope.

15.90 Low spur, projects N. 10° E., about 5.00 chs. dist. to end; descend gradual SW. slope.

17.[illegible] Draw, 20 ft. below spur, drains N.; ascend gradual E. slope.

24.70 Spur, 50 ft. above draw, projects N. 20° E.; descend gradual W. slope.

40.59 The ¼ sec. cor. originally set for secs. 3 and 34, a quartzite, 10 x 9 x 6 ins. aboveground, firmly set, marked ¼ SC on N. face. Cor. is witnessed by one bearing tree as follows.

A juniper, 6 ins. diam., bears N. 9°40' E., 219 lks. dist., marked ¼ S34 BT.

This cor. now will function only for the ¼ sec. cor. sec. 34, T. 36 S., R. 13 W.

Thence; N. 89°58' W., with continuous measurement.

41.03 Point midway bet. the closing cors. of secs. 2 and 3, and secs. 3 and 4.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor. sec. 3, with brass cap marked

¼ S3

1936

from which

A juniper, 6 ins. diam., bears S. 5°15' E., 72 lks. dist., marked ¼ S3 BT.

A juniper, 12 ins. diam., bears S. 69°30' W., 101 lks. dist., marked BT. Tree too scrubby for other marks.

57.90 Small rise, 70 ft. above the ¼ sec. cor. sec. 34, bears NE. and S.; descend gradual W. slope.

66.90 Small draw, 50 ft. below rise, drains NE.; ascend gradual E. slope.

76.00 Low spur, 60 ft. above draw, projects N.; descend gradual

Chains	
	W. slope
80.56	The cor. originally set for secs. 3, 4, 33, and 34, a limestone, 10x5x5 ins., above ground, firmly set, marked 3 notches on E. and W. edges. Corner is witnessed by two bearing trees as follows: A pinon, 6 ins. diam., bears N.60°E. 34 lks. dist., marked T36S R13W S34 BT A pinon, 12 ins. diam., bears N.88°W. 10 lks. dist., marked T36S R13W S33 BT This corner now only functions for the cor. of secs. 33 and 34, T. 36 S., R. 13 W. Land, rolling and mountainous, with a general northerly exposure and drainage. Quartzite and limestone formation. Soil, shallow sand and clay, mixed with rock; 4th rate. Undergrowth, sage, oak, service berry, and bitter brush. Timber, juniper and pinon. Fair grazing land.
	N.89°46'W., along the S. bdy. sec. 33. Over rolling mountainous land, through dense timber and undergrowth.
0.53	The closing cor. of secs. 3 and 4, T. 37 S., R. 13 W., subsequently set at this point
2.20	Wash, 30 lks. wide, 20 ft. deep, drains N.
3.00	Wash, 20 lks. wide, 20 ft. deep, drains N.
6.20	Large main wash, 30 lks. wide, 20 ft. deep, in large draw, drains NE.; ascend steep NE. slope.
14.40	Spur, 20 ft. above draw, projects N.; a saddle in top of spur, bears North, 4.00 chs. dist.; descend gradual NW. slope.
26.00	Enter rolling bottom land of wide draw, bears N. and S.
29.40	Unimproved road, bears N.30°E. and S.10°W.
32.10	Wash, 60 lks. wide, 15 ft. deep, in bottom of wide draw, 130 ft. below spur, drains N.; ascend gradual SE. slope.
39.81	The ¼ sec. cor. set by A. D. Ferron, in 1911, at the original point for the ¼ sec. cor. of secs. 4 and 33, as surveyed by A. J. Stewart, Jr., in 1873, a limestone, 8x6x5 ins. above ground, firmly set, marked ¼ on N. face. Corner is witnessed by one bearing tree, as follows: A juniper, 14 ins. diam., bears N.42°E., 29 lks. dist., marked ¼ S BT A juniper, 12 ins. diam., bears S.70°W., 64 lks. dist., marked ¼ S4 BT At the cor. point, on gradual SE. slope, 40 ft. above draw, Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in

Chains

the ground, with the old cor. monument deposited at the base of the post, for ¼ sec. cor. of secs. 33 and 4, T. 36 S., R. 13 W., with brass cap marked

¼ S33
S4
1936

I mark an additional bearing tree to cor. as follows:

A juniper, 8 ins. diam., bears N.75°30'W., 92 lks. dist., marked ¼ S33 BT

Continue on same line with continuous measurement.

57.10 Ridge, 50 ft. above draw, bears N.60°E. and S.60°W.; descend gradual W. slope.

76.80 Base of descent, 140 ft. below ridge, bears N. and S.; ascend gradually.

81.00 Top of ascent, 20 ft. above base of descent, bears N. and S.; descend gradually over W. slope.

84.11 The cor. of secs. 4, 5, 32, and 33, a limestone, 17x9x5 ins. above ground, firmly set, marked 4 notches on E. edge, and 2 notches on W. edge. Cor. is witnessed by three bearing trees, as follows:

A juniper, 4 ins. diam., bears N.42°E., 25 lks. dist., marked T36S R13W S33 BT

A juniper, 5 ins. diam., bears S.18°E., 48 lks. dist., marked T37S R13W S4 BT

A juniper, 10 ins. diam., bears N.35°30'W., 158 lks. dist., marked T36S R13W S32 BT.

At the cor. point, on gradual NW. slope, 30 ft. below top of ascent

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, and in a mound of stone, with the original cor. monument deposited at the base of the post, for cor. of secs. 4, 5, 32, and 33, with brass cap marked

T36S R13W
S32 | S33
S5 | S4
T37S
1936

No suitable bearing tree in sec. 5 available.

DEPENDENT RESURVEY OF A PORTION NORTH BDY., T. 37 S., R. 13 W.

Chains

Land, rolling and mountainous, with a general northerly exposure and drainage. Limestone and quartzite formation.

Soil, shallow sand and clay, mixed with rock; 4th rate.

Undergrowth, service berry, sage, oak, and bitter brush.

Timber, juniper and pinon.

Fair grazing land.

DEPENDENT RESURVEY OF A PORTION WEST BDY., T. 37 S., R.13W.

Reestablishment of surveys executed by
A.J. Stewart, Jr., U.S. Deputy Surveyor,
in 1870.

The cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the township, is a granite, 30 x 12 x 9 ins. above ground, firmly set, marked 5 notches on N. edge and 1 notch on S. edge. Cor. is witnessed by three bearing trees as follows.

A pinon, 12 ins. diam., bears N. 87°15' E., 142 lks. dist., upon which I find dim scribe marks . I mark this tree T37S R13W S30 BT.

A pinon, 18 ins. diam., bears S. 72° W., 167 lks. dist., upon which I find dim scribe marks. I mark this tree T37S R14W S36 BT.

A pinon, 24 ins. diam., bears N. 48° W., 142 lks. dist., upon which I find dim scribe marks. I mark this tree T37S R14W S25 BT.

No trace of the bearing tree in sec. 31 could be found.

At the cor. point:

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with the original cor. monument deposited at the base of the post, for cor. secs. 25, 30, 31, and 36, with brass cap marked

T37S

R14W	R13W
S25	S30
S36	S31

1936

I mark an additional bearing tree to cor. as follows.

A pinon, 10 ins. diam., bears S. 50° E., 62 lks. dist., marked T37S R13W S31 BT.

Thence, from the above cor.

North, bet. secs. 25 and 30.

Ascend gradual S. slope of broken mountainous land, through scattered timber and dense undergrowth.

4.20 Low spur, 20 ft. above cor., projects N., 3.00 chs. dist. to end; descand gradual NW. slope.

7.50 Draw, 40 ft. below spur, drains S. 20° W.; ascend gradual SW. slope.

DEPENDENT RESURVEY OF A PORTION WEST BDY., T. 37 S., R. 13 W.

Chains	
9.10	Improved road, bears S. 10° W. to Enterprise, Utah, and N. 10° E. to New Harmony, Utah.
20.00	Spur, 80 ft. above draw, projects SW.; descend gradual N. slope.
24.80	Head of draw, 30 ft. below spur, drains W.; ascend steep rocky S. slope.
32.70	Slope changes from a steep rocky S. slope to a steep rocky SE. slope.
40.00	Find no trace of the ¼ sec. cor. secs. 25 and 30.

On steep SE. slope of surface rock, 220 ft. above head of draw, mark a cross (X), over which:

Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for the restored ¼ sec. cor. secs. 25 and 30, with brass cap marked

¼
S25 | S30

1936

from which

A pinon, 12 ins. diam., bears S. 26°15' E., 54 lks. dist., marked ¼ S30 BT.

A pinon, 18 ins. diam., bears N. 59° W., 43 lks. dist., marked ¼ S25 BT.

Land, mountainous, with a general southerly exposure and drainage.

Soil, loose sand and rock; 4th rate.

Undergrowth, sage, service berry, oak, and bitter brush.

Timber, juniper and pinon.

Fair grazing land.

The cor. of secs. 7, 12, 13, and 18, on the W. bdy. of the township, is a volcanic stone, 15 x 13 x 4 ins., lying in a mound of stone, marked 2 notches on one edge and 4 notches on the opposite edge. Cor. has no accessorie

At the cor. point:

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, with the original cor. monument deposited at the base of the post, for cor. of secs. 7, 12, 13, and 18, with brass cap marked

T37S
R14W | R13W
S12 | S7
S13 | S18

1936

from which

DEPENDENT RESURVEY OF A PORTION WEST BOUNDARY, T. 37 S., R. 13 W.

Chains	
	A pinon, 6 ins. diam., bears N. 60° E., 95 lks. dist., marked S7 BT. Tree too scrubby for other marks.
	A pinon, 6 ins. diam., bears S. 10° W., 123 lks. dist., marked T37S R14W S13 BT.
	A pinon, 4 ins. diam., bears N. 62° W., 104 lks. dist., marked S12 BT. Tree too scrubby for other marks.
	No suitable bearing tree available. in sec. 18.
	Thence; from the above cor.
	North, bet. secs. 7 and 12.
	Descend abrupt N. slopeof broken mountainous land, through scattered timber and undergrowth.
6.40	Draw, 90 ft. below cor., drains N. 60° E.; ascend abrupt S. slope.
10.20	Spur, 70 ft. above draw, projects E.; descend gradual NE. slope.
19.40	Stock trail, bears N. 60° W. and S. 60° E.
41.11	Proportionate point; find no trace of the ¼ sec. cor. secs. 7 and 12.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for the restored ¼ sec. cor. secs. 7 and 12, with brass cap marked
	S12 | S7 1936
	from which
	A juniper, 10 ins. diam., bears N. 12°15' E., 44 lks. dist., marked ¼ S7 BT.
	A juniper, 10 ins. diam., bears S. 40° W., 32 lks. dist., marked ¼ S12 BT.
	Cor. set. on NW. slope, 170 ft. below spur.
50.70	Spur, 180 ft. below the ¼ sec. cor., projects N. 30° E.; thence along W. slope of spur.
59.70	Top of same spur, projects N. and bears S. 25° E.; thence along top of spur.
64.40	Leave top of spur, projects N. 15° W.; thence along E. slope of spur.
75.20	Top of same spur, projects N. and bears S. 15° W.
80.50	Four wire fence, bears E. and W.
82.22	The cor. of secs. 1, 6, 7, and 12, a conglmmerate stone, 20 x 13 x 5 ins. above ground, firmly set, marked 5 notches on S. edge and 1 notch on N. edge. Cor. is witnessed by four bearing trees as follows.
	A juniper, 16 ins. diam., bears N. 70°30' E., 59 lks. dist., marked T37S R13W S6 BT.

DEPENDENT RESURVEY OF A PORTION WEST BDY., T. 37 S., R. 13 W.

Chains	
	A pinon, 15 ins. diam., bears S. 75°15' E., 36 lks. dist., marked T37S R13W S7 BT.
	A pinon, 14 ins. diam., bears S. 55° W., 41 lks. dist., marked T37S R13W S12 BT.
	A juniper, 15 ins. diam., bears N. 32°30' W., 18 lks. dist., marked T37S R13W S1 BT.
	At the cor. point, on top of spur, 180 ft. below the ¼ sec. cor., projects N.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, with the original cor. monument deposited at the base of the post, for cor. secs. 1, 6, 7, and 12, with brass cap marked

T37S
R14W | R13W
S1 | S6
S12 | S7

1936

	Land, broken and mountainous, with a general northerly exposure and drainage. Limestone and quartzite formation.
	Soil, shallow sand, clay, and rock; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.

SURVEY OF A PORTION WEST BOUNDARY, T. 37 S., R. 13 W.

	From the ¼ sec. cor. secs. 25 and 30, on the W. bdy. of the township, heretofore described.
	North, on random line along the W. bdy. of the township, and at:
204.61	Fall 1.39 chs. E. of the cor. secs. 7, 12, 13, and 18, heretofore described.
	The course of the line from the ¼ sec. cor. secs. 25 and 30, to the cor. secs. 7, 12, 13, and 18, therefore is, N. 0°23' W., and the distance is 204.61 chs.
	Thence, from the ¼ sec. cor. secs. 25 and 30.
	N. 0°23' W., on true line, along the E. bdy. sec. 25.
	Ascend steep SE. slope of broken mountainous land, through scattered timber and dense undergrowth.
8.00	Top of divide ridge, 150 ft. above the ¼ sec. cor., bears N. 80° W. and SE.; descend steep NE. slope.
18.70	Recross top of ridge, bears N. 10° E. and S. 30° W., 190 ft. below last crossing; thence along W. slope of ridge.
30.80	Bend in top of same ridge, 120 ft. below last crossing, bears E. and S. 10° E.; descend gradual NW. slope.

Chains	
35.00	Draw, 110 ft. below ridge, drains SW. from the E.; ascend steep S. slope,
38.81	The closing cor. of secs. 19 and 30, subsequently set at this point.
40.00	On steep S. slope, 130 ft. above draw.
	Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground to solid rock and in a large mound of stone, for cor. secs. 24 and 25, T. 37 S., R. 14 W., with brass cap marked

T37S S24	T37S R13W
S25 R14W	S19

1936

from which

A juniper, 20 ins. diam., bears S. 51°30' W., 14 lks. dist., marked T37S R14W S25 BT.

A pinon, 8 ins. diam., bears N. 26° W., 145 lks. dist., marked T37S R14W S24 BT.

Land, broken and mountainous, with a general southwesterly and southeasterly exposure and drainage. Limestone and granite formation.

Soil, shallow clay and sand, with a rocky surface; 4th rate.

Undergrowth, manzanita, mahogany, sage, oak, service berry and buck brush.

Timber, juniper and pinon.

Fair grazing land.

	N. 0°23' W., along the E. bdy. sec. 24.
	Ascend steep S. and SW. slopes of broken mountainous land, through dense undergrowth and scattered timber.
1.60	Spur, 25 ft. above cor., projects S. 70° W., 5.00 chs. dist., thence S.; descend steep NW. slope.
12.60	Draw, 110 ft. below spur, drains S. 30° W.; ascend gradual S. slope.
23.50	Draw, drains S. 10° W.; thence ascend steep S. slope.
31.50	Spur, 230 ft. above the draw at the 12.60 chs. point, projects W., 2.00 chs. dist. to end; descend steep N. slope.
33.30	Draw, 60 ft. below spur, drains W. from the NE.; ascend broken SW. slope.
35.80	Point which is a southing of 40.00 chs. from the closing cor. secs. 18 and 19.
	On broken SW. slope, 60 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor. sec. 19, with brass cap marked

¼ S19

1936

from which

A pinon, 14 ins. diam., bears N. 62°30' E., 178 lks. dist., marked ¼ S19 BT.

A pinon, 3 ins. diam., bears S. 89°30' E., 84 lks. dist., marked ¼ S19 BT.

40.00 On broken SW. slope, 20 ft. above the ¼ sec. cor. sec. 19.

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 24, with brass cap marked

¼ S24

1936

from which

A pinon, 8 ins., diam., bears S. 39°30' W., 53 lks. dist., marked ¼ S24 BT.

A pinon, 14 ins. diam., bears N. 66°30' W., 61 lks. dist., marked ¼ S24 BT.

50.50 Granite spur, 100 ft. above the ¼ sec. cor. sec. 24, projects SW.; descend gradually along W. slope.

60.10 Draw, 50 ft. below spur, drains W.; ascend steep S. slope.

68.60 Slope changes from a steep S. slope to a steep SW. slope.

74.60 Spur, 350 ft. above draw, projects S. 85° W.; descend along steep W. slope.

75.80 The closing cor. secs. 18 and 19 subsequently set at this point.

80.00 On steep W. slope, 70 ft. below spur.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. secs. 13 and 24, T. 37 S., R. 14 W., with brass cap marked

T37S S13	T37S R13W
S24 R14W	S18

1936

from which

A mahogany, 12 ins. diam., bears S. 10° W., 170 lks. dist., marked T37S R14W S24 BT.

A mahogany, 6 ins. diam., bears N. 73°45' W., 70 lks. dist., marked T37S. R14W S13 BT.

Land, broken and mountainous, with a general southwesterly exposure and drainage. Limestone and granite formation.

SURVEY OF A PORTION WEST BDY., T. 37 S., R. 13 W.

Chains	
	Soil, shallow sand and clay, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	N. 0°23' W., along the E. bdy. sec. 13.
	Descend along steep W. slope of broken mountainous land, through scattered timber and dense undergrowth.
4.70	Draw, 80 ft. below cor., drains SW.; ascend steep SW. slope.
21.60	Rocky granite ledge, projects W., 2.00 chs. dist. to end.
24.60	Head of draw, drains S. 10° W.; ascend steep SW. slope.
29.50	Ridge, 630 ft. above the draw at the 4.70 chs. point, bears SW. and NE.; descend gradually along W. slope.
32.30	Spur, 20 ft. below ridge, projects NW.; enter clumps of dense balsam timber, bears E. and W.; descend steep NE. slope.
35.80	Point which is a northing of 40.00 chs. from the closing cor. secs. 18 and 19.
	On steep NE. slope, 190 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a large mound of stone to top, for ¼ sec. cor. sec. 18, with brass cap marked
	¼ S18 | 1936
	from which
	A mahogany, 6 ins. diam., bears N. 47° E., 20 lks. dist., marked ¼ S18 BT.
	A balsam, 12 ins. diam., bears S. 81°30' E., 138 lks. dist., marked ¼ S18 BT.
	Thence descend steep NW. slope.
40.00	On steep NW. slope, 60 ft. below the ¼ sec. cor. sec. 18.
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 13, with brass cap marked
	¼ S13 | 1936
	from which
	A balsam, 8 ins. diam., bears S. 55°30' W., 41 lks. dist., marked ¼ S13 BT.
	A balsam, 10 ins. diam., bears N. 47° W., 63 lks. dist., marked ¼ S13 BT.

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SURVEY OF A PORTION WEST BDY., T. 37 S., R. 13 W.

Chains	
49.60	Draw, 410 ft. below the ¼ sec. cor. sec. 13, drains NE.; descend gradually along E. slope; through scattered juniper and pinon timber, bears E. and W.
75.80	Point which is a northing of 80.00 chs. from the closing cor. secs. 18 and 19.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for cor. lots 4 and 5, sec. 18, with brass cap marked L4 S18 L5 1936 from which
	A juniper, 4 ins. diam., bears N. 29°15' E., 278 lks. dist., marked L4 S18 BT. No other suitable bearing tree available.
76.40	Spur, 590 ft. below draw, projects NE.; descend gradually.
79.15	Old road, bears N. 30° W. and S. 30° E.
84.61	The cor. secs. 7, 12, 13, and 18, 120 ft. below spur, heretofore described.
	Land, rough and mountainous, with a general northerly and southerly exposure and drainage. Soil, shallow clay and sand, with a rocky surface; 4th rat Undergrowth, manzanita, mahogany, sage, oak, and service berry brush. Timber, juniper and balsam. Fair grazing land.

DEPENDENT RESURVEY PORTION SUBDIVISION, T. 37 S., R. 13 W.

Reestablishment of surveys executed by
A.J. Stewart, Jr., U.S. Deputy Surveyor
in 1873.

From the cor. of secs. 33 and 34, on the S. bdy. of the township, heretofore described.

N. 0°39' W.; bet. secs. 33 and 34.

Descend gradual NW. slope of rolling mountainous land, through scattered timber and dense undergrowth.

3.80	Draw, 20 ft. below cor., drains SW.; ascend abrupt SE. slope.
6.30	Old road, bears NE. and SW.
22.50	Ridge, 310 ft. above cor., bears S. 80° E. and W., 75 lks. to top of peak. From peak, ridge bears N. 10° E. and a spur projects S. 15° W.; from this point on line, a large mound of stone, bears N. 77°30' W., 77 lks. dist.; descend gradual NE. slope.
27.90	Saddle in ridge, 75 ft. below last crossing, bears N. 35° E. and S. 20° W.; descend gradually along broken W. slope.
40.00	Find no trace of the ¼ sec. cor. secs. 33 and 34.
	At base of descent, 50 ft. below saddle in ridge, mark a cross (X) on the surface rock, over which:

DEPENDENT RESURVEY PORTION SUBDIVISION, T. 37 S., R. 13 W.

Chains

Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for the restored ¼ sec. cor. secs. 33 and 34, with brass cap marked

¼

S33 | S34

1936

from which

A juniper, 6 ins. diam., bears N. 75° E., 25 lks. dist., marked ¼ S34 BT.

A pinon, 6 ins. diam., bears N. 35° W., 57 lks. dist., marked ¼ S33 BT.

Thence ascend gradual SW. slope.

48.70 Top of ascent, 50 ft. above cor., bears E. and W.; descend steep NW. slope.

51.60 Slope changes from a NW. slope to a steep W. slope.

55.50 Ridge, bears NE., and slopes SW. to saddle; descend steep N. slope.

80.00 Find no trace of the cor. originally set for secs. 27, 28, 33, and 34., therefore, at record distance from the cors. of secs. 33 and 34, and secs. 28, 29, 32, and 33.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for therestored cor. of secs. 27, 28, 33, and 34, with brass cap marked

T37S | R13W
S28 | S27

S33. | S34

1936

raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Cor. set on steep N. slope, 140 ft. below ridge.

From the above restored cor., the cor. of secs. 28, 29, 32, and 33, bears N. 88°34' W., 80.53 chs. dist. Cor. is a volcanic stone, 14 x 9 x 5 ins., lying on the ground, marked 5 grooves on one face and 1 groove on opposite face. Cor. is witnessed by bearing trees as follows.

A juniper limb, 18 ins. diam., bears N. 49° E., 128 lks. dist., marked T37S R13W S28 BT.

A juniper, 30 ins. diam., bears S. 37° E., 140 lks. dist., marked T37S, R13W S33 BT.

A juniper, 18 ins. diam., bears S. 2° W., 115 lks. dist., marked T37S. R13W S32 BT.

No bearing tree in sec. 29 could be found.

At the cor. point:

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with the original cor. monument deposited at the base of the post, for cor. secs. 28, 29, 32, and 33, with

Chains

brass cap marked

T37S	R13W
S29	S28
S32	S33

1936

Land, broken and mountainous, with a general southwesterly exposure and drainage. Limestone and granite formation.

Soil, shallow clay and sand, mixed with rock; 4th rate.

Undergrowth, sage, oak, service berry, bitter brush, and manzanita.

Timber, scrub juniper and pinon.

Fair grazing land.

N. 0°10' W., bet. secs. 27 and 28.

Descend abrupt NE. slope of broken mountainous land, throug dense undergrowth.

3.50 Draw, 90 ft. below cor., drains NW.; ascend abrupt SW. slope.

5.80 Spur, 70 ft. above draw, projects W., about 4.00 chs. dist. to end; descend abrupt N. slope.

8.90 Draw, 80 ft. below spur, drains SW.; ascend abrupt S. slope

10.50 Ascent becomes gradual, bears N. 60° E. and S. 60° W.

13.50 Rolling top of spur, 120 ft. above draw, projects SW.; descend gradual NW. slope.

24.00 Draw, 50 ft. below spur, drains SW.; ascend gradually over general rolling SW. slope.

40.00 Record distance, find no trace of the ¼ sec. cor. secs. 27 and 28; on gradual SW. slope, 180 ft. above draw.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for the restored ¼ sec. cor. secs. 27 and 28, with brass cap marked

¼

S28 | S27

1936

raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

From the above cor., a Forest Service fence, bearing N. and S., bears West, 20 lks. dist.

44.70 Top of the NW. point of a red limestone ledge bearing S. 35° E.

47.00 Top of ascent on NW. point of spur, 100 ft. above the ¼ sec. cor., slopes NW., 1.00 chs. to end, and bears S. 75° E.; descend steep NW. slope.

DEPENDENT RESURVEY PORTION SUBDIVISION, T. 37 S., R.13 W.

Chains	
48.00	Draw, 10 ft. below spur, drains S. 35° W. from the E.; ascend abrupt S. slope.
56.50	Slope changes from an abrupt S. slope to a gradual SW. slope.
61.70	Forest Service barbed wire fence, bears N. 11° E. and S. 8° W.
65.50	Ascent becomes abrupt, bears N. 70° W. and S. 70° E.
67.15	Trail, bears northerly from the SE.
69.80	Leave trail, bears easterly from the S.
73.80	Ascent becomes gradual, bears NW. and SE.
75.15	Trail, bears NW., and SE. 2.00 chs. to Forest Service fence bearing northerly and southerly.
80.00	Find no trace of the cor. originally set for secs. 21, 22, 27, and 28, therefore at record distances from the cors. of secs. 28, 28, 33 and 34, and secs. 20, 21, 28, and 29, on gradual SW. slope of small terrace, 540 ft. above draw, in dense brush.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for cor. of secs. 27 and 28, with brass cap marked

T37S R13W
S21
S28 | S27
1936

	limestone, 9 x 9 x 8 ins., at base of post, deposit a marked X.
	Land, broken and mountainous, with a general southwesterly exposure and drainage.
	No timber.
	Soil, shallow sand and clay, with a rocky surface; 4th rate.
	Undergrowth, tall sage, oak, service berry, bitter brush, and manzanita.
	Fair grazing land.
	N. 87°37' W., along the N. bdy. sec. 28.
	Descend gradual W. slope of broken mountainous land, through dense tall undergrowth.
5.05	Trail, bears N. and S.
23.50	Slope changes from an abrupt W. slope to a gradual SW. slope.
28.90	Bottom of wide hollow, 510 ft. below cor., drains S. 30°E.; ascend gradual E. slope.
36.73	Point midway bet. the cor. of secs. 21 and 22, and the closing cor. of secs. 20 and 21.

DEPENDENT RESURVEY PORTION SUBDIVISION, T. 37 S., R. 13 W.

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor. sec. 21, with brass cap marked ¼ S21 1936 raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
37.80	Ridge, 60 ft. above hollow, bears N. and S.; descend abrupt NW. slope.
40.08	Find no trace of the ¼ sec. cor. originally set for secs. 21 and 28. Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor. sec. 28, with brass cap marked ¼ S28 1936 raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Cor. set on NW. slope, 30 ft. below ridge.
48.80	Bottom of canyon, 330 ft. below the ¼ sec. cor. sec. 28, drains SW.; ascend abrupt SE. slope.
58.30	Steep spur, 320 ft. above canyon, slopes S. 25° W.; descend abrupt SW. slope through dense undergrowth and scattered timber.
67.50	Spur, 190 ft. below last spur, projects SW.; descend abrupt NW. slope.
74.10	Draw, 160 ft. below spur, drains S. 70° W.; descend gradually along steep S. slope.
76.50	White limestone spur, 20 ft. below draw, slopes S. 60° W.; descend abrupt NW. slope.
76.79	The closing cor. secs. 20 and 21, subsequently set at this point.
80.17	The cor. originally set for secs. 20, 21, 28, and 29, a granite, 12 x 12 x 10 ins. above ground, firmly set, marked 4 notches on E. edge and 2 notches on S. edge. Cor. is witnessed by one bearing tree as follows. A juniper limb; 8 ins. diam., bears S. 48°30' W., 109 lks. dist., marked T37S R13W S29 BT. At the cor. point, on top of spur, slopes SW. Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with the original cor. monument deposited at the base of the post; for cor. secs. 28 and 29, with brass cap marked T37S R13W S20 S29 | S28 1936

DEPENDENT RESURVEY PORTION SUBDIVISION, T. 37 S., R. 13 W.

Chains	
	I mark an additional bearing tree to cor. as follows.
	A juniper, 6 ins. diam., bears S. 77°30' E., 46 lks. dist., marked S28 BT. Tree too scrubby for other marks.
	Land, broken and mountainous with a general southerly exposure and drainage. Limestone and granite formation.
	Soil, shallow clay and sand, mixed with rock; 4th rate.
	Undergrowth, sage, oak, service berry, bitter, and buck brush.
	Timber, scattered juniper and pinon on W. portion of mile.
	Fair grazing land.
	S. 89°59' W., along the N. bdy. sec. 29.
	Descend gradually along broken S. slope of mountainous land, through dense undergrowth and scattered timber.
3.40	Low spur, projects SW.
12.10	Stream of good water, 1 lk. wide, 2 ins. deep, in bottom of canyon, 140 ft. below cor., flows S.; ascend abrupt E. slope.
31.00	Slope changes from an abrupt E. slope to a gradual SE. slope.
35.00	Head of draw, 20 ft. deep, drains S. 30° E.; thence ascend abrupt NE. slope.
36.62	Point which is a westing of 40.00 chs. from the closing cor. of secs. 20 and 21.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 20, with brass cap marked ¼ S20 1936 deposit a volcanic stone, 12 x 8 x 4 ins., at base of post, marked X.
37.70	Ascent becomes more abrupt, bears NW. and SE.
40.23	Find no trace of the ¼ sec. cor. secs. 20 and 29; at proportionate point:
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor. sec. 29, with brass cap marked ¼ S29 1936 raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
49.30	Top of sharp ridge, 690 ft. above canyon, bears N. 15° W. and S. 15° E.; descend abrupt W. slope.

Chains	
74.50	Bottom of canyon, 600 ft. below ridge, drains S.; ascend gradual E. slope.
76.62	The closing cor. secs. 19 and 20, subsequently set at this point.
80.47	The cor. originally set for secs. 19, 20, 29, and 30, a volcanic stone, 18 x 12 x 8 ins., lying on the ground, marked 5 notches on one edge and 2 notches on corner edge. Cor. is witnessed by one bearing tree as follows.
	A pinon, 10 ins. diam., bears S. 65°30' E., 176 lks. dist., marked T37S R13W S29 BT.
	At the cor. point, on gradual SE. slope, 20 ft. above bot of canyon.
	Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in th ground to solid rock and in a large mound of stone, with the original cor. monument deposited at the base of the post, for cor. secs. 29 and 30, with brass cap marked
	T37S R13W S19 S30 | S29 1936
	I mark an additional bearing tree to cor. as follows.
	A pinon, 8 ins. diam., bears S. 19°15' W., 153 lks. dist., marked T37S R13W S30 BT.
	Land, broken and mountainous with a general southwesterly exposure and drainage. Limestone and granite formation.
	Soil, shallow clay and sand, mixed with rock; 4th rate.
	Undergrowth, manzanita, sage, oak, service berry, and bitter brush.
	Timber, scrub juniper and pinon.
	Fair grazing land.
	S. 0°35' W., bet. secs. 29 and 30.
	Descend gradual SE. slope of broken mountainous land, through scattered timber and dense undergrowth.
14.30	Small draw, drains S. 70° E.; continue descent.
22.50	Draw, 25 ft. deep, drains S. 60° E.; continue descent.
40.98	The ¼ sec. cor. secs. 29 and 30, a volcanic stone, 10 x 10 x 8 ins. above ground, loosely set, marked ¼ on W. face. Cor. has no accessories.
	At the cor. point, on SE. slope, 230 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with the original cor. monument deposited at the base of the post, for ¼ sec. cor. secs. 29 and 30, with brass cap marked

DEPENDENT RESURVEY PORTION SUBDIVISION, T. 37 S., R. 13 W.

Chains

¼

S30 | S29

1936

from which

An oak, 3 ins. diam., bears N. 16°30' E., 12 lks. dist., marked BT.

An oak, 3 ins. diam., bears S. 42°15' W., 14 lks. dist., marked ¼ S30 BT.

Thence S.0°33'W., with continuous measurement

59.90 Draw, 90 ft. below the ¼ sec. cor., drains S. 60° E.; ascend abrupt NE. slope.

72.00 Top of ascent on E. slope, 170 ft. above draw, bears E., and W., about 6.00 chs. dist. to top of spur; descend abrupt broken SE. slope.

76.90 Top of main spur, 30 ft. below top of ascent, projects S. 75° E.; descend abrupt S. slope.

81.65 The cor. of secs. 29, 30, 31, and 32, 18 x 14 x 9 ins., lying on the ground, marked 5 notches on E. edge and 1 notch on cornering edge. Cor. has no accessories.

At the cor. point, on S. slope, 120 ft. below spur.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with the original cor. monument deposited at the base of the post, for cor. secs. 29, 30, 31, and 32, with brass cap marked

T37S S30	R13W S29
S31	S32

1936

from which

A pinon, 12 ins. diam., bears N. 57° E., 106 lks. dist., marked T37S R13W S29 BT.

A pinon, 7 ins. diam., bears S. 57°15' E., 165 lks. dist., marked T37S R13W S32 BT.

A pinon, 7 ins. diam., bears S. 77°15' W., 108 lks. dist., marked T37S R13W S31 BT.

A pinon, 11 ins. diam., bears N. 24° W., 111 lks. dist., marked T37S R13W S30 BT.

Land, broken and mountainous, with a general southerly exposure and drainage. Limestone and volcanic formation.

Soil, shallow and deep clay and sand, mixed with rock; 4th rate.

Undergrowth, mahogany, manzanita, sage, oak, service berry, and bitter brush.

Timber, scrub juniper and pinon.

Fair grazing land.

Chains	
	N. 87°53' W., bet. secs. 30 and 31.
	Ascend gradually along S. slope of broken mountainous land, through medium dense timber and dense tall undergrowth.
7.60	Spur, 60 ft. above cor., projects S., about 10.00 chs. dist. to end; descend gradually along S. slope.
15.00	Improved road, bears S. 15° E. to New Harmony, Utah, and N. 15° W. to Enterprise, Utah.
17.20	Draw, 190 ft. below spur, drains S. 15° E., 5.00 chs. dist., thence SE.; ascend gradual SE. slope.
21.30	Low spur, 80 ft. above draw, projects S. 70° E. from the NW.; descend gradually along S. slope.
23.20	Draw, 10 ft. below spur, drains S. 60° E.; ascend steep NE. slope.
39.00	Find no trace of the ¼ sec. cor. secs. 30 and 31; at proportionate distance, on steep NE. slope, 390 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the restored ¼ sec. cor. secs. 30 and 31, with brass cap marked
	¼ S30 / S31
	1936
	raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	No suitable bearing trees available.
42.10	The N. end of a granite ledge to the S.
47.50	Spur, 150 ft. above the ¼ sec. cor., projects S. 80° E.; thence ascend steep SE. slope over granite outcroppings.
59.40	Top of high ledgy spur, 430 ft. above the ¼ sec. cor., projects S. 30° W., 4.00 chs. dist. to a low saddle in spur; descend abrupt ledgy W. slope.
78.29	The cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the township, 380 ft. below spur, heretofore described.
	Land, broken and mountainous, with a general southerly exposure and drainage. Granite and volcanic formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, mahogany, manzanita, sage, oak, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	From the cor. of secs. 1, 6, 7, and 12, on the W. bdy. of the township, heretofore described.
	N. 89°58' E., bet. secs. 6 and 7.

Chains	
	Descend gradual SE. slope of broken mountainous land, through dense undergrowth and scattered timber.
5.60	Draw, 50 ft. below cor., drains NE.; ascend gradual NW. slope.
13.60	Small rise, 20 ft. above draw, bears N. 30°E. and S. 30° W.; descend gradually over rolling NE. slope.
25.00	Draw, 50 ft. below rise, drains N.; ascend gradual W. slope.
29.00	Low ridge, 50 ft. above draw, bears N. 20° E. and S.; descend gradual NE. slope.
30.30	Dim road, bears NW. and SE.
35.60	Barbed wire fence, bears N. 85° E. and S. 85° W.
41.54	Find no trace of the ¼ sec. cor. secs. 6 and 7; at proportionate point, on NE. slope, 30 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock and in a large mound of stone, for the restored ¼ sec. cor. secs. 6 and 7, with brass cap marked
	¼ S6/S7 1936
	from which
	A juniper, 8 ins. diam., bears S. 81°45' W., 76 lks. dist., marked ¼ S7 BT.
	A juniper, 3 ins. diam., bears N. 27°15' W., 26 lks. dist., marked BT.
44.60	Draw, 30 ft. below the ¼ sec. cor., drains N. 30° E.; ascend gradual NW. slope.
53.30	Spur, 60 ft. above draw, projects N.; descend gradual NE. slope.
60.70	Draw, 50 ft. below spur, drains N.; ascend gradual NW. slope.
62.00	Spur, 15 ft. above draw, projects N.; descend gradual NE. slope.
64.30	Draw, 20 ft. below spur, drains NW.; ascend gradually.
66.80	Recross fence, bears N. 85° W. and S. 80° E.
69.40	Recross fence, bears N. 60° E. and S. 85° W.
70.60	Ascent becomes abrupt, bears NE. and SW.
80.70	Spur, 220 ft. above draw, projects N. 20° E.; descend abrupt E. slope.
82.56	The cor. secs. 5, 6, 7, and 8, a sandstone, 19 x 14 x 8 ins., loosely set in a small mound of stone, marked 5 notches on E. and S. edges. Cor. is witnessed by three bearing trees as follows.
	A juniper, 12 ins. diam., bears N. 43°15' E., 136 lks. dist., marked T37S R13W S5 BT.
	A juniper, 15 ins. diam., bears S. 47° W., 102 lks. dist., marked T37S R13W S7 BT.

Chains	
	A juniper, 16 ins. diam., bears N. 61°30' W., 66 lks. dist., marked T37S R13W S6 BT.
	At the cor. point, on steep E. slope, 30 ft. below spur.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, with the original cor. monument deposited at the base of the post, for cor. secs. 5, 6, 7, and 8, with brass cap marked
	T37S | R13W S6 | S5 S7 | S8 1936
	No suitable bearing tree in sec. 8 available.
	Land, broken and mountainous, with a general northerly exposure and drainage. Limestone formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, manzanita, sage, oak, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	South, bet. secs. 7 and 8.
	Ascend gradually along broken E. slope of mountainous land, through dense undergrowth and scattered timber.
27.00	From this point, a small spring of good water in bottom of large draw, bears East, about 6.00 chs. dist.
35.00	Spur, 460 ft. above cor., projects N. 15° W.; thence ascend gradually along steep W. slope.
40.00	Record course and distance; find no trace of the ¼ sec. cor. secs. 7 and 8.
	On steep W. slope, 30 ft. above spur.
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and in a large mound of stone, for the restored ¼ sec. cor. secs. 7 and 8, with brass cap marked
	¼ S7 | S8 1936
	volcanic stone, 10 x 8 x 8 ins., at base of post, marked X, deposit a
	No suitable bearing trees available.
43.70	Draw, 10 ft. above the ¼ sec. cor., drains N. 35° W.; ascend abrupt NW. slope.
49.20	Spur, 140 ft. above draw, projects N. 70° W.; descend gradually along steep W. slope.

DEPENDENT RESURVEY PORTION SUBDIVISION, T. 37 S., R. 13 W.

Chains	
53.10	Draw, 20 ft. below spur, drains N. 75° W.; ascend abrupt NW. slope.
65.70	Top of spur, 350 ft. above draw, projects W.; descend abrupt SW. slope through dense mahogany.
77.40	Ravine, 230 ft. below spur, drains NW.; leave mahogany and ascend steep NE. slope.
80.00	Record course and distance; find no trace of the cor. secs. 7, 8, 17, and 18.
	On steep NE. slope, 110 ft. above ravine.
	Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock and in a large mound of stone, for the cor. secs. 7 and 18, with brass cap marked
	T37S | R13W S7 | S8 S18 1936
	from which
	A balsam, 10 ins. diam., bears N. 66° E., 163 lks. dist., marked T37S R13W S8 BT.
	No suitable bearing tree in sec. 7 available.
	Land, rough and mountainous, with a general northwesterly exposure and drainage. Volcanic formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, mahogany, manzanita, service berry, sage, and bitter brush.
	Timber, juniper and pinon and a few scattered balsam.
	Good grazing land.
	From the cor. of secs. 5, 6, 7, and 8.
	S. 88°47' E., bet. secs. 5 and 8.
	Descend abrupt E. slope of rough mountainous land, through medium dense timber and undergrowth.
4.10	Bottom of large draw, 90 ft. below cor., drains N. 15° E.; ascend gradual NW. slope.
6.70	Four strand barbed wire fence, bears S. 8° E. and N. 8° W.
17.40	Top of ascent on N. point of spur, 80 ft. aboveddraw; descend gradual NE. slope.
20.90	Draw, 40 ft. below point of spur, drains N. 15° W.; ascend gradual NW. slope.
28.90	Rolling top of spur, 50 ft. aboveddraw, projects N. 15° W.; descend gradual NE. slope.
35.00	Draw, 70 ft. below spur, drains N.; ascend gradual NW. slope.

DEPENDENT RESURVEY PORTION SUBDIVISION, T. 37 S., R. 13 W.

Chains	
37.40	Spur, 40 ft. above draw, projects N. 25° E.; descend gradual NE. slope.
40.42	The ¼ sec. cor. secs. 5 and 8, a sandstone, 10 x 8 x 6 ins. above ground, firmly set, marked ¼ on N. face. Cor. has no accessories.
	At the cor. point, on gradually NE. slope, 30 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with the original cor. monument deposited at the base of the post, for ¼ sec. cor. secs. 5 and 8, with brass cap marked
	¼ S5 / S8 1936
	from which
	A juniper limb, 6 ins. diam., bears N. 18°30' E., 39 lks. dist., marked ¼ S5 BT.
	A pinon, 10 ins. diam., bears S. 58° E., 129 lks. dist., marked ¼ S8 BT.
	Thence, S. 88°44' E., with continuous measurement.
45.00	Dim road, bears N. 20° E. and S. 20° W.
47.90	A small stream of good water, 1½ lks. wide, 1 in. deep, in wash, 30 lks. wide, 15 ft. deep, 85 ft. below the ¼ sec. cor., flows N.; ascend gradual NW. slope.
54.40	Low spur, 20 ft. above stream, projects N.; descend gradual NE. slope.
62.70	Small draw, 30 ft. below spur, projects N.; ascend gradual NW. slope.
66.40	Small rise, 30 ft. above draw, bears N. and S.; descend gradual NE. slope.
69.10	Wash, 15 lks. wide, 10 ft. deep, in draw, 30 ft. below spur, drains N. 10° W.; ascend abrupt NW. slope.
80.75	The cor. secs. 4, 5, 8, and 9, a volcanic stone, 20 x 7 x 5 ins., lying on the ground, marked 4 notches on one edge and 4 notches on cornering edge. Cor. has no accessories.
	At the cor. point, in small draw, 150 ft. above wash, drains NW.
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with the original cor. monument deposited at the base of the post, for cor. secs. 4, 5, 8, and 9, with brass cap marked
	T37S R13W S5 S4 S8 S9 1936
	from which
	A juniper, 6 ins. diam., bears N. 82°30' E., 230 lks. dist., marked T37S R13W S4 BT.

DEPENDENT RESURVEY PORTION SUBDIVISION, T. 37 S., R. 13 W.

Chains	
	A juniper, 5 ins. diam., bears N. 28° W., 21 lks. dist., marked T37S R13W S5 BT.
	No other suitable bearing trees available.
	Land, mountainous, with a general northerly exposure and drainage. Limestone formation.
	Soil, shallow sand and clay, with a rocky surface; 4th rate.
	Undergrowth, manzanita, sage, oak, service berry and bitter brush.
	Timber, scrub juniper and pinon.
	South, bet. secs. 8 and 9.
	Ascend steep NW. slope of broken mountainous land, through scattered timber and dense undergrowth.
4.90	Spur, 70 ft. above cor., projects N.; descend gradually along steep N. slope.
13.30	Small draw, 30 ft. deep. drains W.
21.50	Bottom of large main draw, 50 ft. below spur, drains N. 20° W.; the base of a volcanic ledge, 45 ft. high, bears East, 60 lks. dist.; ascend abrupt NE. slope.
35.00	Top of ascent, 290 ft. above draw, bears E. and W.; descend steep SE. slope.
37.20	Head of small draw, 30 ft. below top of ascent, drains NE.; ascend abrupt N. slope.
40.00	Record course and distance, find no trace of the ¼ sec. cor. secs. 8 and 9.
	At top of abrupt ascent, near top of ridge, 100 ft. above head of draw.
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a large mound of stone, for the restored ¼ sec. cor. secs. 8 and 9, with brass cap marked
	S8 | S9 1936
	a volcanic stone, 10 x 10 x 8 ins., at base of post, deposit marked A.
	No suitable bearing trees available.
41.50	Top of ridge, 20 ft. above the ¼ sec. cor., bears N. 20° W. and S. 35° E.; ascend gradually along steep general W. slope.
46.50	Top of ascent, 60 ft. above ridge, bears NW. and SE.; descend steep SW. slope.
54.20	Bottom of large main draw, 90 ft. below top of ascent, drains N. 30° W., about 10.00 chs. dist., thence N. 75° W.

Chains	
	ascend abrupt broken NE. slope.
69.50	Top of ascent, 490 ft. above draw, slopes E., about 8.00 chs. to draw, and bears W., about 1.50 chs. to top of high point which slopes N. 35° W.; descend broken SE. slope.
72.60	Slope changes from a broken SE. slope to a broken S. slope.
77.30	Base of descent, 70 ft. below top of ascent, bears NW., 2.50 chs. to pass in ridge, and S. 60° E., about 2.00 chs. to draw draining N. 20° E.; ascend gradual NE. slope.
80.00	Record course and distance, find no trace of the cor. secs. 8, 9, 16, and 17.
	On gradual NE. slope, 30 ft. above base of descent.
	Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock and in a large mound of stone, for the cor. of secs. 8 and 9, with brass cap marked
	T37S | R13W S8 | S9 S17 1936
	deposit a volcanic stone, 10 x 10 x 8 ins., at base of post, marked X.
	Land, broken and mountainous, with a general northwesterly exposure and drainage. Volcanic formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, mahogany, manzanita, sage, oak, service berry and bitter brush.
	Timber, juniper and pinon.
	Good grazing land.
	From the cor. secs. 4, 5, 8, and 9.
	East, bet. secs. 4 and 9.
	Ascend steep W. slope of broken mountainous land, through scattered timber and dense undergrowth.
5.20	Spur, projects NW., thence ascend steep NW. slope.
12.60	Top of rocky spur, 190 ft. above cor., projects N. 30° E.; descend steep E. slope.
25.60	Draw, 290 ft. below spur, drains NE.; ascend steep NW. slope.
30.00	Spur, 30 ft. above draw, projects NE., about 6.00 chs. to end; from this point, a prospect hole of the Utah Bell Mine, bears S. 60° W., 1.40 chs. dist.; descend steep E. slope.
36.60	Old road, bears N. and S.
36.80	Small spring branch in draw, 170 ft. below spur, flows N., and heads S., about 40.00 chs. dist.; ascend steep W. slope.

DEPENDENT RESURVEY PORTION SUBDIVISION, T. 37 S., R. 13 W.

Chains	
40.00	Record course and distance, find no trace of the ¼ sec cor. of secs. 4 and 9. On steep W. slope, 70 ft. above draw. Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, and in a large mound of stone, for the restored ¼ sec. cor. of secs. 4 and 9, with brass cap marked ¼ S 4 / S 9 1936 from which A juniper, 7 ins. diam., bears N.80°15'E., 47 lks. dist., marked ¼ S4 BT A juniper, 12 ins. diam., bears S.12°15'E., 94 lks. dist., marked ¼ S9 BT Land, broken and mountainous, with a general northerly exposure and drainage. Soil, shallow clay and sand, with a rocky surface; 4th rate. Undergrowth, manzanita, sage, oak, service berry, and buck brush. Timber, juniper and pinon. Fair grazing land.
	From the cor. of secs. 4, 5, 8, and 9. N.1°01'W., bet. secs. 4 and 5. Over low rolling mountainous land, through scattering timber, and medium dense undergrowth; descend broken NW. slope, 50 ft.
6.00	Small saddle in low spur from SE., projects N.
9.50	N. end of the spur; descend N. slope.
22.40	Old dilapidated wire fence, irregular, bears NE. and SW.
24.30	Draw, 200 ft. below sec. cor., drains NE.; ascend SE. slope, 40 ft.
31.00	Top of ascent on E.slope; desc. gradual NE. slope, 60 ft.
39.52	Intersect the original ¼ sec. cor., an igneous rock, 14x10x7 ins., firmly set in a small mound of stone, marked ¼ on W. face. At corner point. Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, with original stone cor. alongside, and supported in a mound of stone for ¼ sec. cor., with brass cap marked ¼ S5 S4 1936 from which A cedar, 8 ins. diam., bears N.43½°E., 26 lks. dist., marked ¼ S4 BT A cedar, 8 ins. diam., bears S.35½°W., 114 lks. dist., marked ¼ S5 BT Thence N.1°19'W., with continuous measurement.
41.70	Small irrigation ditch, flows N.70°E.; at S. edge of flat bottom land, bearing N.70°E. and S.60°W.
43.90	Wash, dry, 6o lks. wide, 15 ft. deep, in bottom of Duncan Canyon, drains N.70°E.
44.30	Farm road, bears N.70°E. and S.70°W.
45.50	Leave bottom land, enter dense timber, bears N.70°E. and S.70°W.; gradually asc. rolling E. slope, 75 ft.
48.60	Wire fence, bears NE and SW.
62.10	Top of ascent on E. slope; descend 45 ft.
66.30	Hollow, drains E. for about 5 chs. dist., thence SE.; ascend S. slope, 65 ft.
78.30	Ridge at bend, bears S.55°W., and S.70°E. for about 6 chs. thence northeasterly; descend steep N.slope, 130 ft.
83.40	The cor. of secs. 4, 5, 32, and 33, on N. bdy. of Tp. hereinbefore described. Land, rolling mountainous; general NE.exposure and drainage. Soil, clay loam mixed with rock; 3rd rate. Timber, juniper, pinon and mahogany. Undergrowth, oak, service and sage brush. Fair grazing land.

Chains

July 2, 1936: Stationed at the cor. of secs. 25, 30, 31, and 36, on the E. bdy. of the township, in approximate latitude 37°34'N., longitude 113°12'W., at 11h 27.9m a.m., local mean time, I make an hour angle observation on Polaris, West of the meridian, making four observations, using instrument No.18003, two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from a flat pole about 20 chs. West, in a clockwise direction to the star.

Watch time of observation (correct 105th Meridian Standard Time).....12h 00.7m p. m.
Mean horizontal angle, flag pole to star .... 88° 47'
Azimuth of Polaris at time of observation .. 1° 13' W.
True bearing to flag pole ..... West.

Thence, from the above cor., hereinafter described. West, on random line, setting ¼ sec. and sec. cors. at intervals of 40 and 80 chains, and at 243.01 chs., fall 42 lks. S. of the cor. of secs. 27, 28, 33, and 34, heretofore described. The course of the governing section line from the cor. of secs. 25, 30, 31, and 36, to the cor. of secs. 27, 28, 33, and 34, therefore, is N.89°54'W., and the distance is 243.01 chs.

Thence from the temp. cor of secs. 25, 26, 35, and 36. S.0°11'W., on random line, bet. secs. 35 and 36.

40.00 Set temp. ¼ sec. cor.

79.64 Intersect the S. bdy of the township, 8 lks. E. of the cor. of secs. 35 and 36, heretofore described.

Thence N.0°11'E., on true line, bet secs. 35 and 36, parallel to the E. bdy. of the township.

Ascend abrupt SE. slope of broken mountainous land, through scattered timber and dense tall undergrowth:

1.40 Spur, 40 ft. above cor., projects S.60°E.; thence descend gradually along steep E. slope.

4.00 Head of draw, 10 ft. below ridge, drains SE.; ascend abrupt S. slope.

[illegible].30 Top of ridge, bearing N.30°W. and S.60°E., and junction of ridge bearing S.30°W. 200 ft. above head of draw; descend steep NE. slope.

25.90 Steep draw, 50 ft. below ridge, drains S.70°E. and heads W. 5.00 chs. dist.; ascend abrupt SE. slope.

34.80 Spur, 120 ft. above draw, projects S.70°E.; descend gradual NE. slope.

3[illegible].50 Draw, 30 ft. below spur, drains SE.; ascend abrupt SW. slope.

3[illegible].78 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, and in a large mound of stone, for ¼ sec. cor., with brass cap marked

S35 | ¼ | S36
1936

deposit a volcanic stone, 12x10x10 ins., at base of post, marked X. No suitable bearing trees available.

3[illegible].20 Spur, 180 ft. above draw, projects S.20°W. from the N.; thence along top of spur.

3[illegible].20 Leave top of spur, projects S., and bears E. 3.50 chs. dist. to a low saddle; descend steep N. slope.

3[illegible].70 Old road, bears NW. and SE.

51.00 Head of draw, 90 ft. below spur, drains E.; ascend steep S. slope.

64.20 Top of knoll on spur, 60 ft. above head of draw, projects S.20°W.; ascend gradually along W. slope.

6[illegible].00 Top of same spur, projects S.80°E. 1.00 chs. dist., thence S.20°W.; descend steep NE. slope.

73.00 Head of draw, 80 ft. below spur, drains S.80°E.; ascend gradual SE. slope.

SUBDIVISION OF T. 37 S., R. 13 W.

Chains	
78.80	Low spur, 40 ft. above head of draw, projects S. 85° E.;
79.78	Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock and in a large mound of stone, for cor. secs. 25, 26, 35, and 36, with brass cap marked

T37S S26	R13W S25
S35	S36

1936

deposit a volcanic stone, 12 x 6 x 4 ins., at base of post, marked X.

Land, broken and mountainous, with a general southeasterly exposure and drainage. Limestone formation.

Soil, shallow sand and clay, with a rocky surface; 4th rate.

Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.

Timber, a few scattered scrub juniper and pinon.

Fair grazing land.

The cor. of secs. 25, 30, 31, and 36, on the E. bdy. of the township, is an iron post, 3 ins. diam., set, marked and witnessed as described in the official record of the survey of T. 37 S., R. 13 W., group 40, Utah.

Thence, from the above cor.

N. 89°54' W., on a governing section correction line, bet. secs. 25 and 36.

Descend steep NW. slope of broken mountainous land, through dense tall undergrowth.

2.60	Draw, 70 ft. below cor., drains NE.; ascend steep rocky E. slope.
12.80	Low saddle in spur, 290 ft. above draw, projects S., and bears N. 30° W.; descend steep SW. slope.
14.70	Draw, 50 ft. below spur, drains S., about 10.00 chs. dist. to main draw draining easterly; ascend steep E. slope.
25.70	Spur, 210 ft. above draw, projects S. 5° E.; descend steep SW. slope.
33.50	Junction of draws from N. 75° W. and N., 120 ft. below spur, drains S.; ascend steep NE. slope.
40.04	On steep NE. slope, 150 ft. above junction of draws.

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked

S25	
¼	
S36	

1936

Chains	
	Deposit a granite stone, 10 x 8 x 6 ins., at base of post marked X.
56.80	Slope changes from an abrupt NE. slope to a gradual SE. slope.
69.00	Spur, 400 ft. above the ¼ sec. cor., projects SE.; descend gradual SW. slope.
73.30	Draw, 60 ft. below spur, drains SE.; small spring of good water in bottom of draw; ascend steep W. slope.
80.08	The cor. secs. 25, 26, 35, and 36, 165 ft. above draw.
	Land, broken and mountainous, with a general southeasterly exposure and drainage. Limestone formation.
	Soil, shallow clay and rock, w th a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry and bitter brush.
	No timber.
	Fair grazing land.
	N. 0°11' E., bet. secs. 25 and 26.
	Descend steep E. slope of broken mountainous land, through dense undergrowth.
2.60	Draw, 30 ft. below cor., drains E.; ascend gradual SE. slope.
8.20	Dim road, bears N. 80° E. and S. 80° W.
16.80	Ridge, 135 ft. above draw, bears W., and E., 5.00 chs. dist. to a low saddle; descend steep NE. slope.
25.80	Large draw, 130 ft. below ridge, drains SE; ascend gradual SW. slope.
29.50	Top of ascent on W. slope of knoll, 30 ft. above draw, bears E. and W.; descend gradually along W. slope.
40.00	On low rise forming the S. rim of Bumble Bee Lake, 30 ft. below top of ascent, bears E. and W.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked

¼

S26 | S25

1936

from which

An oak, 4 ins. diam., bears N. 32°15' E., 163 lks. dist., marked ¼ S25 BT.

An oak, 4 ins. diam., bears N. 9°30' W., 123 lks. dist., marked ¼ S26 BT.

From the above cor., the S. end of a watering trough, 69 ft. long, at Bumble Bee Spring, bears N. 88°32' W.,

Chains	
	20.55 chs. dist. A concrete box at Bumble Bee Spring, bears N.84°42' W., 23.81 chs. dist.
42.50	The E. edge of Bumble Bee Lake, which is a circular pond of water, about 2.00 chs. in diam.
48.70	Spur, 50 ft. above the ¼ sec. cor., projects N. 50° E.; descend steep N. slope.
52.10	Ravine, 130 ft. below spur, drains E.; ascend steep S. slope.
54.90	Small grassy seep of good water on line.
55.90	Spur, 20 ft. above ravine, projects E., about 6.00 chs. to end; descend steep NE. slope.
57.40	Draw, 40 ft. below spur, drains SE.; ascend steep S. slope.
63.50	Slope changes from a S. to a SE. slope.
80.00	On top of a granite outcropping, 360 ft. above draw.
	Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the ground to solid rock and in a large mound of stone to top, for cor. secs. 23, 24, 25, and 26, with brass cap marked

T37S	R13W
S23	S24
S26	S25

1936

deposit a granite stone, 12 x 10 x 6 ins., at base of post, marked X.

Land, broken and mountainous, with a general easterly exposure and drainage. Granite and limestone formation.

Soil, shallow sand and clay, with a rocky surface; 4th rate.

Undergrowth, manzanita, sage, oak, service berry, and bitter brush.

No timber.

Fair grazing land.

S. 89°54' E., on random line, bet. secs. 24 and 25.

40.00	Set temp. ¼ sec. cor.
80.12	Intersect the E. bdy. of the township, 14 lks. S. of the cor. secs. 19, 24, 25, and 30, an iron post, 3 ins. diam., set, marked and witnessed as described in the official record of the survey of T. 37 S., R. 12 W., group 40, Utah.

Thence:

West, on true line, bet. secs. 24 and 25.

Ascend steep E. slope of broken mountainous land, through dense undergrowth.

Chains	
8.00	Slope changes from an E. to a NE. slope.
12.00	Spur, 140 ft. above cor., projects NE.; thence ascend gradual E. slope.
32.80	Recross top of spur, projects SE., 350 ft. above sec. cor. section cor.; descend steep W. slope.
37.90	Head of draw, 40 ft. below spur, drains S. 10° E.; ascend steep E. slope.
40.06	On steep E. slope, 35 ft. above head of draw.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S24/S25 1936 deposit a granite stone, 12 x 10 x 6 ins., at base of post, marked X.
	No other suitable accessories available.
46.30	Spur, projects SE.; continue ascent over steep E. slope.
59.30	Slope changes from a steep E. slope to a gradual SE. slope
80.12	The cor. of secs. 23, 24, 25, and 26, 610 ft. above the ¼ sec. cor.
	Land, broken and mountainous, with a general easterly and southeasterly exposure and drainage. Limestone and granite formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, mahogany, manzanita, sage, oak, service berry, and bitter brush.
	No timber.
	Fair grazing land.
	N. 0°11' E., bet. secs. 23 and 24.
	Ascend gradual SE. slope of rolling mountainous land, through dense undergrowth.
4.90	Spur, 20 ft. above cor., projects E.; descend gradually over rolling NE. slope.
21.80	Clump of aspen and pine timber, bears W., 2.00 chs. dist.
32.00	Draw, 500 ft. below spur, drains N. 80° E.; ascend steep SE. slope.
34.70	Spur, 90 ft. above draw, projects E., 4.00 chs. dist. to end; descend steep NE. slope.
38.70	Bottom of large main draw, 90 ft. below spur, drains E.; ascend gradual S. slope.
40.00	On gradual S. slope, 15 ft. above draw.

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S23 | S24 1936 from which
	A maple, 5 ins. diam., bears S. 71°45' E., 19 lks. dist., marked ¼ S24 BT.
	An oak, 4 ins. diam., bears N. 57° W., 18 lks. dist., marked ¼ S23 BT.
64.00	Ridge, 590 ft. above the ¼ sec. cor., bears N. 70° E. and S. 70° W.; descend gradual N. slope.
80.00	On gradual N. slope, 120 ft. below ridge.
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. secs. 13, 14, 23, and 24, with brass cap marked T37S | R13W S14 | S13 S23 | S24 1936 raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Land, rolling and mountainous, with a general easterly exposure and drainage. Limestone and granite formation.
	Soil, shallow gravel, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, maple, sage, oak, service berry, and bitter brush.
	Timber, a few scattered aspen and pine.
	Good grazing land.
	East, on random line, bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect the E. bdy. of the township, 14 lks. N. of the cor. secs. 13, 18, 19, and 24, an iron post, 3 ins. diam., set, marked and witnessed as described in the official record of the survey of T. 37 S., R. 12 W., group 40, Utah.
	Thence:
	N. 89°54' W., on true line, bet. secs. 13 and 24.
	Ascend steep E. slope of broken mountainous land, through scattered timber and dense undergrowth.
5.10	Low spur, projects N. 10° E.; ascend gradually along rolling N. slope.
16.50	Spur, 230 ft. above cor., projects N.; descend steep W. slope.

Chains	
28.40	Draw, 90 ft. below spur, drains N.; ascend steep E. slope.
32.80	Spur, 250 ft. above draw, projects NE.; descend gradually along steep N. slope.
39.99	On steep N. slope, 20 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground and in a mound of stone, for ¼ sec. cor., with brass cap marked ¼ S13/S24 1936 deposit a granite stone, 12 x 10 x 4 ins., at base of post, marked X.
	No other suitable accessories available.
42.50	Small draw, drains N. 80° E.; ascend rocky NE. slope.
70.30	Ridge, 650 ft. above the ¼ sec. cor., bears N. 10° E. and S. 10° W.; descend gradual NW. slope.
74.00	Head of draw, 30 ft. below ridge, drains N. 10° E.; ascend steep E. slope.
76.00	Spur, 40 ft. above draw, projects N. 10° W.; descend gradual NW. slope.
78.40	Head of draw, 50 ft. below spur, drains N.; ascend gradually.
79.98	The cor. secs. 13, 14, 23, and 24, 20 ft. above head of draw.
	Land, broken and mountainous, with a general northerly exposure and drainage. Limestone and granite formation.
	Soil, shallow gravel with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	N. 0°11' E., bet. secs. 13 and 14.
	Descend steep N. slope of broken mountainous land, through scattered timber and dense undergrowth.
8.90	Draw, 120 ft. below cor., drains NW. from S. 10° E.; thence descend steep NW. slope.
16.80	Flat top of spur, 90 ft. above draw, projects NW.; descend steep NW. slope.
34.90	Low pass in rim, bears NE. and SW.
37.80	Low spur, projects SW., 2.00 chs. dist. to end; descend steep W. slope.

SUBDIVISION OF, T. 37 S., R. 13 W.

Chains	
40.00	On steep W. slope, 230 ft. below flat top of spur.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S14 | S13 1936
	from which
	A juniper, 12 ins. diam., bears N. 53° E., 180 lks. dist., marked ¼ S13 BT.
	A red cedar, 18 ins. diam., bears S. 35°15' W., 90 lks. dist., marked ¼ S14 BT.
66.70	Bottom of deep brushy draw, 460 ft. below the ¼ sec. cor., drains NE. from S. 20° W.; ascend steep rocky SE. slope.
78.30	Spur, 150 ft. above draw, projects E.; descend gradual NE. slope.
80.00	On rocky NE. slope of surface rock, 20 ft. below spur, mark a cross (X), over which:
	Set an iron post, 3 ft. long, 2 ins. diam., in a large mound of stone to top, for cor. secs. 11, 12, 13, and 14, with brass cap marked
	T37S R13W S11 | S12 S14 | S13 1936
	from which
	A pinon, 10 ins. diam., bears N. 25° E., 112 lks. dist., marked T37S R13W S12 BT.
	A mahogany, 5 ins. diam., bears S. 70° W., 28 lks. dist., marked T37S R13W S14 BT.
	A pinon, 7 ins. diam., bears N. 46°15' W., 40 lks. dist., marked T37S R13W S11 BT.
	No bearing tree available in sec. 13.
	Land, broken and mountainous, with a general northeasterly exposure and drainage. Limestone formation.
	Soil, shallow sand and clay, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	S. 89°54' E., on random line, bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.

SUBDIVISION OF T. 37 S., R. 13 W.

Chains	
80.10	Intersect the E. bdy. of the township, 12 lks. S. of the cor. secs. 12 and 13, which is an iron post, 3 ins. diam., set, marked and witnessed as described in the official record of the survey of T. 37 S., R. 12 W., group 40, Utah.
	Thence:
	N. 89°59' W., on true line, bet. secs. 12 and 13.
	Ascend gradual E. slope of broken mountainous land, through scattered timber and dense undergrowth.
8.20	Spur, 60 ft. above cor., projects SE.; descend gradual SW. slope.
17.20	Base of descent, bears NW. and SE.; ascend steep rocky SE. slope.
33.50	Spur, 300 ft. above cor., projects S. 20° E.; descend gradual SW. slope.
39.10	Head of draw, 20 ft. below spur, drains S.; ascend gradual SE. slope.
40.05	On top of large granite outcropping, 20 ft. above head of draw, mark a cross (X), over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S12 / S13
	1936
	from which
	A pinon, 8 ins. diam., bears N. 30° E., 36 lks. dist., marked ¼ S12 BT.
	A juniper, 8 ins. diam., bears S. 18° E., 80 lks. dist., marked ¼ S13 BT.
	Continue ascent over SE. slope.
48.00	Spur, 80 ft. above the ¼ sec. cor., projects S., about 6.00 chs. to end; descend gradual SW. slope.
55.40	Draw, 30 ft. below spur, drains SE.; ascend gradual NE. slope.
60.40	Spur, 20 ft. above draw, projects NE.; descend steep NW. slope.
70.10	Bottom of large main draw, 500 ft. below spur, drains N. 30° E.; ascend steep E. slope.
76.50	Spur, 350 ft. above draw, projects SE.; descend gradual SW. slope.
79.30	Draw, 30 ft. below spur, drains SE.; ascend gradual E. slope.
80.10	The cor. secs. 11, 12, 13, and 14, 10 ft. above draw.
	Land, broken and mountainous, with a general southeasterly and northwesterly exposure and drainage. Granite and limestone formation.

SUBDIVISION OF T. 37 S., R. 13 W.

Chains	
	Soil, shallow clay and sand mixed with rock; 4th rate.
	Undergrowth, sage, oak, service berry, and bitter brush.
	Timber, scrub juniper and pinon.
	Fair grazing land.
	N. 0°11' E., bet. secs. 11 and 12.
	Descend gradual NE. slope of broken mountainous land, through scattered timber and dense undergrowth.
0.70	Draw, 10 ft. below cor., drains SE. from the W.; ascend gradually over rocky S. slope.
4.50	Spur, 50 ft. above draw, projects S. 80° E.; descend gradual NE. slope.
22.10	Draw, 100 ft. below spur, drains SE.; ascend steep rocky S. slope.
31.60	Spur, 110 ft. above draw, projects NE.; descend steep N. slope.
38.80	Draw, 130 ft. below spur, drains N. 30° E.; ascend steep rocky SE. slope.
40.00	On steep rocky SE. slope, 15 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock and in a large mound of stone, for 1/4 sec. cor., with brass cap marked

S11 | S12

1936

from which

A juniper, 7 ins. diam., bears N. 49°30' E., 75 lks. dist., marked 1/4 S12 BT.

A pinon, 14 ins. diam., bears N. 11° W.; 113 lks. dist., marked 1/4 S11 BT.

44.70	Spur, 70 ft. above the 1/4 sec. cor., projects NE.; descend gradual NE. slope.
59.80	Slope changes from a gradual NE. slope to a steep N. slope.
73.70	Stream of good water, 2 lks. wide, 2 ins. deep, in bottom of large main draw, 740 ft. below spur, flows N. 30° E.; ascend steep SE. slope.
80.00	On steep SE. slope, 120 ft. above draw.
	Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the ground to solid rock and in a large mound of stone to top, for cor. secs. 1, 2, 11, and 12, with brass cap marked

T37S S 2	R13W S1
S11	S12

1936

Chains

from which

A juniper, 10 ins. diam., bears N. 58°30' E., 41 lks. dist., marked T37S R13W S1 BT.

A juniper, 10 ins. diam., bears S. 70°30' E., 76 lks. dist., marked T37S R13W S12 BT.

A juniper, 12 ins. diam., bears S. 25°30' W., 49 lks. dist., marked T37S R13W S11 BT.

A juniper, 14 ins. diam., bears N. 81°45' W., 75 lks. dist., marked T37S R13W S2 BT.

Land, broken and mountainous, with a general northeasterly exposure and drainage. Granite and limestone formation.

Soil, shallow clay and sand, with a rocky surface; 4th rate.

Undergrowth, manzanita, mahogany, sage, service berry, and bitter brush.

Timber, juniper and pinon.

Fair grazing land.

S. 89°59' E., on random line, bet. secs. 1 and 12.

40.00 Set temp. ¼ sec. cor.

80.24 Intersect the E. bdy. of the township, 2 lks. N. of the cor. secs. 1 and 12, T. 37 S., R. 13 W., an iron post, 3 ins. diam., set, marked, and witnessed as described in the official record of the survey of T. 37 S., R. 12 W. group 40, Utah.

Thence:

N. 00°58' W., on true line, bet. secs. 1 and 12.

Ascend steep NE. slope of broken mountainous land, through scattered timber and dense undergrowth.

2.60 Spur, 60 ft. above cor., projects N.; descend gradual N. slope.

6.20 Slope changes from a gradual N. slope to a gradual NW. slope; from this point, the NW. cor. of a frame shed at a fox farm, bears N. 10°18' E.;

[illegible].00 Slope changes from a gradual NW. slope to a gradual W. slope; from this point, the NW. cor. of frame shed at fox farm, bears N. 30°32' E.

[illegible].35 In gradual W. slope on E. bank of wash in draw.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for witness cor. to the ¼ sec. cor. secs. 1 and 12, with brass cap marked

WC ¼ S1/S12

1936

from which

Chains	
	A juniper, 4 ins. diam., bears S. 30°15' E., 89 lks. dist., marked WC ¼ S12 BT.
	A juniper, 14 ins. diam., bears N. 57° W., 195 lks. dist., marked WC ¼ S1 BT.
40.12	True point for the ¼ sec. cor. falls in bottom of draw with stream of good water, 5 lks. wide, 4 ins. deep, 435 ft. below spur, draining NE., where it is impracticable to set a permanent cor.; ascend gradual SE. slope.
40.70	Junction of draws draining from S. 10° W. and S. 85° W., draining NE., bears S., 50 lks. dist.
51.40	Spur, 150 ft. above the witness cor. to the ¼ sec. cor., projects S., 2.50 chs. dist. to end; small spring of good water; draw, bears S., 2.50 chs. dist.; descend steep SW. slope.
56.30	Draw, 80 ft. below spur, drains SE.; ascend steep NE. slope. Small stream of good water in bottom of draw.
65.40	Spur, 180 ft. above draw, projects N., 5.00 chs. dist. to end; descend gradually along steep N. slope.
72.80	Recross same stream as at the true point for the ¼ sec. cor., in draw, 110 ft. below spur, flows NE.; ascend steep SE. slope.
80.24	The cor. of secs. 1, 2, 11, and 12, 160 ft. above stream.
	Land, broken and mountainous, with a general northeasterly exposure and drainage. Limestone formation.
	Soil, shallow gravel with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.
	Timber, scrub juniper and pinon.
	Fair grazing land.
	N. 0°11' E., on random line, bet. secs. 1 and 2.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. lot cor.
92.97	Intersect the N. bdy. of the township, 26 lks. W. of the cor. secs. 1, 2, 35, and 36, heretofore described.
	Thence:
	S. 0°21' W., on true line, bet. secs. 1 and 2.
	Ascend rocky NE. slope of broken mountainous land, through scattered timber and dense undergrowth.
2.50	Top of rocky spur, 60 ft. above cor., projects S. 50° E.; descend rocky SW. slope.
8.90	Descent becomes abrupt, bears NW. and SE.; thence over broken granite ledges.
12.97	On rocky SW. slope, 140 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a large mound of stone, for

Chains	
	cor. of lots 4 and 5, sec. 1, and lots 1 and 8, sec. 2, with brass cap marked L1 | L4 S2 ——— S1 L8 | L5 1936 from which
	A juniper, 12 ins. diam., bears N. 72° E., 56 lks. dist., marked L4 S1 BT.
	A juniper, 10 ins. diam., bears N. 54°45' W., 142 lks. dist., marked L1 S2 BT.
25.40	Draw, 150 ft. below lot cor., drains S. 80° E., 2.00 chs. dist., thence SE.; ascend gradual NE. slope.
31.50	Low spur, 10 ft. above draw, projects E., about 8.00 chs. dist. to end; descend gradual SE. slope.
36.00	Draw, 20 ft. below spur, drains E.; ascend steep NE. slope.
42.10	Spur, 140 ft. above draw, projects E.; descend steep S. slope.
49.60	Draw, 120 ft. below spur, drains E.; ascend gradual NE. slope.
52.97	On gradual NE. slope, 30 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked ¼ S2 | S1 1936 from which
	A juniper, 7 ins. diam., bears S. 70° E., 48 lks. dist., marked ¼ S1 BT.
	A juniper, 14 ins. diam., bears S. 67° W., 47 lks. dist., marked ¼ S2 BT.
58.70	Low spur, 60 ft. above cor., projects E.; descend gradual SE. slope.
60.50	Draw, 10 ft. below spur, drains N. 70° E.; ascend gradual NE. slope.
64.50	Low spur, 10 ft. high, projects NE.
68.50	Draw, 10 ft. below spur, drains NE.; ascend gradual N. slope.
79.20	Spur, 270 ft. above draw, projects E., about 10.00 chs. dist., thence SE.; descend steep SE. slope.
92.97	The cor. secs. 1, 2, 11, and 12, 240 ft. below spur.
	Land, broken and mountainous, with a general easterly exposure and drainage. Limestone and granite formation.
	Soil, shallow gravel with a rocky surface; 4th rate.

Chains	
	Undergrowth, manzania, mahogany, sage, oak, service berry, and bitter brush.
	Timber, scrub juniper and pinon.
	Fair grazing land.
	From the temp. cor. of secs. 26, 27, 34, and 35.
	S. 0°11' W., on random line, bet. secs. 34 and 35.
40.00	Set temp. ¼ sec. cor.
79.01	Intersect the S. bdy. of the township, 10 lks. E. of the cor. secs. 34 and 35, heretofore described.
	Thence:
	N. 0°11' E., on true line, bet. secs. 34 and 35.
	Ascend along steep broken W. slope of mountainous land, through scattered timber and dense undergrowth.
4.30	Small spring branch in bottom of draw, 40 ft. below cor., flows S. 30° W.; ascend abrupt E. slope.
39.29	On abrupt broken E. slope, 450 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground and in a large mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S34 | S35 1936
	from which
	A juniper, 20 ins. diam., bears S. 32° W., 110 lks. dist., marked ¼ S34 BT.
	No other suitable bearing tree available.
47.10	Top of ascent on E. slope, 150 ft. above the ¼ sec. cor., bears E. and W.; descend gradually along steep E. slope.
49.70	Draw, 20 ft. below top of ascent, drains SE., 2.50 chs. dist., thence SE 15° E.; ascend gradual SE. slope.
64.30	Top of ascent, 350 ft. above draw, bears E. and W.; descend steep NE. slope.
71.80	Draw, 40 ft. below top of ascent, drains SE.; ascend abrupt SW. slope.
75.30	Spur, 120 ft. above draw, projects S. 30° E.; thence ascend gradually along steep E. slope.
79.29	On steep E. slope, 40 ft. above spur.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for cor. secs. 26, 27, 34, and 35, with brass cap marked
	T37S | R13W S27 | S26 S34 | S35 1936

SUBDIVISION OF, T. 37 S., R. 13 W.

Chains

Deposit a limestone, 10 x 10 x 6 ins., at base of post, marked A.

No suitable bearing trees available.

Land, broken and mountainous, with a general southeasterly exposure and drainage. Limestone formation.

Soil, shallow clay and sand, mixed with rock; 4th rate.

Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.

Timber, a few scattered juniper and pinon.

Fair grazing land.

From the cor. secs. 25, 26, 35, and 36.

N. 89°54' W., on a governing section line, bet. secs. 26 and 35.

Ascend steep N. slope of broken mountainous land, through dense undergrowth.

5.80 Old road, bears N. and S.

11.30 Low saddle in spur, projects SE.; ascend steep SE. slope.

18.80 Ridge, 200 ft. above cor., bears N. and S.; descend steep W. slope.

35.40 Draw, 480 ft. below ridge, drains S.; ascend steep E. slope.

39.50 Spur, 50 ft. above draw, projects S. 10° W.; descend steep SW. slope.

40.01 On steep SW. slope, 10 ft. below spur.

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock and in a large mound of stone, for a sec. cor., with brass cap marked

S26
¼
S35

from which

a red cedar, 12 ins. diam., bears N. 35° W., 24 lks. dist., marked S26 BT.

No other bearing tree available.

47.30 Draw, 160 ft. below cor., drains S.; ascend steep E. slope.

53.60 Spur, 150 ft. above draw, projects SE.; descend gradually along S. slope.

65.30 Draw, 80 ft. below spur, drains S. 60° E.; ascend steep N. slope.

80.02 The cor. secs. 26, 27, 34, and 35, 350 ft. above draw.

Land, broken and mountainous, with a general southeasterly exposure and drainage. Limestone and granite formation.

SUBDIVISION OF, T. 37 S., R. 13 W.

Chains	
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry and bitter brush.
	Timber, a few scattered juniper and pinon.
	Fair grazing land.
	N. 89°54' W., on a governing section line, bet. secs. 27 and 34.
	Ascend steep E. slope of broken mountainous land, through scattered timber and dense undergrowth.
3.70	Spur, 70 ft. above cor., projects S. 80° E.; descend gradually along S. slope.
10.40	Draw, 20 ft. below spur, drains S. 70° E.; ascend gradual E. slope.
26.20	Spur, 250 ft. above draw, projects SE.; descend gradually along S. slope.
38.40	Top of E. rim of ridge, 60 ft. below spur, bears N. 30° E. and S. 30° W.; thence across flat top of ridge.
39.20	Old road, bears N. 30° E. and S. 30° W.
40.00	On W. rim of ridge, bears N. 30° E. and S. 30° W.
	Set an iron post, [illegible] ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone to top, for a sec. cor., with brass cap marked S27 S34 1936 deposit a limestone, 9 x 9 x 5 ins., at base of post, marked X.
	No suitable bearing trees available.
	Thence descend abrupt SW. slope.
52.20	Draw, 270 ft. below cor., drains S. 60° W.; ascend steep SE. slope.
53.80	Top of red limestone spur, 30 ft. above draw, projects S. 60° W.; descend steep rocky SW. slope.
79.60	Draw, 420 ft. below spur, drains NW.; ascend steep NE. slope.
82.91	The cor. secs. 27, 28, 33, and 34, 50 ft. above draw, heretofore described.
	Land, rough and mountainous, with a general southerly exposure and drainage. Limestone formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.

Chains

Undergrowth, manzanita, mahogany, sage, service berry, and bitter brush.

Timber, scattered juniper and pinon.

Fair grazing land.

From the cor. secs. 26, 27, 34, and 35.

N. 0°11' E., bet. secs. 26 and 27.

Ascend gradually along SE. slope of broken mountainous land, through dense undergrowth.

12.90 Top of ascent, bears NW. and SE., 180 ft. above cor.; descend gradually over NE. slope.

16.70 Draw, 20 ft. below top of ascent, drains SE., and heads N. 60° W., about 4.00 chs. dist.; ascend abrupt S. slope.

33.10 Slope changes from an abrupt S. slope to an abrupt SE. slope.

40.00 On abrupt SE. slope, 570 ft. above draw.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked

¼
S27 | S26
1936

deposit a limestone, 10 x 8 x 8 ins., at base of post, marked X.

43.50 Ridge, 30 ft. above the ¼ sec. cor., bears N. 80° E. and S. 80° W.; descend gradual N. slope.

47.90 Draw, 40 ft. below ridge, drains N. 80° E., and heads S. 80° W., about 7.00 chs. dist.; ascend gradual S. slope

53.40 Spur, 30 ft. above draw, projects E., about 6.00 chs. dist. to end; descend gradual N. slope.

57.90 Draw, 30 ft. below spur, drains S. 80° E., and heads N. 80° W., about 6.00 chs. dist.; dense growth of aspen timber along bottom of draw; ascend steep rocky S. slope.

63.80 Ridge, 100 ft. above draw, bears N. 75° E., and W., about 6.00 chs. dist. to junction with ridge bearing N. and S.; descend gradually along broken E. slope.

70.10 Clump of dense aspen timber on line.

72.30 Draw, 80 ft. below ridge, drains NE., and heads S. 80° W. about 3.00 chs. dist. in saddle of ridge; ascend steep broken SE. slope.

77.60 Top of rise, 60 ft. above draw, bears E. and W.; descend gradual N. slope.

80.00 On gradual N. slope, 30 ft. below top of rise.

Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground to solid rock and in a large mound of stone, for cor. secs. 22, 23, 26, and 27, with brass cap marked

Chains	
	T37S | R13W S22 | S23 S27 | S26 1936 deposit a limestone, 10 x 8 x 8 ins., at base of post, marked X. Land, broken and mountainous, with a general easterly exposure and drainage. Limestone and granite formation. Soil, shallow sand and clay, with a rocky surface; 4th rate. Undergrowth, manzanita, mahogany, sage, service berry, and bitter brush. Timber, a few clumps of dense aspen. Fair grazing land.
	S. 89°54' E., on random line, bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect the N. and S. line, 5 lks. N. of the cor. secs. 23, 24, 25, and 26.
	Thence:
	N. 89°52' W., on true line, bet. secs. 23 and 26.
	Ascend general SE. slope of broken mountainous land, through dense undergrowth.
15.80	Wide draw, 150 ft. above cor., drains S.; ascend gradually over broken S. slope.
19.80	Top of ascent on S. slope, 90 ft. above draw, bears N. and S.; descend gradually along S. slope.
27.00	Ridge, 10 ft. below top of ascent, bears NE. and S. 80° W.; descend steep NW. and W. slope.
37.60	Small draw near head, 130 ft. below ridge, drains N., 2.00 chs. dist. to main draw; ascend gradual NE. slope.
39.99	On gradual NE. slope, 50 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked S23 ¼ S26 1936 deposit a limestone, 9 x 8 x 8 ins., at base of post, marked X.
43.00	Begin more abrupt ascent over general N. slope, bears NE. and SW.
55.80	Top of ascent on N. slope, 300 ft. above the ¼ sec. cor., bears N. and S.; descend gradually along N. slope.

Chains	
59.30	Draw, 20 ft. below top of ascent, drains N. 80° E.; ascen general E. slope.
76.70	Enter grove of dense aspen timber, bears N. and S.
79.50	Leave grove of aspen timber, bears N. and S.
79.98	The cor. secs. 22, 23, 26, and 27, 530 ft. above the ¼ sec. cor.
	Land, broken and mountainous, with a general easterly exposure and drainage. Limestone and granite formation.
	Soil, shallow gravel with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, service berry, and bitter brush.
	Timber, grove of aspen on W. portion of mile.
	Fair grazing land.
	N. 89°54' W., on random line, bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. cor. secs. 21 and 22.
83.32	Intersect the cor. secs. 27 and 28, heretofore described.
	Thence:
	S. 89°54' E., on true line, along the N. bdy. sec. 27.
	Ascend gradual W. slope of broken mountainous land, throug dense undergrowth.
1.90	Forest Service fence, bears N. and S.
3.32	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for cor. secs. 21 and 22, with brass cap marked

T37S | R13W
S21 | S22
S27

1936

deposit a limestone, 9 x 8 x 8 ins., at base of post, marked X.

23.80	Trail, bears NW. and SE.
28.50	Slope changes from a gradual W. slope to a steep SW. slope
39.60	Ridge, 540 ft, above cor. secs. 27 and 28, bears N. 35° W. and S. 55° E.; descend gradual NE. slope.
43.32	On gradual NE. slope, 20 ft. below top of ridge.
	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked

¼ S22
S27

1936

Chains	
	Deposit a limestone, 9 x 9 x 6 ins., at base of post, marked X.
47.40	Slope changes from a gradual NE. slope to a gradual E. slope.
50.50	Old road, bears N. and SE.
56.70	Slope changes from a gradual E. slope to a steep NE. slope.
65.10	Large main draw, 200 ft. below the ¼ sec. cor., drains NW., about 8.00 chs. dist., thence N.; ascend gradually along broken S. slope.
80.80	Top of main ridge, 180 ft. above draw, bears N. and S.; small saddle in ridge at this point; descend gradual E. slope.
83.32	The cor. secs. 22, 23, 26, and 27, 30 ft. below ridge.
	Land, broken and mountainous, with a general northeasterly and southwesterly exposure and drainage. Limestone and granite formation.
	Soil, shallow sand and clay, mixed with rock; 4th rate.
	Undergrowth, manzanita, mahogany, maple, service berry, sage, and oak brush.
	No timber.
	Fair grazing land.
	N. 0°11' E., bet. secs. 22 and 23.
	Ascend steep E. and SE. slope of broken mountainous land, through dense undergrowth.
5.90	Spur, 90 ft. above cor., projects N. 70° E.; descend gradually along rolling E. slope of ridge to the W.
13.00	Draw, 120 ft. below spur, drains E., and heads W., about 6.00 chs. dist.; ascend gradual SE. slope through dense undergrowth and scattered aspen timber.
17.30	Spur, 60 ft. above draw, projects E.; descend gradually along E. slope.
25.50	Enter grove of dense aspen timber, bears E. and W.
27.50	Leave grove of dense aspen timber, bears E. and W.
32.40	Draw, 210 ft. below spur, drains E. and heads W., 2.00 chs. dist.; ascend steep SE. slope.
37.60	Top of ridge and junction of spur with ridge, 120 ft. above draw, ridge bears NE. and S. 30° W., and spur projects N. 75° E.; descend gradual N. slope.
40.00	On gradual N. slope, 40 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked

¼

S22 | S23

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Chains	
	Deposit a limestone, 10 x 8 x 8 ins., at base of post, marked X.
52.50	Slope changes from a gradual N. slope to an abrupt NW. slope.
59.60	Slope becomes gradual, bears NE. and SW.
69.40	Slope changes from a gradual NW. slope to an abrupt N. slope.
77.70	Bottom of large main draw, 720 ft. below the ¼ sec. cor., drains N. 80° E., about 8.00 chs. dist., thence N. 20° E. ascend steep rocky SE. slope.
80.00	On steep rocky SE. slope, 120 ft. above draw, mark a cross (X), on the surface rock, over which.
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for cor. secs. 14, 15, 22, and 23, with brass cap marked

T37S	R13W
S15	S14
S22	S23

1936

Land, broken and mountainous, with a general easterly and northwesterly exposure and drainage. Limestone and granite formation.

Soil, shallow sand and clay, with a rocky surface; 4th rate.

Undergrowth, manzanita, mahogany, maple, sage, and oak brush.

Timber, scattered groves of dense aspen on portions of mile.

Fair grazing land.

	S. 89°52' E., on random line, bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect the N. and S. line, 3 lks. N. of the cor. secs. 13, 14, 23, and 24.
	Thence:
	N. 89°51' W., on true line, bet. secs. 14 and 23.
	Descend steep rocky NW. and W. slope of broken mountainous land, through dense undergrowth.
18.80	Bottom of large draw, 160 ft. below cor., drains N.; ascend abrupt E. slope.
27.20	Low spur, 80 ft. above draw, projects N.; descend abrupt W. slope.
35.50	Deep ravine, 180 ft. below spur, drains NE.; ascend broken NE. slope.
39.98	On broken NE. slope, 130 ft. above ravine.

SUBDIVISION OF, T. 37 S., R. 13 W.

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S14 / S23 1936 from which
	A mahogany, 4 ins. diam., bears N. 34°30' E., 14 lks. dist., marked ¼ S14 BT.
	A mahogany, 3 ins. diam., bears S. 44°45' W., 20 lks. dist., marked ¼ S23 BT.
64.20	Ridge, 200 ft. above the ¼ sec. cor., bears NE. and S. 30°W. descend steep NW. slope.
67.40	Enter grove of aspen timber, bears N. 20° W. and S. 20° E.
69.00	Leave grove of aspen timber, bears N. 20° W. and S. 20° E.
75.00	Bottom of large main draw, 300 ft. below ridge, drains N. from the SW.; ascend steep SE. slope.
79.00	Top of ascent, 180 ft. above draw, bears NW. and SE.; descend gradually.
79.96	The cor. secs. 14, 15, 22, and 23, 10 ft. below top of ascent.
	Land, broken and mountainous, with a general northeasterly exposure and drainage. Limestone formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, mahogany, manzanita, sage, oak, service berry, and bitter brush.
	Timber, grove of aspen on W. portion of mile.
	Fair grazing land.
	N. 0°11' E., bet. secs. 14 and 15.
	Ascend abrupt SE. slope of broken mountainous land, through dense undergrowth.
3.60	Top of ascent, 110 ft. above cor., bears W., and slopes E., about 6.00 chs. dist. to large draw; descend gradually along E. slope.
16.20	Draw 170 ft. below top of ascent, drains E.; ascend steep SE. slope.
27.20	Top of ascent, 120 ft. above draw, bears E. and W.; descend gradual E. and NE. slopes.
28.90	Small draw, 30 ft. below top of ascent, drains SE.; ascend steep SW. slope.
37.00	Top of ascent on W. slope of rocky knoll, 100 ft. above draw, bears E. and W.; descend gradual NW. slope.

Chains	
40.00	On gradual NW. slope, 30 ft. below top of ascent.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S15 | S14 1936
	from which
	A pinon, 10 ins. diam., bears N. 1°30' E., 407 lks. dist., marked ¼ S14 BT.
	A pinon, 10 ins. diam., bears N. 7°45' W., 466 lks. dist., marked ¼ S15 BT.
43.50	Base of descent, 40 ft. below the ¼ sec. cor., bears E. and N.; ascend steep rocky SW. slope through medium dense juniper and pinon timber.
49.20	Top of ascent, 60 ft. above base of descent, bears E. and N.; descend gradually along NW. slope.
55.10	Base of descent, 60 ft. below top of ascent, bears NW. and SE.; ascend gradual SW. slope.
63.10	Top of ascent on N. slope of knoll, 30 ft. above base of descent, bears E. and N.; descend gradually along N. slope.
72.00	Draw, 120 ft. below top of ascent, drains NE.; ascend gradual SE. slope.
80.00	At top of ascent, 70 ft. above draw, bears E. and N.
	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock and in a large mound of stone, for cor. secs. 10, 11, 14, and 15, with brass cap marked
	T37S R13W S10 | S11 S15 | S14 1936
	from which
	A pinon, 5 ins. diam., bears S. 60° E., 38 lks. dist., marked T37S R13W S14 BT.
	A pinon, 6 ins. diam., bears N. 5° W., 128 lks. dist., marked T37S R13W S10 BT.
	No other suitable bearing trees available.
	Land, broken and mountainous, with a general northeasterly exposure and drainage. Granite and limestone formation.
	Soil, shallow clay and sand with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, service berry, oak, and bitter brush.
	Timber, juniper and pinon on N. portion of mile.
	Fair grazing land.

Chains	
	S. 89°51' E., on random line, bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect the N. and S. line, 5 lks. S. of the cor. secs. 11, 12, 13, and 14.
	Thence:
	N. 89°53' W., on true line, bet. secs. 11 and 14.
	Ascend abrupt E. slope of broken mountainous land, through scattered timber and dense undergrowth.
8.80	Ascent becomes more gradual, bears N. and S.
21.70	Slope changes from an E. slope to a NE. slope.
39.97	On gradual NE. slope, 390 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to solid rock and in a largemound of stone, for ¼ sec. cor., with brass cap marked
	¼ S11 / S14 1936
	from which
	A pinon, 6 ins. diam., bears S. 35°45' E., 90 lks. dist., marked ¼ S14 BT.
	A pinon, 6 ins. diam., bears N. 23°45' W., 46 lks. dist., marked ¼ S11 BT.
51.00	Slope changes from a gradual NE. slope to a gradual E. slope, and timber becomes more scattered, bears N. and S.
65.10	Spur, 210 ft. above the ¼ sec. cor., projects NE.; descend gradual NW. slope.
65.60	Draw, 60 ft. below spur, drains NE.; ascend gradual SE. slope.
79.94	The cor. secs. 10, 11, 14, and 15, 75 ft. above draw.
	Land, broken and mountainous, with a general northeasterly exposure and drainage. Limestone formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	N. 0°11' E., bet. secs. 10 and 11.
	Descend gradual NE. slope of broken mountainous land, through scattered timber and dense undergrowth.
26.00	Draw, 180 ft. below cor., drains E.; ascend gradually

Chains	
	along rocky W. slope.
29.20	Low spur, 40 ft. above draw, projects E.; descend gradual NE. slope.
33.50	Slope changes from a gradual NE. slope to a steep N. slope.
40.00	On steep N. slope, 370 ft. below spur.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked

¼

S10 | S11

1936

deposit a limestone, 9 x 9 x 6 ins., at base of post, marked X.

54.20	Draw, 350 ft. below the ¼ sec. cor., drains E.; ascend steep S. slope.
73.60	Spur, 640 ft. above draw, projects N. 85° E.; descend gradual NW. slope.
80.00	On gradual NW. slope, 80 ft. below spur.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for cor. secs. 2, 3, 10, and 11, with brass cap marked

T37S S3	R13W S2
S10	S11

1936

from which

A pinon, 12 ins. diam., bears N. 4° E., 293 lks. dist., marked T37S R13W S2 BT.

A pinon, 7 ins. diam., bears S. 79°15' E., 110 lks. dist., marked T37S R13W S11 BT.

A pinon, 7 ins. diam., bears S. 27°45' W., 105 lks. dist., marked T37S R13W S10 BT.

A pinon, 10 ins. diam., bears N. 12°30' W., 240 lks. dist., marked T37S R13W S3 BT.

Land, broken and mountainous, with a general easterly exposure and drainage. Limestone and granite formation.

Soil, shallow gravel with a rocky surface; 4th rate.

Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.

Timber, juniper and piñon.

Fair grazing land.

S. 89°53' E., on random line, bet. secs. 2 and 11.

Chains	
40.00	Set temp. ¼ sec. cor.
79.88	Intersect the N. and S. line, 7 lks. N. of the cor. secs. 1, 2, 11, and 12.
	Thence:
	N. 89°50' W., on true line, bet. secs. 2 and 11.
	Ascend steep SE. slope of broken mountainous land, through dense timber and scattered undergrowth.
11.00	Slope changes from a steep SE. slope to a steep E. slope.
25.90	Spur, 580 ft. above cor., projects S. 30° E.; thence ascend gradual SE. slope.
35.20	Spur, 710 ft. above sec. cor., projects S.; descend steep SW. slope.
39.94	On steep SW. slope, 10 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S2 / S11
	1936
	from which
	A pinon, 7 ins. diam., bears N. 47°45' E., 53 lks. dist., marked ¼ S2 BT.
	A pinon, 9 ins. diam., bears S. 70°30' W., 72 lks. dist., marked ¼ S11 BT.
51.40	Draw, 140 ft. below the ¼ sec. cor., drains S. 10° E.; ascend steep E. slope.
66.00	Spur, 340 ft. above draw, projects N. 80° E.; descend gradually along N. slope.
79.88	The cor. secs. 2, 3, 10, and 11, 50 ft. below spur.
	Land, broken and mountainous, with a general southeasterly exposure and drainage. Limestone and granite formation.
	Soil, shallow clay and sand, mixed with rock; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.
	Timber, scrub juniper and pinon.
	Fair grazing land.
	N. 0°21' E., on true line, bet. secs. 2 and 3.
	Descend steep N. slope of broken mountainous land, through dense timber and undergrowth.
1.60	Draw, 25 ft. below cor., drains N. 80° E.; ascend steep rocky S. slope.

Chains	
6.80	Spur, 60 ft. above draw, projects E., about 8.00 chs. dist. to end.; descend steep NE. slope.
8.00	Head of draw, 30 ft. below spur, drains E.; ascend gradual SE. slope.
12.10	Spur, 30 ft. above head of draw, projects E., 5.00 chs. dist. to end; descend steep NE. slope.
16.80	Bottom of large main draw, 120 ft. below spur, drains SE.; ascend steep rocky S. slope.
23.50	Rocky spur, 140 ft. above draw, projects E.; descend gradual NE. slope.
32.30	Head of deep draw, 220 ft. below spur, drains E., about 18.00 chs. dist., thence NE.; ascend steep SE. slope.
40.00	On SE. slope, 20 ft. above head of draw.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a large mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S3 | S2 1936
	from which
	A juniper, 8 ins. diam., bears N. 67° E., 46 lks. dist., marked ¼ S2 BT.
	A juniper, 10 ins. diam., bears N. 82° W., 57 lks. dist., marked ¼ S3 BT.
47.60	Spur, 60 ft. above the ¼ sec. cor., projects N. 50° E., and bears S. 50° W., about 10.00 chs. dist. to high knoll, descend steep NW. slope.
65.70	Head of draw, 510 ft. below spur, drains NW.; and heads SE., 2.00 chs. dist.; ascend gradual SW. slope.
72.20	Low spur, 30 ft. above head of draw, projects N. 30° W.; descend gradual N. slope.
80.00	On gradual N. slope, 120 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground and in a large mound of stone, for cor. lots 4 and 5, sec. 2, and lots 1 and 8, sec. 3, with brass cap marked
	L1 | L4 S3 — S2 L8 | L5 1936
	from which
	A juniper, 6 ins. diam., bears S. 83°15' E., 94 lks. dist., marked L5 S2 BT.
	A juniper, 8 ins. diam., bears S. 42°30' W., 32 lks. dist., marked L8 S3 BT.
92.53	On gradual N. slope, 110 ft. below lot cor.; intersect the N. bdy. of the township, N. 89°50' W., 97 lks. dist. from

Chains	
	the cor. secs. 34 and 35, T. 36 S., R. 13 W., heretofore described.
	At point of intersection:
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for closing cor. secs. 2 and 3, T. 37 S., R. 13 W., with brass cap marked
	T36S R13W S34 S3 T37S C | S2 R13W C 1936
	from which
	A pinon, 8 ins. diam., bears S. 70° E., 20 lks. dist., marked T37S R13W S2 CC BT.
	A juniper, 8 ins. diam., bears S. 40°45' W., 34 lks. dist., marked T37S R13W S3 CC BT.
	Land, broken and mountainous, with a general easterly and northwesterly exposure and drainage. Limestone and granite formation.
	Soil, shallow gravel, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, service berry, oak, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	From the cor. secs. 21 and 22, heretofore described.
	N. 0°10' E., bet. secs. 21 and 22.
	Ascend gradually along broken W. slope of mountainous land, through dense undergrowth.
15.20	Trail, bears NE. and SW.
19.80	Recross trail, bears NW. and SE.
25.40	Recross trail, bears N. 70° E. and S. 70° W.
27.00	Recross trail, bears NW. and SE.
32.80	Ridge, 520 ft. above sec. cor., bears E. and W.; descend gradually over rolling NE. slope.
40.00	On rolling NE. slope, 15 ft. below top of ridge.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S21 | S22 1936

SUBDIVISION OF, T. 37 S., R. 13 W.

Chains	
	Deposit a limestone, 9 x 8 x 8 ins., at base of post, marked X.
48.30	Old road, bears N. 70° W. and S. 70° E.
53.20	Enter dense aspen timber, bears NE. and W.
56.60	Leave aspen, bears N. 20° E. and W.
62.20	Enter aspen timber, bears N. 20° E. and W.
70.00	Leave aspen, bears SE. and W.
74.10	Swale, 110 ft. below the ¼ sec. cor., drains N. 70° E., about 6.00 chs. dist. to large draw draining northwesterly; ascend steep SE. slope.
77.70	The E. point of spur, 50 ft. above swale; descend steep NE. slope.
79.00	Enter dense aspen timber, bears E. and W.
80.00	On gradual NE. slope, 60 ft. below the E. point of spur.
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. secs. 15, 16, 21, and 22, with brass cap marked

T37S S16	R13W S15
S21	S22

1936

from which

An aspen, 5 ins. diam., bears N. 57° E., 13 lks. dist., marked T37S R13W S15 BT.

An aspen, 5 ins. diam., bears S. 38°15' E., 25 lks. dist., marked T37S R13W S22 BT.

An aspen, 6 ins. diam., bears S. 34°45' W., 24 lks. dist., marked T37S R13W S21 BT.

An aspen, 6 ins. diam., bears N. 48°30' W., 27 lks. dist., marked T37S R13W S16 BT.

Land, rolling and mountainous, with a general southwesterly and northeasterly exposure and drainage. Limestone and granite formation.

Soil, shallow clay and sand, with a gravelly surface; 4th rate.

Undergrowth, manzanita, mahogany, sage, oak, service berry and bitter brush.

Timber, groves of dense aspen on N. portion of mile.

Good grazing land.

	S. 89°54' E., on random line, bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect the N. and S. line, 5 lks. N. of the cor. secs. 14, 15, 22, and 23.

SUBDIVISION OF T. 57 S. R. 13 W.

Chains	
	N. 89°52' E., on true line, bet. secs. 15 and 22.
	Ascend abrupt SE. slope of broken mountainous land, through dense undergrowth.
9.00	Slope changes from an abrupt SE. slope to a gradual NE. slope.
34.70	Small rise, 560 ft. above sec. cor., bears N. and S.; descend gradually.
40.04	On broken top of mountainous land, 10 ft. below rise.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S15 / S22
	1936
	from which
	An oak, 5 ins. diam., bears N. 84°15' E., 197 lks. dist., marked ¼ S15 BT.
	An aspen, 7 ins. diam., bears S. 48°15' E., 73 lks. dist., marked ¼ S22 BT.
41.00	Enter scattered timber, bears NW. and SE.
48.40	Trail, bears NE. and S. 20° W.
54.50	Begin gradual ascent along N. slope, bears N. and S.
57.60	Trail, bears NW. and SE.; thence ascend gradual E. slope.
62.70	Ridge, 260 ft. above the ¼ sec. cor., bears NW. and SE.; descend abrupt W. slope.
76.10	Draw, 270 ft. below ridge, drains N. 35° W.; ascend gradual NE. slope.
80.08	The cor. secs. 15, 16, 21, and 22, 70 ft. above draw.
	Land, broken and mountainous, with a general southeasterly exposure and drainage. Limestone and granite formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry and bitter brush.
	Timber, clumps of aspen on portions of mile.
	Good grazing land.
	N. 0°10' E., bet. secs. 15 and 16.
	Descend steep NE. slope of broken mountainous land, through dense aspen timber and undergrowth.
3.00	Leave aspen timber, bears E. and W.
7.90	Draw, 130 ft. below cor., drains N. 35° W.; ascend steep SW. slope.

Chains	Remarks
19.70	Ridge, 140 ft. above draw, bears N. 30° W. and S. 30° E.; descend gradual N. slope.
30.00	Enter scattered juniper and balsam timber, bears E. and W.
40.00	On gradual N. slope, 270 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S16 | S15 1936
	from which
	A mahogany, 4 ins. diam., bears S. 36° E., 62 lks. dist., marked ¼ S15 BT.
	A pinon, 5 ins. diam., bears N. 16°15' W., 52 lks. dist., marked ¼ S16 BT.
46.40	Slope changes from a gradual N. slope to a gradual NE. slope.
49.90	Enter medium dense aspen timber, bears NW. and SE.
51.20	Large main draw, 180 ft. below the ¼ sec. cor., drains N. 35° W.; ascend steep SW. slope.
52.40	Leave aspen timber, bears NW. and SE.
58.50	Ascent becomes gradual, bears NW. and SE.
62.60	Rim of large main draw, 140 ft. above bottom, bears NW. and SE.; descend gradually.
80.00	On rolling land, 70 ft. below rim of draw.
	Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to solid rock and in a large mound of stone, for cor. secs. 10 and 15, with brass cap marked
	T37S | R13W S10 S16 | S15 1936
	from which
	A mahogany, 3 ins. diam., bears N. 74° E., 84 lks. dist., marked BT.
	A mahogany, 3 ins. diam., bears S. 9° E., 169 lks. dist., marked S15 BT.
	Land, broken and rolling, with a general northwesterly exposure and drainage. Limestone and granite formation.
	Soil, shallow sand and clay, mixed with rock; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service, and choke cherry brush.
	Timber, aspen, juniper, and balsam, on portion of mile.
	Good grazing land.

SUBDIVISION OF, T. 37 S., R. 13 W.

Chains	
	S. 89°52' E., on random line, bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect the N. and S. line, 5 lks. N. of the cor. secs. 10, 11, 14, and 15.
	Thence:
	N. 89°50' W., on true line, bet. secs. 10 and 15.
	Over rolling bench land, through scattered timber and dense undergrowth.
3.55	Center of goat corral, 1.50 chs. in diam., bears S. 53°15' W., 14.38 chs. dist.
40.05	On rolling bench land, 110 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked
	S10 / S15 / 1936
	from which
	A red cedar, 25 ins. diam., bears N. 36°30' E., 85 lks. dist., marked ¼ S10 FT.
	A mahogany, 14 ins. diam., bears S. 32°30' E., 18 lks. dist., marked ¼ S15 FT.
41.50	Top of W. rim of rolling bench land, bears N. 20° W. and S. 20° E.; descend steep W. slope.
46.00	Trail, bears N. 20° W. and SE.
50.50	Bottom of deep narrow draw, 120 ft. below the ¼ sec. cor., drains N. 20° W.; ascend steep E. slope.
66.00	Top of E. rim of rolling bench land, bears N. 20° W. and S. 20° E.; thence over rolling top of bench land.
80.10	The cor. secs. 10 and 15, 250 ft. above draw.
	Land, rolling top of broken slopes of bench.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	N. 0°10' E., along the W. bdy. sec. 10.
	Descend gradual N. slope of rolling mountainous land, through dense undergrowth.
9.45	The closing cor. secs. 9 and 16, subsequently set at this point.

Chains	
23.50	Top of N. rim of rolling land, bears E. and S. 85° W.; descend abrupt N. slope.
37.80	Head of draw, 640 ft. below cor. secs. 10 and 15, drains W.; enter scattered juniper and pinon timber, bears E. and W.; ascend steep S. slope.
40.00	On steep S. slope, 20 ft. above head of draw.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor. sec. 10, with brass cap marked
	¼ S10 1936
	from which
	A pinon, 5 ins. diam., bears N. 20° E., 58 lks. dist., marked ¼ S10 BT.
	A red cedar limb, 8 ins. diam., bears S. 58½° E., 208 lks dist., marked ¼ S10 BT.
47.50	Ridge, 120 ft. above the ¼ sec. cor., bears E., and W., 4.00 chs. dist., thence NW.; descend steep N. slope.
49.45	Point midway bet. the closing cors. of secs. 9 and 16, and secs. 4 and 9.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 9, with brass cap marked
	¼ S9 1936
	deposit a limestone, 10 x 9 x 9 ins., at base of post, marked X.
	No suitable bearing trees available.
58.90	Draw, 290 ft. below ridge, drains N. 30° W., about 10.00 chs. dist., thence northerly; ascend gradually along broken W. slope.
70.90	Top of ascent on W. slope, 40 ft. above draw, bears E. and W.; descend gradually along W. slope.
74.80	Draw, 110 ft. below top of ascent, drains N. 30° E., about 8.00 chs. dist., thence northerly; ascend along steep E. slope.
80.00	On steep E. slope, 30 ft. above draw.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for cor. secs. 3 and 10, with brass cap marked
	T37S | R13W S3 S9 | S10 1936
	from which

Chains	
	A juniper, 8 ins. diam., bears N. 38°15' E., 32 lks. dist., marked T37S R13W S3 BT.
	A juniper limb, 4 ins. diam., bears S. 46° E., 120 lks. dist., marked T37S R13W S10 BT.
	Land, broken and mountainous, with a general northerly exposure and drainage. Limestone formation.
	Soil, shallow clay and sand, mixed with rock; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry, and choke cherry brush.
	Timber, juniper and pinon.
	Fair grazing land.
	S. 89°50' E., on random line, bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect the N. and S. line, 5 lks. S. of the cor. secs. 2, 3, 10, and 11.
	Thence:
	N. 89°52' W., on true line, bet. secs. 3 and 10.
	Descend gradually along N. slope of broken mountainous land, through dense timber and undergrowth.
3.00	Draw, 10 ft. below cor., drains N. 80° E.; ascend gradual SE. slope.
14.80	Slope changes from a gradual SE. slope to a gradual S. slope.
3[illegible].50	Ridge, 15 ft. above draw, bears N. and W. 20° W.; descend gradually.
40.06	On broken land, 60 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked ¼ S3 / S10 1936 from which
	A pinon, 8 ins. diam., bears N. 29°30' E., 44 lks. dist., marked ¼ S3 BT.
	A pinon, 10 ins. diam., bears S. 2° W., 252 lks. dist., marked ¼ S10 BT.
41.50	Head of draw, 20 ft. below the ¼ sec. cor., drains NW.; ascend steep NE. slope.
49.50	Spur, 30 ft. above head of draw, projects NW.; descend steep NW. slope.
70.00	Slope changes from a steep NW. slope to a steep W. slope.

Chains	
77.80	Draw, 470 ft. below spur, drains N.; ascend steep E. slop
80.12	The cor. secs. 3 and 10, 70 ft. above draw.
	Land, broken and mountainous, with a general northwesterl exposure and drainage. Limestone formation.
	Soil, shallow sand and clay, with a rocky surface; 4th rate.
	Undergrowth, sage, oak, manzanita, mahogany, service berry, and choke cherry.
	Timber, juniper and pinon.
	Fair grazing land.
	N. 0°20' E., on true line, along the W. bdy. sec. 3.
	Ascend gradually along steep E. slope of broken mountainou land, through dense timber and undergrowth.
4.60	Top of ascent on E. slope, 40 ft. above cor., bears E. and W.; descend gradually along E. slope.
9.45	The closing cor. secs. 4 and 9, subsequently set at this point.
10.20	Four strand barbed wire fence, bears NE., and SW., about 2.00 chs. dist., thence Southerly.
16.80	Small draw, 120 ft. below top of ascent, drains N. 80° E., about 5.00 chs. dist. to junction with main draw draining northerly; ascend gradually along steep E. slope.
21.80	Top of ascent on E. slope, 40 ft. above draw, bears N. and S. 20° W.; descend gradually.
26.20	Fence, bears N. 5° W. and S. 20° E.
28.50	Same fence, bears N. 10° E. and S. 5° W.
40.00	On broken E. slope of high point on ridge to the W., 120 ft. below top of ascent.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor., sec. 3, with brass cap marked
	¼ S3
	1936
	from which
	A juniper limb, 6 ins. diam., bears N. 45°30' E., 128 lks dist., marked ¼ S3 BT.
	No other suitable bearing tree available.
45.80	Small draw, 25 ft. below the ¼ sec. cor., drains E.; continue along broken E. slope.
46.80	Four strand barbed wire fence, bears E. and W.
50.95	Point midway bet. the closing cors. of secs. 3 and 4, and secs. 4 and 9.

SUBDIVISION OF T. 37 S., R. 13 W.

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor. sec. 4, with brass cap marked ¼ S4 1936 raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
51.30	Spur, 70 ft. above draw, projects E.; descend steep N. slope.
65.40	Draw, 290 ft. below spur, drains NW.; ascend steep S. slope.
69.30	The W. point of spur, 50 ft. above draw; descend steep NW. slope.
72.50	Descent becomes gradual, bears NE. and SW.
80.00	On gradual NW. slope, 90 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for cor. of lots 4 and 5, sec. 3, with brass cap marked L4 / L5 S3 1936 from which
	A pinon, 14 ins. diam., bears N. 6°45' E., 54 lks. dist., marked L4 S3 BT.
	A juniper, 6 ins. diam., bears S. 59°15' E., 99 lks. dist., marked L5 S3 BT.
92.45	Intersect the N. bdy. of the township, N. 89°46' W., 53 lks. dist. from the cor. of secs. 33 and 34, T. 36 S., R. 13 W., heretofore described.
	At point of intersection, on gradual NW. slope, 130 ft. below spur.
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for closing cor. secs. 3 and 4, T. 37 S., R. 13 W., with brass cap marked T36S R13W S33 S4 T37S C / S3 R13W C 1936 from which
	A juniper, 8 ins. diam., bears S. 51° E., 41 lks. dist., marked T37S R13W S3 CC BT.
	A pinon, 7 ins. diam., bears S. 20°30' W., 9 lks. dist., marked T37S R13W S4 CC BT.
	Land, broken and mountainous, with a general easterly and northwesterly exposure and drainage.

Chains	
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	From the ¼ sec. cor. secs. 4 and 9, heretofore described.
	East, bet. secs. 4 and 9.
	Ascend steep W. slope of broken mountainous land, through scattered timber and dense undergrowth.
12.00	Spur, 110 ft. above the ¼ sec. cor., projects N.; descend steep E. slope.
21.60	Head of draw; 90 ft. below spur, drains N.; ascend steep W. slope.
32.90	Spur, 280 ft. above head of draw, projects N.; thence along steep N. slope.
37.40	Slope changes from a steep N. slope to a steep E. slope.
40.85	Four strand barbed wire fence, bears S. 10° W., and N. 10° E., 60 lks. dist., thence NE.
41.48	Intersect the W. bdy. sec. 3, N. 0°20' E., 9.45 chs. dist. from the cor. secs. 3 and 10.
	At point of intersection, on steep E. slope, 140 ft. below spur.
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for closing cor. secs. 4 and 9, with brass cap marked

T37S
C S4 | S3
C S9
R13W

1936

from which

A juniper, 12 ins. diam., bears S. 59°45' W., 27 lks. dist., marked T37S R13W S9 CC BT.

A pinon, 6 ins. diam., bears N. 21°30' W., 27 lks. dist., marked T37S R13W S4 CC BT.

Land, broken and mountainous, with a general northerly exposure and drainage. Limestone formation.

Soil, shallow clay and sand, mixed with rock; 4th rate.

Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.

Timber, juniper and pinon.

Fair grazing land.

SUBDIVISION OF T. 37 S., R. 13 W.

Chains	
	From the cor. secs. 15, 16, 21, and 22.
	West, on a random line for alinement only, and intersect the W. bdy. of the township, S. 0°23' E., 4.20 chs. dist. from the cor. secs. 13 and 24, heretofore described.
	Thence:
	From the cor. secs. 15, 16, 21, and 22.
	West, on a sectional correction line, bet. secs. 16 and 21.
	Ascend steep NE. slope of broken mountainous land, through scattered timber and dense undergrowth.
5.00	Forest Service fence, bears N. and S.
6.90	Slope changes from a steep NE. slope to a steep N. slope.
7.00	Ridge, 100 ft. above cor., bears N. 20° W. and S.; descend gradually along steep N. slope.
19.60	Draw, 180 ft. below ridge, drains N. 20° W.; ascend gradual NE. slope, through dense aspen and balsam timber.
28.70	Timber becomes scattered, bears N. and S.
40.00	On gradual NE. slope, 210 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked S16 ¼ S21 1936 deposit a limestone, 9 x 9 x 8 ins., at base of post, marked X.
	No suitable bearing trees available.
42.40	Ridge, 20 ft. above the ¼ sec. cor., bears NW. and SE.; descend broken SW. slope.
68.70	Open draw, 380 ft. below ridge, drains S. 10° W.; ascend broken NE. slope.
75.40	Top of ascent on NE. slope, 40 ft. above draw, bears NE. and SW.; descend gradual W. slope.
80.00	On gradual W. slope, 50 ft. below top of ascent.
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. secs. 16, 17, 20, and 21, with brass cap marked T37S | R13W S17 | S16 S20 | S21 1936 from which
	A mahogany, 9 ins. diam., bears N. 77°30' E., 104 lks. dist., marked T37S R13W S16 BT.

Chains	
	A mahogany, 6 ins., diam., bears S. 47°30' E., 86 lks. dist., marked T37S R13W S21 BT.
	A yellow pine, 18 ins. diam., bears S. 74°30' W., 250 lk dist., marked T37S R13W S20 BT.
	A yellow pine, 18 ins. diam., bears N. 47°30' W., 240 lk dist., marked T37S R13W S17 BT.
	Land, broken and mountainous, with a general northwesterly exposure and drainage. Limestone and volcanic formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry and bitter brush.
	Timber, juniper, pinon, balsam, and aspen; scattered yello pine on W. portion of mile.
	Fair grazing land.
	S. 0°09' W., bet. secs. 20 and 21.
	Ascend gradual N. slope of broken mountainous land, throug scattered timber and dense undergrowth.
8.90	Slope changes from a gradual N. slope to a gradual NW. slo
9.00	Draw, drains W.
22.60	Spur, 120 ft. above cor., projects W.; descend gradual SW. slope.
30.70	Descent becomes abrupt, bears NW. and SE.
40.00	On steep SW. slope, 400 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S20 | S21 1936
	from which
	A pinon, 7 ins. diam., bears S. 64°15' E., 55 lks. dist., marked ¼ S21 BT.
	No other suitable bearing tree available.
66.50	Descent becomes gradual, bears NW. and SE.
76.82	Intersect the N. bdy. sec. 28, S. 87°37' E., 3.38 chs. dist. from the cor. secs. 28 and 29, heretofore described.
	At point of intersection, on gradual SW. slope, 710 ft. below the ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for closing cor. secs. 20 and 21, with brass cap marked

Chains	
	C C T37S R13W S20 | S21 S28 1936 from which
	A juniper, 6 ins. diam., bears N. 23°15' E., 117 lks. dist., marked CC BT. Tree too scrubby for other marks.
	A juniper, 12 ins. diam., bears N. 77°15' W., 73 lks. dist., marked T37S R13W S20 CC BT.
	Land, broken and mountainous, with a general southwesterly exposure and drainage. Limestone and granite formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	From the cor. of secs. 16, 17, 20, and 21.
	N. 0°19' E., bet. secs. 16 and 17.
	Ascend gradual W. slope of broken mountainous land, through scattered timber and dense undergrowth.
6.50	Draw, 40 ft. below cor., drains NW., about 8.00 chs. dist., thence SW.; ascend gradual SW. slope.
15.40	Low ridge, 60 ft. above draw, bears E. and W.; descend gradual N. slope.
22.80	Head of draw, 80 ft. below ridge, drains NW.; ascend gradual SW. slope.
28.30	Low spur, 30 ft. above head of draw, projects SW., 4.00 chs. dist. to end; descend gradual NW. slope.
35.70	Small dirt dam in bottom of draw, 70 ft. below spur, drains SW.; ascend gradual SE. slope.
40.00	In small sagebrush opening, on SE. slope, 20 ft. above draw. Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S17 | S16 1936 from which
	An aspen, 5 ins. diam., bears S. 54°45' E., 540 lks. dist., marked ¼ S16 BT.
	A juniper, 10 ins. diam., bears S. 23°45' W., 88 lks. dist., marked ¼ S17 BT.

Chains	
46.70	Ridge, 20 ft. above the ¼ sec. cor., bears NE. and SW.; descend gradual NW. slope.
63.00	Head of draw, 140 ft. below ridge, drains W., 1.00 chs. dist., thence NW.; ascend gradual SW. slope.
74.70	Spur, 60 ft. above head of draw, projects W., 1.50 chs. dist., thence NW.; descend gradual N. slope.
80.00	On gradual N. slope, 110 ft. below spur.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for cor. lots 4 and 5, sec. 16, and lots 1 and 8, sec. 17, with brass cap marked

L1 | L4
S17 —— S16
L8 | L5

1936

from which

An oak, 3 ins. diam., bears N. 85° E., 10 lks. dist., marked L4 S16 BT.

An oak, 3 ins. diam., bears S. 10° E., 17 lks. dist., marked L5 S16 BT.

An oak, 3 ins. diam., bears S. 75° W., 13 lks. dist., marked L8 S17 BT.

An oak, 4 ins. diam., bears N. 20° W., 11 lks. dist., marked L1 S17 BT.

89.48	Intersect the S. bdy. sec. 9, East, 1.26 lks. dist. from the cor. secs. 8 and 9, heretofore described.

At point of intersection, on gradual N. slope, 80 ft. below lot cor.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for closing cor. secs. 16 and 17, with brass cap marked

T37S R13W
S9
S17 | S16
C C
1936

deposit a limestone, 9 x 9 x 6 ins., at base of post, marked X.

No suitable bearing trees available.

Land, broken and mountainous, with a general westerly and northwesterly exposure and drainage. Limestone and granite formation.

Soil, shallow clay and sand, with a rocky surface; 4th rate.

Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.

Timber, juniper, pinon, and aspen.

Fair grazing land.

Chains	
	From the cor., secs. 8 and 9, heretofore described.
	East, on true line, along the S. bdy. sec. 9.
	Descend gradual NE. slope of broken mountainous land, through scattered timber and dense undergrowth.
1.26	The closing cor. secs. 16 and 17.
2.10	Draw, 20 ft. below cor. secs. 8 and 9, drains NW.; ascend steep SW. slope.
13.60	Spur, 170 ft. above draw, projects N. 20° W.; descend gradually over broken NE. slope.
20.80	Draw, 80 ft. below spur, drains NW.; ascend steep W. slope.
25.00	Slope changes from a steep W. slope to a gradual N. slope.
39.50	Top of ascent on N. slope, 60 ft. above draw, bears N. and S.; descend gradually along N. slope.
40.00	On gradual N. slope, 10 ft. below top of ascent.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 9, with brass cap marked
	¼ S9
	1936
	from which
	A balsam, 10 ins. diam., bears N. 16° E., 81 lks. dist., marked ¼ S9 BT.
	No other suitable bearing tree available.
41.25	Point midway bet. the closing cors. of secs. 16 and 17, and secs. 9 and 16.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 16, with brass cap marked
	¼ S16
	1936
	from which
	A mahogany, 10 ins. diam., bears S. 70° E., 58 lks. dist., marked ¼ S16 BT.
	A red cedar, 12 ins. diam., bears S. 89° W., 188 lks. dist., marked ¼ S16 BT.
47.60	Descent changes from a gradual N. slope to a steep E. slope.
54.10	Bottom of large main draw, 230 ft. below the ¼ sec. cor. for sec. 9, drains N. 20° W.; ascend abrupt W. slope.
63.90	Ascent becomes gradual, bears SE. and N. 20° W.; thence over broken top of high mountainous land.

Chains	
66.70	Top of ascent, 300 ft. above draw, bears N. and S.; thence over broken top of mountain.
66.90	Line intersects a pot hole, 2 ft. deep, in large boulder, 5 ft. in diam.
77.60	Forest Service fence, bears N. and S.
81.24	Intersect the W. bdy. sec. 10, N. 0°10' E., 9.45 chs. dist. from the cor. secs. 10 and 15, heretofore described.

At point of intersection, on gradual N. slope, 10 ft. below top of ascent.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for closing cor. secs. 9 and 16, with brass cap marked

	T37S S9	R13W
C		S10
C	S16	

1936

from which

A mahogany, 5 ins. diam., bears S. 58°45' W., 125 lks. dist., marked T37S R13W S16 CC BT.

A mahogany, 8 ins. diam., bears N. 84°15' W., 124 lks. dist., marked T37S R13W S9 CC BT.

Land, broken and mountainous, with a general northwesterly exposure and drainage. Limestone and granite formation.

Soil, shallow clay and sand, with a rocky surface; 4th rate.

Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.

Timber, juniper, piñon, and balsam.

Good grazing land.

From the cor. secs. 16, 17, 20, and 21.

West, on a sectional correction line, bet. secs. 17 and 20.

Ascend gradual E. slope of broken mountainous land, through dense undergrowth.

1.50	Low rise, 10 ft. below cor., bears S. 60° E. and N. 60° W.; descend gradual SW. slope.
5.80	Head of swale, 10 ft. below rise, drains SW.; ascend gradual SE. slope.
14.50	Top of same rise, 40 ft. above head of swale, bears N. 60° E. and S. 60° W.; descend gradual NW. slope.
17.90	Descent becomes abrupt, bears N. 60° E. and S. 60° W.
27.00	Draw, 160 ft. below rise, drains S. 10° W., about 3.50 chs. dist. to main draw draining westerly; ascend steep SE. slope.

SUBDIVISION OF, T. 37 S., R. 13 W.

Chains	
29.80	Spur, 50 ft. above draw, projects S.; descend steep rocky SW. slope.
34.20	Descent becomes more abrupt, bears NW. and SE.
40.00	On abrupt SW. slope, 120 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked ¼ S17 / S20 1936 from which
	A mahogany, 4 ins. diam., bears N. 61°45' E., 23 lks. dist., marked ¼ S17 BT.
	A mahogany, 4 ins. diam., bears S. 62°15' W., 16 lks. dist., marked ¼ S20 BT.
44.10	Bottom of main draw, 130 ft. below the ¼ sec. cor., drains N. 70° W.; thence descend gradually through dense aspen and balsam timber.
44.95	From this point, the SW. end of a watering trough at small spring, bears N. 12°15' W., 4.03 chs. dist.
45.70	The junction of draws draining from the NE. and S. 70° E., draining westerly, bears North, 1.00 chs. dist.; descend gradually.
48.00	Draw, 150 ft. below the ¼ sec. cor., drains S. 20° W.; small stream of good water in bottom of draw; leave aspen and balsam timber and ascend abrupt SE. slope.
58.00	Spur, 300 ft. above draw, projects S., about 8.00 chs. dist. to end; descend broken SW. slope.
64.60	Draw, 130 ft. below spur, drains S., 3.50 chs. dist., thence W.; ascend gradual SE. slope.
65.90	Spur, 30 ft. above draw, projects S., 3.00 chs. dist. to end; descend steep SW. slope.
73.70	Draw, 170 ft. below spur, drains S. 20° E.; ascend steep E. slope.
80.00	On steep E. slope, 100 ft. above draw.
	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock and in a large mound of stone, for cor. secs. 17, 18, 19, and 20, with brass cap marked T37S R13W S18 S17 S19 S20 1936 from which
	A mahogany, 8 ins. diam., bears S. 73° E., 73 lks. dist., marked T37S R13W S20 BT.
	A pinon, 10 ins. diam., bears S. 77°30' W., 18 lks. dist., marked T37S R13W S19 BT.

SUBDIVISION OF T. 37 S., R. 13 W.

Chains	
	A mahogany, 5 ins. diam., bears N. 18°30' W., 52 lks. dist., marked T37S R13W S18 BT.
	No suitable bearing tree available in sec. 17.
	Land, broken and mountainous, with a general southwesterly exposure and drainage. Limestone and granite formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.
	Timber, juniper, pinon, aspen, and balsam on portions of mile.
	Good grazing land.
	S. 0°09' W., bet. secs. 19 and 20.
	Descend abrupt E. slope of broken mountainous land, through scattered timber and dense undergrowth.
9.80	Rim of irregular ledge, 50 ft. high, bears E. and N. 70°W.; thence descend abrupt S. slope.
14.80	Draw, 250 ft. below cor., drains S. 80° E.; ascend steep N. slope.
32.10	Spur, 455 ft. above draw, projects S. 10° E., about 5.00 chs. dist., thence N. 80° E.; descend abrupt SW. slope.
40.00	On steep SW. slope, 70 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock and in a large mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S19 | S20 1936
	deposit a limestone, 8 x 6 x 6 ins., at base of post, marked X.
	No suitable bearing trees available.
75.50	Draw, 870 ft. below the ¼ sec. cor., drains S. 10° E., 2.00 chs. dist., thence SE.; ascend gradually along E. slope.
76.76	Intersect the N. bdy. of sec. 29, N. 89°59' E., 3.85 chs. dist. from the cor. of secs. 29 and 30, heretofore described.
	At point of intersection, on E. slope, 20 ft. above draw.
	Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock and in a large mound of stone, for closing cor. secs. 19 and 20, with brass cap marked
	C | C T37S | R13W S19 | S20 S29 1936
	from which

Chains	
	A pinon, 8 ins. diam., bears N. 64°30' E., 45 lks. dist., marked T37S R13W S20 CC BT.
	No other suitable bearing tree available.
	Land, broken and mountainous, with a general southeasterly exposure and drainage. Limestone and granite formation.
	Soil, shallow clay and sand, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	From the cor. secs. 29 and 30.
	West, on true line, bet. secs. 19 and 30.
	Ascend abrupt E. slope of broken mountainous land, through medium dense timber and undergrowth.
32.30	Ridge, 750 ft. above cor., bears N. 25° W. and S. 25° E.; descend steep W. slope.
36.15	On steep W. slope, 150 ft. below ridge, point which is a westing of 40.00 chs. from the closing cor. secs. 19 and 20.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for ¼ sec. cor. sec. 19, with brass cap marked
	¼ S19
	1936
	from which
	A pinon, 8 ins. diam., bears N. 15°30' E., 82 lks. dist., marked ¼ S19 BT.
	A pinon, 8 ins. diam., bears N. 62°30' W., 52 lks. dist., marked ¼ S19 BT.
39.60	Point midway bet. the cor. of secs. 29 and 30, and the closing cor. of secs. 19 and 30.
	On steep W. slope, 150 ft. below the ¼ sec. cor. sec. 19.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, for ¼ sec. cor. sec. 30, with brass cap marked
	¼ S30
	1936
	from which
	A pinon, 7 ins. diam., bears S. 49° E., 68 lks. dist., marked ¼ S30 BT.
	A pinon, 10 ins. diam., bears S. 34°45' W., 59 lks. dist., marked ¼ S30 BT.

Chains

Thence descend steep SW. slope.

46.50 Draw, 200 ft. below the ¼ sec. cor. sec. 30, drains S.; ascend steep SE. slope.

65.00 Ridge, 350 ft. above draw, bears N. 20° E. and S. 20° W.; descend steep rocky SW. slope.

70.00 Draw, 150 ft. below ridge, drains S. 20° W., about 5.00 chs. dist., thence W.; ascend steep SE. slope.

74.30 Spur, 100 ft. above draw, projects S., 4.00 chs. dist. to end; descend steep rocky SW. slope.

79.20 Intersect the W. bdy. of the township, S. 0°23' E., 1.19 chs. dist. from the cor. secs. 24 and 25, T. 37 S., R. 14 W., heretofore described.

At point of intersection, on rocky SW. slope, 60 ft. below spur.

Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock and in a large mound of stone, for closing cor. secs. 19 and 30, T. 37 S., R. 13 W., with brass cap marked

T37S	T37S
	S19 C
R14W	
	S30 C
S25	R13W

1936

from which

A pinon, 12 ins. diam., bears N. 50°15' E., 69 lks. dist., marked T37S R13W S19 CC BT.

A pinon, 10 ins. diam., bears S. 30°30' E., 101 lks. dist., marked T37S R13W S30 CC BT.

Land, broken and mountainous, with a general southeasterly and southwesterly exposure and drainage. Limestone and granite formation.

Soil, shallow sand and clay, with a rocky surface; 4th rate.

Undergrowth, manzanita, mahogany, oak, sage, service berry, and bitter brush.

Timber, juniper and pinon.

Fair grazing land.

From the cor. secs. 17, 18, 19, and 20.

SUBDIVISION OF T. 37 S., R. 13 W.

Chains	
	West, on a true line, between sections 18 and 19.
	Ascend gradually over broken SE. slope of mountainous land, through scattered timber and dense tall undergrowth.
2.00	Head of draw, 10 ft. above cor., drains S. 20° E.; ascend SE. slope.
8.20	Trail, bears NW. and S.
8.30	Spur, 30 ft. above sec. cor., projects S. 30° E.; thence over rolling land.
9.70	Begin abrupt descent over steep W. slope, bears N. and S. 20° E.
12.00	Saddle in top of main ridge at head of draw draining SE., 50 ft. below spur, bears N. and SW.; descend gradually.
14.50	Trail at base of descent, bears NE. and SW.; ascend gradual E. slope.
21.35	Barbed wire fence, bears N. 70° E. and S. 70° W.
25.20	Ascent becomes abrupt, bears E. and W.
35.00	Slope changes from an abrupt E. slope to an abrupt NE. slope.
36.00	Enter dense balsam timber, bears N. and S.
40.00	On abrupt NE. slope, 590 ft. above trail.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. with brass cap marked ¼ S18/S19 1936 from which
	A balsam, 10 ins. diam., bears S. 12° W., 33 lks. dist., marked ¼ S19 BT.
	A balsam, 8 ins. diam., bears N. 63°45' W., 33 lks. dist., marked ¼ S18 BT.
49.00	Leave balsam timber, bears N. and S.
50.20	Ridge, 170 ft. above the ¼ sec. cor., bears NW. and SE.; descend steep SW. slope.

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Chains	
60.60	Draw, 380 ft. below ridge, drains S. 10° W., about 12.00 chs. dist.; thence S. 80° W., and heads N. 10° E., about 8.00 chs. dist.; ascend steep SE. slope.
64.80	Low spur, 20 ft. above draw, projects S.; descend steep SW. slope.
68.80	Draw, 160 ft. below spur, drains S. 10° W.; ascend abrupt SE. slope.
76.00	Enter dense pinon and juniper timber, bears N. and S.
78.20	Spur, 240 ft. above draw, projects S. 50° W.; descend steep NW. slope.
83.76	Intersect the W. bdy. of the township, S. 0°23' E., 4.20 chs. dist. from the cor. secs. 13 and 24, T. 37 S., R. 14 W., heretofore described.

At point of intersection, on steep NW. slope, 250 ft. below spur.

Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock and in a large mound of stone, for closing cor. secs. 18 and 19, T. 37 S., R. 13 W., with brass cap marked

T37S	T37S
	S18 C
R14W	
	S19 C
S13	R13W

1936

from which

A pinon, 16 ins. diam., bears N. 24° E., 72 lks. dist., marked T37S R13W S18 CC BT.

A pinon, 12 ins. diam., bears S. 42°30' E., 35 lks. dist., marked T37S R13W S19 CC BT.

Land, broken and mountainous, with a general northerly and southwesterly exposure and drainage. Limestone and granite formation.

Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.

Timber, balsam, juniper, and pinon.

Fair grazing land.

From the cor. secs. 17, 18, 19, and 20.

N. 0°09' E., bet. secs. 17 and 18.

SUBDIVISION OF T. 37 S., R. 13 W.

Chains	
	Ascend gradually along general E. slope of broken mountainous, land, through dense undergrowth.
3.70	Rim of draw, 30 ft. above cor., bears S. 20° E. and N. 80° W.; descend abrupt NE. slope.
5.10	Draw, 80 ft. below rim, drains SE.; ascend abrupt SW. slope.
9.00	Ascent becomes gradual, bears NW. and SE.
35.00	Head of draw, drains S. 20° E.; continue descent.
40.00	On broken SW. slope, 400 ft. above the draw at the 5.10 chs. point.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S18 | S17 1936
	from which
	A mahogany, 6 ins. diam., bears N. 32° E., 22 lks. dist., marked ¼ S17 BT.
	A mahogany, 5 ins. diam., bears N. 63°30' W., 14 lks. dist., marked ¼ S18 BT.
46.00	Top of divide ridge, 40 ft. above the ¼ sec. cor., bears NE. and SW.; descend gradual NW. slope.
46.60	Barbed wire fence, bears N. 30° E. and S. 30° W.
47.20	Descent becomes abrupt, bears NE. and SW.
53.80	Draw, 220 ft. below ridge, drains S. 80° W.; ascend gradual S. slope.
56.10	Top of small rise, 30 ft. above draw, bears S. 80° W. and N. 80° E.; descend gradual N. slope.
57.60	Draw, 30 ft. below rise, drains S. 80° W.; ascend steep SW. slope.
67.50	Ascent becomes gradual, bears NW. and SE.
71.10	Spur, 180 ft. above draw, projects N. 60° W.; descend gradual N. slope.

Chains	
80.00	On gradual N. slope, 160 ft. below spur.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for cor. of lots 4 and 5, sec.17, and lots 1 and 8, sec. 18, with brass cap marked L1 | L4 S18 ——— S17 L8 | L5 1936 deposit a limestone, 10 x 10 x 5 ins., at base of post, marked X.
	No suitable bearing trees available.
88.00	Descent becomes abrupt, bears E. and W.
91.10	Intersect the S. bdy. of sec. 8, S. 88°47' E., 2.06 chs. dist. from the cor. of secs. 7 and 8, heretofore described.
	At point of intersection, 220 ft. below the lot cor., on steep N. slope.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone, for closing cor. secs. 17 and 18, with brass cap marked T37S R13W S8 ——— S18 | S17 C C 1936 from which
	a maple, 6 ins. diam., bears S. 47° W., 40 lks. dist., marked S18 CC BT.
	Tree too scrubby for other marks and no other suitable bearing trees available.
	Land, broken and mountainous, with a general southeasterly and northwesterly exposure and drainage. Limestone and granite formation.
	Soil, shallow sand and clay, with a rocky surface; 4th rate.
	Undergrowth, manzanita, mahogany, maple, sage, oak, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.

SUBDIVISION OF T. 37 S., R. 13 W.

Chains	
	From the cor. of secs. 7 and 8.
	East, on random line, along the S. bdy. sec. 8.
40.00	Set temp. ¼ sec. cor. sec. 8.
42.06	Set temp. ¼ sec. cor. sec. 17.
80.72	Fall 1.71 chs. N. of the cor. secs. 8 and 9, heretofore described. The course of the S. bdy. sec. 8, therefore is, N. 88°47' W., and the distance is 80.74 chs. Thence, from the cor. secs. 8 and 9.
	N. 88°47' W., on true line, along the S. bdy. sec. 8.
	Ascend gradual NE. slope of broken mountainous land, through scattered timber and dense undergrowth.
7.20	Ridge, 60 ft. above cor., bears N. 40° E. and S. 15° E.; descend abrupt W. slope.
26.80	Bottom of large main draw at junction with a steep draw from S. 70° E., 570 ft. below ridge, drains N.; ascend steep E. slope.
38.71	Point midway bet. the closing cors. of secs. 16 and 17, and secs. 17 and 18.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 17, with brass cap marked
	¼ S17
	1936
	deposit a limestone, 8 x 8 x 6 ins. at base of post, marked X.
	No suitable bearing trees available.
40.37	Point midway bet. the cor. of secs. 8 and 9, and secs. 7 and 8, on steep E. slope, 470 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 8, with brass cap marked
	¼ S8
	1936
	deposit a volcanic stone, 10 x 8 x 8 ins., at base of post, marked X. No suitable bearing trees available.
42.50	Spur, 50 ft. above the ¼ sec. cor. sec. 8, projects N. 25°E.; descend abrupt NW. slope.
55.10	Draw, 110 ft. below spur, drains N., and heads S., 3.50 chs. dist.; ascend abrupt NE. slope.
64.70	Ridge, 160 ft. above draw, bears N. 22° E. and S. 22° W.; descend gradual W. slope.
65.40	Barbed wire fence, bears N. 20° W. and S. 20° E.

SUBDIVISION OF T. 37 S., R. 13 W.

Chains	
72.30	Draw, 100 ft. below ridge, drains NW.; ascend steep NE. slope.
78.68	The closing cor. of secs. 17 and 18, heretofore described.
80.74	The cor. of secs. 7 and 8, 20 ft. above draw.
	Land, broken and mountainous, with a general northerly exposure and drainage. Limestone and granite formation.
	Soil, shallow clay and sand, mixed with rock; 4th rate.
	Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush.
	Timber, juniper and pinon.
	Fair grazing land.
	West, on random line along the S. bdy. sec. 7.
37.94	Set temp. ¼ sec. cor. sec. 18.
40.00	Set temp. ¼ sec. cor. sec. 7.
82.57	Intersect the W. bdy. of the township, 2.23 chs. N. of the cor. secs. 7, 12, 13, and 18, heretofore described.
	The course of the line along the S. bdy. sec. 7, therefore is, S. 88°27' W., and the distance is 82.60.
	Thence, from the cor. secs. 7 and 8.
	S. 88°27' W., on true line, along the S. bdy. sec. 7.
	Ascend gradual NE. slope of broken mountainous land, through scattered timber and dense undergrowth.
13.20	Trail, bears N. 20° E. and S. 20° W.
13.90	Spur, 30 ft. above cor., projects projects N. 30° E.; descend abrupt NW. slope.
18.60	Draw, 80 ft. below spur, drains N.; ascend abrupt NE. slope.
29.90	Ridge, 80 ft. above draw, bears N. and S. 30° E.; descend abrupt W. slope.
37.95	Point which is a westing of 40.00 chs. from the closing cor. secs. 17 and 18.
	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock and in a large mound of stone, for ¼ sec. cor. sec. 18, with brass cap marked
	¼ S18 1936
	from which
	A pinon, 5 ins. diam., bears S. 27° W., 84 lks. dist., marked ¼ S18 BT.
	No other suitable bearing trees available.

Chains	
41.30	Point midway bet. the cor. of secs. 7 and 8, and the cor. of secs. 7, 12, 13, and 18, on steep NW. slope, 370 ft. below ridge. Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and in a large mound of stone, for ¼ sec. cor. of sec 7, with brass cap marked ¼ S7 1936 deposit a limestone, 9x9x5 ins., at base of post, marked X. No suitable bearing trees available. From the above corner a water trough and spring, bears N.74°11'W., about 20.00 chs. dist.
48.10	Descent becomes gradual, bears NE and S.30°W.
56.80	Trail, bears N.20°W. and S.20°E., in bottom of large main draw, 240 ft. below the ¼ sec. cor of sec. 7, drains N.60°W.; ascend abrupt NE. slope.
67.00	Spur, 130 ft. above draw, projects N.15°W.; descend gradually.
70.00	Draw, 80 ft. below spur, drains N.; thence descend gradually over NW. slope.
79.00	Draw, 100 ft. below spur, drains N.; ascend gradual NE. slope.
82.60	The cor. of secs. 7, 12, 13, and 18, on the W. bdy. of the township, heretofore described, 40 ft. above draw. Land, broken and mountainous, with a general northerly exposure and drainage. Limestone and granite formation. Soil, shallow clay and sand, with a rocky surface; 4th rate. Undergrowth, manzanita, mahogany, sage, oak, service berry, and bitter brush. Timber, juniper and pinon. Fair grazing land.

GENERAL DESCRIPTION OF T. 37 S., R. 13 W.

The portion of T. 37 S., R. 13 W., Salt Lake Meridian, that comes under this survey is rough and mountainous, and is of a limestone, granite, and volcanic formation. The central portion consists of a high rolling plateau, and from this plateau the drainage is in all directions. The timber consists of scrub juniper and pinon and clumps of dense aspen and balsam, and is mostly found in the north and northwestern portions of the township. This timber has no commercial value except for firewood and fencing. Throughout the surveyed portion of the township a tall and dense undergrowth of manzanita, mahogany, service ice berry, sage, and oak brush is found; and on the northerly slopes numerous varieties of weeds and grass is found, which affords fair grazing for stock.

All of the west half of the township, except the north halves of sections 4, 5, and 6, is within the boundaries

of the Dixie National Forest Reserve, and the boundaries of the forest reserve in this township are fenced with a four strand barbed wire fence.

The soil consists of a shallow loose sand and clay, with a rocky surface, and may be classified as fourth rate. It contains very little vegetable matter, and is not very productive.

Numerous small streams and springs of good water were found throughout the township, which affords plenty of water for grazing purposes. A small stream heads in the NE. ¼ of section 11, and flows in a northeasterly direction through the SW. ¼ of section 1, the NW. ¼ of section 12, and the SE. ¼ of section 1, and to a fox farm located in the NW. ¼ of section 6, T. 37 S., R. 12 W., A small seep is located on the north half mile of the line between sections 25 and 26. Bumble Bee Lake, which is a small pond, about 2.00 chains in diameter, and 2 feet deep, and Bumble Bee Spring, are located in the South portion of the NE. ¼ of section 26. A small spring is located on the West half mile of the line between sections 25 and 36. The water from this spring flows about 40.00 chains distant through the NW. ¼ of section 36. A small spring is located in the SE. ¼ section 36. A small stream flows in a southwesterly direction through the SW. ¼ of section 35, and the SE. ¼ of section 34. A small stream heads in the SE. ¼ of section 9, and flows in a northerly direction through the N. ½ of section 9, and through the central portion of section 4. A small stream heads in the SE. ¼ of section 8, and flows in a northerly direction through the NE. ¼ of section 8, and through the E. half of section 5, and the N. half of section 4. Small springs were found in the SW. ¼ and the SE. ¼ of section 7, the NW. ¼ section 8, and the SW. ¼ section 17. The spring in the SW. ¼ of section 17 flows in a southwesterly direction through section 20. Watering troughs were found at this spring, and also at Bumble Bee Spring, and in the SW. ¼ of section 7.

Stock corrals were found in the NE. ¼ of section 36, and the NE. ¼ of section 15. The West fence enclosing the fox farm, located in section 6, T. 37 S., R. 12 W. is located on the range line between Ts. 37 S., Rs. 12 and 13 W., and extends northerly for about 2½ chains from a point about 5.68 chains North of the ¼ section corner of section 6.

The only improved road in the surveyed portion of the township, is the road from New Harmony to Enterprise, Utah, and is located in the SW. portion of section 30. Old unimproved wagon roads and trails, were found in the NW. and SE. portions of the township.

No portions of the township are suitable for farming, and at the time of this survey, no settlers were living on the township. The township, in general, is suitable only for a summer grazing range for stock, and is being used for this purpose.

No indications of mineral, coal, oil, or oil shale were found.

The township is from about 5000 feet to 8000 feet above sea level, and the central portion is located about 9 miles to the west of Kanarraville, Utah, and about 6 miles to the north of New Harmony, Utah, and all the boundaries of the township can be reached by automobile from these two towns.

The magnetic declination at the corner of Ts. 37 and 38 S., Rs. 12 and 13 W. was found to be 16°45'E.

U. S. GOVERNMENT PRINTING OFFICE 6—8155

BOOK A-514

4—680
(Revised May 1934)

FIELD ASSISTANTS

NAMES	CAPACITY
Molen Roper	Chainman
Edward Eliason	Chainman
Warren Clark	Chainman
Ulysses S. Gardner	Chainman
Emmett FitzGerald	Chainman
Harold Hyde	Cornerman
John H. McGuire	Cornerman
Ray Morgan	Chainman
Jay Baldwin	Flagman
Dave Severn	Flagman
Thos. H. Dugan	Axman
Lorenzo Wayn Day	Axman
Loren Bell	Axman
Reginald Stirk	Axman
Frank P. Williams	Axman
David Crockett	Axman
Melburn Ford	Axman
Athe Meeks	Axman

6—8412

BOOK A 31

CERTIFICATE OF ~~UNITED STATES SURVEYOR~~

Elliot Bird, Surveyor,
Andrew Nelson, Surveyor,
Edward Eliason, Transitman,
~~I~~We, Kelvin Winwood, Transitman, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 8th day of April 1933, received from the district cadastral engineer for Utah, with assignment supplemental assignment instructions dated July 20, 1936 instructions dated June 26, 1936, and ~~I~~We have surveyed, dependent resurvey of a portion of the north, south, and west boundaries, and subdivisional lines; and survey of a portion of the west boundary and subdivisional lines, completing the survey of, T. 37 S., R. 13 W., of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by ~~me~~ us and under ~~my~~ our directions and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah.
December 10, 1938

Elliot Bird Surveyor
Andrew Nelson Surveyor
Edward Eliason ~~Transitman~~
Kelvin Winwood Transitman

CERTIFICATE OF APPROVAL

OFFICE OF ~~U.S.~~ SUPERVISOR OF SURVEYS,

Denver, Colorado. [illegible] 1939, 19

The foregoing field notes of the survey of, dependent resurvey of a portion of the north, south, and west, boundaries, and subdivisional lines; and survey of a portion of the west boundary and subdivisional lines, completing the survey of T. 37 S., R. 13 W., Salt Lake Meridian, Utah.

executed by Elliot Bird, Surveyor, Edward Eliason, Transitman, Andrew Nelson, Surveyor, Kelvin Winwood, Transitman, under special instructions dated April 8, 1933, and assignment instructions dated July 20, 1936 instructions dated June 26, 1936, and supplemental assignment instructions dated July 20, 1936, having been critically examined, and the necessary corrections made prior to their certification by the engineers the said field notes, and the survey therein described, are hereby approved.

Frank M. Johnson
~~U.S.~~ *Supervisor of Surveys.*

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in~~ _____, ~~is a true copy of the original field notes on file in the public survey office.~~

_____
~~*U.S. Supervisor of Surveys.*~~

U. S. GOVERNMENT PRINTING OFFICE: 1934 6—8412