Volume

# #

R0428

4-679

JUN 26 1917
SALT LAKE CITY, UTAH

FIELD NOTES

RETRACEMENT AND RESURVEY
OF THE ~~SURVEY~~ OF THE

WEST FIVE MILES OF THE SOUTH BOUNDARY OF TOWNSHIP 23 SOUTH, RANGE 18 EAST,

AND THE SURVEY OF THE

EAST AND SOUTH BOUNDARIES AND SUBDIVISION OF TOWNSHIP 24 SOUTH, RANGE 18 EAST.

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

Thos. C. Rathbone

and

Howard G. Mason

In the capacities of U. S. Surveyor and transitman *under instructions dated* January 18, *1916, issued by the United States Surveyor General to govern surveys included in Group No.* 44, *which were approved by the Commissioner of the General Land Office,* February 3, *1916.* Assignment instructions issued by the Assistant Supervisor of Surveys for the District of Utah, Nov. 6, 1916.

Survey commenced November 15, *1916*

Survey completed November 29, *1916*

6—151

Examinations Classified

A Plat C.P.C. Notes M.F.B. C.P.C.

B Computations V.I.F.

C Comparing Plat V.I.F. Notes M.F.B.

INDEX DIAGRAM.

Township 24 SOUTH, *Range* 18 EAST.

9 & 94 6	8 & 94 93 5	7 & 75 74 4	6 & 62 61 3	6 & 35 48 2	35 1 11
92 7	91 89 8	73 72 9	60 59 10	47 46 11	34 33 12 12
87 18	86 85 17	70 69 16	58 56 15	45 44 14	32 30 13 13
84 19	83 82 20	68 67 21	55 54 22	42 41 23	29 28 24 14
81 30	80 79 29	66 65 28	53 52 27	40 38 26	27 26 25 15
78 31	77 75 32	64 62 33	51 50 34	37 36 35	25 24 36 16
23	22	21	19	18	17

Names and duties of Assistants.

Barnum B. Packard	1st. Asst.
Ulrey Dorman	1st. Asst.
Lynn Phelps	2nd. Asst.
Eugene Stowell	2nd. Asst.
LaMar Johnson	Flagman.
Warren Clark	Flagman.
Homer Johnson	Cornerman.
Byron F. Crookston	Cornerman.
Richard Heldburg	Axeman.
Oral Hall	Axeman.

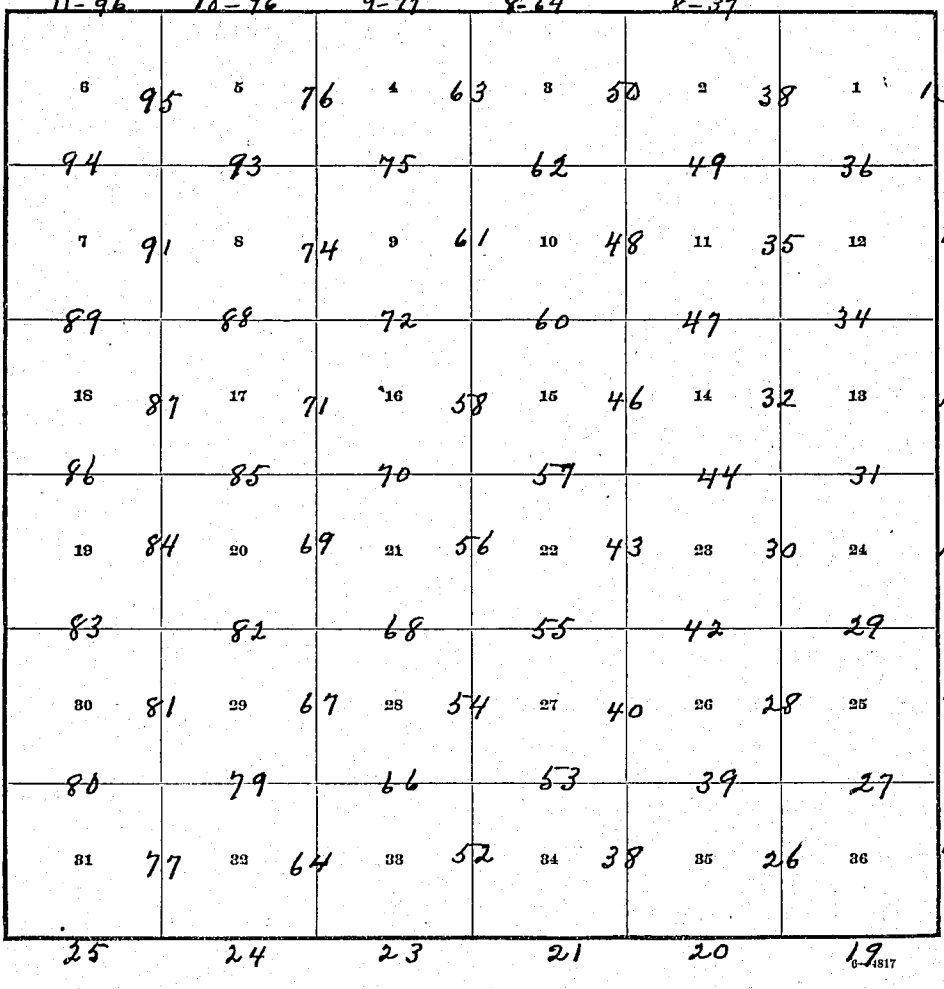
6-151

4—679 b

INDEX DIAGRAM.

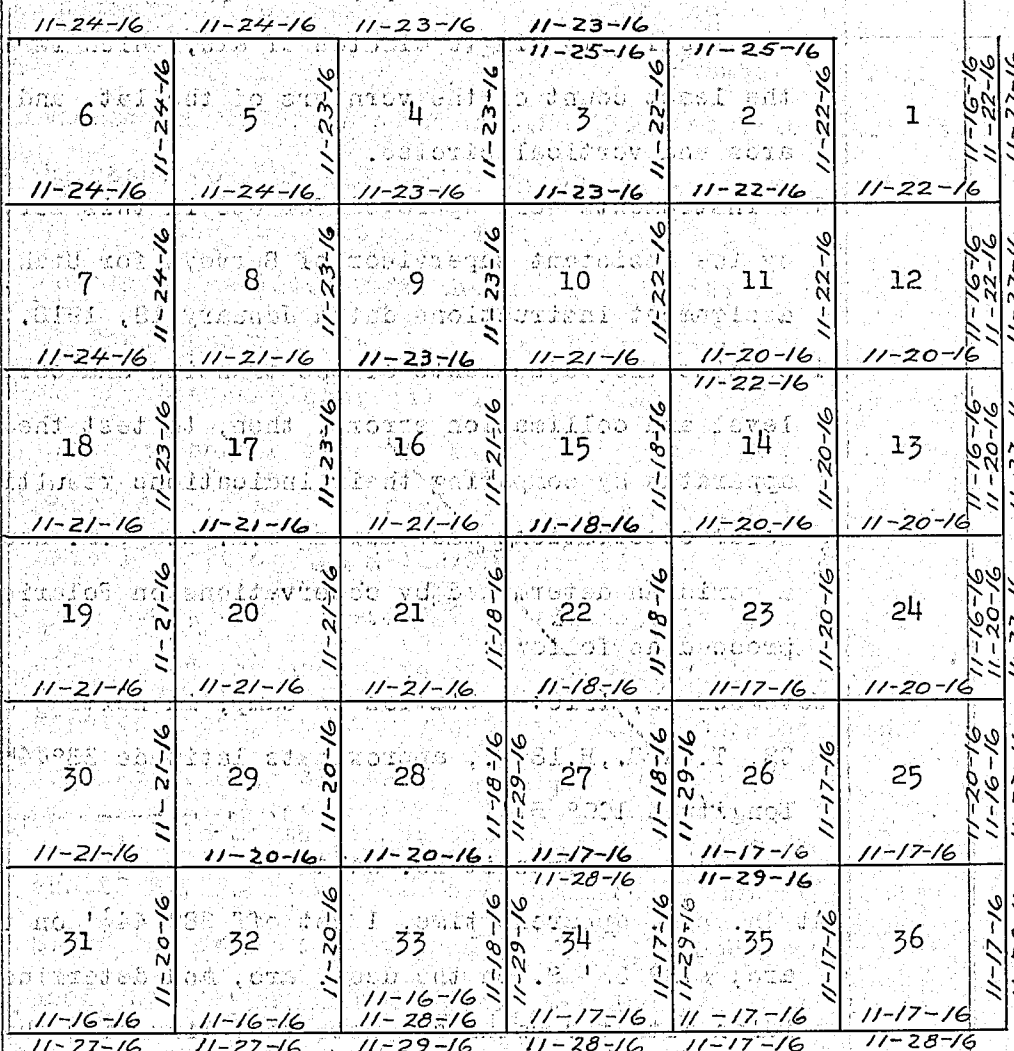
Township 24 S, Range 18 E

11-96 10-96 9-77 8-64 8-37



6-4817

T. 24 S., R. 18 E.



Lines along which the dates are colored red were surveyed by Howard G. Mason, U. S. Transitman.

Lines along which the dates are colored black were surveyed by Thos. C. Rathbone, U.S. Surveyor.

chains

Survey commenced November 15, 1916 and executed with Young and Sons light mountain transits Nos. 8494 and 8487, equipped with Smiths solar attachment and full vertical circles. The horizontal limbs are 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 lat. and decl. arcs and vertical circles.

The instruments were approved for use in this survey by the assistant supervisor of Surveys for Utah in assignment instructions dated January 18, 1916.

I examine the adjustments of the transits and correct the level and collimation errors, then, to test the solar apparatus by comparing their indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

November 15, 1916: Station in camp, in north ½ of sec. 22, T.24 S.,R.18 E., approximate latitude 38°44½' N., longitude 109° 57'.

Transit No. 8494

At 4h. p.m. apparent time, I set off 38° 44½' on the lat. arc; 18° 33' S. on the decl. arc; and determine a meridian with the solar and note that line hits the west edge of a small rock in a ledge about 2 miles distant, the edge of rock therefore bears north.

Note: At the same hours and with the same latitude and declination settings on the arcs of transit No. 8487 transitman Mason determines meridian with the solar and finds that it hits 0° 1' to the left of meridian established be me.

In the evening by my watch which carries correct standard time I observe Polaris as follows:

W. edge of rock.	Star.	Watch time.
Telescope direct.		
0° 00' 00"	1° 20' 00" E.	5h. 41m. 00s. p.m.
0° 00' 00"	1° 20' 00" E.	5h. 44m. 00s. p.m.
Telescope reversed		
0° 00' 00"	1° 21' 00" E.	5h. 42m. 00s. p.m.

chains.	0° 00' 00"	1° 21' 00"	5h. 45m. 00s. p.m.
Mean	0° 00' 00"	1° 20' 30"	5h. 43m. 00s. p.m.

Watch fast of l.m.t. ---------- 0h. 19m. 48s.
L.m.t. of obsn. Nov. 15. ------ 5h. 23m. 12s. p.m.

U.C.Pol. Nov. 15, 1916 -------- 9h. 52m. 30s. p.m.
Correction for long. 109° 57'-- 1m. 12s.
L.m.t. of U.C.Pol. at station - 9h. 51m. 18s. p.m.
Hour angle of Pol. at obsn. --- 4h. 28m. 06s.
E. azimuth of Polaris 1° 20' 42"
W. edge of rock therfore bears north.

November 15, 1916.

November 16, 1916, with transit No. 8494 at same place as in obsn. November 15, 1916, at 8h. a.m. I set off 38° 44½' on the lat. arc; 18° 43'S. on the decl. arc, and determine meridian with the solar and note that W. edge of rock observed Nov. 15, 1916, bears north.

Note: At the same hour and with the same latitude and decl. settings on the arcs of transit No. 8487, transitman Mason determines meridian with solar and finds that line hits 1' left of the meridian established by me.

At the temp. cor. of secs. 7.12,13 and 18, I set off 18° 47½' S. on the decl. arc of transit No. 8494 and at apparent noon obs. the sun on the meridian; the resulting latitude is 38° 45'.

Nov. 17, 1916 at the temp. cor. of secs.5 and 32, T. 24 and 25 S., R. 18 E., transitman Mason set off 19° 03½' S. on the decl. arc of transit No. 8487 and at apparent noon obs. the sun on the mer., the lat. was 38° 43'.

The solar apparatus of each transit defines positions for meridians that do not vary more than one minute from the true meridian; I therefore conclude that the instruments are in good adjustment.

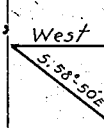
The magnetic bearing of the true meridian was not taken on account of local attractions.

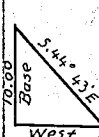
The transits were kept in good adjustment during the progress of the survey, having tested them frequently on the true meridian, established by obsn. on Polaris.

Steel tapes, 5 chs. long, together with clinometers for determining slope angles were used by both parties in the field. The tapes were tested, comparison being made with a 1 ch. tape (standard) kept for that

chains	
	purpose only.
	Retracement of the S. bdy. of T. 23 S., R. 18 E.
	From the cor. of secs. 35 and 36, T. 23 S., R. 18 E., which is a sandstone, 6 x 12 x 6 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor-general, west, retracing along the south bdy. of sec. 35.
40.07	Fall 4 lks. north of the old ¼ cor. of sec. 35, which is a sandstone, 6 x 6 x 7 ins. above ground, mkd. and witnessed as described by the surveyor-general.
	The true course of this line is therefore, S. 89° 57' W. and the distance, 40.07 chs.
	Offset to ¼ sec. cor. and continue west, retracing.
40.11	Fall 4 lks. north of the old cor. for secs. 34 and 35, which is a sandstone, 6 x 8 x 5 ins. above ground, firmly set, marked and witnessed as described by the surveyor-general.
	The true course of this line is therefore, S. 89°57' W., and the distance, 40.11 chs.
	Offset to sec. cor. and continue west, retracing along the south bdy. of sec. 34.
40.12	Fall 4 lks. north of the old ¼ cor for secs. 34, which is a sandstone, 6 x 8 x 5 ins. above ground, firmly set, marked and witnessed as described by the surveyor-general.
	The true course of this line is therefore, S. 89° 57' W., and the distance, 40.12 chs.
	Offset to ¼ sec. cor. and continue west, retracing.
40.00	No trace of the old cor. of secs. 33 and 34, therefore continue west.
80.80	Fall 23 lks. north of the old ¼ cor. of sec. 33, which is a sandstone, 6 x 6 x 8 ins. above ground, firmly set, marked and witnessed as described by the surveyor-general.
	The true course of this line is therefore, S. 89° 50' W.,

chains	
	and the distance, 80.20 chs.
	Offset to the ¼ sec. cor. and continue west, retracing.
40.00	Find no trace of the old cor. of secs. 32 and 33. Continue line west.
	The line west from this point passes over ledges impossible to chain over, therefore proceed to determine distance as follows: From the 40.00 ch. point, set a flag on line west at the top of the ledges, also from the same 40.00 ch. point, measure off a base line, S. 14° 20' W., 10.00 chs. dist. Then go to flag on line at top of ledges and from this point find that the flag at south end of base line, bears, S. 58° 50' E., the distance is then,
	$\frac{\text{sin. } 73° 10' \times \text{base}}{\text{sin. } 31° 10'} = \frac{0.95715 \times 10.00}{0.51753} = 18.49$ chs.
58.49	West triangulation point.
80.00	Find no trace of the old ¼ cor. of sec. 32.
110.00	Top of ledges, impossible to chain; , therefore proceed to determine the distance to base of ledges, as follows; Set a flag, on line, at base of ledges, then from this flag measure a base line, north, 10.00, from which point the flag previously set on line at the 110.00 chs. point, bears S. 44° 43' E., the distance is therefore,
	tan 44° 43' x base = .99016 x 10.00 = 9.90 chs.
119.90	West triangulation point.
120.00	Find no trace of the old cor. of secs. 31 and 32.
160.44	Fall 23 lks. north of the old ¼ cor. on the south bdy. of sec. 31, which is a cedar post, 3 x 3 x 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor-general.
	The true course of this line is therefore, S. 89° 55' W., and the distance, 160.44 chs.
	Offset to old ¼ sec. cor. and continue west, retracing.
38.96	Fall 3 lks. north of the cor. of T. 23 and 24 S., R. 17 and 18 E., which is an iron post, 3 ins. dia., 12 ins. out of the ground, firmly set, marked and witnessed as





chains	
	described by the surveyor-general.
	The true course of this line is therefore, S. 89° 57' W., and the distance, 38.96 chs.

	From the old cor. of secs. 35 and 36, T. 33 S., R. 18 E., heretofore described,
	S. 89° 57' W., resurveying, along the south bdy. of sec. 35,
	Over level mesa, with sandstone outcroppings, through scattered cedar timber. Ascend gradually.
14.80	Ascend more gradually over sandstone.
19.30	Top of slope, 30 ft. above sec. cor., bears, N. 30° W., and S. 30° E. Desc. abruptly over sandstone ledges.
29.60	Leave sandstone ledges and enter nearly level sandy land, bears, N. 20° W. and S. 20° E., 440 ft. below top of slope.
40.07	The old ¼ cor. on south bdy. of sec. 35, heretofore described.
	Thence,
	S. 89° 57' W., resurveying, along the south bdy. of sec. 35.
2.00	Wash, 3 ft. deep and 15 lks. wide, drains N. 30° W., level with ¼ sec. cor.
40.11	The old. cor. of secs. 34 and 35, heretofore described. level with ¾ sec. cor.
	Land, level mesa, except broken, ledgy slope of mesa.
	Soil, light, dry, sandy loam, mixed with sandstone on east portion., on rocky , sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, none.
	Fair grazing.

	From the old cor. of secs. 34 and 35, heretofore described,
	S. 89° 57' W., resurveying, along the south bdy. of sec. 34.

chains	
	Over levelvalleyland through scattered cedar timber.
40.12	The old. ¼ sec. cor. on the south bdy. of sec. 34, heretofore described. Level with sec. cor.
	Thence,
	S. 89° 50' W., resurveying, along the south bdy. of sec. 34.
40.10	Level with ¼ sec. cor.
	Proportional measurement.
	Set an iron post, 3 ft. long, 2 ins, dia., 24 ins. in the ground for the re-established cor. of secs. 33 and 34, with brass cap mkd.,

T 23 S R 18.E

S 33 | S 34

1916

	There being no suitable bearing trees available, dig pits, in each sec., 18 x 18 x 12 ins., 5½ ft. dist. from the sec. cor.
	Land, rolling valley, draining about west.
	Soil, light, dry, sandy loam., on dry, sandy sub-soil.
	Timber, a few scattered cedars.
	Undergrowth, none.
	Fair grazing.
	From the restored cor. of secs. 33 and 34, heretofore described,
	S. 89° 50' W., resurveying, along the south bdy. of sec. 33.
	Over gently rolling valley land.
40.10	The old ¼ cor. of sec. 33, heretofore described, level with sec. cor.
	Thence,
	S. 89° 55' W., resurveying, along the south bdy. of sec. 33.
30.80	Ten Mile Wash, 70 ft. below ¼ sec. cor., 70 ft. deep and 4.00 chs. wide., drains S. 30° W. Few cottonwood trees along wash.

chains	
40.00	Flag and east triangulation point.
40.11	70 ft. above wash.
	Proportionate measurement.
	Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground for the restored corner of secs. 32 and 33, with brass cap mkd.,
	T 23 S R 18 E S 32 | S 33
	1916
	Dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist. from the sec. cor.
	Land, gently rolling valley.
	Soil, light, dry, red, sandy loam on sandy sub-soil.
	Timber, a few cottonwoods along wash.
	Undergrowth, none.
	Fair grazing.

	From the restored cor. of secs. 32 and 33, heretofore described,
	S. 89° 55' W., resurveying, along the south bdy. of sec. 32.
8.10	Base of impassable ledges, about 300 ft. high, bears N. 20° E. and S. 20° W., asc. abruptly.
18.39	West triangulation point at top of sandstone ledges, 300 ft. above sec. cor., bears, N. 20° E. and S. 20° W. ascend less abruptly.
27.80	Ridge, 100 ft. above top of ledges, bears, N. 20° E. and S. 20° W., desc. gradually, over broken sandstones.
37.00	Ravine, 70 ft. below ridge, drains N. 30° W., asc. abruptly from ravine.
40.11	50 ft. above ravine.
	Proportionate measurement.
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone, with 3 ft. base, for the restored ¼ cor. of sec. 32,

chains	
	with brass cap mkd.,
	$\frac{1}{4}$ S 32
	1916
	Raise a mound of stone, with 2 ft. base and 1½ ft. high, north of the $\frac{1}{4}$ sec. cor.
	Ascend abruptly over broken sandstone ledges.
42.60	Spur, 100 ft. above $\frac{1}{4}$ sec. cor., projects north. Desc.
59.20	Desc. abruptly over sandstone ledges.
69.89	East triangulation point.
72.00	Base of ledges, 400 ft. below spur, bears N. and S., thence over nearly level valley.
80.22	Level with base of ledges. Proportionate measurement.
	Set an iron post, 3 ft. long 2 ins. dia., 24 ins. in the ground for the restored cor. of secs. 31 and 32, with brass cap mkd.,
	T 23 S R 18 E S 31 | S 32 1916
	Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist. from the sec. cor.
	Land, level valley, except central portion, which is steep sandstone ledges.
	Soil, dry, sandy loam on sandy sub-soil, except on ledgy portion.
	No timber or undergrowth.
	From the restored cor. of secs. 31 and 32, heretofore described, S. 89° 55' W., resurveying, along the south bdy. of sec. 31. Over nearly level valley land through scattered chaparral undergrowth.
40.11	The $\frac{1}{4}$ cor. of sec. 31, heretofore described, level with sec. cor.
	Thence, S. 89° 57' W., resurveying, along the south bdy. of sec. 31
38.96	The old cor. of T. 23 and 24 S., R. 17 and 18 E., heretofore described. Level with $\frac{1}{4}$ sec. cor.

chains

Land, gently rolling valley.

Soil, light, dry sandy loam, on sandy sub-soil., with sandstone outcroppings.

Timber, none.

Undergrowth, scattered chaparral.

From the cor. of T. 24 and 25 S., R. 17 and 18 E., which is an iron post, 3 ins. dia., 8 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor-general , East, on random, on the south bdy. of T. 24 S., R. 18 E., setting temp. $\frac{1}{4}$ and sec. cors. at intervals of 40.00 chs.

78.86 On account of ledges, impossible to chain over, proceed to determine distance across box canyon as follows; Set a flag at 78.86 chs. and then set another flag on line, on east edge of canyon, from the latter flag, measure a base, N., 5.00 chs., from which point the former flag bears, S. 65° W., the distance across canyon is therefore,

S. 65° W. West Base 5.00

tan. 65° 00' x base = 2.14451 x 5.00 = 10.72 chs.

89.58 East triangulation point.

159.44 On account of box canyon impossible to chain across, proceed to determine distance across as follows; set a flag at the 159.44 chs. point and another flag on line across canyon. From the latter flag measure a base, N., 10.00 chs. dist., from which point the west flag bears, S. 77° 35' W. The distance across canyon is therefore,

S. 77°35'W. West Base 10.00

tan. 77° 35' x base 4.54196 x 10.00 45.42 chs.

204.86 East triangulation point.

241.44 On account of box canyon across which it is impossible to chain, proceed to determine distance across as follows; Set a flag at the 241.44 chs. point, and another flag, on line, on the east edge of canyon, from the latter flag, measure a base, N., 6.00 chs. dist., from which point the flag on line, on the west edge of canyon bears S. 51° 03' W.,

S. 51°03'W. West Base 6.00

chains	
	The distance across the canyon, therefore, is,
	tan. 51° 03' x base = 1.2371 x 6.00 = 7.42 chs.
248.86	East triangulation point.
479.44	Set temporary cor. for T.24&25S, R. 18 &.19 E.
	Survey of the E. bdy. of T. 24 S., R. 18 E.
	From temporary corner of T.24&25S, R.18&19.E. North, on random line on E. bdy. of T. 24 S., R. 18 E. setting temporary ¼ and sec, cors. at intervals of 40.00 chs.
479.30	Fall 1.13 chs. west of the cor. of T. 23 and 24 S., R. 18 and 19 E., which is a sandstone 8 x 8 x 14 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor-general.

	From the true cor. of T. 23 and 24 S., R. 18 and 19 E., heretofore described, south, on true line, bet. secs. 1 and 6.
	Over mountainous land, asc. grad. over sandstone formation through cedar timber and service undergrowth.
6.00	Ridge, 20 ft. above cor., brs. N.70° W., and S.70° E. desc. gradually.
22.00	Wash, 20 ft. below ridge, drains E. Asc. grad.
39.30	On gentle N. slope, 20 ft. above wash,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ cor., with brass cap mkd.
	¼ / S 1 | S 6 / 1916
	raise mound of stone, W., with 2 ft. base and 1½ ft. ht.
	No suitable bearing trees available.
48.00	Spur, 10 ft. above ½ cor., proj. N.E., desc. grad.
51.80	Wash, 10 ft. deep, drains N.70° E., asc. grad.
76.00	Wash, 10 ft. deep, 15 lks. wide; drains N.E., asc. grad.
79.30	On gentle N. slope, 10 ft. above wash,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, with brass cap marked,

chains

T. 24 S.
R.18 E. | R.19 E.
S 1 | S 6
S 12 | S 7
1916

No suitable bearing trees available, I therefore raise a mound of stone, W., with 2 ft. base and 1½ ft. high.

Land, rolling mesa with sandstone formation.

Soil, rocky, dry sandy loam, sub-soil same.

Timber, scattering cedars.

Undergrowth, service berry.

Good grazing land.

South, on true line, bet. secs. 7 and 12.

Over rolling mesa, through scattered cedar timber and scattered service berry undergrowth. Asc. gradually along N.W. slope.

31.80 Spur, 50 ft. above sec. cor., Proj. N.E., desc. abruptly over broken sandstone ledges.

37.30 Ravine, 110 ft. below spur, drains N. 40° E., asc. abruptly.

38.80 Top of steep asc., rolling mesa, bears N.E. and S.W., thence across rolling mesa.

40.00 On mesa, 120 ft. above ravine,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ¼ cor. for secs. 7 and 12, with brass cap mrkd.,

¼
S 12 | S 7
1916

There being no suitable bearing trees available, I raise a mound of stone with 2 ft. base and 1½ ft. high, west of the cor.

60.00 On mesa, 20 ft. above ¼ cor.

chains

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 7, 12, 13 and 18, with brass cap mkd,

T. 24 S.
R.18 E. R.19 E.

S 12 | S 7
S 13 | S 18

1916

There being no suitable bearing trees available, raise mound of stone with base of 2 Ft., 1½ ft. high, west of sec. cor.

Land, broken and rolling mesa with sandstone outcrops.

Soil, dry sandy loam, subsoil same.

Timber, scattering cedars.

Undergrowth, service berry.

Good grazing.

South on true line bet. secs. 13 and 18.

Over rolling mesa land, scattering cedar timber and service berry and chaparral undergrowth; asc. grad.

18.80 Spur, 10 ft. above sec. cor., proj. N.60° E., desc. abruptly over broken sandstone ledges.

23.80 Foot of steep desc., brs. N.60° E., S.60° W., Desc. grad.

36.40 Swale, 80 ft. below spur, drains N.70° E., asc. grad.

40.00 On rolling mesa, 10 ft. above swale,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 13 and 18, with brass cap mkd,

¼

S 13 | S 18

1916

From which

A cedar, 10 ins. dia., bears N. 59° W., 164 lks. dist. mkd. ¼ S 13 B T.

There being no suitable bearing tree in sec. 18, raise a mound of stone with 2 ft. base and 1½ ft. high, west of ¼ sec. cor.

chains

48.80 Foot of steep asc., brs. N.70° E. and S.70° W., asc.

66.50 Top of divide bet. Green and Grand rivers, 200 ft. above swale, brs. N.60° E. and S.60° W., thence across mesa.

68.80 Leave scattered cedar timber; brs. E. and W.

80.00 On mesa, level with top of divide,

Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to solid rock and 18 ins. in a mound of stone, 3 ft. base, for the sec. cor. of secs. 13, 18, 19 and 24, with brass cap mkd.,

T. 24 S.
R.18 E. | R.19 E.
S 13 | S 18
S 24 | S 19
1916

There being no suitable bearing trees available, raise mound of stone with 2 ft. base and 1½ ft. high, west of the sec. cor.

Land, broken and rolling mesa with sandstone formation.

Soil, dry sandy loam, subsoil same.

Timber, scattered cedar.

Undergrowth, service berry and chaparral.

South on true line bet. secs. 19 and 24.

Over rolling mesa land, through scattered chaparral undergrowth.

40.00 On nearly level mesa, level with sec. cor.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 19 and 24, with brass cap mkd.,

¼
S 24 | S 19
1916

Raise mound of stone with 2 ft. base and 1½ ft. high, west of the ¼ sec. cor.

69.80 Enter scattered cedars, brs. E. and W.

80.00 On mesa, level with ¼ sec. cor.

chains	
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 19, 24, 25 and 30, with brass cap mkd.,
	T. 24 S. R.18 E. R.19 E. S 24 | S 19 S 25 | S 30 1916
	There being no suitable bearing trees available, raise a mound of stone, with 2 ft. base and 1½ ft. high, west of the sec. cor.
	Land, rolling mesa with sand stone formation. General S.W. slope.
	Soil, dry, sandy loam, sub-soil, dry, sandy loam.
	Timber, a few scattered cedars on south portion.
	Undergrowth, scattered chaparral.
	Good grazing.
	South on true line bet. secs. 25 and 30.
	Over rolling mesa land, through scattered cedar timber and scattered chaparral undergrowth.
5.80	Leave scattered cedars, brs. E. and W., asc. grad.
28.80	Spur, 30 ft. high, proj. S.W., desc. grad.
40.00	On grad. S.E. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 25 and 30, with brass cap mkd.,
	¼ S 25 | S 30 1916
	Dig. pits, 18 x 18 x 12 ins., 3 ft. north and 3 ft. south of ¼ cor. and scatter earth.
	Continue gradual descent.
80.00	On rolling mesa, 50 ft. below ¼ cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 25, 30, 31 and 36, with brass cap mkd.,

chains

T. 24 S.
R 18 E | R 19 E
S 25 | S 30
S 36 | S 31
1916

Raise mound of stone, with 2 ft. base and 1½ ft. high, west of the sec. cor.

Land, rolling mesa, with general S.W. slope.

Soil, loose, dry sandy loam, sub-soil same.

Timber, a few scattered cedars on the north portion.

Undergrowth, scattered chaparral.

Good grazing.

South on true line bet. secs. 31 and 36.

Over rolling valley, through scattered cedar timber and scattered chaparral undergrowth. Desc. grad. S.W. slope.

29.00 Wash, 40 ft. below sec. cor., drains S.W., asc. grad. N. W. slope.

40.00 On gradual N.W. slope, 20 ft. above wash.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 31 and 36, with brass cap mkd.,

¼
S 36 | S 31
1916

From which

A cedar, 8 ins. dia., bears S. 04° E, 427 lks. dist., mkd. ¼ S 31 B T.

A cedar, 10 ins. dia., bears S. 03° W., 388 lks. dist., mkd. ¼ S 36 B T.

Asc. grad.

44.30 Spur, 10 ft. above ¼ sec. cor., proj. S.60° W., desc. grad.

53.80 Wash, 20 ft. below spur, drains S.60° W., asc. grad.

59.80 Spur, 10 ft. above wash, proj. S.60° W., desc. grad.

60.00 On gentle S.E. slope, 20 ft. below spur.

Survey of the E. and S. bdys. of T. 24 S., R. 18 E.

chains

Set an iron post, 3 ft. long, 3 ins. in dia., 6 ins. in the ground to solid rock and 18 ins. in a mound of stone with 4 ft. base, for the cor. of T. 24 and 25 S., R. 18 and 19 E., with brass cap mkd.,

T 24 S
R 18 E | R 19 E
S 36 | S 31
S 1 | S 6
T 25 S
1916

From which

A cedar, 10 ins. dia., bears N.85° W., 180 lks. dist., mkd. T 24 S R 18 E S 36 B T.

A cedar, 18 ins. dia., bears S.62° E., 408 lks. dist., mkd. T 25 S R 19 E S 6 B T.

There being no suitable bearing trees available in secs. 1 and 31, raise a mound of stone, with 2 ft. base and 1½ ft. high, south of the twp. cor.

Land, rolling valley, sandstone formation, with general S.W. slope.

Soil, dry sandy loam, sub-soil same, mixed with sandstone.

Timber, scattered cedars.

Undergrowth, scattered chaparral.

Good grazing.

Survey of the S. bdy. of T. 24 S., R. 18 E.

From the cor. of T. 24 and 25 S., R. 18 and 19 E., West on true line bet. sec. 36 and 1.

Over rolling valley land, through scattered cedar timber, scattered oak brush undergrowth. Desc. grad.

3.30 Wash, 10 ft. deep, drains N.85° W; continue grad. desc.

12.50 Wash. 20 ft. below sec. cor., drains S.10° W., asc. grad.

34.00 Spur, 60 ft. above wash, proj. S.E., desc. grad.

39.40 Wash, 30 ft. below spur, drains S.E., asc. grad.

40.00 On gradual N.E. slope, 4 ft. above wash.

Set an iron post, 3 ft. long, 1 in. dia. 26 ins. im the ground, for the ¼ cor, of secs. 36 and 1, with brass cap

chains.	
	mkd., $\frac{1}{4}$ S 36 / S 1 1916
	There being no suitable bearing trees available, dig pits, 18 x 18 x 12 ins., 3 ft. E. and 3 ft. W. of $\frac{1}{4}$ sec. cor.
80.00	Level with $\frac{1}{4}$ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of sec. 35, 36, 1 and 2, with brass cap mkd., T 24 S R 18 E S 35 | S 36 S 2 | S 1 T 25 S 1916
	There being no suitable bearing trees available, raise mound of stone, with 2 ft. base and 1½ ft. high, west of the sec. cor.
	Land, rolling valley, sandstone formation,
	Soil, light dry sandy loam, mixed with sandstone, subsoil same.
	Timber, a few scattered cedars.
	Undergrowth, scrub oak brush.
	Good grazing.

	West, on true line bet. secs. 2 and 35.
	Over rolling valley land; sandstone outcroppings.
	Through scattered cedar timber, scattered chaparral undergrowth. Asc. grad.
2.40	Ridge, level with sec. cor., brs. N.E. and S.W., desc. grad.
32.00	Wash, 50 ft. below ridge, drains N.15° W., asc. grad.
40.00	On east edge of wash, 2 ft. deep and 20 lks. wide, drains N.60° E.

Survey of the E. and S. bdys. of T. 24 S., R. 18 E.

chains	
	Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground to solid rock and 16 ins. in a mound of stone, 3 ft. base. for $\frac{1}{4}$ cor. of secs. 2 and 35, with brass cap mkd.,
	$\frac{1}{4}$ S 35 / S 2 1916
	There being no suitable bearing trees available, raise a mound of stone, with 2 ft. base and $1\frac{1}{2}$ ft. high, north of $\frac{1}{4}$ sec. cor. Desc. into wash.
40.20	Wash, 2 ft. deep and 20 lks. wide, 2 ft. below $\frac{1}{4}$ sec. cor. drains N.60° E. Thence over rolling valley. Asc. grad.
59.10	Low ridge, brs. N. and S., desc. grad.
66.10	Enter broken sandstone ledges.
80.00	On rolling valley, east of wash.
	Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to solid sandstone, 20 ins. in a mound of stone, with 3 ft. base, for cor. of secs. 34, 35, 2 and 3, with brass cap mkd.,
	T 24 S R 18 E S 34 | S 35 S 3 | S 2 T 25 S 1916
	There being no suitable bearing trees available, raise a mound of stone, with 2 ft. base and $1\frac{1}{2}$ ft. high, west of the sec. cor.
	Land, rolling valley, with sandstone formation.
	Soil, dry sandy loam, mixed with sandstone. sub-soil, sandy loam and sandstone.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Good grazing.

	West, on true line, bet. secs. 3 and 34, Over rolling mesa and sandstone ledges, through scattered cedar timber

chains.	
	and scattered chaparral undergrowth.
8.60	Wash, 2 ft. deep and 10 lks. wide, drains S.70° W., desc. gradually.
39.10	Leave broken sandstone outcroppings, brs. N. and S.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ cor. of secs. 3 and 34, with brass cap mkd.,
	$\frac{1}{4}$ S 34 / S 3
	1916
	there being no suitable bearing trees available, dig pits, 18 x 18 x 12 ins., 3 ft. east and 3 ft. west of ¼ cor.
51.10	Enter sandstone outcroppings, bear. S.40° E. and N.40° W.
58.60	Sandstone ridge, 40 ft. above ¼ sec. cor., brs. S.40° E. and N.40° W. Desc. gradually.
71.60	East rim of canyon and east triangulation point, 70 ft. below sandstone ridge, canyon, 172 ft. deep, brs. N.50° E. and S.50° W., drains S. W.
79.10	West rim of canyon and west triangulation point., brs. N.50° E. and S.50° W.
80.00	On west rim of box canyon, 172 ft. above canyon. Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to solid sandstone and 20 ins. in a mound of stone, with 3 ft. base., for the cor. of secs. 33, 34, 3 and 4, with brass cap mkd.,
	T 24 S R 18 E S 33 | S 34 S 4 | S 3 T 25 S 1916
	There being no suitable bearing trees available, raise a mound of stone, 2 ft. base and 1½ ft. high, west of the sec. cor.
	Land, rolling mesa and sandstone ledges. General drainage S.W.
	Soil, dry, rocky sandy, mixed with sandstone, sub-soil, dry sandy loam and solid sandstone.

chains	
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing on part of mile.

	West, on true line, bet. secs. 4 and 33, over broken sandstone ledges, through scattered cedar timber., asc.
19.40	Sandstone spur, 25 ft. above sec. cor., proj. S., desc.
35.71	East triangulation point.
40.00	On east rim of box canyon, 100 ft. below spur, brs. S.80° W&S.80° E. about 5 chs., thence N.W.,
	Point falls on side of sandstone ledge upon which it is impossible to set the cor. permanently.
40.50	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid sandstone and 20 ins. in a mound of stone, with 3 ft. base, for a witness cor. to the ¼ cor. of secs. 4 and 33, with brass cap mkd,
	$\frac{1}{4}$ S 33 / S 4 W C 1916
	Cor. falls at the base of small sandstone ledge, 20 ft. below east rim of canyon.
	There being no suitable bearing trees available, raise a mound of stone, with base 2 ft. and 1½ ft. high, north of witness cor.
77.60	West rim of box canyon, 300 ft. above canyon, brs. N.30° W. and S.40° E., cse. of canyon N.W.
	Thence west over rolling mts. land.
80.00	On rolling mts. land, level with rim of canyon.
	Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to solid sandstone and 20 ins. in a mound of stone, with base of 3 ft., for the cor. of secs. 32, 33, 4 and 5, with brass cap mkd.,
	T 24 S R 18 E / S 32 | S 33 / S 5 | S 4 / T 25 S

Survey of the E. and S. bdys. of T. 24 S., R. 18 E.

chains	
	There being no suitable bearing trees available, raise a mound of stone, with base of 2 ft. and 1½ ft. high, west of the sec. cor.
	Land, rolling mts. and rough, with sandstone ledges.
	Soil, dry sandy loam on rolling mts. land, mostly sandstone ledges and broken sandstone ledges on balance.
	Timber, scattered cedar.
	Undergrowth, none.
	Fair grazing on the rolling mts. land.

	West, on true line, bet. secs. 5 and 32, over rolling mts. land, with sandstone outcroppings,
40.00	On rolling land, 20 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone, with 3 ft. base, for the ¼ cor. of secs. 5 and 32, with brass cap mkd.,
	S 32 ¼ ——— S 5 1916
	Raise a mound of stone, with 2 ft. base and 1½ ft. high, north of the ¼ cor.
	Continue over rolling land.
62.90	Top of sandstone ledge, 10 ft. below ¼ sec. cor., brs. S.40° E. and N.20° W., desc. into canyon.
70.99	East triangulation point.
76.29	Creek (distance estimated) in bottom of Spring canon, 3 lks wide and 2 ins. deep, clear water, 330 ft. below ledge, cse. S.W., asc. abruptly.
80.00	Point falls on side of ledges where it is impossible to set corner, therefore continue west and at,
81.71	West triangulation point and rim of canyon, 330 ft. above creek, brs. S.20° W. and and N. 20° E.
	Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in the ground to solid rock and 16 ins. in a mound of stone with base of 3 ft., for the witness cor. to the cor.

chains.	
	of secs. 31, 32, 5 and 6, with brass cap mkd.,
	T 24 S R 18 E S 31 | S 32 WC S 6 | S 5 T 25 S 1916
	Raise a mound of stone, with base 2 ft. and 1½ ft. high, west of the witness corner.
	Land, rolling mts. and sandstone ledges.
	Soil, dry, rocky, sandy loam, sub-soil, mostly sandstone.
	Timber, none.
	Undergrowth, none.
	Fair grazing on level portion and along creek.
	From true point for cor. of secs. 5, 6, 31 and 32
	West, on true line, bet. secs. 6 and 31, over broken sandstone ledges, through scattered cedar timber and scattered chaparral undergrowth.
1.71	Witness cor. for cor. of secs. 31, 32, 5 and 6; west rim of Spring canyon, 330 ft. above creek, brs. N.20° E. and S. 20° W. Thence across rolling land, with sandstone outcroppings. West triangulation point.
19.10	Foot of broken sandstone ledges, 20 ft. above witness cor., brs. N.80° E. and S. 80° W. Asc. abruptly over broken sandstone ledges.
33.10	Top of sand stone ledges, 110 ft. above witness cor., brs. N.80° E. and S. 80° W. about 1.50 chs. thence east, continue west over rolling land.
40.00	On rolling land, level with top of ledges. Set an iron post, 3 ft. long, 1 in. dia., 36 ins. in the ground for the ¼ cor. of secs. 6 and 31, with brass cap mkd., ¼ S 31 / S 6 1916
	There being no suitable bearing trees available, dig pits 18 x 18 x 12 ins., 3 ft. east and 3 ft. west of the ¼ sec. cor.

chains	
44.07	Wash, 12 ins. deep and 15 lks. wide, drains N. 50° E.
80.57	The cor. of T. 24 and 25 S., R. 17 and 18 E., heretofore described.
	Land, rolling and rough mts., with sandstone ledges.
	Soil, dry, sandy loam mixed with sandstone. Sub-soil same.
	Timber, a few scattered cedars.
	Undergrowth, scattered chaparral.
	Fair grazing.

SUBDIVISION OF T. 24 S., R. 18 E.

From the true cor. of secs. 35, 36, 1 and 2.

N. 0° 01' W. on true line, bet. secs. 35 and 36.

Over rolling valley land, with sandstone outcroppings, through scattered cedars and scattered chaparral undergrowth.

2.50	Ridge, level with sec. cor., brs. N.E. and S.W., desc.grad.
18.20	Wash, 18 ins. deep and 15 lks. wide, 100 ft. below ridge, drains N. 25° W.
28.50	Wash, 100 ft. below ridge, drains N.40° W., 15 ft. deep, 20 lks. wide., desc. gradually.
40.00	130 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the $\frac{1}{4}$ cor. of secs. 35 and 36, with brass cap mkd.,

$\frac{1}{4}$

S 35 | S 36

1916

	There being no suitable bearing trees available, dig pits 18 x 18 x 12 ins., 3 ft. north and 3 ft. south of $\frac{1}{4}$ sec. cor.
	Continue over rolling valley.
45.70	Wash, level with $\frac{1}{4}$ sec. cor., 10 ft. deep and 30 lks. wide, drains N. 80° W., asc. gradually.
55.00	Spur, 30 ft. above wash, proj. W., desc. gradually.
69.70	Wash, 50 ft. below spur, 10 ft. deep and 15 lks. wide, drains S.80° W., asc. gradually.

chains.	
80.00	10 ft. above wash.
	Set an iron post, 3 ft long, 2ins. dia., 24 ins. in the ground for the cor. of secs. 35, 36, 25 and 26., with brass cap mkd.,
	T 24 S R 18 E S 26 | S 25 S 35 | S 36 1916
	There being no suitable bearing trees available, dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist. and scatter earth.
	Land, rolling valley.
	Soil, shallow sandy loam, with sandstone outcroppings, on sandy, rocky sub-soil.
	Timber, few scattered cedars.
	Undergrowth, scattered chaparral.
	Good grazing.
	East, on random line, bet. secs. 25 and 36.
40.00	Set temp. ¼ cor.
80.01	Intersect E bdy. of twp., 1 lk. north of cor. of secs. 25, 30, 31 and 36.
	Thence,
	West, on true line, bet. secs. 25 and 36.
	Over rolling valley land, through scattered cedar timber and scattered chaparral undergrowth.
17.60	Wash, level with sec. cor., 6 ft. deep and 20 lks. wide, drains S. 20° E., asc. gradually.
30.00	Ridge, 40 ft. above wash, brs. N.E. and S.W., desc. grad.
40.00½	On west edge of wash, 60 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to solid rock and 14 ins. in a mound of stone with 3 ft. base, for the ¼ cor. of secs. 25 and 36, with brass cap mkd.,
	¼ S 25 S 36 1916

Subdivision of T. 24 S., R 18 E.

chains	
	From which
	A cedar, 12 ins. dia., brs. N.37° W., 20 lks. dist., mkd., $\frac{1}{4}$ S 25 B T.
	A cedar, 8 ins. dia., bears S. 11° W., 33 lks. dist., mkd., $\frac{1}{4}$ S 36 B T.
	Desc. gradually.
40.30	Wash, 10 ft. below $\frac{1}{4}$ sec. cor., 6 ft. deep and 10 lks. wide, drains S. 70° W., asc. gradually.
45.70	Spur, 10 ft. above wash, proj. S. 70° W., desc. grad.
80.00	The cor. of secs. 25, 26, 35 and 36, 50 ft, below spur.
	Land, rolling valley.
	Soil, light, dry, sandy loam, with sandstone, outcroppings on rocky sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Good grazing.

	N. 0° 01' W., on true line, bet. secs. 25 and 26.
	Over rolling valley, through scattered cedar timber and scattered chaparral undergrowth.
30.00	Spur, 60 ft. above sec. cor., projects, S.W., desc. grad.
38.70	Wash, 20 ft. below spur, 10 ft. deep and 20 lks. wide, drains S. 60° W., asc. grad.
40.00	10 ft. above wash.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 25 and 26, with brass cap mkd.,
	$\frac{1}{4}$ S 26 | S 25 1916
	There being no suitable bearing trees available, dig pits 18 x 18 x 12 ins. N. and S. of $\frac{1}{4}$ sec. cor. 3 ft. dist, and scatter earth.
56.00	Sandstone spur, 120 ft. above $\frac{1}{4}$ sec. cor., proj. W., desc. gradually.
80.00	70 ft. below spur.

chains	
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 23, 24, 25 and 26, with brass cap mkd.,
	T 24 S R 18 E. S 23 | S 24 S 26 | S 25 1916
	From which,
	A cedar, 8 ins. dia. bears, N.70° W., 92 lks. dist., mkd. T 24 S R 18 E S 23 B.T.
	A cedar, 10 ins. dia. bears, S.55° W., 141 lks. dist., mkd. T 24 S R 18 E S 26 B.T.
	There being no suitable bearing trees available in secs. 24 and 25, raise a mound of stone, base 2 ft. and 1½ ft. high, west of the sec. cor.
	Land, rolling valley.
	Soil, light, dry sandy loam on sandy sub-soil.
	Timber, scattered cedars.
	Undergrowth, scattered chaparral.
	Good grazing.

	East, on random line, bet secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of the twp. 6 lks. south of the cor. of secs. 24, 25, 19 and 30.
	Thence
	S. 89° 57' W., on true line, bet. secs. 24 and 25.
	Over rolling valley land, through scattered cedar timber and scattered chaparral undergrowth.
10.00	Swale, level with sec. cor., drains S.W., asc. grad.
15.00	Spur, 10 ft. above swale, proj. S.W., desc. grad.
28.00	Wash, 20 ft. below spur, 5 ft. deep and 15 lks. wide, drains, S.
34.30	Wash, 20 ft. below spur, 5 ft. deep and 10 lks. wide, drains S. 20° E., asc. grad.
40.00	10 ft. above wash.

chains

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 24 and 25, with brass cap mkd.,

$\frac{1}{4}$ S 24 / S 25 / 1916

There being no suitable bearing trees available, dig pits, 18 x 18 x 12 ins., E. and W. of $\frac{1}{4}$ sec. cor. 3 ft. dist., and scatter earth.

Ascend gradually.

55.00 Spur, 20 ft. above $\frac{1}{4}$ sec. cor., proj. N.E., desc. grad.

80.00 The cor. of secs. 23, 24, 25 and 26, 80 ft. below spur.

Land, rolling valley.

Soil, light, dry, red sandy loam, on sandy sub-soil.

Timber, scattered cedars.

Undergrowth, scattered chaparral.

Good grazing.

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

N. 0° 01' W., on true line, bet. secs. 23 and 24.

Over, rolling valley land, through scattered cedar timber and scattered chaparral undergrowth, asc. grad.

1.90 Wash, 10 ft. below sec. cor., 5 ft. deep and 15 lks. wide, drains S.W., asc. grad.

40.00 150 ft. above wash.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 23 and 24, with brass cap mkd.,

$\frac{1}{4}$

S 23 | S 24

1916

From which,

A cedar, 16 ins. dia., bears, N. 27° E., 102 lks. dist., mkd., $\frac{1}{4}$ S 24 B T.

A cedar, 5 ins. dia., bears, N. 37½° W., 112 lks. dist., mkd. $\frac{1}{4}$ S 23 B T.

Subdivision of T. 24 S., R. 18 E.

chains	
45.00	Sandstone ledge, 20 ft. high, level with ¼ sec. cor., brs. N. 70° E. and S. 70° W., asc. grad.
50.00	Ridge, 70 ft. above ¼ sec. cor., brs. N.70° E. and S.70° W. Divide between Green and Grand rivers, desc. grad.
80.00	20 ft. below ridge.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 13, 14, 23 and 24, with brass cap mkd.,

T 24 S R 18 E

S 14	S 13
S 23	S 24

1916

From which,

A cedar, 8 ins. dia., bears, N. 86½ E., 221 lks. dist., mkd. T 24 S R 18 E S 13 B T.

A cedar, 9 ins. dia., bears, S. 35° E., 113 lks. dist., mkd. T 24 S R 18 E S 24 B T.

A cedar, 10 ins. dia., bears, S. 25½° W., 104 lks. dist., mkd. T 24 S R 18 E S 23 B T.

A cedar, 10 ins. dia., bears, N. 5° W., 322 lks. dist., mkd. T 24 S R 18 E S 14 B T.

Land, rolling valley.

Soil, light, dry red sandy loam, with sandstone outcroppings, on sandy sub-soil.

Timber, scattered cedar.

Undergrowth, scattered chaparral.

Good grazing.

From the true cor. of secs. 13, 14, 23 and 24, N.89° 57' E., on random line, bet. secs. 13 and 24.

40.00	Set. temp. ¼ sec. cor.
80.05	Intersect the east bdy. of twp. 7 lks. north of the cor. of secs. 13, 18, 19 and 24.
	Thence, west, on true line, bet. secs. 13 and 24.
	Over rolling mesa land, through scattered cedar timber and scattered chaparral undergrowth. Asc. grad.

chains	
22.00	Ridge, 20 ft. above sec. cor., divide between Green and Grand rivers, brs. N.E. and S.W., desc. grad.
40.02½	30 ft. below ridge,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 13 and 24, with brass cap mkd.,
	S 13 / ¼ / S 24 / 1916
	From which,
	A cedar, 9 ins. dia., bears, N. 6° E., 24 lks. dist., mkd. ¼ S 13 B T.
	A cedar, 6 ins. dia., bears, S. 40° W., 40 lks., dist., mkd. ¼ S 24 B T.
	Descend gradually along N.W. slope.
41.00	Gulch, 20 ft. below ¼ sec. cor., drains N.E., asc. grad.
49.00	Spur, 50 ft. above gulch, proj. N. 20° W., desc. grad. west slope.
52.90	Wash, 30 ft. below spur, 8 ft. deep and 15 lks. wide, drains N., asc. grad. S.E. slope of ridge.
59.00	Road, joins road to Moab, brs. N. and S.
69.70	Ridge, 20 ft. above wash, brs. N. 30° E. and S. 30° W., desc. grad. N.W. slope of ridge.
80.05	The cor. of secs. 13, 14, 23 and 24., 30 ft. below ridge.
	Land, rolling mesa.
	Soil, light, dry, red sandy loam, with sandstone outcroppings, sub-spil dry sandy mixed with sandstone.
	Timber, scattered cedars.
	Undergrowth, scattered chaparral.
	Good grazing.

	N. 0° 01' W., on true line, bet. secs. 13 and 14.
	Over rolling mesa land, through scattered cedar timber and scattered chaparral undergrowth. Desc. gradually.
7.90	Wash, 30 ft. below sec. cor., 8 ft. deep and 15 lks. wide, drains N. 70° E., asc. gradually.

chains	
15.00	Spur, 20 ft. above wash, proj. N. 60° E., desc. grad. along N.W. slope of spur.
40.00	90 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in a mound of stone, with 3½ ft. base, (¼ sec. cor. is set on a sandstone ledge upon which is marked a cross (x) at the true cor. point), for the ¼ cor. of secs. 13 and 14, with brass cap mkd.,
	¼ S 14 | S 13 1916
	From which,
	A cedar, 8 ins. dia., bears, N. 12° E., 26 lks. dist., mkd. ¼ S 13 B T.
	A cedar, 7 ins. dia., bears, S. 67½° W., 51 lks. dist., mkd. ¼ S 14 B T.
42.50	Rim of mesa, level with ¼ sec. cor., brs. E. and W., desc. abruptly over broken sandstone ledges.
50.83	Impassable ledges, brs. E. and W., therefore offset 15.00 chs. east and continue line N. 0° 01' W.
65.00	Offset 15.00 chains west to true line, thence N. 0° 01' W. on true line.
	Ravine, 440 ft. below mesa, drains N.E., asc. abruptly over sandstone ledges.
80.00	220 ft. above ravine.
	Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in the ground to solid rock and 16 ins. in a mound of stone with 3 ft. base, for the cor. of secs. 11, 12, 13 and 14, with brass cap mkd.,
	T 24 S R 18 E S 11 | S 12 S 14 | S 13 1916
	There being no suitable bearing trees available, raise a mound of stone, 2 ft. base and 1½ ft. high, west of the sec. cor.

chains	
	Land, rolling and broken mesa.
	Soil, light, dry, red, sandy loam mixed with sandstone.
	on sandy, rocky subsoil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing.

	East, on random line, bet. secs. 12 and 13.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.13	Intersect the east bdy. of twp., 17 lks. north of the cor.
	of secs. 12, 13, 18 and 7.
	Thence,
	N. 89° 53' W., on true line, bet secs. 12 and 13,
	Over rolling mesa land, through scattered cedar timber
	and scattered chaparral undergrowth. Desc. grad.
23.70	Wash, 20 ft. below sec. cor., 6 ft. deep and 15 lks. wide,
	drains N. 40° E. , asc. gradually.
33.30	Road, 16 ft. above wash, brs. N. and S., joins road to
	Moab.
40.06½	Level with road.
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the
	ground and 20 ins. in mound of stone, base 3½ ft. for $\frac{1}{4}$
	sec.cor. of secs. 12 and 13, with brass cap mkd.,
	$\frac{1}{4}$ S 12 / S 13
	1916
	From which,
	A cedar, 7 ins. dia., bears, N. 63½ ° W., 65 lks. dist.,
	mkd. $\frac{1}{4}$ S 12 B T.
	A cedar, 8 ins. dia., bears, S. 0° 30' E., 76 lks.
	dist., mkd. $\frac{1}{4}$ S 13 B T.
46.10	Rim of mesa, level with $\frac{1}{4}$ sec. cor.,brs. N.20° E. and
	S.20° W., desc. gradually.
52.30	Wash, 70 ft. below mesa, 10 ft. deep and 20 lks. wide,
	drains N.E., asc. gradually.
57.10	Spur, 50 ft. above wash, proj. N.20° E., desc. abruptly

chains.

over sandstone ledges.

70.60 Ravine, 420 ft. below spur, drains N.35° E., asc. abruptly over sandstone ledges.

80.13 The cor. of secs. 11, 12, 13 and 14., 170 ft. above ravine.

Land, rolling and broken mesa.

Soil, light, dry, red, sandy loam mixed with sandstone rock and ledges., on sandy, rocky sub-soil.

Timber, scattered cedar.

Undergrowth, scattered, chaparral.

Fair grazing.

N. 0° 01' W., on true line, bet. secs. 11 and 12, over broken sandstone ledges through scattered cedar timber and scattered chaparral undergrowth.

On account of ledges on true line impossible to chain over; offset 17.33 chs. west from sec. cor., thence N. 0° 01' W. on offset line.

chains.

7 .00 Wash, 20 ft. below sec. cor., 10 ft. deep and 20 lks. wide, drains N.W., asc. grad.

12.00 Spur, 30 ft. above wash, proj. N.W.

33.76 At this point measure 17.33 chs. east to true line, thence N.0° 01' W., on true line.

37.80 Wash, 380 ft. below sec. cor., 10 ft. deep and 15 lks. wide, drains S. 80° W., asc. gradually.

40.00 30 ft. above wash.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the $\frac{1}{4}$ cor. of secs. 11 and 12, with brass cap mkd.,

$\frac{1}{4}$

S 11 | S 12

1916

From which,

A cedar, 10 ins. dia., bears, S.85° E., 32 lks. dist., mkd. $\frac{1}{4}$ S 12 B T.

Subdivision of T. 24 S., R.18 E.

chains	
	A cedar, 10 ins. dia., bears, N. 02° W., 239 lks. dist., mkd. ¼ S 11 B T.
	Asc. gradually.
61.00	Spur, 50 ft. above ¼ sec. cor., proj. S.W., desc. grad.
75.10	Wash, 80 ft. below spur, 10 ft. deep and 15 lks. wide, drains S. 70° W., asc. gradually.
80.00	20 ft. above wash.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins, in the ground for the cor. of secs. 1, 2, 11, and 12., with brass cap mkd.,

T 24 S R 18 E

S 2 | S 1

S 11 | S 12

1916

From which,

A cedar, 15 ins. dia., bears, N.77½° E., 436 lks. dist., mkd. T 24 S R 18 E S 1 B T.

A cedar, 10 ins. dia., bears, S.67° E., 388 lks. dist. mkd. T 24 S R 18 E S 12 B T.

A cedar, 12 ins. dia., bears, S.04° W., 487 lks. dist., mkd. T 24 S R 18 E S 11 B T.

A cedar, 7 ins. dia., bears, N.42° W., 268 lks. dist., mkd. T 24 S R 18 E S 2 B T.

Land, broken and rolling valley, with sandstone ledges on south portion.

Soil, light, dry, red, sandy loam mixed with sandstone, on rocky, sandy sub-soil.

Timber, scattered cedars.

Undergrowth, scattered chaparral.

Fair grazing on south and good grazing on north portion.

S. 89° 53, E., on random line, bet. secs. 1 and 12.

40.00 Set temp. ¼ sec. cor.

80.20 Intersect the east bdy. of twp. 11 lks. north of the cor. of secs. 1, 6, 12 and 7.

Thence,

chains	
	N. 89° 48' W., on true line, bet. secs. 1 and 12.
	Over rolling mesa land through scattered cedar timber and scattered chaparral undergrowth. Desc. grad.
16.70	Road, 10 ft. below sec. cor., brs. N. and S., joins road to Moab., continue gradu. desc.
26.00	Wash, 40 ft. below sec. cor., 10 ft. deep and 20 lks. wide, drains N., asc. grad.
35.00	Spur, 30 ft. above wash, proj. N., desc. gradually.
40.10	10 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor. of secs. 1 and 12, with brass cap mkd.,
	S 1 $\frac{1}{4}$ S 12 1916
	From which,
	A cedar, 8 ins. dia., bears, N. 28½ W., 176 lks. dist. mkd., $\frac{1}{4}$ S. 1 B T.
	A cedar, 7 ins. dia., bears, S. 57½° W., 168 lks. dist., mkd. $\frac{1}{4}$ S 12 B T.
58.00	Rim of mesa, level with $\frac{1}{4}$ sec. cor., brs. N. and S., desc. abruptly, along east slope of mesa.
67.50	Gulch, 230 ft. below mesa, drains S.W.. Asc. gradually.
70.50	Spur, 40 ft. high, projects S.W., desc. gradually.
77.80	Wash, 60 ft. below spur, 40 ft. deep and 1.00 ch. wide, drains S.W., asc. gradually.
80.20	The cor. of secs. 1, 2, 11 and 12, 50 ft. above wash.
	Land, rolling mesa and broken slope of mesa.
	Soil, light, dry, red, sandy loam, on sandy sub-soil.
	Timber, scattered cedar.
	Undefgrowth, scattered chaparral.
	Good grazing.
	N. 0° 01' W., on random line, bet. secs. 1 and 2.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.85	Intersect the north bdy. of the Tp. 23 lks. west of the

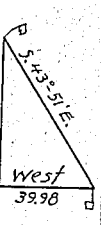
chains	
	cor. of secs. 1, 2, 35 and 36, T. 23 and 24 S., R. 18 E.,
	Thence,
	S.0° 09' W., on true line bet. secs. 1 and 2.
	Over broken and rolling mesa land, through scattered cedar timber and scattered chaparral undergrowth.
	Line runs along gradual west slope.
38.85	Level with sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor. of secs. 1 and 2, with brass cap mkd.,
	$\frac{1}{4}$ S 2 | S 1 1916
	From which,
	A cedar, 8 ins. dia., bears, S. 35° E., 147 lks. dist., mkd. $\frac{1}{4}$ S 1 B T.
	A cedar, 7 ins. dia., bears, S. 85° W., 261 lks. dist., mkd. $\frac{1}{4}$ S 2 B T.
	Desc. gradually into gulch.
41.80	Gulch, 60 ft. below $\frac{1}{4}$ sec. cor., 50 ft. deep and 5.00 chs. wide, drains W., asc. gradually along N. E. slope of mesa.
58.30	Rim of mesa, 70 ft. above gulch, bears N. 80° W. and S. 80° E., desc. abruptly along N. slope of mesa.
71.80	Gulch, 170 ft. below mesa, drains S.W., asc. gradually.
74.80	Spur, 40 ft. above gulch, projects S.W., desc. gradually.
78.85	The cor. of secs. 1, 2, 11 and 12, 30 ft. below spur.
	Land, rolling mesa and valley.
	Soil, light, dry, red, sandy loam, on sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Good grazing.

	From the true cor. of secs. 2, 3, 34 and 35, T. 24 and 25 S., R. 18 E.,
	N. 0° 01' W., on true line bet. secs. 34 and 35.

chains	
	Over rolling, broken valley land through scattered cedar timber. Descend gradually.
40.00	80 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins in sand bank, for the $\frac{1}{4}$ cor. of secs. 34 and 35, with brass cap mkd.,
	$\frac{1}{4}$ S 34 | S 35 1916
	There being no suitable bearing trees available and no stone available, establish no accessories for $\frac{1}{4}$ sec. cor., pits being impracticable on account of drifting sand.
40.50	Wash, level with $\frac{1}{4}$ sec. cor., drains S. 80° W., asc. gradually over sandstone outcroppings.
51.00	Leave sandstone outcroppings, thence over sandy soil.
80.00	70 ft. above wash.
	Set an iron post, 3 ft. long, 2 ins. dia., 26 ins. in the sand for the cor. of secs. 26, 27, 34 and 35, with brass cap mkd.,
	T 24 S R 18 E S 27 | S 26 S 34 | S 35 1916
	No accessories to cor., no bearing trees or stone available, pits impracticable on account of drifting sand.
	Land, mostly rolling valley.
	Soil, dry, sandy, portions mixed with sandstone.
	Timber, scattered cedar.
	Undergrowth, none.
	Fair grazing.
	East, on random line, bet. secs. 26 and 35.
40.00	Set. temp. $\frac{1}{4}$ sec. cor.
79.96	Fall 7 lks. south of the cor. of secs. 25, 26, 35 and 36.
	Thence,

chains	
	S. 89° 57' W., on true line, bet. secs. 26 and 35.
	Over rolling valley land.
39.98	Level with sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ sec. cor. for secs. 26 and 35, with brass cap mkd.,
	¼ S 26 / S 35 1916.
	Dig pits, E. and W. of ¼ sec. cor., 3 ft. dist., pits 18 x 18 x 12 ins.
	Set a flag for triangulation, 2 lks. south of the ¼ cor.
46.50	Wash, level with ¼ sec. cor., 3 ft. deep and 20 lks. wide, drains S. 40° E.
79.96	The cor. of secs. 26, 27, 34 and 35, level with wash.
	Land, rolling valley.
	Soil, dry dandy, sub-soil, sandy.
	Timber, none.
	Undergrowth, none.
	Fair grazing.

	N. 0° 01' W., on true line, bet. secs. 26 and 27.
	Over rolling valley land, and rough sandstone ledges.
30.20	Foot of sandstone ridge, level with sec. cor., bears N. 80° E. and S. 80° W.
	Impossible to chain over side of ridge on account of ledges, therefore proceed to determine distance to top of ridge as follows;
	Set a flag on line at top of ridge and then make detour to flag and with instrument at flag on top of ridge, find that the flag 2 lks. south of the ¼ sec. cor. bet. secs. 26 and 35 bears S. 43° 51' E., the distance to instrument is then,
	Cotan. 43° 51' x base = 1.04097 x 39.98 = 41.62
41.56	Then measure south 6 lks. and set flag for further triangulation.



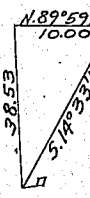
chains

40.00 Point falls on side of ledges impossible to set cor., therefore continue N.0° 01' W.

41.56 Flag and top of bare sandstone ridge, 300 ft. above sec. cor., bears N.E. and S.W., impossible to set witness cor. on top of ridge on account of steep bare sides.

Impossible to chain north from top of ridge, therefore proceed to determine distance to valley below ridge as follows, set a point on line in valley N. 0° 01' W. from flag and make detour to point and with instrument at said point, measure a base line, N. 89° 59' E., 10.00 chs. dist. From the east end of base line the flag at 41.56 chs., on top of ridge, bears, S. 14° 33' W., the distance to point in valley is then,

cotan 14° 33' x base = 3.85284 x 10.00 = 38.53



The point is then, 41.56 chs. plus 38.53 chs., or 80.09 chs. N.0° 01' W. of the cor. of secs. 26, 27, 34 and 35.

From this north triangulation point, then measure back S. 0° 01' E. and set witness cor.

49.25 350 ft. below ridge.

Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to solid rock and 14 ins. in a mound of stone, with 2 ft. base, for a witness cor. to the ¼ cor. of secs. 26 and 27, with brass cap mkd.,

¼
S 27 | S 26
WC
1916

Raise a mound of stone, with 2 ft. base and 1½ ft. high, west of the witness cor.

Desc. gradually from witness cor.

78.80 Gulch, 30 ft. below witness cor., drains, N. 50° W., asc. gradually from gulch.

80.00 10 ft. above gulch.

Set an iron post, 3 ft. long, 2ins. dia., 24 ins. in a mound of stone, with base 2 ft. and 1½ ft. high, cor. is set on barren sandstone., for the cor. of secs. 22, 23, 26 and 27, with brass cap mkd.,

Chains	
	T 24 S R 18 E S 22 | S 23 S 27 | S 26 1916
	Raise a mound of stone, 2 ft. base and 1½ ft. high, west of the sec. cor.
	Land, rolling valley, with broken sandstone ridge.
	Soil, dry sandy, on sandy rocky sub-soil.
	Timber, none.
	Undergrowth, none.
	Fair grazing.

	N. 89° 57' E., on random line, bet. secs. 23 and 26.
	Impossible to chain east from the sec. cor. on account of sandstone ledges, therefore proceed to determine the distance to top of ledges as follows; set a flag on line N. 89° 57' E., from the sec. cor. and make detour to flag and find that from this flag the flag set 41.56 chs. N. 0° 01' W. of the cor. of secs. 26, 27, 34 and 35, bears, S. 22° 18' W., the distance to the instrument is then,
	$\frac{\text{base} \times \sin. 22° 19'}{\sin. 67° 39'} = \frac{38.44 \times 0.37973}{0.92488} = 15.78$ chs.
40.00	Set temp. ¼ sec. cor.
79.90	Fall 2 lks. north of the cor. of secs. 33, 34, 25 and 36.
	Thence,
	S. 89° 58' W., on true line, bet. secs. 23 and 26.
	Over rolling mesa through scattered cedar timber and scattered chaparral undergrowth. Desc. gradually.
1.00	Wash, 10 ft. below sec. cor., drains S.W., 10 ft. deep and 15 lks. wide, asc. gradually.
34.50	Spur, 80 ft. above wash, projects S. 60° W., desc. gradually.
39.95	10 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. dia., 2 ins. in the ground to solid rock and 24 ins. in a mound of stone base 3 ft, for ¼ sec. cor., with brass cap marked

chains	
	S 23 ¼ S 26 1916
	There being no bearing trees available, raise a mound of stone, with 2 ft. base and 1½ ft. high, north of the ¼ sec. cor.
	Continue gradual desc. into gulch.
50.00	Gulch, 20 ft. below ¼ sec. cor., drains S.W., asc. gradually.
63.00	Sandstone spur, 30 ft. above gulch, projects S. ., desc. gradually.
64.10	Top of sandstone wall, level with spur, bears N. and S., desc. abruptly over impassable ledges.
64.12	East triangulation point.
79.90	The cor. of secs. 22, 23, 26 and 27.
	Land, rolling mesa and sandstone ledges.
	Soil, light, dry, sandy loam with sandstone outcroppings and sandstone ledges.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing.

	N.0° 01' W., on true line bet. secs. 22 and 23.
	Over rolling valley, sandstone outcroppings.
22.50	Leave sandstone thence over rolling land, with shifting sand.
40.00	Wash, 40 ft. below sec. cor., drains N. 60° W.
	Point falls in wash where cor. cannot be set permanently, therefore continue N. 0° 01' W. and at
40.90	On north edge of wash, 3 ft. deep and 25 lks. wide.
	Set an iron post, 3 ft. long and 1 in. dia., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone with 3½ ft. base, for a witness cor. to the ¼ cor. of secs. 22 and 23, with brass cap mkd.,
	¼ S 22 | S 23 WC 1916

chains	
	Raise mound of stone, with 2 ft. base and 1½ ft. high, west of the ¼ sec. cor.
50.00	Set a flag for triangulation.
77.60	Wash, level with ¼ sec. cor., 2 ft. deep and 15 lks. wide, drains N. 40° W.
80.00	Level with wash.
	Set an iron post, 3 ft. long, 2 ins. dia., 20 ins. in the ground to solid rock and 4 ins. in a mound of stone, base 2 ft., for the cor. of secs. 14, 15, 22 and 23., with brass cap mkd.,

T 24 S R 18 E

S 15	S 14
S 22	S 23

1916

	Dig pits 18 x 18 x 12 ins., in each sec., 5½ ft. dist. from the post cor.
	Land, rolling valley.
	Soil, dry, loose sand, mixed with numerous sandstones on south portion, on sandstone sub-soil.
	Timber, none.
	Undergrowth, none.
	Poor grazing.
	N. 89° 58' E., on random line, bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
	On account of ledges impossible to chain over, east of ¼ sec. cor., proceed to determine distance to top of ledges as follows; Measure a base line, N. 0° 02' W., 10.00 chs. dist. from the temp. ¼ sec. cor., from which point flag previously set on line at top of ledges, bears S. 54° 41' E., the distance from temp. ¼ sec. cor. to top of ledges is then,
	tan. 54° 41' x base 1.41148 x 10.00 14.11 chs.
54.11	East triangulation point.
79.90	Fall 5 lks. north of the cor. of secs. 13, 14, 23 and 24.
	Thence,

S.54°-41'E.
N.89°-58'E.

Subdivision of T. 24 S., R. 18 E.

chains	
	West, on true line, bet. secs. 14 and 23.
	Over rolling mesa land through scattered cedars and scattered chaparral undergrowth. Desc. gradually.
6.70	Wash, 10 ft. below sec. cor., 8 ft. deep and 15 lks. wide, drains, north.
25.79	Flag and east triangulation point.
25.90	Rim of mesa, level with wash, bears, N. 20° W. and S. 20° E., desc. abruptly over impassable sandstone ledges.
39.00	Base of ledges, 500 ft. below mesa, bears N. 20° W. and S. 20° E., desc. gradually.
39.95	20 ft. below base of ledges.
	Set an iron post, 3 ft. long and 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 14 and 23, with brass cap mkd.,
	S 14 $\frac{1}{4}$ S 23 1916.
	There being no suitable bearing trees available, raise a mound of stone, with base 2 ft. and $1\frac{1}{2}$ ft. high, north of the $\frac{1}{4}$ sec. cor.
57.50	Wash, 50 ft. below $\frac{1}{4}$ sec. cor., 5 ft. deep and 15 lks. wide, drains N. 30° W., asc. gradually.
59.00	Spur, 30 ft. above wash, projects N. 20° W., desc. gradually.
60.40	Wash, 20 ft. below spur, 10 ft. deep and 20 lks. wide, drains N. 20° W., asc. gradually.
75.00	Spur, 40 ft. above wash, projects N. 20° W., desc. gradually.
79.90	The cor. of secs. 14, 15, 22 and 23., 20 ft. below spur.
	Land, rolling mesa and broken high sandstone ledges.
	Soil, light, dry, red, sandy loam, mixed with sandstone outcroppings, on sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing.

chains	
	N. 0° 01' W., on true line, bet. secs. 14 and 15.
	Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth.
23.50	Wash, level with sec. cor., 2 ft. deep and 20 lks. wide, drains N. 60° W.
40.00	Level with wash.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 14 and 15, with brass cap mkd.,
	$\frac{1}{4}$
	S 15 | S 14
	1916
	There being no bearing trees available, dig pits, 18 x 18 x 12 ins., N. and S. of the $\frac{1}{4}$ sec. cor., 3 ft. dist. Desc. gradually.
60.00	Wash, 30 ft. below $\frac{1}{4}$ sec. cor., 3 ft. deep and 25 lks wide, drains N. 60° W., asc. gradually.
78.70	Wash, 20 ft. above wash, 2 ft. deep and 10 lks. wide, drains N. 80° W.
80.00	Level with wash.
	Set an iron post, 3 ft. long and 2 ins. dia., 24 ins. in the ground for the cor. of secs. 10, 11, 14 and 15, with brass cap mkd.,
	T 24 S R 18 E
	S 10 | S 11
	S 15 | S 14
	1916
	There being no suitable bearing trees available, dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist. from the sec. cor.
	Land, rolling valley.
	Soil, light, dry, red, sandy loam, on sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing.

chains	
	East, on random line, bet. secs. 11 and 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.80	Fall 20 lks. south of the cor. of secs. 11, 12, 13 and 14.
	Thence,
	S. 89° 51' W., on true line, bet. secs. 11 and 14.
	Over broken edge of valley through scattered cedar timber and scattered chaparral undergrowth., asc. abruptly over west slope of spur.
2.20	Spur, 100 ft. above sec. cor., projects N. 10° E., desc. abruptly.
19.40	Wash, 350 ft. below spur, 10 ft. deep and 20 lks. wide, drains north., asc. gradually.
22.80	Spur, 30 ft. above wash, projects north., desc. gradually.
26.80	Wash, 20 ft. below spur, 5 ft. deep and 15 lks. wide, drains north.
29.80	Spur, 30 ft. above wash, projects, north., desc gradually.
39.90	On east slope of spur, 40 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 11 and 14, with brass cap mkd.,
	S 11 $\frac{1}{4}$ S 14 1916
	From which,
	A cedar, 7 ins. dia., bears, N. 5½° W., 40 lks. dist., mkd. $\frac{1}{4}$ S 11 B T.
	A cedar, 9 ins. dia., bears, S. 39½° W., 104 lks. dist., mkd. $\frac{1}{4}$ S 14 B T.
	Continue gradual descent.
41.80	Swale, 10 ft. below $\frac{1}{4}$ sec. cor., drains N. 10° E., asc. gradually.
43.30	Sandstone spur, 20 ft. above swale, projects N. 10° E., desc. gradually.
52.80	Wash, 70 ft. below spur, 10 ft. deep and 15 lks wide, drains N.W., asc. gradually.
55.80	Spur, 30 ft. above wash, projects N. 30° W., desc. gradually.

chains	
60.80	Wash, 40 ft. below spur, 8 ft. deep and 20 lks. wide, drains N. 30° W., asc. gradually.
72.80	Spur, 30 ft. above wash, projects N. 30° W., desc. gradually.
79.80	The cor. of secs. 10, 11, 14 and 15, 20 ft. below spur.
	Land, broken foot hills.
	Soil, light, dry, red, sandy loam, with numerous sandstone outcroppings., on sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Poor grazing.

	N. 0° 01' W., on true line, bet. secs. 10 and 11.
	Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth., desc. gradually.
8.50	Wash, 1 ft. deep and 10 lks. wide, drains N. 65° W., level with sec. cor.
35.00	Wash, 20 ft. below wash, 2 ft. deep and 20 lks. wide, drains west. Thence over level valley land.
40.00	level with wash.
	Set an iron post, 3 ft. long , 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 10 and 11, with brass cap mkd.,
	$\frac{1}{4}$ S 10 | S 11 1916
	There being no suitable bearing trees available, dig pits, 18 x 18 x 12 ins., north and south of the $\frac{1}{4}$ sec. cor., 3 ft. dist.
	Desc. gradually from $\frac{1}{4}$ sec. cor.
73.00	Wash, 70 ft. below $\frac{1}{4}$ sec. cor., 3 ft. deep and 1.00 ch. wide, drains from S.E. to west., asc. gradually from wash.
77.50	Enter sandstone outcroppings., bear E. and W.
80.00	At base of sandstone ledge, 50 ft. high, bearing N. 80°E. and S. 80° W., 50 ft. above wash.

chains

Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to solid rock and 18 ins. in a mound of stone with base of 3 ft. dia., for the cor. of secs. 2, 3, 10 and 11, with brass cap mkd.,

T 24 S R 18 E

S 3	S 2
S 10	S 11

1916

There being no suitable bearing trees available, raise a mound of stone, with 2 ft. base and 1½ ft. high, west of the sec. cor.

Land, rolling valley.

Soil, light, dry, red, sandy loam, with numerous sandstone outcroppings on the north portion. On rocky sandy sub-soil.

Timber, scattered cedars.

Undergrowth, scattered chaparral.

Good grazing.

N. 89° 51' E., on random line, bet. secs. 2 and 11.

40.00 Set temp. ¼ sec. cor.

79.74 Fall 8 lks. south of the cor. of secs. 1, 2, 11 and 12.

Thence,

S. 89° 48' W., on true line, bet. secs. 2 and 11.

Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth.

Asc. gradually.

1.50 Low spur, 10 ft. above sec. cor., projects S. 30° W., desc. gradually.

10.70 Wash, 40 ft. below spur, 3 ft. deep and 20 lks. wide, drains S. 40° W., thence over level valley land.

30.70 Wash, 2 ft. deep and 15 lks. wide, level with wash, drains S. 60° W.

39.87 Level with wash.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ sec. cor for secs. 2 and 11, with

chains	
	brass cap mkd.,
	S 2
	$\frac{1}{4}$
	S 11
	1916
	There being no suitable bearing trees available, dig pits, 18 x 18 x 12 ins., east and west of the $\frac{1}{4}$ sec. post, 3 ft. dist.
	Desc. gradually.
63.30	Wash, 50 ft. below $\frac{1}{4}$ sec. cor., 2 ft. deep and 10 lks. wide, drains S. 60° W., asc. gradually.
69.70	Sandy spur, 10 ft. above wash, projects S. 75° W., desc. gradually.
79.74	The cor. of secs. 2, 3, 10 and 11, 20 ft. below spur.
	Land, rolling valley.
	Soil, light, dry, red, sandy loam on sandy sub-soil.
	Timber, few scattered cedars.
	Undergrowth, scattered chaparral.
	Fair grazing.

	N.0° 01' W., on true line, bet. secs. 2 and 3.
	Over rough broken edge of valley through scattered cedar timber and scattered chaparral undergrowth.
	Asc. over broken sandstone ledges.
11.40	Sandstone spur, 200 ft. above sec. cor., projects S.W. desc. gradually.
24.40	Gulch, 10 ft. below spur, drains S. 40° W., asc.
38.10	Ridge, 210 ft. above gulch, bears S. 70° W. and N. 70°E. Desc, over broken sandstone ledges on N.W. slope of ridge.
40.00	On rough N.W. slope of ridge, 20 ft. below ridge.
	Set an iron post, 3 ft. long and 1 in. dia., on solid rock, 26 ins. in a mound of stone with 3½ ft. base, for the $\frac{1}{4}$ cor. of secs. 2 and 3, with brass cap mkd.,
	$\frac{1}{4}$
	S 3 | S 2
	1916

chains	
	Continue descent over sandstone ledges.
52.40	Cliff, 100 ft. high, 270 ft. below ¼ sec. cor., bears N. 60° E. and S. 60° W., continue desc. over ledges.
63.80	Sandstone ledge, 60 ft. high, 100 ft. below cliff, bears N.E. and S.W., Desc. more gradually.
68.70	Leave sandstone ledges, enter rolling sandy land, 70 ft. below ledge, bears, N. 60° E. and S. 60° W.
79.03	Intersect the north bdy. of the Tp. 56 lks. N.89°57'E. of cor. of secs. 34 and 35, heretofore described.
	At intersection, level with base of ledges.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 2 and 3, with brass cap mkd.,

S 3 | S 2
T 24 S | R 18 E
1916

No suitable bearing trees available and pits impracticable on account of drifting sand.

Land, rough mts. with sandstone ledges, except north portion, which is rolling valley.

Soil, rocky, sandy on rocky sub-soil on south portion. north portion, light, dry, sandy loam.

Timber, scattered cedar.

Undergrowth, scattered chaparral.

Poor grazing.

From the old ¼ cor. on S. bdy. sec. 35 T. 23 S R. 18 E. heretofore described, measure N. 89° 57' E., 26 lks. distance and at this point, which is midway bet. the cor. of secs. 35, 36, 1 and 2 and the cor. of secs. 2 and 3,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. on N. bdy. of sec. 2, with brass cap mkd.,

¼ S 2
1916

No suitable bearing trees available and pits impracticable on account of sand.

---

chains	
	From the cor. of secs. 33, 34, 3 and 4 on the S. bdy. of the T. 24 S., R. 18 E., heretofore described,
	N. 0° 02' W., on true line, bet. secs. 33 and 34.
	Over broken valley land through scattered cedar timber and scattered greasewood undergrowth.
	Asc. gradually over sandstone formation.
33.60	Sandstone spur, 130 ft. above sec. cor., projects east. Desc. gradually.
40.00	50 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground to solid rock and 18 ins. in a mound of stone with 3 ft. base, for the $\frac{1}{4}$ cor. of secs. 33 and 34, with brass cap mkd.,

$\frac{1}{4}$

S 33 | S 34

1916

From which,

A cedar, 9 ins. dia., bears, N. 76° E., 53 lks. dist., mkd. $\frac{1}{4}$ S 34 B T.

A cedar, 7 ins. dia., bears, S. 30$\frac{1}{4}$° W., 158 lks. dist., mkd. $\frac{1}{4}$ S 33 B T.

Continue gradual desc.

54.70	Wash, 40 ft. below $\frac{1}{4}$ sec. cor., 6 ft. deep and 15 lks. wide, drains west. Asc. gradually.
80,00	10 ft. above wash.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 27, 28, 33 and 34, with brass cap mkd.,

T 24 S R 18 E

S 28 | S 27

S 33 | S 34

1916

From which,

A cedar, 10 ins. dia., bears, N. 21° E., 226 lks. dist., mkd. T 24 S R 18 E S 27 B T.

No suitable bearing trees in secs. 28, 33 or 34, therefore dig pits, 18 x 18 x 12 ins., in each sec. 5$\frac{1}{2}$ ft.

chains	
	dist from the sec. cor.
	Land, broken valley.
	Soil, rocky, sandy loam, on sandstone rocky sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered greasewood.
	Poor grazing.

	East, on random line, bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
53.79	Offset 16.31 chs. south to avoid sandstone spur over which it is impossible to chain. Thence east on offset line.
80.15	Fall 16.21 chs. south of the cor. of secs. 26, 27, 34 and 35.
	Thence ,
	From offset point, 16.21 chs. south of the cor. of secs. 26. 27 , 34 and 35,
	N.89° 56' W., on offset line bet. secs. 27 and 34, over rolling valley land through scattered cedar timber.
26.36	Offset 16.21 chs. N. 0°01' W. to true line, thence N.89° 56' W., on true line.
40.07½	30 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 27 and 34, with brass cap mkd.,
	S 27 ¼ S 34 1916
	No suitable bearing trees available, therefore, dig pits, 18 x 18 x 12 ins., E. and W. of the ¼ sec. post, 3 ft. distant.
80.15	The cor. of secs. 27, 28, 33 and 34, 20 ft. below ¼ sec. cor.
	Land, rolling valley, with sandstone spur on east portion.
	Soil, light, dry, sandy loam on sandy sub-soil, except spur, which is broken sandstones.
	Timber, scattered cedar.
	Undergrowth, none. Poor grazing.

chains.	
	N. 0° 02' W., on true line, bet. secs. 27 and 28.
	Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth.
	Ascend gradually.
10.00	Spur, 30 ft. above sec. cor., projects S. 70° W., desc. gradually.
34.00	Wash, 180 ft. below spur, 10 ft. deep and 20 lks. wide, drains N. 60° W. Asc. more abruptly.
40.00	On spur, 90 ft. above wash, projects west.
	Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground to solid rock and 18 ins. in a mound of stone with 3 ft. base, for the $\frac{1}{4}$ cor. of secs. 27 and 28, with brass cap mkd.,
	$\frac{1}{4}$ S 28 | S 27 1916
	Raise a mound of stone, 2 ft. base and $1\frac{1}{2}$ ft. high, west of the $\frac{1}{4}$ sec. cor.
	Desc. abruptly.
47.80	Canyon, 140 ft. below spur, drains west. Asc. over slick sandstone.
65.53	North end of butte, inaccessible sandstone wall about 400 ft. high., therefore offset 3.21 chs. east and continue N. 0° 02' W., on offset line.
80.00	Offset 3.21 chs. west to true line.
	At base of east face of butte, bears N. and S., level with base of ledges.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in a mound of stone, with 4 ft. base, on solid rock, for the cor. of secs. 21, 22, 27 and 28, with brass cap mkd.,
	T 24 S R 18 E S 21 | S 22 S 28 | S 27 1916
	Raise a mound of stone, with 2 ft. base and $1\frac{1}{2}$ ft. high west of the sec. cor.

chains

Land, rolling and broken valley, with steep sandstone butte in north portion.

Soil, dry, light, sandy loam in valley on sandy rocky subsoil. Broken sandstone on butte.

Timber, scattered cedar.

Undergrowth, scattered chaparral.

Fair grazing.

S. 89° 56' E., on random line, bet. secs. 22 and 27.

40.00 Set temp. ¼ sec. cor.

80.29 Intersect the cor. of secs. 22, 23, 26 and 27.

Thence,

N. 89° 56' W., on true line, bet. secs. 22 and 27.

Over rolling valley through scattered cedar timber and scattered chaparral undergrowth.

Desc. gradually over sandy formation.

3.00 Wash, 10 ft. below sec. cor., 5 ft. deep and 15 lks. wide, drains N. 40° W. Asc. gradually.

12.30 Spur, 30 ft. above wash, projects north. Desc. gradually.

22.30 Wash, 30 ft. below spur, 4 ft. deep and 10 lks. wide, drains, north. Asc. gradually.

31.90 Wash, 30 ft. above wash, 3 ft. deep and 15 lks. wide, drains N. 20° E., asc. gradually.

40.14½ 10 ft. above wash.

Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone, with 3½ ft. base., for the ¼ sec. cor of secs. 22 and 27, with brass cap mkd.,

$$\frac{1}{4}\ \frac{S\ 22}{S\ 27}\ \frac{}{1916}$$

From which,

A cedar, 8 ins. dia., bears, North, 186 lks. dist., mkd. ¼ S 22 B T.

A cedar, 7 ins. dia., bears, S. 12½° W., 55 lks. dist.

chains	
	mkd., $\frac{1}{4}$ S 27 B T.
50.30	Sandstone spur, 40 ft. above $\frac{1}{4}$ sec. cor., projects N. Desc. gradually.
60.20	Wash, 60 ft. below spur, 10 ft. deep and 20 lks. wide, drains north.
	Asc. gradually.
80.29	The cor. of secs. 21, 22, 27 and 28, 100 ft. above wash.
	Land, rolling valley, sandstone formation.
	Soil, light, dry, sandy loam on rocky, sandy. sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing.

	N. 0° 02' W., on true line, bet. secs. 21 and 22.
	Over rolling broken valley land through scattered cedar timber and scattered chaparral undergrowth.
	Ascend gradually.
	On account of inaccessible ledges, offset 8.30 chs. east, thence N.0° 02' W., on offset line.
chains	
5.70	Sandstone spur, 40 ft. above sec. cor., projects east. Desc. gradually.
25.20	Wash, 30 ft. below spur, 5 ft. deep and 15 lks. wide, drains east. Asc. gradually.
37.14	Offset 8.30 chs. west to true line. The true $\frac{1}{4}$ sec cor. point is inaccessible on account of high sandstone wall of butte, therefore at this point, 30 ft. above wash.
	Set an iron post, 3 ft. long and 1 in. dia., on rock ledge, 26 ins. in a mound of stone, with $3\frac{1}{2}$ ft. base, for a witness cor. to the $\frac{1}{4}$ cor. of secs. 21 and 22, with brass cap mkd.,

WC /

$\frac{1}{4}$

S 21 | S 22

1916

chains

Raise a mound of stone, with 2 ft. base and 1½ ft. high, west of the witness cor.

40.00 Point for ¼ sec. cor. cor. not set.

Impossible to chain north from the witness cor. on account of inaccessible ledges, therefore offset from WC 13.96 chs. east, thence N. 0° 02' W., on offset line.

80.00 Offset 13.96 chs. west to true line.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 15, 16, 21 and 22, with brass cap mkd.,

T 24 S R 18 E

S 16	S 15
S 21	S 22

1916

From which,

A cedar, 7 ins. dia., bears N. 38½° E., 192 lks., dist., mkd. T 24 S R 18 E S 15 B T.

A cedar, 7 ins. dia., bears, S. 44° E., 640 lks. dist., mkd. T 24 S R 18 E S 22 B T.

A cedar, 8 ins. dia., bears, S. 21½ W., 308 lks. dist., mkd. T 24 S R 18 E S 21 B T.

A cedar, 9 ins. dia., bears, N. 68° W., 404 lks. dist., mkd. T 24 S R 18 E S 16 B T.

Land, broken valley and steep sandstone butte.

Soil, in valley, dry, sandy loam on rocky sub-soil. On butte, rocky sandy formation on sandstone.

Timber, scattered cedar.

Undergrowth, scattered chaparral.

Fair grazing in valley.

S. 89° 56' E., on random line, bet. secs. 15 and 22.

40.00 Set temp. ¼ sec. cor.

80.02 Fall 9 lks. south of the cor. of secs. 14, 15, 22 and 23.

Thence,

West, on true line, bet. secs. 15 and 22.

Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth.

Chains	
0.80	Wash, level with sec. cor., 2 ft. deep and 15 lks. wide, drains N. 60° W.
31.00	Gulch, level with sec. cor., drains north.
38.00	Wash, level with gulch, 2 ft. deep and 10 lks. wide, drains N. 30° E.
	Asc. gradually.
40.01	10 ft. above wash.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{16}$ cor. of secs. 15 and 22, with brass cap mkd.,
	$\frac{1}{16}$ S 15 / S 22 / 1916
	No suitable bearing trees available, therefore dig pits, 18 x 18 x 12 ins. east and west of the $\frac{1}{16}$ sec. post, 3 ft. distant.
55.00	Wash, level with $\frac{1}{16}$ sec. cor., 3 ft. deep and 25 lks. wide, drains N. 70° W.
65.00	Enter sandstone, brs. N. 60° W. and S. 60° E.
70.00	Leave sandstone, enter sandy soil, bears N. 50° W. and south.
80.02	The cor. of secs. 15, 16, 21 and 22, level with wash.
	Land, rolling valley land.
	Soil, light, dry, sandy, loam, mixed with sandstone. on dry sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing.

	N. 0° 02' W., on true line, bet. secs. 15 and 16.
	Over rolling valley land through scattered cedar timber, and scattered chaparral undergrowth.
	Desc. gradually.
26.10	Wash, 20 ft. below sec. cor., 3 ft. deep and 20 lks. wide, drains N. 30° W. Asc. gradually.
40.00	20 ft. above wash.

chains

Set an iron post, 3 ft. long, 1 in. dia., 4 ins. in the ground to solid rock and 22 ins. in a mound of stone, with 3½ ft. base, for the ¼ cor. of secs. 15 and 16, with brass cap mkd.,

¼
S 16 | S 15
1916

From which,

A cedar, 10 ins. dia., bears, N. 17¼° E., 158 lks. dist., mkd. ¼ S 15 B T.

No suitable bearing tree in sec. 16, therefore raise a mound of stone, with 2 ft. base and 1½ ft. high, west of the ¼ sec. cor.

Asc. gradually.

42.50 Sandstone spur, 20 ft. above ¼ sec. cor., projects N.W.

Desc. gradually.

57.30 Wash, 30 ft. below spur, 4 ft. deep and 15 lks. wide, drains N. 60° W. Asc. gradually.

79.00 Spur, 40 ft. above wash, projects N.W.

80.00 On N.E. slope of spur, 10 ft. below spur.

Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in the ground to solid rock and 16 ins. in a mound of stone with 3 ft. base, for the cor. of secs. 9, 10, 15 and 16, with brass cap mkd.,

T 24 S R 18 E
S 9 | S 10
S 16 | S 15
1916

Raise a mound of stone, with 2 ft. base and 1½ ft. high, west of the sec. cor.

Land, rolling valley, draining N.E.

Soil, light, dry, sandy loam with sandstone outcroppings on rocky sandy sub-soil.

Timber, scattered cedar.

Undergrowth, scattered chaparral.

Fair grazing.

chains	
	East, on random line, bet. secs. 10 and 15.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Fall 11 lks. north of the cor. of secs. 10, 11, 14 and 15.
	Thence,
	N. 89° 55' W., on true line, bet. secs. 10 and 15.
	Over rolling valley land through scattered chaparral undergrowth.
	Desc. gradually.
1.00	Wash, 10 ft. below sec. cor., 2 ft. deep and 15 lks. wide, drains north. Asc. gradually.
8.00	Spur, 30 ft. above wash, projects north, desc. gradually.
16.80	Wash, 50 ft. below spur, 3 ft. deep and 10 lks. wide, drains north. Asc. gradually.
22.00	Spur, 40 ft. above wash, projects north. Desc. gradually.
37.70	Wash, 30 ft. below spur, 3 ft. deep and 15 lks. wide, drains north, Asc. gradually.
40.02	20 ft. above wash,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor of secs. 10 and 15, with grass cap mkd.,
	S 10 $\frac{1}{4}$ S 15 1916
	Dig pits, 18 x 18 x 12 ins., east and west of the $\frac{1}{4}$ sec. cor., 3 ft. dist.
	Asc. gradually.
80.04	The cor. of secs. 9, 10, 15 and 16, 40 ft. above $\frac{1}{4}$ sec. cor.
	Land, rolling valley.
	Soil, light, dry, sandy loam, on rocky sandy sub-soil. Some sandstone outcroppings.
	Timber, none.
	Undergrowth, scattered chaparral.
	Fair grazing.

---

chains	
	N. 0° 02' W., on true line, bet. secs. 9 and 10.
	Over rolling valley land through scattered chapparral undergrowth.
	Desc. gradually.
34.70	Wash, 30 ft. below sec. cor., 2 ft. deep and 15 lks. wide, drains N. 40° W..
	Asc. gradually.
40.00	10 ft. above wash.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 9 and 10, with brass cap mkd.,

$\frac{1}{4}$

S 9 | S 10

1916

	Dig pits, 18 x 18 x 12 ins., north and south of the $\frac{1}{4}$ sec. post, 3 ft. distant..
	Asc. gradually.
45.00	Ridge, 10 ft. above $\frac{1}{4}$ sec. cor., bears N. 60° W. and S. 60° E. Desc. gradually.
50.75	Wash, 40 ft. below ridge, 2 ft. deep and 20 lks. wide, drains W. to N.W. Asc. gradually.
58.00	Low ridge, 30 ft. above wash, bears N. 75° W., and S. 75° E. Desc. gradually.
65.00	Wash, 40 ft. below ridge, 3 ft. deep and 100 lks. wide, drains W. to N.W. Cottonwood timber along wash.
71.30	Foot of sandstone bluff, 350 ft. high, bears east and west 5 chs. thence N. 30° W. 20 ft. above wash.
	Impossible to reach true sec. cor, point on account of inaccessible ledges, therefore at this point.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for a witness cor. to the cor. of secs. 3, 4, 9 and 10, with brass cap mkd.,

W C

T 24 S R 18 E

S 4 | S 3

S 9 | S 10

1916

chains.

Raise a mound of stone, with 2 ft. base and 1½ ft. high, west of the witness cor.

80.00 Point for cor. of secs. 3, 4, 9, and 10; cor. not set.
Land, rolling valley on south portion, steep sandstone ledges on north portion.

Soil, on rolling valley, light, dry, sandy loam, on sandy sub-soil. Sandstone outcroppings.

Timber, none.

Undergrowth, scattered chaparral.

S. 89° 55' E., on random line, bet. secs. 3 and 10.

It being impossible to run east from the witness cor. of secs. 3, 4, 9, and 10. offset 2.01 chs. south from witness cor. to a point 10.81 chs. south of the true cor. point,

Thence, S. 89° 55' E., on offset line.

40.00 Set temp. ¼ sec. cor. on offset line.

80.14 Fall 10.92 chs. south of the cor. of secs. 2, 3, 10 and 11.

Thence,

West, from a point 10.81 chs. south of the cor. of secs. 2, 3, 10 and 11, on offset line, bet. secs. 3 and 10.

37.00 Wash, drains SW.

40.07 Measure north, 7.14 chs. to base of inaccessible sandstone wall, 350 ft. high, and at this point,

Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to solid rock and 14 ins. in a mound of stone, with 3 ft. base, for a witness cor. to the ¼ cor. of secs. 3 and 10., with brass cap mkd.,

W C
S 3
¼
S 10
1916

Raise a mound of stone, with 2 ft. base and 1½ ft. high, north of the witness cor.

Continue, west, on offset line, 10.81 chs. south of true line.

80.14 Offset 2.01 chs. north.

The witness cor. to the cor. of secs. 3, 4, 9 and 10,

chains

level with $\frac{1}{4}$ witness cor.

Land, steep, sandstone ledges.

Soil, rocky, sandy loam.

Timber, none.

Undergrowth, scattered chaparral.

From the witness cor. to the cor. of secs. 3, 4, 9 and 10. N. 0° 02' W., on true line, bet. secs. 3 and 4.

Over steep, inaccessible ledges.

Impossible to run north from the witness cor., on account of inaccessible sandstone ledges, therefore proceed to offset around ledges as follows, measure S. 0° 02' E., from the witness cor. to the cor. of secs. 3, 4, 9 and 10 a distance of 14.24 chs., to a point 23.04 chs. S.0° 02' E., o f the true cor. point of secs. 3, 4, 9 and 10. Then from this point, offset, 29.82 chs. west, thence, run N. 0° 02' W., on offset line.

At a point 91.27 chs. N. 0° 02' W., from the offset point, offset, 29.82 chs. east to true line, which is a point, 68.23 chs. N. 0° 02' W., of the true cor. point for secs. 3, 4, 9 and 10. Then measure S. 0° 02' E., on true line, 7.33 chs. to a point 60.90 chs. N. 0° 02' W. of the true cor. point for secs. 3, 4, 9 and 10. Impossible to get nearer the true $\frac{1}{4}$ cor. point for secs. 3 and 4 on account of inaccessible ledges.

60.90 At base of sandstone ledges, 250 ft. high, bears E and W, 2 chs. dist., thence N.W.

Set an iron post, 3 ft. long, 1 in. dia. 26 ins. in a mound of stone, with 4 ft. base, on solid rock, for a witness point to the $\frac{1}{4}$ cor. of secs. 3 and 4, with brass cap mkd.,

$\frac{1}{4}$

S 4 | S 3

WP

1916

Raise a mound of stone, with 2 ft. base and 1½ ft. high, west of the witness point.

chains

Thence over nearly level valley.

78.78 Intersect the north bdy. of the Tp. 74 lks. N.89°50'E. of the old cor. of secs. 33 and 34, heretofore described.

At intersection, level with ¼ witness point.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 3 and 4, with brass cap mkd.,

S 4 | S 3
T 24 S | R 18 E
1916

Pits impracticable on account of washing of sands.

Land, south portion steep in accessible sandstone ledges, north portion, gently rolling valley.

Soil, on north portion, light, dry, sandy loam.

Timber, none.

Undergrowth, scattered chaparral. No grazing.

From the old ¼ sec. cor on the south bdy. of sec. 34, T. 23 S., R. 18 E., measure N. 89° 57' E., a distance of 66 lks. and at this point.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. on N. bdy. of sec. 3, with brass cap mkd.,

¼ S 3
1916

Dig pits, 18 x 18 x 12 ins., east and west of the ¼ sec. post, 3 ft. distant.

From the cor. of secs. 4,5,32 &33 on the south bdy. of T. 24 S., R. 18 E., heretofore described.

N. 0° 03' W., on true line, bet. secs. 32 and 33.

Over broken valley land with sandstone outcroppings, through scattered cedar timber. Desc. gradually.

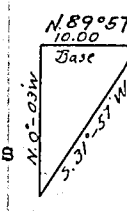
20.00 South brink of Spring canyon, 20 ft. below sec. cor., bears, S.E. and N.W.

On account of box canyon, impossible to chain across proceed to determine distance across as follows,

chains

Set a flag at this point and another flag on line, across canyon on the north brink of box canyon, then from the latter flag, measure a base, N. 89° 57' E. 10.00 chs. distance, from which point the flag on line on the south brink of canyon, bears, S. 31° 57' W., the distance across canyon is therefore,

tan. 58°00' x base 1.60033 x 10.00 16.00 chs.



36.00 North triangulation point and north brink of canyon, 250 ft. above canyon, bears N.W. and S.E., canyon drains N.W. Thence over nearly level valley land.

40.00 Level with brink of canyon.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in a mound of stone, 4 ft. base, on solid rock, for the ¼ cor. of secs. 32 and 33, with brass cap mkd.,

¼

S 32 | S 33

1916

From which,

A cedar, 6 ins. dia., bears, S. 50° E., 109 lks. dist. mkd. ¼ S 33 B T.

A cedar, 8 ins. dia., bears, S. 60½° W., 188 lks. dist., mkd. ¼ S 32 B T.

Continue over nearly level land.

66.70 Box canyon, 80 ft. below ¼ sec. cor., 80 ft. deep and 20.00 chs. wide, heads about 1.00 ch. east of line, course, S. 40° W.

80.00 110 ft. above canyon.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in a mound of stone, with 4 ft. base, on solid rock, for the cor. of secs. 28, 29, 32 ans 33, with brass cap mkd.,

T 24 S R 18 E

S 29 | S 28

S 32 | S 33

1916

No suitable bearing trees available, therefore raise a mound of stone, 2 ft. base and 1½ ft. high, W. of cor.

Subdivision of T. 24 S., R. 18 E.

chains

Land, broken valley, with sandstone ledges along canyon.
Soil, light, dry, sandy loam, with sandstone outcroppings on rocky, sandy sub-soil.
Timber, scattered cedar.
Undergrowth, none.
Fair grazing.

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

40.00 Set temp. ¼ sec. cor.

80.04 Fall 5 lks. south of the cor. of secs. 27, 28, 33, and 34.

Thence,

S. 69° 58' W., on true line, bet. secs. 28 and 33.
Over broken valley land, through scattered cedar timber and scattered chaparral undergrowth.
Asc. gradually.

23.50 Top of sandstone ledge, 40 ft. high, 10 ft. above sec. cor., bears N. 40° W. and S. 40° E.

Desc. over ledge.

24.70 Base of ledge, 40 ft. below top. Thence over rolling sandy land.

38.50 Wash, level with base of ledges, 3 ft. deep and 15 lks. wide, drains south.

40.02 Level with wash.

Set an iron post, 3 ft. long, 1 in. dia., .26 ins. in the ground for the ¼ cor. of secs. 28 and 33, with brass cap mkd.,

S 28
¼
S 33
1916,

No suitable bearing trees available, therefore raise a mound of stone, with 2 ft. base and 1½ ft. high, north of the ¼ sec. cor.

67.30 Enter sandstone, bears N. 80° W and S. 80° E.

80.04 The cor. of secs. 28, 29, 32 and 33, level with ¼ sec. cor.

chains

Land, rolling and broken valley.

Soil, light, dry, sandy loam, with sandstone outcroppings, on sandy sub-soil.

Timber, scattered cedar.

Undergrowth, scattered chaparral.

Fair grazing.

N. 0° 03' W., on true line, bet. secs. 28 and 29.

Over rolling valley land through scattered cedar timber.

49.00 Level with sec. cor.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 28 and 29, with brass cap mkd.,

¼

S 29 | S 28

1916

From which,

A cedar, 5 ins. dia., bears, S. 72¾° E., 172 lks. dist., mkd. ¼ S 28 B T.

A cedar, 6 ins. dia., bears, N. 35¼° W., 192 lks. dist., mkd. ¼ S 29 B T.

80.00 Level with ¼ sec. cor.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 20, 21, 28 and 29, with brass cap mkd.,

T 24 S R 18 E

S 20 | S 21

S 29 | S 28

1916

From which,

A cedar, 8 ins. dia., bears, N. 22¼ E., 139 lks. dist. mkd. T 24 S R 18 E S 21 B T.

A cedar, 6 ins. dia., bears, N. 3¾° W., 280 lks. dist. mkd. T 24 S R 18 E S 20 B T.

No suitable bearing trees available in secs. 28 and 29, therefore dig pits, 18 x 18 x 12 ins. in each sec. 5½ ft. dist. from sec. cor. post.

chains	
	Land, gently rolling valley.
	Soil, light, dry, sandy loam on sandy sub-soil.
	Timber, scattered cedar timber.
	Undergrowth, none.
	Fair grazing.

	N. 89° 58' E., on random line, bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
64.14	Base of inaccessible ledges impossible to chain over..
	Offset, 18.00 chs. south and continue N. 89° 58' E., on offset line.
79.94	Offset 18.00 chs. north and fall on the cor. of secs. 21, 22, 27 and 28.
	Thence,
	S. 89° 58' W., from a point 18.00 chs. south of the cor. of secs. 21, 22, 27 and 28, on offset line.
	Over broken valley land through scattered cedar timber and scattered chaparral undergrowth.
15.80	Offset 18.00chs.N.0.02W.to true line, at base of sandstone wall 300 ft. high, bears S. 20° E. and N. 20° W., thence S. 89° 58' W., on true line.
	Desc. gradually.
36.30	Wash, 130 ft. below base of ledges, 4 ft. deep and 15 lks.wide, drains north. Asc. gradually.
39.97	50 ft. above wash. On slick sandstone mkd. (x) at true point.
	Set an iron post, 3 ft. long, 1 in. dia., on solid rock, 26 ins. in a mound of stone, with 4 ft. base, for the $\frac{1}{4}$ cor. of secs. 21 and 28, with brass cap mkd.,
	S 21 $\frac{1}{4}$ S 28 1916
	From which,
	A cedar, 6 ins. dia., bears, N. 5° W., 74 lks. dist., mkd. $\frac{1}{4}$ S 21 B T.
	A cedar, 7 ins. dia., bears, S. 52° E., 53 lks. dist., mkd. $\frac{1}{4}$ S 28 B T.

chains	
	Asc. gradually.
65.00	Spur, 70 ft. above $\frac{1}{4}$ sec. cor., projects N. 30° E.
	Desc. gradually.
79.94	The cor. of secs. 20, 21, 28 and 29, 40 ft. below spur.
	Land, broken valley.
	Soil, light, dry, red, sandy loam, on sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing.

	N. 0° 03 ' W., on true line, bet. secs. 20 and 21.
	Over gently rolling valley land through scattered cedar timber and scattered chaparral undergrowth.
	Desc. gradually.
40.00	60 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 20 and 21, with brass cap mkd.,

$\frac{1}{W}$

S 20 | S 21

1916

From which,

A cedar, 9 ins. dia., bears, S. 62° E., 365 lks. dist., mkd., $\frac{1}{4}$ S 21 B T.

A cedar, 7 ins. dia., bears, S. 23¾° W., 261 lks. dist., mkd. $\frac{1}{4}$ S 20 B T.

Continue over level valley land.

80.00 Level with $\frac{1}{4}$ sec. cor.

Set an iron post, 3 ft. long, 2 ins. dia., 21 ins. in the ground to solid rock and 22 ins. in a mound of stone with 4 ft. base, for the cor. of secs. 16, 17, 21 and 20, with brass cap mkd.,

T 24 S R 18 E

S 17 | S 16

S 20 | S 21

1916

chains

From which,

A cedar, 7 ins. dia., bears, N. 30° E., 83 lks. dist. mkd. T 24 S R 18 E S 16 B T.

A cedar, 6 ins. dia., bears, S. 21° E., 107 lks. dist. mkd. T 24 S R 18 E S 21 B T.

A cedar, 8 ins. dia., bears, S. 49° W., 252 lks. dist. mkd. T 24 S R 18 E S 20 B T.

A cedar, 6 ins. dia., bears, N. 12° W., 187 lks. dist. Mkd. T 24 S R 18 E S 17 B T.

Land, rolling valley.

Soil, light, dry, red, sandy loam on sandy sub-soil, with sandstone outcroppings.

Timber, scattered cedar.

Undergrowth, scattered chaparral.

Fair grazing.

N. 89° 58' E., on random line, bet. secs. 16 and 21.

40.00 Set temp. ¼ sec. cor.

80.11 Fall 13 lks. north of the cor. of secs. 15, 16, 21 and 22.

Thence,

N. 89° 55' W., on true line, bet. secs. 16 and 21.

Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth.

Desc. gradually.

5.20 Wash, 30 ft. below sec. cor., 3 ft. deep and 15 lks. wide drains north, asc. gradually.

35.10 Spur, 50 ft. above wash, projects north. Desc. gradually.

40.05½ 30 ft. below spur.

Set an iron post, 3 ft long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 16 and 21, with brass cap mkd.,

S 16

¼

S 21

1916

From which,

A cedar, 12 ins. dia., bears, N. 64° E., 157 lks. dist.,

Subdivision of T. 24 S., R. 18 E.

chains	
	mkd. $\frac{1}{4}$ S 16 B T.
	A cedar, 15 ins. dia., bears, S. 43° W., 242 lks. dist., mkd. $\frac{1}{4}$ S 21 B T.
43.80	Wash, 20 ft. below $\frac{1}{4}$ sec. cor., 5 ft. deep and 20 lks. wide, drains north. Asc. gradually.
56.90	Wash, 30 ft. above wash, 6 ft. deep and 30 lks. wide, drains N. 20° E.
	Continue gradual ascent.
72.60	Spur, 40 ft. above wash, projects S. 20° E., desc. gradually.
80.11	The cor. of secs. 16, 17, 20 and 21; 40 ft. below spur.
	Land, broken valley.
	Soil, light, dry, sandy loam, with sandstone outcroppings, on rocky sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.

	N. 0° 03' W., on true line, bet. secs. 16 and 17.
	Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth.
	Ascend gradually, over sandstone outcroppings.
10.00	Leave sandstone outcroppings, bears E. and W., Enter sandy land, bears E. and W.
20.00	Low ridge, 20 ft. above sec. cor., bears E. and W.
	Desc. gradually.
30.00	Enter sandstone outcroppings, bears E. and W.
40.00	20-ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 16 and 17, with brass cap, mkd.,
	$\frac{1}{4}$
	S 17 | S 16
	1916
	From which,
	A cedar, 24 ins. dia., bears, N. 58° E., 15 lks. dist., mkd. $\frac{1}{4}$ S 16 B T.
	A cedar, 6 ins. dia., bears, S. 58° W., 33 lks. dist.,

chains	
	Mkd. $\frac{1}{4}$ S 17 B T.
	Desc. gradually.
40.50	Wash, level with $\frac{1}{4}$ sec. cor., 1 ft. deep and 20 lks. wide, drains N. 45° E.
45.00	Same wash, drains N. 20° W.
	Asc. gradually.
73.00	Leave sandstone outcroppings, bears E. and W.
	Thence over sandy land.
80.00	20 ft. above wash.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 8, 9, 16 and 17, with brass cap mkd.,

T 24 S R 18 E

S 8	S 9
S 17	S 16

1916

No suitable bearing trees available, therefore raise a mound of stone, with 2 ft. base and $1\frac{1}{2}$ ft. high, west of the sec. cor.

Land, rolling valley.

Soil, light, dry, sandy loam mixed with numerous sandstone outcroppings. On rocky, sandy sub-soil.

Timber, scattered cedar.

Undergrowth, scattered chaparral.

Fair grazing.

S. 89° 55' E., on random line, bet. secs. 9 and 16.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.10 Fall 11 lks. south of the cor. of secs. 9. 10. 15 and 16.

Thence,

West, on true line, bet. secs. 9 and 16.

Over rolling sandy, rocky, valley land through scattered cedar timber.

Desc. gradually.

15.10 Gulch, 50 ft. below sec. cor., drains N. thence N.E.

chains	
	Leave sandstone outcroppings, thence over sandy land.
	Continue gradual descent.
38.60	Wash, 20 ft. below gulch, 1 ft. deep and 60 lks. wide, drains N. thence N.W.
	Desc. gradually.
40.05	10 ft. below wash.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 9 and 16, with brass cap mkd.,
	$\frac{1}{4}$ S 9 / S 16 1916
	No suitable bearing trees available, therefore raise a mound of stone, with 2 ft. base and 1½ ft. high, north of the $\frac{1}{4}$ sec. cor.
43.10	Enter sandstone outcroppings, bears N. and S.
	Desc. gradually.
46.10	Leave sandstone outcroppings, bears N. and S.
50.10	Wash, 40 ft. below $\frac{1}{4}$ sec. cor., 2 ft. deep and 50 lks. wide, drains N. 40° E. Asc. gradually.
62.10	Low ridge, 40 ft. above wash, bears N. and S., Desc. gradually.
67.10	Wash, 30 ft. below ridge, 2 ft. deep and 30 lks. wide, drains north. Asc. gradually.
78.10	Low ridge, 30 ft. above wash, bears N. and S.
	Desc. gradually.
80.10	The cor. of secs. 8, 9, 16 and 17, level with top of ridge.
	Land, rolling valley.
	Soil, light, dry, sandy loam, mixed with numerous sandstone outcroppings. Rocky, sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, none.
	Fair grazing.

chains	
	N. 0° 03' W., on true line, bet. secs. 8 and 9.
	Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth.
	Desc. gradually.
40.00	60 ft. below sec. cor.,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 8 and 9, with brass cap mkd.,

¼

S 8 | S 9

1916

	No suitable bearing trees available, therefore dig pits 18 x 18 x 12 ins. north and south of the ¼ sec. cor. 3 ft. distant.
	Desc. gradually.
48.00	Wash, 10 ft. below ¼ sec. cor., 2 ft. deep and 15 lks. wide, drains N.W. Asc. gradually.
54.00	Sandstone spur, 20 ft. above wash, projects N.W.
	Desc. gradually.
80.00	50 ft. below spur.
	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for the cor. of secs. 4, 5, 8 and 9, with brass cap mkd.,

T 24 S R 18 E

S 5 | S 4

S 8 | S 9

1916

	Hieroglyphic rock, bears N. 25¾° W., about ¾ mile dist.
	No suitable bearing trees available, therefore dig pits 18 x 18 x 12 ins., in each sec. 5½ ft. distant from sec. cor. post.
	Land, rolling valley.
	Soil, light, dry, red, sandy loam, with sandstone outcroppings, on sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing.

chains	
	East, on random line, bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
68.65	Inaccessible ledges, therefore offset 9.80 chs. south and continue line east, on offset line.
80.13	Offset 1.06 chs. north to witness cor. which is 8.80 chs. S. 0° 02' E., of the true cor. point for secs. 3, 4, 9 and 10.
	Thence,
	From a point 1.00 ch. south of the witness cor. for the cor, of secs. 3, 4, 9 and 10, S. 89° 57' W., on offset line, bet. secs. 4 and 9.
11.48	Offset 9.80chs.N. 0°02'W. to true line, thence S. 89° 57' W., on true line, bet secs. 4 and 9. Over rolling valley land, through scattered chapparal undergrowth.
	Desc. over broken sandstone ledges.
16.10	Wash, 60 ft. below offset point, level with sec. witness cor., 10 ft. deep and 1.50 chs. wide, drains S. 80° W.
	Asc. gradually.
40.06½	20 ft. above wash.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 4 and 9, with brass cap mkd.,
	S 4 $\frac{1}{4}$ S 9 1916
	Dig pits, 18 x 18 x 12 ins., east and west of the $\frac{1}{4}$ sec. post, 3 ft. distant.
56.60	Wash, 40 ft. below $\frac{1}{4}$ sec. cor., 30 ft. deep and 2.00 chs. wide, drains S. 80° W.
64.60	Wash, level with wash, 30 ft. deep and 1.00 ch. wide, drains N.W. Small stream of clear water, 1 in. deep and 2 lks. wide in bottom of wash, course, N.W.
80.13	The cor. of secs. 4, 5, 8 and 9, 40 ft. above wash.
	Land, rolling valley, except ledges on west portion.
	Soil, light, dry, red, sandy loam in valley, on sandy sub-soil. Sandstone ledges on west portion.
	Timber, few cottonwoods along creek.

chains	
	Undergrowth, scattered chaparral.
	Fair grazing.

	N. 0° 03 ' W., on true line, bet. secs. 4 and 5.
	Over rolling valley land with sandstone outcroppings.
29.00	Wash, 30 ft. below sec. cor., 10 ft. deep and 1.50 chs. wide, drains W. Asc. gradually.
40.00	20 ft. above wash,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 4 and 5, with brass cap mkd.,
	$\frac{1}{4}$ S 5 | S 4 1916
	Hieroglyphic rock bears, N.53$\frac{3}{4}$° W., about $\frac{1}{2}$ mile distant from $\frac{1}{4}$ sec. cor.
	Dig. pits, 18 x 18 x 12 ins. north and south of the $\frac{1}{4}$ sec. post, 3 ft. distant.
66.00	Ten Mile Wash, 90 ft. below $\frac{1}{4}$ sec. cor., 70 ft. deep and 4.00 chs. wide, drains S. 30° W. Small stream of clear water, 1 in. deep and 10 lks. wide, in bottom of wash.
	Asc. gradually.
78.70	Intersect the north bdy. of the Tp. 79 lks., N. 89° 55' E. of the old cor. of secs. 32 and 33, heretofore described.
	At intersection, 80 ft. above wash.
	Set an iron post, 3 ft. long, 2 ins. dia., 26 ins, in the ground for the cor. of secs. 4 and 5, with brass cap mkd.,
	S 5 | S 4 T 24 S | R 18 E 1916
	Dig pits, 18 x 18 x 12 ins. in each sec. 5$\frac{1}{2}$ ft. dist. from the sec. cor. post.
	Land, rolling valley.
	Soil, light, dry, red, sandy loam with sandstone outcropp-

Subdivision of T. 24 S., R. 18 E.

chains

inge, on sandy sub-soil.

Timber, none.

Undergrowth, none.

Fair grazing.

From the old. ¼ cor. on the south bdy. of sec. 33, T. 23 S., R. 18 E., measure N. 89° 50' E., a distance of 76 lks. to a point which is midway bet. the cor. of secs. 3 and 4 and the cor. of secs. 4 and 5.

At this point,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground for the ¼ cor. on north bdy. of sec. 4 , with brass cap mkd.,

¼ S 4

1916

Dig pits, 18 x 18 x 12 ins. east and west of the ¼ sec. post, 3 ft. distant.

From the witness cor. of the cor. of secs. 31, 32, 5 and 6, which is 1.71 chs. west of the true cor. point, on S.bdy.of Tp.

N. 0° 03' W., on offset line, bet. secs. 31 and 32.

Over broken ledges, sandstone, through scattered cedar timber.

Impossible to chain north from witness cor. therefore proceed to determine distance to top of ledges as follows; Set a flag at the witness cor. and another flag N. 0° 03' W. from the witness cor. at top of ledges. From the latter flag measure a base line, S. 89° 57' W., 8.36 chs. dist. From this point the flag at witness cor. bears, S. 21° 07' E. The distance is therefore,

S 89° 57' W
8.36
S. 21° 07' E.

tan. 68° 56' x base = 2.59606 x 8.36 = 21.70 chs.

21.70 North triangulation point. Measure 1.71 chs. East to true line, thence N. 0° 03' W., on true line.

chains	
23.00	Leave sandstone, enter sandy land, bears N.E and S.W.
40.00	Level with witness sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 31 and 32, with brass cap mkd.
	$\frac{1}{4}$ / S 31 | S 32 / 1916
	No suitable bearing trees available, therefore dig pits, 18 x 18 x 12 ins., north and south of the $\frac{1}{4}$ sec. post 3 ft. distant.
45.00	Foot of sandstone ledges, bears W. about 4.00 chs. thence S.E. Asc. abruptly over ledges.
51.40	Sandstone spur, 110 ft. above $\frac{1}{4}$ sec. cor., projects west. Desc. abruptly.
53.80	Gulch, 50 ft. below spur, drains East. Asc.over broken sandstone ledges.
68.10	Sandstone ridge, 60 ft. above gulch, bears N. 70° W. and S. 70° E. Desc. gradually.
73.00	Leave sandstone enter sandy soil, bears S. 40° E. and N. 80° W.
80.00	60 ft. below ridge.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 29, 30, 31 and 32, with brass cap mkd.,
	T 24 S R 18 E / S 30 | S 29 / S 31 | S 32 / 1916
	From which,
	A cedar, 10 ins. dia., bears, N. 78° E., 177 lks. dist., mkd. T 24 S R 18 E S 29 B T.
	A cedar, 10 ins. dia., bears, S. 30¾° E., 240. lks. dist. mkd. T 24 S R 18 E S.32 B T.
	A cedar, 10 ins. dia., bears, S. 16° W., 370 lks. dist., mkd. T 24 S R 18 E S 31 B T.

chains	
	A cedar, 8 ins. dia., bears, N. 4½° W., 87 lks. dist., mkd. T. 24 S R 18 E S 30 B T.
	Land, rolling valley on north portion. Rough sandstone ledges on south portion.
	Soil, light, dry, red sandy loam on north portion, sandstone ledges on south portion. Sub-soil, rocky, sandy loam.
	Timber, scattered cedar.
	Undergrowth, none.
	Fair grazing on north portion.

	East, on random line, bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
79.82	Fall 24 lks. north of the cor. of secs. 28, 29, 32 and 33.
	Thence,
	N. 89° 50' W., on true line, bet. secs. 29 and 32.
	Over rolling valley land through scattered cedar timber.
	Desc. gradually, over sandstone outcroppings.
26.80	Foot of sandstone ledges, 60 ft. below sec. cor., bears N. 70° W. and S. 70° E.
39.91	Level with base of ledges.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 29 and 32, with brass cap mkd.,
	S 29 ¼ S 32 1916
	From which,
	A cedar, 5 ins. dia., bears, S. 38° W., 122 lks. dist., mkd. ¼ S 32 B T.
	A cedar, 8 ins. dia., bears, N. 39¾° W., 110 lks. dist., mkd. ¼ S 29 B T.
57.80	Wash, level with ¼ sec. cor., 2 ft. deep and 15 lks. wide, drains S. 40° W. Asc. gradually.
77.80	Leave sandstone outcroppings.

chains

79.82 The cor. of secs. 29, 30, 31 and 32, 30 ft. above mesh.
Land, rolling valley.
Soil, light, dry, red, sandy loam, with numerous sandstone outcroppings, on rocky, sandy sub-soil.
Timber, scattered cedar.
Undergrowth, none.
Fair grazing.

West, on random line, bet. secs. 30 and 31.

40.00 Set temp. ¼ sec. cor.

60.50 Intersect the west bdy. of the Tp. 14 lks. south of the cor. of secs. 30, 31, 35 and 36, which is an iron post, 3 ins. dia. firmly set, extending 18 ins. above ground, mkd. and witnessed as described by the surveyor-general.

Thence,

S. 89° 54' E., on true line, bet. secs. 31 and 30.
Over rolling valley land through scattered cedar timber.
Asc. gradually.

33.50 Low ridge, 30 ft. above sec. cor., bears, north and south.
Desc. gradually.

40.50 10 ft. below ridge.
Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 30 and 31, with brass cap mkd.,

¼ S 30 / S 31 1916

No suitable bearing trees available and pits impracticable on account of shifting sand.
Desc. gradually.

80.50 The cor. of secs. 29, 30, 31 and 32, 30 ft. below ¼ sec. cor.
Land, rolling valley.
Soil, light, dry, red, sandy loam, on sandy sub-soil.
Timber, scattered cedar.
Undergrowth, none.
Fair grazing.

chains	
	N.0° 03' W., on true line, bet. secs. 29 and 30.
	Over rolling valley land through scattered cedar timber.
12.60	Enter sandstone outcroppings, bear E. and N.W.
	Asc. gradually.
20.00	Low sandstone spur, 50 ft. above sec. cor., bears E. and W. Desc. gradually.
40.00	20 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone, with 3½ ft. base, for the ¼ cor. of secs. 29 and 30, with brass cap mkd.,
	¼
	S 30 | S 29
	1916
	From which,
	A cedar, 8 ins. dia., bears, S. 66° E., 106 lks. dist., mkd. ¼ S 29 B T.
	A cedar, 8 ins. dia., bears, S. 70° W., 187 lks. dist., mkd. ¼ S 30 B T.
57.00	Leave sandstone outcroppings, bear E. and W. Enter sandy soil. Desc. gradually.
80.00	50 ft. below ¼ sec. cor.,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 19, 20, 29 and 30, with brass cap mkd.,
	T 24 S R 18 E
	S 19 | S 20
	S 30 | S 29
	1916
	From which,
	A cedar, 8 ins. dia. bears, N. 53¼° E., 253 lks. dist., mkd. T 24 S R 18 E S 20 B T.
	A cedar, 5 ins. dia., bears, S. 11¾° E., 233 lks. dist., mkd. T 24 S R 18 E S 29 B T.
	A cedar, 8 ins. dia., bears, S. 54¾° W., 205 lks. dist., mkd. T 24 S R 18 E S 30 B T.

chains

A cedar, 6 ins. dia., bears, N. 73½° W., 96 lks. dist. mkd. T 24 S R 18 E. S 19 B T.

Land, rolling valley.

Soil, light, dry, sandy loam with sandstone outcroppings, on rocky, sandy sub-soil.

Timber, scattered cedar.

Undergrowth, none.

Fair grazing.

S. 89° 50' E., on random line, bet. secs. 20 and 29.

40.00 Set temp. ¼ sec. cor.

79.62 Fall 6 lks. north of the cor. of secs. 20, 21, 28 and 29.

Thence,

N. 89° 47' W., on true line, bet. secs. 20 and 29.

Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth.

Desc. gradually.

1.00 Shallow wash, 10 ft. below sec. cor., 2 ft. deep and 10 lks. wide, drains north.

23.80 Wash, 20 ft. below wash, 10 ft. deep and 50 lks. wide, drains north.

34.00 Gulch, 30 ft. below wash, drains north.

Asc. gradually.

39.81 20 ft. above gulch.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ sec. cor. of secs. 20 and 29, with brass cap mkd.,

$$\frac{1}{4}\ \frac{S\ 20}{S\ 29}$$

1916

From which,

A cedar, 10 ins. dia., bears, N. 63° W., 544 lks. dist., mkd. ¼ S 20 B T.

A cedar, 8 ins. dia., bears, S. 65° E., 380 lks. dist., mkd. ¼ S 29 B T.

chains	
	Continue gradual ascent.
48.20	Wash, 20 ft. above ¼ sec. cor., 10 ft. deep and 20 lks. wide, drains N. 30° E.
62.00	Spur, 30 ft. above wash, projects N. 30° E.
	Desc. gradually.
79.62	The cor. of secs. 19, 20, 29 and 30, 30 ft. below spur.
	Land, rolling valley.
	Soil, light, dry, red, sandy loam with sandstone outcroppings, on rocky, sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing.
	N. 89° 54' W., on random line, bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
80.35	Intersect the west bdy. of the Tp. 14 lks. south of the old. cor. of secs. 19, 24, 25 and 30, which is an iron post, 3 ins. dia., firmly set, 12 ins. above ground, mkd. and witnessed as described by the surveyor-general.
	Thence,
	S. 89° 48' E., on true line, bet. secs. 19 and 30.
	Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth.
23.30	Leave chaparral undergrowth, enter sandstone outcroppings, bears N. 60° E. and S. 60° W.
40.35	Level with sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone, with 3½ ft. base, for the ¼ cor. of secs. 19 and 30, with brass cap mkd.,
	S 19 ¼ S 30 1916
	From which,
	A cedar, 12 ins. dia., bears, S. 21° E., 69 lks. dist. mkd. ¼ S 30 B T.

chains	
	A cedar, 6 ins. dia., bears, N. 48° W., 62 lks. dist. mkd. $\frac{1}{4}$ S 19 B T.
80.35	The cor. of secs. 19, 20, 29 and 30, level with $\frac{1}{4}$ sec. cor.
	Land, rolling valley.
	Soil, light, dry, red, sandy loam, with numerous outcroppings of sandstone, on rocky, sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral, on west portion.
	Fair grazing.

	N. 0° 03' W., on true line, bet. secs. 19 and 20.
	Over nearly level valley land through scattered cedar timber.
35.00	Enter sandstone outcroppings, bears E. and W.
40.00	Level with sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone with 3½ ft. base for the $\frac{1}{4}$ cor. of secs. 19 and 20, with brass cap mkd.,
	$\frac{1}{4}$ S 19 | S 20 1916
	From which,
	A cedar, 10 ins. dia., bears, S. 83½ E., 175 lks., dist., mkd. $\frac{1}{4}$ S 20 B T.
	A cedar, 8 ins. dia., bears, N. 80½° W., 63 lks. dist., mkd., $\frac{1}{4}$ S 19 B T.
42.50	Leave sandstone outcroppings, bears E. and W., enter sandy land.
74.00	Wash, 4 ft. deep and 25 lks. wide, level with $\frac{1}{4}$ sec. cor. drains, N. 50° W.
80.00	Level with wash.
	Set an iron post, 3 ft. long, 2 in. dia., 24 ins. in the ground for the cor. of secs. 17, 18, 19 and 20, with brass cap mkd.,

chains

T 24 S R 18 E

S 18	S 17
S 19	S 20

1916

From which,

A cedar, 8 ins. dia., bears, N. 53½ E., 37 lks. dist., mkd. T 24 S R 18 E S 17 B T,

A cedar, 10 ins. dia., bears, S. 74° E., 20 lks. dist., mkd. T 24 S R 18 E S 20 B T.

A cedar 10 ins. dia., bears, N. 55½° W., 423 lks. dist., mkd. T 24 S R 18 E S 18 B T.

No suitable bearing tree in sec. 19. Pits impracticable on account of shifting sand.

Land, rolling valley.

Soil, light, dry, red sandy loam, with numerous sandstone outcroppings. On rocky, sandy sub-soil.

Timber, scattered cedar.

Undergrowth, none.

Fair grazing.

S. 89° 47' E., on random line, bet. secs. 17 and 20.

40.00 Set temp. ¼ sec. cor.

79.88 Eall 28 lks. south of the cor. of secs. 16, 17, 20 and 21.

Thence,

N. 89° 59' W., on true line, bet. secs. 17 and 20.

Over rolling valley land, through scattered cedar timber.

4.40 Leave sandstone outcroppings, bears N. 60° W., and S. 60° E.

18.70 Wash, 4 ft. deep and 40 lks. wide, level with sec. cor., drains N. 20° E.

28.90 Enter sandstone outcroppings, bears N. 60° W., and S. 60° E., enter sandy land.

34.90 Leave sandstone outcroppings, bears N. 60° E., and S. 60° W. Thence over sandy land.

39.94 10 ft. below sec. cor.

chains	
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 17 and 20, with brass cap mkd.,
	S 17 ¼ —— S 20 1916
	No suitable bearing trees available therefore dig pits, 18 x 18 x 12 ins., east and west of the ¼ sec. post, 3 ft. distant.
69.90	Enter sandstone outcroppings, bears N. 60° W. and S. 60° E.
79.10	Leave sandstone outcroppings. bears same.
79.88	The cor. of secs. 17, 18, 19 and 20, 20 ft. below ¼ sec. cor.
	Land, rolling valley.
	Soil, light, dry, red, sandy loam, with numerous sandstone outcroppings, on rocky, sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, none.
	Fair grazing.

	N. 89° 48' W., on random line, bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
80.24	Intersect the west bdy. of the Tp., 6 lks. south of the cor. of secs. 18, 19, 13 and 24, which is an iron post, 3 ins. dia., 12 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor-general.
	Thence,
	S. 89° 45' E., on true line, bet. secs. 18 and 19.
	Over rolling valley land through scattered cedar timber.
	Desc. gradually, over broken sandstone.
3.20	Asc. gradually, bearing NW. and SE.
26.70	Sandstone spur, 60 ft. above sec. cor., projects N. 30° W. Desc. gradually.
35.70	Leave broken sandstone, bears N. 70° E. and S. 70° W. Desc. gradually.

chains	
40.24	20 ft. below spur. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 18 and 19, with brass cap mkd., S 18 $\frac{1}{4}$ S 19 1916 No suitable bearing trees available, therefore, dig pits, 18 x 18 x 12 ins., east and west of the $\frac{1}{4}$ sec. post, 3 ft. distant.
76.70	Wash, level with $\frac{1}{4}$ sec. cor., 3 ft. deep and 30 lks. wide, drains N. 30° W.
80.24	The cor. of secs. 17, 18, 19 and 20, level with wash. Land, rolling valley. Soil, light, dry, red, sandy loam, with numerous sandstone outcroppings on the west portion. On rocky, sandy, subsoil. Timber, scattered cedar. Undergrowth, none. Fair grazing.

	N. 0° 03' W., on true line, bet. secs. 17 and 18. Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth. Desc. gradually over sandstone outcroppings.
39.00	Wash, 40 ft. below sec. cor., 4 ft. deep and 20 lks. wide, drains west. Asc. gradually.
40.00	10 ft. above wash. Set an iron post, 3 ft. long, 1 in. dia., on (x) mark on sandstone, 26 ins. in a mound of stone with 5 ft. base, for the $\frac{1}{4}$ cor. of secs. 17 and 18, with brass cap mkd., $\frac{1}{4}$ S 18 | S 17 1916

chains.

From which,

A cedar, 8 ins. dia., bears, S. 10° E., 122 lks. dist., mkd. $\frac{1}{4}$ S 17 B T.

A cedar, 9 ins. dia., bears, S. 30$\frac{1}{4}$° W., 137 lks. dist., mkd. $\frac{1}{4}$ S 18 B T.

Asc. gradually.

43.50 Spur, 30 ft. above $\frac{1}{4}$ sec. cor., projects N. 70° W.

Desc. gradually.

78.30 Wash, 10 ft. below spur, 3 ft. deep and 15 lks. wide, drains N. 60° W. Asc. gradually.

80.00 On sandstone spur, 20 ft. above wash, projects west. Set an iron post, 3 ft. long, 2 ins. dia., on (x) mark on sandstone, 24 ins. in a mound of stone, for cor. of secs. 7, 8, 17, and 18, with brass cap mkd.

T 24 S R 18 E

S 7	S 8
S 18	S 17

1916

From which,

A cedar, 7 ins. dia., bears, N. 1° E., 30 lks. dist., mkd. T 24 S R 18 E S 8 B T.

A cedar, 9 ins. dia., bears, S. 5° E., 257 lks. dist., mkd. T 24 S R 18 E S 17 B T.

A cedar, 8 ins. dia., bears, S. 42$\frac{1}{2}$° W., 215, lks. dist., mkd. T 24 S R 18 E S 18 B T.

A cedar, 10 ins. dia., bears, N. 17° W., 200 lks. d dist., mkd. T 24 S R 18 E S 7 B T.

Land, rolling valley.

Soil, light, dry, red, sandy loam, with numerous sandstone outcroppings, on rocky sandy sun-soil.

Timber, scattered cedar.

Undergrowth, scattered chaparral.

Fair grazing.

S. 89° 59' E., on random line, betl secs. 8 and 17.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.91 Fall 19 lks. N. of the cor. of secs. 8,9,16 and 17.

chains	
	Thence,
	N. 89° 51' W., on true line, bet. secs. 8 and 17.
	Over rolling valley land through scattered cedar timber and scattered chaparral undergrowth. Desc. gradually over sandstone outcroppings.
11.90	Gulch, 20 ft. below sec. cor., drains north.
	Asc. gradually.
39.95½	50 ft. above gulch.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 8 and 17, with brass cap mkd.,
	¼ S 8 / S 17 1916
	From which,
	A cedar, 12 ins. dia., bears, S. 80½° E., 105 lks. dist., mkd. ¼ S 17 B T.
	A cedar, 10 ins. dia., bears, N. 75° E., 101 lks., dist., mkd. ¼ S 8 B T.
42.90	Spur, 20 ft. above ¼ sec. cor., projects N.
	Desc. gradually.
55.90	Wash, 40 ft. below spur, 3 ft. deep and 20 lks. wide, drains north. Asc. gradually.
79.91	The cor. of secs. 7, 8, 17 and 18, 30 ft. above wash,
	Land, rolling valley.
	Soil, light, dry, red, sandy loam, with numerous sandstone outcroppings, on rocky, sandy subsoil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing.

	N. 89° 45' W., on random line, bet. secs. 7 and 18.
29.22	East rim of box canyon, impracticable to chain across, therefore proceed to determine the distance as follows: Set a flag, on line, on the west rim of canyon, then from the 29.22 chains point, measure a

chains	
	base line, S. 0° 15' W., a distance of 2.40 chs. From this point the flag on the west rim of canyon bears, N. 76° 40' W., the distance is therefore,
	tan. 76° 55' x base 4.30291 x 2.40 10.33 chs.
39.55	West triangulation point.
40.00	Set temp. ¼ sec. cor.
80.35	Intersect the west bdy. of the Tp. 5 lks. north of the cor. of secs. 7, 18, 12 and 13, which is an iron post, 3 ins. dia., 12 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor-general.
	Thence,
	S. 89° 47' E., on true line, bet. secs. 7 and 18.
	Over broken valley land through scattered cedar timber and scattered chapparal undergrowth.
	Asc. gradually.
1.50	Top of bluff, 80 ft. high, bears, N. and S.
	Asc. over broken sandstone ledges.
8.00	Spur, 80 ft. above bluff, projects N. 40° W.,
	Desc. more gradually.
12.20	Gulch, 50 ft. below spur, drains N. 60° W. Asc. gradually
17.50	Spur, 60 ft. above gulch, projects N. 35° W.
	Desc. gradually.
19.00	Gulch, 20 ft. below spur, drains N. 70° W.
	Asc. gradually.
32.00	Sandstone ledge, 60 ft. above gulch, bears N.W. and S.E.
40.35	20 ft. above ledge.
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground, to solid rock, and 20 ins. in a mound of stone, with 3½ ft. base, for the ¼ cor. of secs. 7 and 18, with brass cap mkd.,
	S 7 / ¼ / S 18
	1916
	No suitable bearing trees available, therefore raise a mound of stone, with 2 ft. base and 1½ ft. high, north of the ¼ sec. cor.
40.80	West triangulation point and west rim of box canyon,

chains	
	level with ¼ sec. cor., canyon 100 ft. deep, course N.W. Thence over sandstone ledges impossible to ch chain over.
51.13	East triangulation point and East rim of box canyon, 100 ft. above canyon, bears N.W. and S.E.
	Thence over nearly level valley land.
78.40	Wash, 40 ft. below rim of canyon, 3 ft. deep and 20 lks. wide, drains N.E.
80.35	The cor. of secs. 7, 8, 17 and 18, 20 ft. above wash.
	Land, broken valley, and rolling valley.
	Soil, light, dry, red, sandy loam, with sandstone outcroppings on rocky, sandy sub-soil.
	Timber, scattered cedar.
	Undergrowth, scattered chaparral.
	Fair grazing.

	N. 0° 03' W., on true line, bet. secs. 7 and 8.
	Over broken valley land through scattered cedar timber and scattered chaparral undergrowth.
	Desc. over broken sandstone ledge.
2.50	Wash, 30 ft. below sec. cor., 2 ft. deep and 15 lks wide, drains N. 40° E. Desc. gradually.
13.00	Same wash, 60 ft. below sec. cor., drains N. 60° W. Asc. gradually.
17.00	Sandstone spur, 50 ft. above wash, projects west. Desc. gradually.
40.00	110 ft. below spur;
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone, with 3½ ft. base, for the ¼ cor. of secs. 7 and 8, with brass cap mkd.;
	¼ S 7 | S 8
	1916
	No suitable bearing trees available, therefore raise a mound of stone, base 2 ft. and 1½ ft. high, west of

chains	
	the $\frac{1}{4}$ sec. cor.
	Desc. gradually.
42.90	Leave sandstone, bears N. 70° W. and S. 70° E. Enter sandy land, sagebrush and greasewood undergrowth, bear same.
59.00	South bank of Ten Mile Wash, 50 ft. below $\frac{1}{4}$ sec. cor., 15 ft. deep and 20 chs. wide, bears W. to N. 75° E.
60.00	Small stream of clear water, 15 ft. below bank, 4 ins. deep and 15 lks. wide, course S.W.
73.20	Small stream of clear water, level with water, 3 ins. deep and 20 lks. wide, course N. 70° E.
78.70	North bank of Ten Mile Wash, 20 ft. above creek, bears S. 75° W. and N. 75° E, 3.00 chs. dist., thence N.E.
	Asc. gradually.
80.00	30 ft. above creek.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 5, 6, 7, and 8, with brass cap mkd.,

T 24 S R 18 E

S 6	S 5
S 7	S 8

1916

From which,

A cottonwood, 28 ins. dia., bears, S. 77½° W., 165 lks. dist., mkd. T 24 S R 18 E S 7 B T.

A cottonwood, 18 ins. dia., bears, N. 54° W., 197 lks. dist., mkd. T 24 S R 18 E S 6 B T.

No suitable bearing trees available in secs. 5 or 8, therefore dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist., from the sec. cor.

Land, broken valley.

Soil, light, dry, red, sandy loam, with numerous sandstone outcroppings on the south portion. On rocky, sandy subsoil.

Timber, scattered cedar. Some cottonwood along creek.

chains	
	Undergrowth, scattered chaparral. Sagebrush and grease-wood on the north portion.
	Fair grazing.

	S. 89° 51' E., on random line, bet. secs. 5 and 8.
40.00	Set tmmp. ¼ sec. cor.
79.91	Fall 12 lks. south of the cor. of secs. 4, 5, 8 and 9.
	Thence,
	N. 89° 56' W., on true line, bet. secs. 5 and 8.
	Over rolling valley land through few scattered cotton-woods and sagebrush and scattered chaparral under-growth.
39.95½	Level with sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 5 and 8, with brass cap mkd.,
	S 5 ¼ S 8 1916
	No suitable bearing trees available, therefore dig pits, 18 x 18 x 12 ins., east and west of the ¼ sec. post, 3 ft. distant.
	Desc. gradually.
44.90	Wash, 20 ft. below ¼ sec. cor., 3 ft. deep and 20 lks. wide, drains N. Asc. gradually.
59.90	Spur, 40 ft. above wash, projects N.W.
	Desc. gradually.
77.40	Ten Mile Wash, creek, 100 ft. below spur, clear water, 5 ins. deep and 15 lks. wide, course S.W.
	Asc. gradually.
79.91	The cor. of secs. 5, 6, 7 and 8, 40 ft. above wash.
	Land, rolling valley.
	Soil, light, dry, red, sandy loam, with sandstone outº croppings, on rocky, sandy sub-soil.
	Timber, few scattered cottonwoods.
	Undergrowth, sage brush and scattered chaparral.

chains	
	N. 89° 47' W., on random line, bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
80.15	Intersect the west bdy. of the Tp. 4 lks. north of the cor. of secs. 1, 6, 7 and 12, which is an iron post, 3 ins. dia., 12 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor general.
	Thence,
	S. 89° 49' E. on true line, bet. secs. 6 and 7.
	Over rolling valley land through sagebrush and scattered chaparral undergrowth.
9.60	Wash, level with sec. cor., 2 ft. deep and 10 lks. wide, drains N. 65° E.
	Enter sandstone outcroppings, bears N. and S. Asc. gradually.
40.15	40 ft. above wash.
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock, 20 ins. in a mound of stone, with 3½ ft. base, for the ¼ cor. of secs. 6 and 7, with brass cap mkd.,
	S 6 ½ S 7 1916
	From which,
	A cedar, 6 ins. dia., bears, S. 7° W., 195 lks. dist., mkd. ¼ S 7 B.T.
	A cedar, 7 ins. dia., bears, N. 27° W., 138 lks. dist., mkd. ¼ S 6 B T.
75.30	Top of sandstone ledge, 70 ft. below ¼ sec. cor., bears N. and S. Desc. over ledge.
80.15	The cor. of secs. 5, 6, 7 and 8, 80 ft. below top of ledge.
	Land, rolling valley.
	Soil, light, dry, red, sandy loam, with numerous sandstone outcroppings. On rocky, sandy sub-soil.
	Timber, none.
	Undergrowth, sagebrush and scattered chaparral.
	Fair grazing.

chains	
	N.0° 03' W., on true line, bet. secs. 5 and 6.
	Over rolling valley land through scattered cottonwood timber and dense sagebrush, greasewood and scattered chaparral undergrowth.
18.80	Wash, level with sec. cor., 5 ft. deep and 4.50 chs. wide, drains S.E.
	Leave cottonwood timber. Asc. gradually.
36.20	Wash, 20 ft. below wash, 3 ft. deep and 80 lks. wide, drains S, 70° E.
40.00	Level with wash.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 5 and 6, with brass cap mkd.,
	¼ S 6 | S 5 1916
	Raise a mound of stone, with 2 ft. base and 1½ ft. high, west of the ¼ sec. cor.
44.00	Old wagon road, level with ¼ sec. cor., bears, N.80° W. and S. 80° E.
74.00	Wash, 10 ft. below ¼ sec. cor., 1 ft. deep and 20 lks. wide, drains S. 50° W.
78.46	Intersect the N. bdy. of the Tp. 99 lks. N. 89° 55' E., of the restored cor. of secs. 31 and 32, T. 23 S., R. 18 E., heretofore described.
	At intersection, level with wash.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 5 and 6, with brass cap mkd.,
	S 6 | S 5 T 24 S R 18 E. 1916
	Dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist., from the sec. cor.
	Land, rolling valley.
	Soil, light, rdy, red, sandy loam with sandstone out-

chains

croppings. Sub-soil, rocky, sandy loam.
Timber, scattered cottonwood on south portion.
Undergrowth, greasewood, dense sagebrush and scattered chaparral.

From the restored ¼ cor. on the south bdy. of sec. 32, T. 23 S., R. 18 E., heretofore described, measure, N. 89° 55' E., a distance of 90 lks. to a point which is midway bet. the cor. of secs. 4 and 5 and the cor. of secs. 5 and 6, at this point,

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for the ⅛ cor. on north bdy. of sec. 5, with brass cap mkd.,

¼ S 5

1916

Raise a mound of stone, with 2 ft. base and 1½ ft. high, south of the ¼ sec. cor.

From the old ¼ cor. on the south bdy. of sec. 31, T. 23 S., R. 18 E., heretofore described, measure, N. 89° 55' E., a distance of 1.10 chs., to a point which is 40.00 chs. S. 89° 55' W., of the cor. of secs. 5 and 6, at which point,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. on the N. bdy. of sec. 6, with brass cap mkd.,

¼ S 6

1916

Dig pits, 18 x 18 x 12 ins., east and west of the ¼ sec. post, 3 ft. distant.

Latitudes, Departures and Closing errors.

Line	Designated	Course	Distance. Chs.	Latitudes N. Chs.	Latitudes S. Chs.	Departures E. Chs.	Departures W. Chs.
East	Boundary	North	479.30	479.30	.....	.....	.....
North	Boundary	West	80.00				80.00
		S.89°57' W.	40.07	.....	00.03	.....	40.07
		S.89°57' W.	40.11	.....	00.03	.....	40.11
		S.89°57' W.	40.12	.....	00.03	.....	40.12
		S.89°50' W.	40.10	.....	00.12	.....	40.10
		S.89°50' W.	40.10	.....	00.12	.....	40.10
		S.89°55' W.	40.11	.....	00.06	.....	40.11
		S.89°55' W.	40.11	.....	00.06	.....	40.11
		S.89°55' W.	40.11	.....	00.06	.....	40.11
		S.89°55' W.	40.11	.....	00.06	.....	40.11
		S.89°57' W.	38.96	.....	00.02	.....	38.96
West	Boundary	South	478.10	.....	478.10	.....	.....
South	Boundary	East	480.57	.....		480.57	.....
Convergency							.58
	Totals		.....	479.30	478.69	480.57	480.48
				478.69		480.48	
	Error in Lat.		.....	.61.			
	Error in Dep.		.....				.09

General Description of T. 24 S., R. 18 E.

The land embraced in this township varies from nearly level valley bottom to rough and broken mountainous sandstone ledges, and rolling mesa.

The highest part of the mesa occurs in section 13 and 24, being the divide between Green and Grand rivers. The mesa breaks off abruptly to the west, forming sheer sandstone ledges. It breaks more gradually to the south.

An inaccessible sandstone butte, about a mile long and one-fourth mile wide, occurs in the center of the township. This butte is the remains of the original mesa that covered this country.

Spring Canyon is in the southwest part of the township

and is a deep, narrow, box canyon with vertical walls. Ten Mile Wash cuts through the northwest corner of the township. The major portion of the township is rolling and broken valley, much eroded, with general drainage into Ten Mile Wash.

A few areas support enough soil for farming by using stored water, but the major portion is unfit for agriculture, being mostly, sandstone outcrops and ledges and drifting sandy loam.

A scattered growth of scrub cedar covers most of the township, scattered cottonwood timber occurs along Ten Mile Wash. Sagebrush, greasewood and scattered chaparral undergrowth constitute the undergrowth of the township.

A stream of slightly alkaline water flows in Ten Mile Wash and probably runs the entire year. A small stream of clear water flows in Spring Canyon, but is almost inaccessible on account of the vertical walls of the canyon. Several tanks, or water holes in the solid sandstone occur in the township, one in section 15, probably holding water all summer.

Manganese float was found in section 24, and some prospecting is being done in this locality. A wagon road to manganese prospects, traversing sections, 12, 13 and 24, are the only improvements found in the township.

No settlers in the township.

An ancient hieroglyphic rock was found in section 5.

Thos. C. Cathcart
Surveyor

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, _____, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of _____

_____

_____

_____

_____

_____

_____

_____

of the _____ Meridian, in the State of _____ which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

_____

U. S. Surveyor.

CERTIFICATE TRANSITMAN.

~~FINAL OATH~~ OF UNITED STATES ~~SURVEYOR~~.

I, Howard G. Mason, U. S. ~~Surveyor~~ Transitman, ~~do solemnly swear~~ certify on honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the eighteenth day of January, 1916, 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~~ retraced and resurveyed all those parts or portions of the south boundary of T. 23 S., R. 18 E.; and surveyed the east and south boundaries and subdivision of T. 24 S., R. 18 E.

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 I do further ~~solemnly swear~~ certify on honor 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 U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

and index diagram on page 1 of same--and on dates shown on said diagr

Howard G. Mason

~~U. S. Surveyor.~~

U. S. Transitman

~~Subscribed by said~~ ~~and sworn to before me~~ this ~~day of~~ ~~191~~

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 191

The foregoing field notes of the survey of

executed by

under his special instructions dated , 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

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. Surveyor General.

6—2761

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of ....

of the .... Meridian, in the State of .... which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

....
U. S. Surveyor.

6—2764

CERTIFICATE
~~FINAL OATH~~ OF UNITED STATES SURVEYOR.

I, Thos. C. Rathbone, U. S. Surveyor, ~~do solemnly swear~~ certify on honor that, in pursuan of special instructions received from the U. S. Surveyor General for Utah bearing date of the eighteenth day of January, 1916 I have well, faithfully, and trul in my own proper person, and in strict conformity with said instructions, the Manual of Surveyi Instructions, and the laws of the United States, ~~surveyed~~ retraced and resurveyed all those parts or portions of the south boundary of T. 23 S., R. 18 E., and surveyed the east and south boundaries and subdivision of T. 24 S., R. 18 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented and index diagram on page 1 of same--and on the dates shown on said the foregoing field notes as having been executed by me, and under my direction; and I do furth ~~solemnly swear~~ certify on honor that all the corners of said survey have been established and perpetuated in strict accor ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Survey General for Utah and in the specific manner described in the field notes, and th the foregoing are the original field notes of such survey.

Thos. C. Rathbone
U. S. Surveyor.

~~Subscribed by said~~ _____, and ~~sworn to before me this~~ _____ ~~day of~~ _____, ~~191~~

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Salt Lake City, Utah, Sept. 28, 1917.

The foregoing field notes of the ~~survey of~~ retracement and resurvey of the west five miles of the south boundary of Township No. 23 South, Range No. 18 East; and the survey of the east and south boundaries and subdivision of Township No. 24 South, Range No. 18 East of the Salt Lake Base and Meridian, Utah,

executed by Thos. C. Rathbone and Howard G. Mason under ~~his~~ special instructions dated January 18, 1916, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements, resurveys, and surveys they describe, are hereby approved.

C. C. Thoresen
U. S. Surveyor General.

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.

6—2761

U. S. Surveyor General.

Blank

Page

Blank

Page

DR. 428

4—679

B

APR 20 1917
SALT LAKE CITY, UTAH.

FIELD NOTES

RESURVEY A PORTION OF
OF THE ~~SURVEY~~ OF THE

NORTH BOUNDARY,

AND

OF THE SURVEY OF THE

SOUTH AND EAST BOUNDARIES AND SUBDIVISIONS

OF

T. 24 S., R. 19 E.

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

Thos. C. Rathbone
and
Howard G. Mason

In the capacity of U. S. Surveyor and U. S. Transitman, under instructions dated January 18, *1916,* issued by the United States Surveyor General to govern surveys included in Group No. 44, *which were approved by the Commissioner of the General Land Office,* February 3, *1916,* and under Assignment Instructions dated November 6, 1916, issued by the Assistant Supervisor of Surveys

Survey commenced November 26, *1916.*

Survey completed December 8, *1916.*

6—151

Examinations Specified

A Plat C.P.C. Notes K.F.B. C.P.C.

B Computations C.P.C.

Comparing

C Plat K.I.F. Notes K.F.B.

INDEX DIAGRAM.

Township 24 South, *Range* 19 East.

21	20	19	18			
6 / 80	81 5 / 79	65 4 / 64	53 3 / 53	43 2 / 42	33 1 / 32	16
7 / 77	78 8 / 76	63 9 / 63	52 10 / 51	41 11 / 40	31 12 / 30	15
18 / 74	75 17 / 73	61 16 / 61	50 15 / 49	39 14 / 38	30 13 / 29	14
19 / 71	72 20 / 70	59 21 / 58	47 22 / 46	37 23 / 36	28 24 / 26	13
30 68 / 68	69 29 / 67	57 28 / 55	45 27 / 44	35 26 / 34	25 25 / 24	12
31 / 10	66 32 / 10	54 33 / 8	43 34 / 7	33 35 / 7	22 36 / 5	11

Names and Positions of Assistants

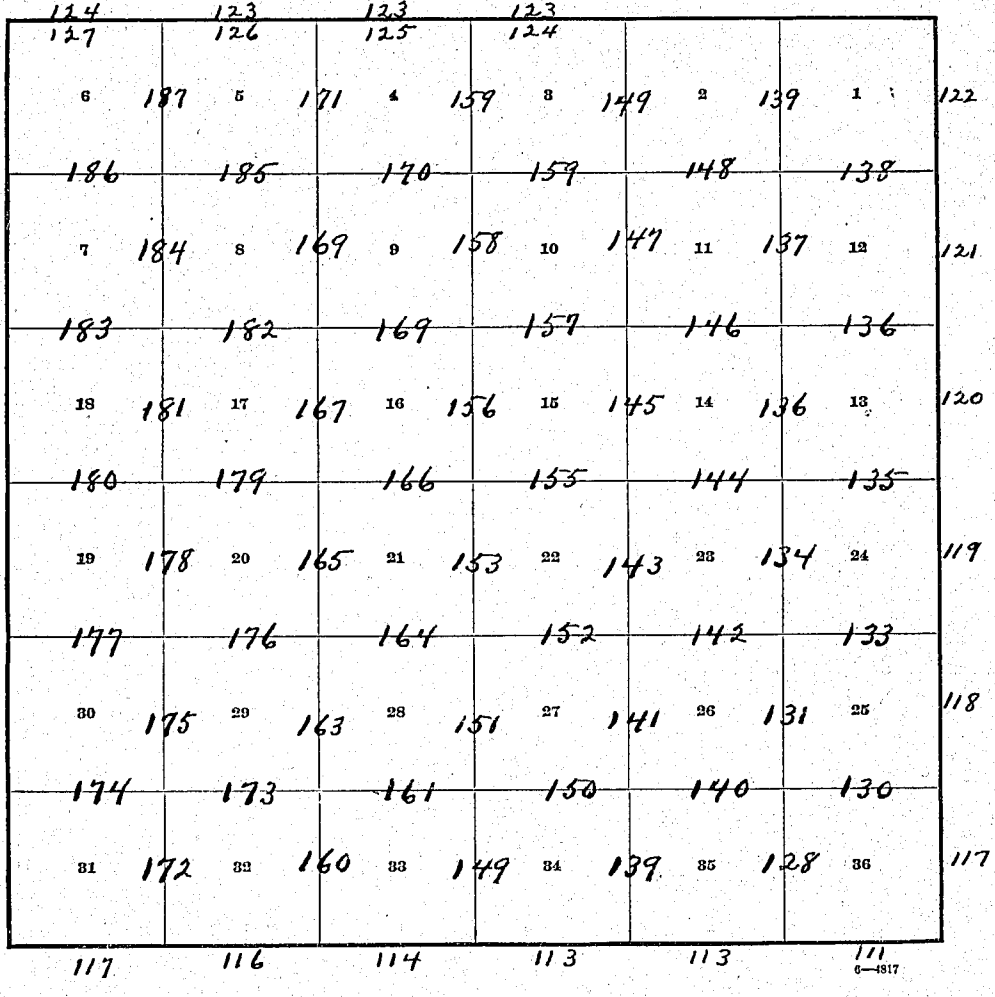
6—181

Barnum B. Packard	1st. Asst.
Ulrey Dorman	1st. Asst.
Lynn Phelps	2nd. Asst.
Eugene Stowell	2nd. Asst.
La Mar Johnson	Flagman.
Warren Clark	Flagman.
Byron F. Crookston	Cornerman.
Homer Johnson	Cornerman.
Richard Heldberg	Axeman.
Oral Hall	Axeman.

4—679 b

INDEX DIAGRAM.

Township 24 S., Range 19 E.



Date diagram, T.24 S., R.19 E.

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

Lines colored and dated in black ink were surveyed by Thomas C. Rathbone, U. S.Surveyor.

Lines colored and dated in red ink were surveyed by Howard G. Mason, U. S. Transitman.

Survey commenced November 26, 1916 and executed with Young and Sons light mountain transits Nos. 8494 and 8487, equiped with Smith's solar attachments and full vertical circles. The horizontal limbs are provided with two double verniers, placed opposite each other and reading to single minutes of arc which is also the least count ofthe verniers of the latitude and

declination arcs and full vertical circle.

The instruments were approved for use in this survey by the assistant supervisor of surveyes for Utah in assignment instructions dated November 6, 1916.

I examine the adjustments of the transits and correct the level and collimation errors, then, to test the solar apparatus, by comparing their indications resulting from solar observations made during a.m. and p.m. hours with a meridian established by observations made on Polaris, I proceed as follows: Nov. 25, At camp, located in sec. 10, near the $\frac{1}{4}$ cor between secs. 10 & 15, T. 24 S., R. 19 E., approximate latitude 38° 44' N., longitude 109° 50' W; I set off 38° 44'N on the latitude arc , 20° 47' S. on the declination arc, and at 4h p.m. app.t. determine a meridian with the solar and note the angle therefrom to the vertical south face of a cliff fifteen miles distant to be N. 58° 18' E. Beginning at 4h 19m p.m. and continuin g until 4h 23m p.m. I take four observations upon Polaris, in accordance with the Manual of Instructions, two with direct and two with reversed position of telescope. Average l.m.t. of observations 4h 21m p.m. average horizontal angle from star to cliff, 56° 54.7' Azimuth of Polaris at 4h 21m l.m.t., N1° 23'E., which added to 56° 54.7', gives bearing to cliff determined by Polaris observation to be, N. 58° 17.7' E.

Nov. 26, 8h 00m. a.m. app.t. set off 38° 44' N. on lat. arc, 20° 55' S. on the decl.n arc and determine a meridian with the solar and note the angle therefrom to cliff to be N. 58° 18' E.

Polaris and solar observations noted above were taken with transit No. 8487.

U. S. Surveyor

Survey of the South Boundary of T. 24 S., R. 19 E.

Test of transit No. 8494.

Nov. 25, 1916. On line between station of transit No. 8487 and vertical S. face of cliff, at 4h 00m p.m. app.t., set off 38° 44' N on the latitude arc, 20° 47' S. on the declination arc, and determine a meridian with the solar and note the angle therefrom to the cliff to be N. 58° 18' E.

Nov. 26, occupying same station, at 8h 00m a.m. app.t., set off 38° 44' N. on the latitude arc, 20° 55' S on the declination arc, and determine a meridian with the solar noting the bearing therefrom to cliff to be N 58° 18' E.

From the results of the above observations I conclude that both instruments are in satisfactory adjustment. Frequent noon latitude tests taken on line and morning and evening tests of the solars upon the meridian established at camp proved that both instruments remained in adjustment throughout the survey.

Five chain steel tapes and clinometers were used in measuring all distances. The tapes used were tested by comparison with a standard one-chain tape at the beginning and completion of the survey. The clinometers were tested by comparison of their measurement of vertical angles with measurements taken by the transits.

Local attraction was found to be so great in this vicinity that the magnetic declination was not recorded.

Nov. 26, at 12h 00m app. noon, set off 20° 58' S. on the declination arc and, on the meridian at camp, observe the sun with the solar. The resulting latitude 38° 44' N. which is consistent with the latitude determined in T. 24 S., R. 18 E. by direct solar observations.

Thos. C. Cathbone
U. S. Surveyor.

Nov. 27. Beginning at the corner of Ts. 24 and 25 S., Rs. 18 and 19 E., described in the notes

Chains

of T. 24 S., R. 18 E., east on a random along the south boundary of T. 24 S., R. 19 E. 56.78 chains and set a temporary point for the ¼ sec cor. of secs. 6 and 31, thence east setting temporary points at intervals of 40.00 chs.; and at 416.78 chs., the temporary ¼ cor. of secs. 1, 2, 35, and 36 set a flag for triangulation over impasssable cliff.

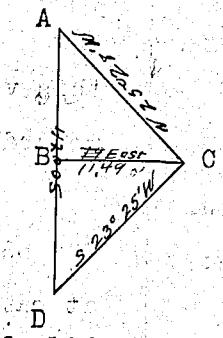
From the corner of townships 23 and 24 south, ranges 19 and 20 east, which is a sandstone, 9x7x5 ins above ground, firmly set, and marked and witnessed as described by the surveyor general.

Thence

South on a random line along the east boundary of T. 24 S., R. 19 E., and at 39.30 chs., set a temp. ¼ cor., thence continue south setting temp. sec. and ¼ sec. cors. at intervals of 40.00 chs.

At 365.80 chs., the top of an impassable cliff with no room for a base line, set a flag and project line to a point in the valley beyond the foot of cliff. From point in valley, lay off a base line east 11.49 chs From east end of base line flag on cliff bears N 25° 28' W.

Log. 11.49 ------- 1.060320
" Cot. 25° 28' -- 10.322154
" x ---------- 1.382474
x ----- -----24.13 chs.



The point in valley being at the foot of another impassable cliff I project my line to a point D, on top of cliff. From east end of base line, flag at D bears S. 23° 25' W.

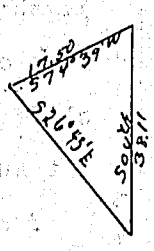
Log. 11.49------ 1.060320
" Cot. 23° 25' 10.363428
" y ---------- 1.423748
y - --- 26.53

365.80
24.13
26.53
416.46

Survey of the South Boundary of T. 24 S., R. 19 E.

From top of cliff continue south to edge of impassable canyon at 434.64 chs., thence, project line south to a point across the canyon, and lay off base line S 74° 39' W. 17.50 chs., whence point across canyon bears S. 26° 45' E.

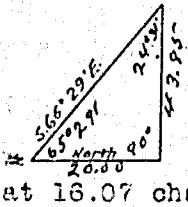
Log. 17.50 ---------- 1.243038
" sin. 78° 36'- -- 9.991346
Colog." 26° 45'----10.346692
Log x----- - -- 1.581076
x ----- ---- 38.11
434.64
472.75



Thence, south, and at 479.30 chs., set temp. tp. cor., thence west on a random, along south boundary of T. 24 S., R. 19 E., setting a temp. ¼ sec. cor. at 40.00 chs.; and, at 53.46 chs., the edge of an impassable cliff, set a flag and project line to a point in valley beyond foot of cliff. Natural obstacles prevent measuring a base along top of cliff so I proceed to the point in valley and measure base line 20.00 chs. north. Thence flag on top of cliff bears S. 65° 29' E.

Tan. 65° 29'-- 2.19961 x 20. 43.85

53.46
43.85
97.31



From line point in valley, east; and, at 16.07 chs. fall 84 lks. N. of temp. cor. of secs. 1, 6, 35 and 36.

From the temp cor. of townships 24 and 25 south, ranges 19 and 20 east, south; and, at 84 lks.;

Set an iron post, 3 ft. long, 1 in. in dia., in a mound of stone on bed-rock for cor. of Ts. 34 and 25 S., Rs. 19 and 20 E., with brass cap marked

T 24 S
R 19 E | R 20 E
S 36 | S 31
S 1 | S 6
T 25 S
1916

And raise a mound of stone, 2 ft. base, 1½ ft. high S. of cor. Extreme inaccessibility prevents transport-

chains

ation of 3 in. iron post to this point.

Thence west, bet. secs. 1 and 36, marking and blazing true line. Ascending gradually over nearly level mesa through scattering juniper timber and undergrowth of sagebrush.

37.00 Edge of mesa, bears N. and S. Descend over sandstone cliff 30 ft. high

40.00 Set an iron post, 3 ft. long, 1 in. in dia., in mound of stone on bed-rock, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 36
$\frac{1}{4}$
S 1
1916

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Cor. 130 ft. below edge of mesa.

53.46 Top of sandstone cliffs, bearing NE. and SW. descend. For triangulation over cliffs see preceding page.

65.00 Foot of cliffs, bearing NE and SW. , 500 ft. below top. Thence, over rolling valley land.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, with brass cap marked

T 24 S R 19 E
S 35 | S 36
S 2 | S 1
T 25 S
1916

from which

A juniper, 9 ins. in dia., bears N. 67° E. 91 lks., marked T 24 S R 19 E S 36 B T

A juniper, 24 Ins. in dia., bears S. 29° E 145 lks., marked T 25 S R 19 E S 1 B T

A juniper, 18 ins. in dia., bears S $57\frac{1}{2}$° W. 21 lks., marked T 25 S R 19 E S 2 B T

A juniper limb, 8 ins. in dia., bears N $19\frac{1}{2}$ W. 91 lks. marked T 24 S R 19 E S 35 B T

chains

Land rolling and mountainous.

Soil, light red sandy loam; barren sandstone.

Grass, scant.

Scattering juniper timber on mile. Undergrowth, sage.

West , bet. secs. 2 and 35.

Over rolling valley land, through scattering junipers and undergrowth of sage. Descend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S 35 / S 2 / 1916

Soil too sandy for pits and mound of earth to be permanent, no bearing trees within limits.

Cor. stands 70 ft. below sec. cor.

65.50 Wash, 40 ft. below ¼ cor., drains north. Ascend.

80.00 Set an iron post, 2 ins. in dia., 3 ft. long, 24 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, with brass cap marked

T 24 S R 19 E
S 34 | S 35
S 3 | S 2
T 25 S
1916

Soil too sandy for pits. No trees near cor.

Cor. stands 40 ft. above wash.

Land rolling.

Soil; light, dry, red sandy loam.

Grass, scant.

Undergrowth, sagebrush.

Few scattering junipers along mile.

West bet. secs. 3 and 34.

Over rolling valley land, through undergrowth of sagebrush and very scattering juniper and pinon pine timber.

6.00 Spur 10 ft. above cor., projects N. Descend.

35.00 Wash, 50 ft. below spur, draine N. Ascend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S 34 / S 3 / 1916

from which

A juniper, 10 ins. in dia., bears S. 20° W. 145 lks. marked ¼ S 3 B T

Also raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Cor stands 40 ft. above wash.

80.00 Set an iron post, 3 ft. long 2 ins in dia., 24 ins. in the ground, for cor. of secs. 3, 4, 33 and 34 with brass cap marked

T 24 S R 19 E
S 33 | S 34
S 4 | S 3
T 25 S
1916

from which

A juniper, 10 ins. in dia., bears S 55° E. 388.1lks. marked T 25 S R 19 E S 3 B T

A juniper, 10 ins. in dia., bears S 62¼° W 290 lks., marked T 25 S R 19 E S 4 B T

No other trees available, pits impracticable.

Cor. stands 50 ft. above ¼ cor.

Land, rolling valley.

Soil; light, dry, red sandy loam; considerable barren sandstone outcropping.

Scattering juniper and pinon pine timber.

Undergrowth, sagebrush.

Good grazing.

West bet. secs. 4 and 33.

Over rolling valley land, through scattering juniper and pinon pine timber and sagebrush. Ascend.

38.00 Spur, 50 ft. above cor., projects W. Descend.

Survey of the South Boundary of T. 24 S., R. 19 E.

chains

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins., in the ground, for ¼ sec. cor., with brass cap marked

¼ S 33 / S 4 / 1916

from which

A juniper, 10 ins. in dia., bears N. 23° 45' E. 286 lks., marked ¼ S 33 B T

A juniper, 10 ins. in dia., bears S. 40¼° E. 178 lks. marked ¼ S 4 B T

Cor. stands 40 ft. below spur.

47.40 Bartlett Wash, 20 ft. below ¼ cor., drains N. 40° E. Ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 3ins. in the ground to sandstone bed-rock, built in mound of stone, for cor. of secs. 4, 5, 32 and 33 with brass cap marked

T 24 S R 19 E
S 32 | S 33
S 5 | S 4
T 25 S
1916

from which

A juniper, 10 ins. in dia., bears N. 6½° E. 85 lks. marked T 24 S R 19 E S 33 B T

A pinon pine, 8 ins., in dia., bears S 79¼° E. 297 lks., marked T 25 S R 19 E S 4 B T

A juniper, 14 ins. in dia., bears S. 48°W. 118 lks. marked T 25 S R 19 E S 5 B T

A juniper, 14 ins. in dia., bears N 46° W. 23 lks., marked T 24 S R 19 E S 32 B T

Land, rolling valley.

Soil; light, dry, red sandy loam with considerable barren sandstone outcropping.

Timber, scattering juniper and few pinon pine.

Undergrowth, sagebrush. Good grazing.

chains

West bet. secs. 5 and 32.

Over rolling and broken valley land, through scattering juniper timber and sagebrush. Ascend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in the ground to sandstone bed-rock, surrounded by a mound of stone, for ¼ sec. cor. with brass cap marked

¼ S 32 / S 5 / 1916

from which

A juniper, 9 ins. in dia., bears S. 6½° E. 152 lks., marked ¼ S 5 B T

A juniper, 10 ins. in dia., bears N. 22° W. 141 lks., marked ¼ S 32 B T

Cor. stands 40 ft. above sec. cor.

56.00 Base of broken sandstone ledges, bears NE. and SW.

75.00 Top of ledges, 160 ft. above ¼ cor., a spur, projects SW. Descend.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, with brass cap marked

T 24 S | R 19 E
S 31 | S 32
S 6 | S 5
T 25 S
1916

from which

A juniper, 9 ins. in dia., bears N. 33° W. 241 lks., marked T 24 S R 19 E S 31 B T

No other trees available, pits impracticable.

Cor. stands 10 ft. below spur.

Land rolling and broken.

Soil; light, dry, red sandy loam with considerable barren sandstone outcropping.

Timber; juniper, very scattering.

Undergrowth, sagebrush. Fair grazing.

West bet. secs. 6 and 31.

Over rolling valley land, through very scattering

Survey of the South Boundary of T. 24 S., R. 19 E.

chains

juniper timber and sagebrush. Descend.

1.00 Wash, 10 ft. below cor., drains SW. Ascend.

18.00 Spur, 80 ft. above wash, projects SW. Descend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. with brass cap marked

$$\frac{S\ 31}{S\ 6}$$
1916

No bearing trees available and pits impracticable on account of loose sandy soil.

Cor. stands 50 ft. below spur.

44.70 Wash, 10 ft. below cor. drains S. 20° W. Ascend.

65.00 Spur, 40 ft. above wash, projects S. Descend. 70 ft. to

80.02 The cor. of Ts. 24 and 25 S., Rs. 18 and 19 E.

Land, rolling valley.

Soil; light, dry, red sandy loam with some sandstone outcropping.

Some scattering junipers along line.

Undergrowth, sagebrush. Good grazing.

Survey of the East Boundary of T. 24 S., R 19 E.

From the cor. of Ts. 24 and 25 S., Rs. 19 and 20 E., heretofore described,

North on true line bet. secs. 31 and 36.

Note: For random line, see pages 4 and 5 of these notes.

Over level top of mesa.

7.32 South edge of impassable canyon, 400 ft. deep, course E.; pt. for triangulation, see page 5.

45.43 North edge of canyon, bears NE. and SW. The point for ¼ sec. cor. being inaccessible, at this point

Set a hard gray sandstone, 18x10x6 ins., in a mound of stone, for witness cor. to ¼ sec. cor., marked W C ¼ on W. face, and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Extreme inaccessibility

chains	
	prevented transportation of an iron post to this point.
52.30	Ridge, 30 ft. above cor. bears E. and W. Descend.
63.61	Edge of cliff, 120 ft. below ridge, bears E. and W., 530 ft. high. Point for triangulation, see page 4.
70.00	Foot of cliff, continue to descend to cor.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., on bed-rock surrounded by a mound of stone, with brass cap marked, for cor. of secs. 25, 30, 31, and 36, T 24 S R 19 E | R 20 E S 25 | S 30 S 36 | S 31 1916 and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Cor. stands 650 ft. below ridge.
	Land; rough, mountaincus.
	Mostly Barren sandstone, very little vegetation of any kind.
	North bet. secs. 25 and 30.
	Over rolling valleyland, through scattering junipers and sagebrush.
10.14	Triangulation point, see page 4 for computation.
22.00	Foot of impassable sandstone cliffs, bears N. 49°W. S. 40° E.
34.27	Top of cliff, 300 ft. above cor., triangulation point.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., on sand-stone bed-rock surrounded by a mound of stone with brass cap marked, for ¼ sec. cor. ¼ S 25 | S 30 1916 and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Cor. stands 30 ft. above top of cliff.
	Over barren sandstone, nearly level.
65.60	Descend over sandstone ledge, bears N. 40° E. and S. 40° W.

Survey of the East Boundary of T. 24 S., R. 19 E.

chains	
68.50	Bottom of descent, 30 ft. below top of ledge. Ascend.
74.30	Top of same ledge, 30 ft. high, bears N. 70° W. S. 70° E. Ascend.
77.30	Top of extreme west point of sandstone mesa, 50 ft. above top of ledge.
80.00	The point for sec. cor. falls on steep, sloping sandstone ledge; therefore cut a cross on ledge for true point for cor. of secs. 19, 24, 25 and 30.
	Land; rough, mountainous.
	Soil; south 30.00 chs. thin, yellow sandy loam, balance of mile, barren sandstone.
	Scattering junipers, sagebrush, and a little bunch grass on south 30.00 chs. No vegetation on north 50.00 chs.

	North bet. secs. 19 and 24.
	Descend over barren sandstone ledges.
0.75	Set an iron post, 3 ft. long, 2 ins. in dia., on sandstone bed-rock surrounded by a mound of stone, for witness cor. to cor. of secs. 19, 24, 25 and 30, with brass cap marked

T 24 S
R 19 E R 20 E

S 24 | S 19
S 25 | S 30
W C
1916

	and raise a mound of stone 2 ft. base 1½ ft high W. of cor.
6.00	Foot of barren sandstone, bears NE. and SW., thence over rocky sandy land, through scattering juniper timber and chaparral.
12.50	Wash, 105 ft. below cor., 4 ft. deep, 130 lks. wide, course N. 60° E. Ascend over broken sandstone ledges bearing NE. and SW.
36.00	Spur, 110 ft. above wash, projects NE. Descend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground surrounded by a mound of stone, with brass cap

chains	
	marked, for ¼ sec. cor.
	¼ S 24 | S 19 1916
	and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Cor. stands 46 ft. below spur.
58.40	Same wash, 75 ft. below ¼ cor., 3 ft. deep, 80 lks. wide, drains N. 75° W.; running water in wash, 2 ins deep, 12 lks. wide; scattering cottonwoods along wash. Ascend.
80.00	Set an iron post, 3 ft long, 2 ins. in dia., on bed-rock, surrounded by a mound of stone, for cor of sec 13, 18, 19 and 24, with brass cap marked
	T 24 S R 19 E | R 20E S 13 | S 18 S 24 | S 19 1916
	and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Cor. stands 75 ft. above wash.
	Land, mountainous.
	Soil; rocky, sandy loam, with considerable sandstone outcropping.
	Scattering junipers along mile and cottonwoods along wash.
	Undergrowth, sagebrush. Grass poor.
	---------- ----------
	North Bet. secs. 13 and 18.
	Ascend over rolling mountainous land covered with shadscale and salt brush.
4.00	Ridge, 30 ft. above cor., bears N. 50° W. and S. 50° E Descend.
21.00	Leave mountainous land, bears N. 75° W. and S75° E. Thence over rolling sandhills.
36.00	Wash, 175 ft. below ridge, 4 ft. deep, 1 ch. wide, drains N 40° E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins.

chains

in the ground, for ¼ cor., with brass cap marked

¼

S 13 | S 18

1916

Pits impracticable on account of drifting sand.

42.00 Leave drifting sandhills, bearing NE. and SW. Thence over nearly level land.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground, surrounded by a mound of stone, for cor. of secs. 7, 12, 13 and 18, with brass cap marked

T 24 S

R 19 E | R 20E

S 12 | S 7

S 13 | S 18

1916

and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. A mound of stone, 5 ft. base, 7 ft. high, bears N. 20½° W. 97 lks.

Land; mountainous, rolling.

Soil; stony, sandy loam.

Undergrowth, shadscale and salt brush.

No timber. Very little grass.

North bet. secs. 7 and 12.

Over nearly level land, through shadscale and salt brush undergrowth.

12.10 Road, from Moab to Green River, bears N. 70° W. and S. 70° E.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ cor., with brass cap marked

¼

S 12 | S 7

1916

Cor stands in edge of drifting sand dunes bearing NW. and SE. Pits impracticable.

51.00 Leave drifting sand dunes bearing N. 70° E and S 70° W.

71.70 Bartlett Wash, 3 ft. deep, 1 ch. wide, drains E.

chains

80.00 Set an iron post, 3 ft. long 2 ins. in dia., 26 ins. in the ground, for cor of secs 1, 6, 7 and 12, with brass cap marked

T 24 S
R 19 E | R 20 E
S 1 | S 6
S 12 | S 7
1916

Sandy land, pits impracticable.

Land, nearly level.

Soil, gray sandy loam.

Undergrowth, salt brush and shadscale.

No timber or grass.

North bet. secs. 1 and 6.

Over nearly level land, through undergrowth of shadscale and salt brush. ascend slightly.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ cor, with brass cap marked

$\frac{1}{4}$
S 1 | S 6
1916

Sandy land, pits impracticable.

56.00 Leave level land, bears E. and W., Ascend over spur.

60.00 Spur, 60 ft. above level land, projects S. 80° E. Descend.

65.00 Foot of descent, 46 ft. below spur . thence over level land.

80.14 The cor of Ts. 23 and 24 S., Rs. 19 and 20 E. described on page 4 of these notes.

Land; level and rolling.

Soil; gray, sandy loam.

Undergrowth, salt brush and shad scale.

No timber or grass.

Retracement and Survey of the North Boundary of

chains

T. 34 S., R. 19 E.

From the cor. of secs. 2, 3, 34 and 35, which is a pine post, 3x3x12 ins. above ground, marked and witnessed as described by the surveyor general.

The ¼ cor. being visible, I run N. 89° 55' W. retracing bet. secs. 3 and 34.

40.15 The ¼ cor., a limestone, 3x8x9 ins. above ground, marked and witnessed as described by the surveyor general.

From ¼ cor., continue N. 89° 55' W.

80.30 Fall 16 lks. N. of the cor. of secs. 3, 4, 33 and 34, which is a sandstone, 4x8x12 ins. above ground, marked and witnessed as described by the surveyor general.

The bearing of this ½ mile is S. 89° 58' W. and the distance 40.15 chs.

From the cor. of secs. 3, 4, 33 and 34, West, retracing bet. secs. 4 and 33.

40.05 Fall 6 lks. N. of ¼ cor., which is a sandstone 2x9x12 ins. above ground, marked and witnessed as described by the surveyor general.

The bearing of this ½ mile is S. 89° 55' W. and the distance 40.05 chs.

From a point 6 lks. N. of ¼ sec. cor., continue West.

80.07 Fall 12 lks. N. of cor. of secs. 4, 5, 32 and 33, which is a quartzite, 4x6x9 ins. above ground, marked and witnessed as described by the surveyor general.

The bearing of this ½ mile is S. 89° 55' W. and the distance 40.02.

From the cor. of secs. 4, 5, 32 and 33, S. 89° 55' W. retracing bet. secs. 5 and 32.

40.12 Fall 11 lks. S. of ¼ sec. cor., which is a cross cut on sandstone bed-rock, marked and witnessed as described by the surveyor general.

T. 24 S., R. 19 E.

The course of this ½ mile is N. 89° 56' W. and the distance 40.12.

From a point 11 lks. S. of ¼ cor., continue S. 89° 55' W.

80.22 Fall 19 lks. S of the cor. of secs. 5, 6, 31 and 32, which is a sandstone 7x8x10 ins. above ground, marked and witnessed as described by the surveyor general.

The course of this ½ mile is N. 89° 58' W. and the distance 40.10 chs.

From the cor. of secs. 5, 6, 31 and 32, S. 89° 55' W. retracing, bet. secs. 6 and 31.

40.11 Fall 2 lks. S. of the ¼ sec. cor. which is a sandstone 5x8x8 ins. above ground, marked and witnessed as described by the surveyor general.

The course of this ½ mile is S. 89° 57' W. and the distance is 40.11 chs.

From a point 2 lks. S. of the ¼ cor., continue S 89° 55' W.

96.38 Fall 10 lks S. of the cor. of Ts. 23 and 24 S., Rs. 18 and 19 E., which is a sandstone 8x8x14 ins., set in mound of stone, marked and witnessed as described by by the surveyor general.

The course of this ½ mile is West and the distance is 56.27 chs.

From the cor. of secs. 2, 3, 34 and 35, Ts. 23 and 24 S R. 19 E.

N 89° 55' W. on a true line bet. secs. 3 and 34.

Over rolling land through sparse undergrowth of shadscale and salt brush:

39.87 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. of sec. 3 only, with brass cap marked

¼ S 3

1916

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

chains	
	S. of cor.
40.15	The $\frac{1}{4}$ sec. cor., heretofore described, which now refers to sec. 34 only.
	Thence S 89° 58' W. on true line, with continuous chaining.
60.30	Top of low ridge, bears NW. and SE. Descend.
67.00	Foot of ridge, 75 ft. below top, enter level valley bearing NW. and SE.
79.74	Point for closing sec. cor. for secs 3 and 4, T. 24 S., R. 19 E.
	Thence bet. secs. 4 and 34.
80.30	The old cor. of secs. 3, 4, 33 and 34, heretofore described, which now refers to secs. 33 and 34, T. 23 S., R. 19 E., only. Deface marks pertaining to Secs. 3 and 4, T. 24 S., R. 19 E.
	Land, rolling and level.
	Soil, gray sandy loam.
	Undergrowth, scattering shad scale and salt brush.
	No timber ar grass.

	S. 89°55' W. on true line bet. secs. 4 and 33.
	Over level valley land, through scattering shad scale and salt brush.
20.44	Wagon Road, from Moab to Green River, bears NW. and SE.
36.00	Wash, 2 ft. deep, 12 lks. wide, drains N. 55° W.
39.44	A westing of 40.00 chs. from the closing cor. of secs. 3 and 4, T. 24 S., R. 19 E.; set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ cor. of sec. 4 only, with brass cap marked
	$\frac{1}{4}$ S 4
	1916
	Sandy land, pits impracticable.
40.05	The old $\frac{1}{4}$ cor., heretofore described, which now refers to sec. 33 only.
54.50	Wash, 3 ft. deep, 30 lks. wide, drains N. 65° W.

chains	
59.50	Leave level land bears N. 75° W. and S. 75° E. Ascend over rolling rocky hills.
79.44	A westing of 80.00 chs. from the closing cor. of secs. 3 and 4, T. 24 S., R. 19 E.; set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground, surrounded by a mound of stone, for cor of secs. 4 and 5 only with brass cap marked S 5 | S 4 T 24 S R 19 E 1916 and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Thence bet. secs. 5 and 33.
80.07	The old cor. of secs. 4, 5, 32 and 33, heretofore described, which now refers to secs. 32 and 33, T. 23 S., R. 19 E. only. Deface markings pertaining to secs. 4 and 5, T. 24 S., R. 19 E., and remonument by raising a mound of stone, 2 ft. base, 1½ ft high, N. of cor.
	Cor. stands 190 ft. above valley.
	Land; level, mountainous.
	Soil; E. 60.00 chs., gray sandy loam, balance mostly volcanic rock.
	Undergrowth, shadscale and salt brush.
	No timber and very little grass.

	N. 89° 56' W. on true line bet. secs. 5 and 32.
	Over rolling, rocky hills, generally descending.
19.40	Foot of hills, 140 ft. below cor. bearing N. and S.
21.40	Leave volcanic formation, bears NW. and SE., thence over rolling land, sandstone formation, through scattering juniper timber.
39.37	A westing of 40.00 chs. from the cor. of secs. 4 and 5, T. 24 S., R. 19 E. Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground, surrounded by a mound of stone, for ¼ cor. of sec. 5 only, with brass cap marked

chains

$\frac{1}{4}$ S 5

1916

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

40.12 The old $\frac{1}{4}$ cor. which now refers to sec 32 only.

Thence N. 89° 58' W. with continuous measurement.

64.40 Ascend.

79.37 A westing of 80.00 chs from the cor. of secs. 4 and 5, T. 24 S., R. 19 E. Set an iron post, 3 ft. long, 2 ins. in dia., on bedrock surrounded by a mound of stone, for cor. of secs. 5 and 6, T. 24 S., R. 19 E. with brass cap marked

S 6 | S 5
T 24 S | R 19 E
1916

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

Cor. stands 45 ft. above $\frac{1}{4}$ cor.

Thence bet. secs. 6 and 32

80.22 The old cor. of secs. 5, 6, 31 and 32, heretofore described, which now refers to secs. 31 and 32, T. 23 S., R. 19 E. only. Efface markings referring to secs. 5 and 6, T. 24 S., R. 19 E., and re-monument the cor. by raising a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Land, rolling and hilly.

Soil, rocky sandy loam with considerable sandstone outcropping.

Undergrowth, scattering sagebrush, shadscale, and salt brush.

Timber; scattering, scrubby junipers.

Grass, poor.

S. 89° 57' W. on true line bet secs. 6 and 31.

Over rolling rocky land, through scattering junipers.

4.15 Wash, drains N. Ascend E. slope.

chains	
15.00	Low ridge, 125 ft. above wash, bears N. and S. Descend
39.15	A westing of 40.00 chs. from the cor. of secs. 5 and 6 T. 24 S., R 19 E. Set an iron post, 3 ft. long, 1 in in dia., on bedrock surrounded by a mound of stone, for $\frac{1}{4}$ cor of sec. 6 only, with brass cap marked $\frac{1}{4}$ S 6 1916 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.
40.11	The old $\frac{1}{4}$ sec. cor., heretofore described, which now refers to Sec. 31 only.
	Thence West, with continuous measurement.
45.15	Gulch, 85 Ft. below ridge, drains N. 50° E. Ascend.
96.38	The cor. of Ts. 23 and 24 S., Rs. 18 and 19 E., heretofore described.
	Cor. stands 55 ft. above gulch.
	Land, rolling.
	Soil, sandy loam with considerable sandstone outcroppin
	Timber, scattering juniper.
	Undergrowth, sagebrush.
	Good grazing.

Subdivisions of T. 24 S., R. 19 E.

Commencing at the cor. of secs. 1, 2, 35, and 36, on the S. bdy. of the Tp., heretofore described.

N. 0° 01' W. bet. secs. 35 and 36.

Over rolling valley land, through scattering juniper timber.

15.00	Wash, 2 ft. deep, 20 lks. wide, drains S. 40° W. Ascend.
29.00	Knowing that the point for the $\frac{1}{4}$ cor. will fall on face of inaccessible cliff; at this point set an iron post, 3 ft. long, 1 in.in dia., 26 ins. in the ground, for

chains

witness cor. to ¼ cor., with brass cap marked

W C
¼
S 35 | S 36
1916

Loose sandy soil, pits impracticable. No bearing trees available. Cor. stands 60 ft. above sec. cor.

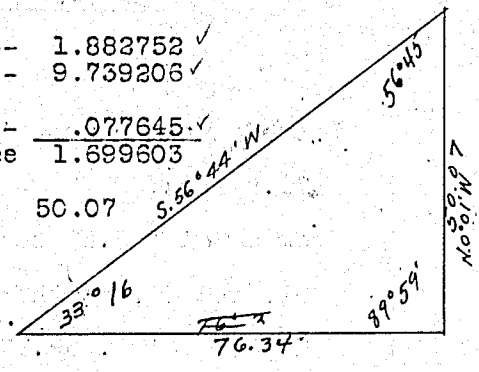
34.00 Foot of red sandstone cliff, 400 ft. high, bears N. 50° W. and S. 50° E.

As it was impossible to project line to top of cliff on line bet. secs. 35 and 36, I return to a point 3.66 chs. W. of cor. of secs. 1, 2, 35, and 36, and project an offset line N.0° 1' W. to top of cliff, whence flag on cor. of secs. 2, 3, 34, and 35, bears S. 56° 44' W.

Log. 76.34 ---------- 1.882752 ✓
" sin. 33° 16'------ 9.739206 ✓

Colog. sin. 56° 45'--- .077645 ✓
Log. required distance 1.699603

Number corresponding 50.07



Thence

N. 0° 1' W. 19.83 chs.

East 3.66 chs. to

69.90 South edge of impassable cliff, 460 ft. above sec. cor., on line . Cliff bears N. 10° E. and S 10° W.

Thence N. 0° 1' W. 10.10 chs. to

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., on bed-rock surrounded by a mound of stone, for cor. of secs. 25, 26, 35, and 36, with brass cap marked

T 24 S R 19 E
S 26 | S 25
S 35 | S 36
1916

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

Land; rough, mountainous.

Soil; S. 30.00 chs. loose, red sandy loam, balance barren sandstone.

Few scattering junipers on mile.

Scattering sagebrush and bunch grass on S. 30.00 chs.

Very little vegetation of any kind on N. 50.00 chs.

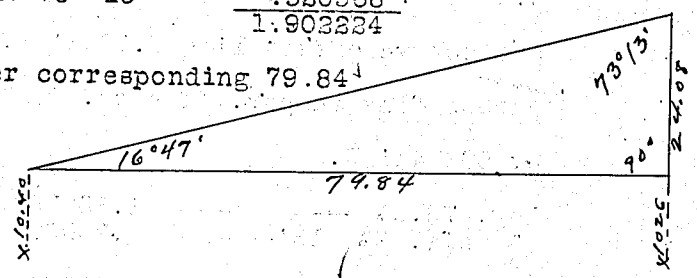
chains

Determination of course and length of line bet.secs. 25 and 36.

Knowing at the time of the survey of the E. bdy. that the line bet. secs. 25 and 36 would be impassable, at 16.26 chs. and 34.34 chs. N. of the cor. of secs. 25, 30, 31, and 36, T. 24 S., Rs. 19 and 20 E. set flags for triangulation; from a point 10.40 chs. N. of the cor. of secs. 25, 26, 35, and 36, these flags bear E. and N. 73° 13' E. respectively.

Log. 24.08 -------- 1.381656
" tan. 73° 13' -- .520568
1.903224

Number corresponding 79.84



Therefore the course is S. 89° 54' W. and the distance 79.84 chs.

From a point 3.60 chs. N. of the cor. of secs. 25, 30, 31, and 36, on the E. bdy.

S. 89° 54' W. 39.92 chs., on offset line

Thence S. 3.60 chs. to

39.92 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ cor. with brass cap marked

¼ S 25 / S 36

1916

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

From the cor. of secs. 25, 30, 31, and 36, on the E. bdy.

S. 89° 54' W. on true line bet. secs. 25 and 36, giving approximate topography

Ascend through scattering juniper timber over extremely rough mountainous land.

16.00 Top of N. point of mesa with sheer walls of red sandstone

chains	
	300 ft. high. Descend.
26.00	Foot of descent, 350 ft. below top. Ascend.
34.00	Top of N. point of same mesa, 350 ft. high. Island butte of red sandstone bears N. about 10.00 chs. Descend over cliff.
39.92	The ¼ cor., heretofore described. Cor. stands 350 ft. below mesa.
56.00	Wash, drains N. 15° E. Ascend.
68.00	Foot of cliffs, bears N. and S.
77.00	Top of cliffs, 400 ft. high, bears N. 10° E. and S. 10° W.
79.84	The cor. of secs. 25, 26, 35, and 36.

Land; very rough, mountainous.

Soil; very little soil on mile, mostly barren sandstone.

Timber, few scattering junipers on mile.

Very little undergrowth or grass.

N. 0° 1' W., bet. secs. 25 and 26.

Over mountainous land, through scattering junipers.

Along E. slope covered with huge sandstone boulders.

3.00	Descend NE. slope.
23.78	Edge of mesa, 130 ft. below cor., vertical sandstone cliff 200 ft. high, bears NW. and SE. It being apparent that the true point for the ¼ cor. will be inaccessible; set an iron post, 3 ft. long, 1 in. in dia., on bedrock surrounded by a mound of stone, for witness cor. to ¼ cor., with brass cap marked

W C
¼
S 26 | S 25
1916

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

From this point, flag on E. bdy. bears N. 82° 23' E.

Project line across impassable sandstone ledges and

chains

island buttes to S. edge of mesa.

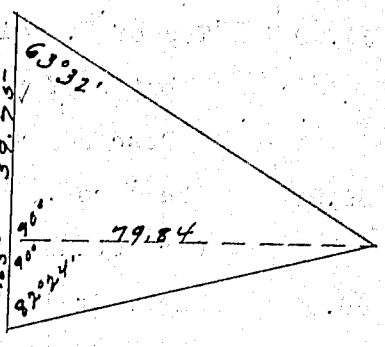
From point on S. edge of mesa flag on E. bdy. bears S. 63° 33' E.

Log. 79.84 ------- 1.902321
" cot.82° 24' -- 9.125249
1.027470

Number corresponding 10.65

Log. 79.84 ------- 1.902321
" cot. 63° 33'--- 9.697103
1.599324

Number corresponding. 39.75
10.65
33.78
74.18



74.18 South edge of mesa, top of cliff 200 ft. high, bears NE. and SW. Thence over rolling sandstone knolls.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., on bed-rock surrounded by a mound of stone, for cor. of secs 23, 24, 25, and 26., with brass cap marked

T 24 S R 19 E

S 23	S24
S 26	S 25

1916

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

Cor. stands at about same elevation as W. C. ¼ cor.

Land; extremely rough, mountainous.

Entire mile barren sandstone.

Few scrubby junipers growing in cracks in the rocks, no other vegetation on mile.

As it was impracticable to set transit over cor. of secs. 23, 24, 25, and 26, I offset as follows;

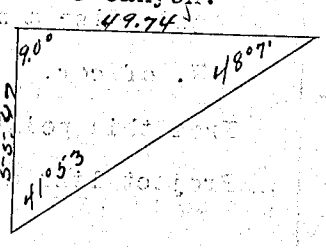
S 0° 1' E. 75 lks.

N. 89° 59' E. (to simplify triangulation) triangulating distance across impassable canyon.

Log. 55.47 ------ 1.744058
" cot. 48° 7' --9.952659
1.696717

Number corresponding ~~49.84~~
49.74

Thence N. 0°1.W75 lks to line.



chains

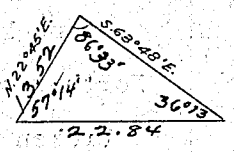
49.74 On line bet. secs. 24 and 25; thence, N. 89° 59' E.

49.84 Set temp. W.C. $\frac{1}{4}$ cor.

57.00 E. edge of mesa, impassable cliff 200 ft. high, bears N. 30° E. and S. 50° W. Line projected falls 7 lks. S. of true point for cor. of secs. 19, 24, 25, and 30, on E. bdy. of Tp.

Thence N. 22° 45' E. along edge of mesa, 13.52 chs. whence point of intersection of random line with E. bdy. bears S. 63° 48' E.

Log. 13.52 ---------- 1.130977 ✓
" sin. 86° 33' ----- 9.999212 ✓
Colog." 36° 13' ----- 0.238530 ✓
1.358719



Number corresponding 22.84 ✓
57.00
79.84

79.84 Intersect E. bdy. of Tp. 7 lks. S. of true pt. for cor secs19, 24, 25, and 30.

Thence S. 89° 56' W. on a true line bet. secs. 24 and 25, giving approximate topography.

Over rough mountainous land, through few scattering junipers. Descend.

10.00 Wash, 100 ft. below cor., 4 ft. deep, 120 lks. wide, drains N. Ascend.

22.84 Top of cliff, 200 ft. high, bears N. 30° E. and S. 50° W. Thence over rolling top of mesa.

30.00 Set an iron post, 3 ft. long, 1 in. in dia., on bed-rock surrounded by a mound of stone, for witness cor. to $\frac{1}{4}$ cor., with brass cap marked

$$W\ C\ \frac{1}{4}\ \frac{S\ 24}{S\ 25}$$

1916

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

36.75 West edge of mesa, cliff 60 ft. high, bears N. and S.

Thence over impassable sandstone ledges and island buttes.

39.92 Point for $\frac{1}{4}$ sec. cor., cor. not set.

57.00 Rim of mesa, bearing N. 30° E. and S. 50° W.

73.00 East edge of mesa, top of cliff 200 ft. high, bears

chains

N. 40° E. and S. 40° W. Thence over rolling top of mesa.

79.84 The cor. of secs. 23, 24, 25, and 26.

Land, extremely rough mountainous.

No soil, entire mile barren sandstone.

Few scattering junipers growing in cracks in the rocks.

No other vegetation of any kind.

N. 0° 1' W. bet. secs. 23 and 24.

Over mountainous land, descending slightly over sandstone knolls, through few scrubby junipers.

6.08 North edge of mesa, 24 ft. below cor. , descend over broken sandstone cliffs totaling 200 ft. in height. bearing E. and W.

15.00 Foot of cliffs, thence over rolling sandhills, generally descending.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 8 ins. in the ground to bedrock surrounded by a mound of stone for $\frac{1}{4}$ cor., with brass cap marked

$\frac{1}{4}$

S 23 | S 24

1916

and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Leave scattering junipers bearing E. and W. Cor. stands 240 ft. below sec. cor.

80.00 Set an iron post, 3 ft. long, 2 ins., in dia., 24 ins. in the ground, for cor. of secs. 13, 14, 23, and 24, with brass cap marked

T 24 S R 19 E

S 14 | S 13

S 23 | S 24

1916

and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling and mountainous.

Soil, barren sandstone and yellow sandy loam.

chains	
	Few scattering junipers on S. ½ mile, no timber on balance.
	Undergrowth, scattering sagebrush and shadscale on N. 65.00 chs.
	Fair growth of bunch grass on N. 65.00 chs.

	N. 89° 56' E., on a random line bet. secs. 13 and 24.
40.00	Set temp. ¼ cor.
79.88	Intersect E. bdy. of Tp. 18 lks. N. of cor. of secs. 13. 18, 19, and 24.
	Thense
	N. 89° 56' W., on a true line bet. secs. 13 and 24.
	Descend over rocky SW. slope through scattering sagebrush and shadscale.
15.00	Wash, 75 ft. below cor., 2 ft. deep, 150 lks. wide, drains N. Ascend over rolling sand hills.
38.00	Top of ascent, 75 ft. above wash, descend into gulch.
39.50	Gulch, 40 ft. below top of ascent, drains N. 30° E. Water in holes. Ascend.
39.94	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ cor., with brass cap marked
	¼ S 13 / S 24
	1916
	Pits impracticable on account of drifting sand.
79.88	The cor. of secs. 13, 14, 23, and 24, 90 ft. above gulch
	Land, rolling sand hills.
	Soil; mostly loose yellow sand, some stony sandy loam.
	No timber.
	Undergrowth, scattering sagebrush and shadscale.
	Fair growth of bunch grass.
	---

chains	
	N. 0° 1' W., bet. secs. 13 and 14.
	Over rolling sand hills, through salt brush and shade scale undergrowth. Descend slightly.
15.00	Draw, drains N. 30° E. Ascend gradually.
37.00	Low ridge, bears N. 30° E. and S. 30° W. Descend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ cor., with brass cap marked $\frac{1}{4}$ S 14 | S 13 1916 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
78.00	Bartlett Wash, 2 ft. deep, 160 lks. wide, drains N. 40° E. Ascend.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, with brass cap marked T 24 S R 19 E S 11 | S 12 S 14 | S 13 1916 Cor. set in loose sandy soil, pits impracticable.
	Land, rolling hills.
	Soil; mostly gray stony sandy loam, some loose red sand.
	No timber.
	Undergrowth, salt brush and shadscale.
	Grass, poor.

	S. 89° 56' E., on a random line bet. secs. 12 and 13.
40.00	Set temp. $\frac{1}{4}$ cor.
79.82	Intersect E. bdy of Tp. 2 lks. N. of cor. of secs. 7, 12, 13, and 18.
	Thence
	N. 89° 55' W., on a true line bet. secs. 12 and 13.

chains	
	Over rolling land, through scattering undergrowth of salt brush and shadscale.
25.00	Draw, drains N.
39.91	Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground and surrounded by a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 12 / S 13 1916 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Descend slightly from cor.
65.00	Wash, 70 ft. below $\frac{1}{4}$ cor., 3 ft. deep, 2o lks. wide, drains N. to NW.
78.50	Bartlett Wash, 2 ft. deep, 160 lks. wide, drains NE.
79.82	The cor. of secs. 11, 12, 13, and 14.
	Land, rolling.
	Soil, gray stony sandy loam.
	No timber.
	Undergrowth, scattering salt brush and shad scale.
	Very little grass.

	N. 0° 1' W., bet. secs. 11 and 12.
	Over rolling land, through scattering salt brush and shadscale.
17.00	Wash, 3 ft. deep, 40 lks. wide, drains N. 75° E.
19.50	Road from Moab to Green River, bears E. and W.
40.00	Set an iron post, 3ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec cor., with brass cap marked $\frac{1}{4}$ S 11 | S 12 1916
	Cor. set in loose sandy soil, pits impracticable.
77.50	Wash, 3 ft. deep, 100 lks. wide, drains S. 80° E.
	Heavy growth of greasewood along wash.

chains	
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 2, 11, and 12, with brass cap marked T 24 S R 19 E. S 2 | S 1 S 11 | S 12 1916 Cor. set in loose sandy soil, pits impracticable. Land, rolling. Soil, gray sandy loam. No timber. Undergrowth; salt brush and shadscale, greasewood along wash. Very little grass.
	------ ----------
	S. 89° 55' E., on a random line bet. secs. 1 and 12:
40.00	Set temp. ¼ sec. cor.
79.90	Intersect E. bdy. of Tp. at cor. of secs. 1, 6, 7, and 12.
	Thence
	N. 89° 55' W., on a true line bet. secs. 1 and 12.
	Over level land, through scattering salt brush and shadscale.
38.00	Wash, 3 ft. deep, 20 lks. wide, drains S. 40° W.
39.95	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 1 S12 1916
	Loose sandy soil, pits impracticable.
75.00	Wash, 3 ft. deep, 30 lks. wide, drains S. 70° E.
79.90	The cor. of secs. 1, 2, 11, and 12,
	Land, level.
	Soil, gray sandy loam.
	No timber.
	Undergrowth, scattering salt brush and shadscale.

chains

N. 0° 1' W., on a random line bet. secs. 1 and 2.

40.00 Set temp. ¼ sec. cor.

80.12 Intersect N. bdy. of Tp. 10 lks. E. of cor. of secs. 1, 2, 35, and 36, which is a pine post, 4 x 4 x 12 ins. above ground, marked and witnessed as described by the surveyor general.

Thence

S. 0° 5' E., on a true line bet. secs. 1 and 2.

Over rolling land, through scattering undergrowth of salt brush and shadscale. Ascending slightly.

39.00 Top of ascent, bears E. and W., descend.

40.12 Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground and surrounded by a mound of stone, for ¼ sec cor. with brass cap marked

$$\begin{array}{c|c} & \frac{1}{4} \\ S\ 2 & S\ 1 \\ & 1916 \end{array}$$

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

45.00 Enter level land, 40 ft. below top of ascent, bears E. and W.

77.90 Wash, 2 ft. deep, 15 lks. wide, drains E.

80.12 The cor. of secs. 1, 2, 11, and 12.

Land, level and rolling.

Soil, gray sandy loam.

No timber.

Undergrowth, scattering salt brush and shadscale.

Very little grass.

From the cor. of secs. 2, 3, 34, and 35, on the S. bdy. of Tp.

N. 0° 1' W. bet. secs. 34 and 35.

Over rolling land, through scattering junipers and undergrowth of sagebrush. Descend gradually.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins.

chains	
	in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marke
	$\frac{1}{4}$
	S 34 | S 35
	1916
	Loose sandy soil, pits impracticable.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 26, 27, 34, and 35, with brass cap marked
	T 24 S R 19 E
	S 27 | S 26
	S 34 | S 35
	1916
	pits impracticable; loose sandy soil.
	Land, rolling.
	Soil, loose red sandy loam.
	Timber, few scattering junipers.
	Undergrowth, sagebrush.
	Fair growth of bunch grass.
	---- ---------- ----------
	N. 89° 59' E. (to simplify triangulation) on a random line bet. secs. 26 and 35.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
47.00	Foot of impassable cliff. Project line to top of cliff
54.44	Point on top of cliff whence flag on cor. of secs. 2, 3, 34, and 35, on S. bdy., bears S. 34° 13' W.
	Cot. 55° 46', 0.68045 x 80.
	54.436
79.90	Intersect N. and S. line, 11 lks. N. of the cor. of secs 35, 36, 35, and 36,
	Thence
	N. 89° 56' W., on a true line bet. secs. 26 and 35.
	Over mountainous land, through scattering junipers and sagebrush. Ascend precipitous E. slope strewn with huge sandstone boulders.
4.20	Top of E. edge of mesa, 200 ft. above cor., top of cliff

chains	
	50 ft. high, bears N. and S. Thence over rolling sandstone top of mesa.
18.00	West edge of mesa, bears N. and S. Descend over steep, boulder-strewn W. slope.
25.46	Triangulation point, top of impassable sandstone cliff, bears N. and SE. Cliff 250 ft. high. Descend.
33.00	Foot of sandstone cliff. Thence over rolling land.
39.95	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ | S 26 / S 35 1916 Pits impracticable. Cor. stands 530 ft. below mesa.
71.80	Wash, 2 ft. deep, 30 lks. wide, drains N. 20° W.
79.90	The cor. of secs. 26, 27, 34, and 35.
	Land, mountainous and rolling.
	Soil; E. 33.00 chs. barren sandstone, balance loose red sandy loam.
	Timber, scattering junipers.
	Undergrowth, sagebrush.
	Fair grazing on W. ½ mile.

	N. 0° 1' W. bet. secs. 26 and 27.
	Over rolling land, through very scattering junipers and sagebrush. Descend gradually.
38.00	Wash, 50 ft. below cor., 4 ft. deep, 90 lks. wide, drains N. 40° E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., on bed-rock, surrounded by a mound of stone, for ¼ sec. cor. with brass cap marked ¼ S 27 | S 26 1916 from which A juniper, 10 ins. in dia., bears S. 14½° E., 86 lks.

chains

marked ¼ S 26 B T

A juniper, 8 ins. in dia., bears S. 29½° W., 69 lks, marked ¼ S 27 B T

61.00 Same wash, drains N. 30° W., joins Bartlett Wash 150 lks. W. of line.

66.00 Bartlett Wash, 100 ft. below sec. cor., 2 ft. deep. 200 lks. wide, drains N. 40° E. Ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, with brass cap marked

T 24 S R 19 E

S 22	S 23
S 27	S 26

1916

Pits impracticable.

Cor. stands 25 ft. above wash.

Land, rolling.

Soil, loose red sandy loam.

Timber, scattering junipers.

Undergrowth, sagebrush.

Fair grazing.

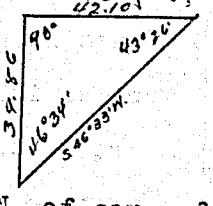
N. 89° 59' E., (to simplify triangulation) on a random line bet. secs. 23 and 26.

33.00 Set temp. W.C. ¼ sec. cor. at foot of impassable cliff. Project line to top of cliff.

42.10 Point on top of cliff whence flag 14 lks N. of ¼ sec. cor of secs. 26 and 27, bears S. 46° 33' W.,

Log. 39.86 ---------- 1.600537
" cot. 43° 26' ----- 0.033762
1.624299

Number corresponding 42.10



79.90 Intersect N. and S. line, 14 lks. N. of cor. of secs. 23, 24, 25, and 26.

Thence

N. 89° 55' W., on a true line bet. secs. 23 and 26.

Over broken sandstone top of mesa, through scattering

chains	
	junipers.
18.20	Ascend rocky east slope.
25.00	Ridge, 120 ft. above cor., bears N. and S. Descend W. slope.
37.80	West edge of mesa, 130 ft. below ridge, top of cliff, 200 ft. high, bears N. and S. Triangulation point.
39.90	Point for ¼ sec. cor.; cor. not set.
46.90	Set an iron post, 3 ft. long, 1 in. in dia., on bedrock surrounded by a mound of stone, for witness cor. to ¼ sec cor. with brass cap marked ¼ S 23 / S 26 W C 1916 and raise a mound of stone, 2 ft. base, 1½ ft. high, N of cor. True point for cor. on W. face of cliff.
	Cor. stands at base of cliff, 330 ft. below top of ridge; cliff bears N. and S. Continue to descend.
77.10	Bartlett Wash, 460 ft. below ridge, 3 ft. deep, 100 lks. wide, drains N. 20° E. Enter rolling sandy land and sagebrush undergrowth, bearing N. 20° E. and S. 20° W. Ascend.
79.90	The cor. of secs. 22, 23, 26, and 27. Cor. 46 ft. above wash.
	Land; rough mountainous, rolling.
	Soil; E. 77 chs. barren sandstone, balance loose red sandy loam.
	Timber, scattering scrubby junipers.
	Sagebrush on W. 3 chs.
	Bunch grass on W. 3 chs.

	N. 0° 1' W., bet. secs. 22 and 23.
	Over heavily rolling land, through sagebrush undergrowth
	Leave scattering junipers at cor., bearing NE. and SW.
	Ascend.
16.50	Spur, 45 ft. above cor., projects N. 40° E. Descend.
36.30	Wash, 120 ft. below spur, 2 ft. deep, 90 lks. wide,

chains

drains N 60° E. Ascend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1/4 sec. cor., with brass cap marked

1/4
S 22 | S 23
1916

Pits impracticable.

66.80 Wash, 2 ft. deep, 30 lks. wide, drains N.75° E.

Scattering junipers along wash.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, with brass cap marked

T 24 S R 19 E
S 15 | S 14
S 22 | S 23
1916

Pits impracticable.

Cor. stands 115 ft. above 1/4 sec. cor.

Land, heavily rolling.

Soil, loose red sandy loam.

Timber, scattering junipers along wash.

Undergrowth, sagebrush.

Fair grass.

S. 89° 55' E., on a random line bet. secs. 14 and 23.

40.00 Set temp. 1/4 sec. cor.

79.96 Intersect N. and S. line 17 lks. N. of cor. of secs. 13, 14, 23, and 24.

Thence

N. 89° 48' W., on a true line bet. secs. 14 and 23.

Over heavily rolling rocky land, through scattering shadscale and sagebrush undergrowth. Ascend.

32.40 Top of ascent, 40 ft. above cor., bears N. and S. Descend abruptly.

39.98 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in

chains	
	the ground, for ¼ sec. cor., with brass cap marked ¼ S 14 / S 23 1916
	Pits impracticable.
	Cor. stands 160 ft. below top of ascent.
45.00	Bartlett Wash, 20 ft. below ¼ sec. cor., 8 ft. deep, 250 lks. wide, drains N. to NE. Small stream of good water, a number of quite large cottonwood trees along wash.
	Thence, ascend over barren sandstone bears N. and SW.
74.00	Leave sandstone, enter rolling sandy land and sagebrush bears N. and S.
79.96	The cor. of secs. 14, 15, 22, and 23, 120 ft. above wash.
	Land, heavily rolling and hilly.
	Soil; light sandy loam, stony sandy loam, and barren sandstone.
	Timber, cottonwoods along wash.
	Undergrowth, shadscale and sagebrush.
	Very little grass.

	N. 0° 1' W., bet. secs. 14 and 15.
	Ascend over rolling land, through sagebrush undergrowth.
3.00	Enter mountainous land and scattering junipers, bearing NE. and SW.
3.30	Top of sandstone cliff 60 ft. high, 90 ft. above cor., bears NE. and SW.
7.40	Descend N. slope.
29.00	Gulch, 150 ft. below beginning of descent, drains N. 75° E., small spring in gulch 10.00 chs. N. 75° E.
	Ascend abruptly.
34.30	Edge of sandstone, mesa, 90 ft. above gulch, bears NE. and SW. continue to ascend slightly.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., on bedrock

chains

surrounded by a mound of stone, for $\frac{1}{4}$ sec.coor., with brass cap marked

$\frac{1}{4}$
S 15 | S 14
1916

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

40.90 Leave sandstone formation, enter volcanic, bears N. 49° W. and S. 49° E.

41.40 Descend rocky NE. slope.

51.60 Gulch, 185 ft. below beginning of descent, drains N. 60° E. Ascend.

59.20 Spur, 105 ft. above gulch, projects N. 30° E. Descend.

73.00 Enter level land, bears NW. and E. Leave scattering juniper timber, bears same. Leave sagebrush undergrowth, enter salt brush and shadscale, bears NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 10, 11, 14, and 15, with brass cap marked

T 24 S R 19 E
S 10 | S 11
S 15 | S 14
1916

Pits impracticable. Cor. stands 70 ft. below spur.

Land; level, rolling, and mountainous.

Soil; loose sandy loam, barren sandstone, stony sandy loam, and light gray sandy loam.

Timber, scattering scrubby junipers on 70.00 chs.

Undergrowth; sagebrush, shadscale and salt brush.

Very little grass.

Flag on cor. of secs. 11, 12, 13, and 14, being visible.

S. 89° 47' E. on a random line for distance bet. secs. 11 and 14.

chains	
40.00	Set temp. 1/4 sec. cor.
79.92	Intersect cor. of secs. 11, 12, 13, and 14, thence N. 89° 47' W. on a true line bet. secs. 11 and 14. Over gently rolling land, through salt brush and shadscale undergrowth
9.90	Wash, 3 ft. deep, 30 lks. wide, drains N. 65° E.
39.96	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1/4 sec. cor., with brass cap marked 1/4 S 11 / S 14 1916 Pits impracticable.
47.00	Draw, drains N.
59.00	Wash, 40 ft. below 1/4 sec. cor., 2 ft. deep, 30 lks. wide, drains N. 30° E. Ascend.
73.40	Wash, 1 ft. deep, 10 lks. wide, drains N. to NE.
79.92	The cor. of secs. 10, 11, 14, and 15, 50 ft. above wash at 59.00 chs.
	Land, gently rolling.
	Soil, gray sandy loam.
	No timber.
	Undergrowth, salt brush and shadscale.

	N. 0° 1' W., bet. secs. 10 and 11.
	Over gently rolling land, through salt brush and shadscale undergrowth.
18.00	Wash, 1 ft. deep, 10 lks. wide, drains E.
20.80	Road from Moab to Green River, bears N. 60° E. and S. 60° W.
39.70	Wash, 2 ft. deep, 8 lks. wide, drains N. 30°E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1/4 sec. cor., with brass cap marked 1/4 S 10 | S 11 1916 Pits impracticable.

chains

46.50 Wash, 3 ft. deep, 50 lks. wide, drains N. 60° E.

59.00 Wash, 3 ft. deep, 30 lks. wide, drains N. 70° E.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 2, 3, 10, and 11, with brass cap marked

T 24 S R 19 E

S 3 | S 2

S 10 | S 11

1916

Pits impracticable.

Land, gently rolling.

Soil, gray sandy loam.

Undergrowth, salt brush and shadscale.

No timber.

S. 89° 47' E., on a random line bet. secs. 2 and 11.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

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

Thence

N. 89° 48' W., on a true line bet. secs. 2 and 11.

Over level land, through salt brush and shadscale.

15.00 Wash, 3 ft. deep, 25 lks. wide, drains N. 65° E.

39.95 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S 2

S 11

1916

Pits impracticable.

Corner set in loose sandy soil.

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

Land, level.

Soil, gray sandy loam.

Undergrowth, salt brush and shadscale.

No timber.

chains	
	N. 0° 1' W., on a random line bet. secs. 2 and 3.
40.00	Set temp. ¼ sec. cor.
79.97	Intersect N. bdy. of Tp. 37 lks. E. of cor. of secs. 2, 3, 34, and 35. Cor. described page 17.
	Thence
	S. 0° 17' E. on a true line bet. secs. 2 and 3.
	Over rolling land, through salt brush and shadscale undergrowth.
27.50	Top of S. slope, bears E. and W., descend.
35.00	Foot of slope, 90 ft. below top, enter level land, bears E. and W.
39.97	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 3 | S 2 1916 Pits impracticable.
72.80	Wash, 3 ft. deep, 12 lks. wide, drains E.
79.97	The cor. of secs. 2, 3, 10, and 11.
	Land, rolling and level.
	Soil, light gray sandy loam.
	Undergrowth, salt brush and shadscale.
	No timber.

	From the cor. of secs. 3, 4, 33, and 34, on S. bdy. of Tp.
	N. 0° 2' W., bet. secs. 33 and 34.
	Over rolling valley land, through scattering juniper timber and sage brush undergrowth. Ascend gradually.
26.00	Spur, 30 ft. above cor., projects NE. Descend gradually.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 2 ins. in the ground to sandstone bedrock, surrounded by a mound of stone, for ¼ sec. cor., with brass cap marked

chains

$\frac{1}{4}$

S 33 | S 34

1916

from which

A juniper, 10 ins. in dia., bears N. 42° 45' E., 168 lks. marked $\frac{1}{4}$ S 34 B T

A juniper, 8 ins. in dia., bears N. 16° W., 127 lks. marked $\frac{1}{4}$ S 33 B T

Cor. stands 20 ft. below spur.

45.00 Wash, 20 ft. below cor., drains NE. (Bartlett Wash).

58.00 Spur, 30 ft. above wash, projects NE. Descend.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 27, 28, 33, and 34, with brass cap marked

T 24 S R 19 E

S 28 | S 27

S 33 | S 34

1916

from which

A juniper, 14 ins. in dia., bears N. 7° 45' E. 180 lks., marked T 24 S R 19 E S 27 B T

A juniper, 10 ins. in dia., bears S. 7$\frac{1}{4}$° E. 297 lks. marked T 24 S R 19 E S 34 B T

A juniper, 8 ins. in dia., bears S. 88$\frac{1}{2}$° W. 188 lks. marked T 24 S R 19 E S 33 B T

A juniper, 9 ins. in dia., bears N. 17° 45' W. 132 lks., marked T 34 S R 19 E S 28 B T

Cor. stands 40 ft. below spur.

Land, rolling.

Soil, light dry red sandy loam with some red sandstone outcroppings.

Timber, scattering junipers.

Undergrowth, scattering sagebrush.

Good growth of bunch grass.

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

chains	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect N. and S. line, 8 lks. N. of cor. of secs. 26, 27, 34, and 35.
	Thence
	N. 89° 57' W., on a true line bet. secs. 27 and 34.
	Over rolling valley land, through scattering juniper timber and sagebrush undergrowth. Descend slightly.
10.10	Wash, drains N. 20 E., Ascend gradually.
35.00	Spur, 70 ft. above wash, projects N. Descend.
40.06	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S 27 / S 34
	1916
	Pits impracticable.
	Cor. stands 30 ft. below spur.
48.00	Bartlett Wash, 30 ft. below cor. drains N 20° E. Ascend gradually. Wash 1.00 ch. wide, 5 ft. deep.
65.00	Spur, 30 ft. above wash, projects NE. Descend slightly.
80.12	The cor. of secs. 27, 28, 33, and 34, 30 ft. below spur.
	Land, rolling valley.
	Soil, light dry red sandy loam with some sandstone outcropping.
	Timber, scattering junipers.
	Undergrowth, scattering sagebrush.
	Good grazing.

	N. 0° 2' W., bet. secs. 27 and 28.
	Over rolling valley land, through scattering juniper timber and sagebrush undergrowth. Descend.
1.50	Wash, 10 ft. below cor., drains NE. Ascend.
12.00	Spur, 20 ft. above wash, projects NE. Descend.
22.00	Wash, 20 ft. below spur, drains NE. Ascend.

chains

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼
S 28 | S 27
1916

Pits impracticable.

Cor. stands 40 ft. above wash.

44.00 Spur, 10 ft. above cor., projects NE. Descend.

52.00 Wash, 50 ft. below spur, drains NE. Ascend gradually.

71.80 Base of sandstone ledges, bearing NE. and SW.

80.00 Point for cor. of secs. 21, 22, 27, and 28 falls on smooth, steep, sloping barren sandstone, 150 ft. above wash. Impossible to set cor. securely near true pt. on meridional lines; therefore, on Dec. 5, N. 89° 58' W., bet. secs. 21 and 28, 75 lks., set an iron post, 3 ft. long, 2 ins. in dia., on bedrock surrounded by a mound of stone, for witness cor. to cor. of secs. 21, 22, 27, and 28, with brass cap marked

T 24 S R 19 E
S 21 | S 22
S 28 | S 27 W C
1916

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

Land, rolling and rough mountainous.

Soil, light dry red sandy loam and barren sandstone.

Timber, few scattering junipers.

Undergrowth, sagebrush.

Fair grazing.

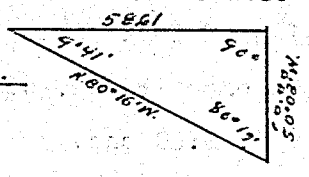
22

From true point for cor. of secs. 21, 22, 27, and 28, S. 89° 57' E., on a random line bet secs. 22 and 27.

0.75 Edge of cliff, impossible to chain beyond this point, set a flag for triangulation point, and project line to a point in valley below.

chains	
59.36	Point in valley. Measure baseline S. 0° 3' W., 10.00 chs., whence flag at 0.75 chs. bears N.80° 16' W.

Tan. 80° 19', 5.66051
10.
58.6051
.75
59.36



80.20	Intersect N. and S. line, 2 lks. N. of cor. of secs. 22, 23, 26, and 27.
	Thence
	N. 89° 56' W., on a true line bet. secs. 22 and 27.
	Over heavily rolling land, through sagebrush undergrowth. Ascend.
15.00	Top of low spur, 60 ft. above cor., projects NE. Descend gradually.
20.84	Triangulation point.
35.30	Wash, 60 ft. below spur, drains N. 75° E., sandstone outcroppings along wash. Ascend gradually.
40.10	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S 22 / S 27

1916

and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Cor. stands 30 ft. above wash.

77.00	Foot of sandstone cliff, bears N.40°E. and S.40°W.
80.20	The true point for cor. of secs. 21, 22, 27, and 28, 200 ft. above ¼ sec. cor.
	Land, rolling and mountainous.
	Soil, light red sandy loam and sandstone outcropping.
	Undergrowth, sagebrush
	No timber.
	Fair grazing.

N. 0° 2' W. bet. secs. 21 and 22.

Over barren sandstone ledges, ascending gradually.

chains

10.00 Sandstone spur, 60 ft. above cor., projects N. 60° E. Descend abruptly.

16.07 Top of impassable ledges, bears NE. and SW.

To pass ledges, offset as follows:

W. 3.50 chs.

N. 0° 2' W. 11.93 chs.

E. 3.50 chs. to a point on line bet. secs. 21 and 22; thence, S. 0° 2' E., 5.00 chs., to

23.00 Ravine, 200 ft. below spur, drains N. 60° E. Thence, N. 0° 2' W., ascending abruptly.

28.00 Sandstone spur, 200 ft. above ravine, projects N. 20° E. Descend abruptly.

40.00 Point for $\frac{1}{4}$ sec. cor. falls on smooth, steeply sloping sandstone; cor. not set.

45.93 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
S 21 | S 22
WC
1916

from which

A juniper, 10 ins. in dia., bears S. 12° W. 118 lks marked W C $\frac{1}{4}$ S 21 B T . Pits impracticable.

46.00 Enter very scattering juniper timber, bears NE and SW.

47.50 Bottom of canyon, 180 ft. below spur, drains E. Ascend abruptly.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., on bedrock surrounded by a mound of stone, for cor. of secs. 15, 16, 21, and 22, with brass cap marked

T 24 S R 19 E

S 16 | S 15
S 21 | S 22

1916

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

chains	
	W. of cor.
	Land; very rough, mountainous.
	Soil; light red sandy loam in places, most of mile is barren sandstone too rough and broken for soil to accumulate.
	Timber, very few scattering junipers on N. 3400 chs.
	Very little undergrowth or grass.

	S. 89° 56' E., on a random line bet. secs. 15 and 22.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.18	Intersect N. and S. line 10 lks. S. of cor. of secs. 14, 15, 22, and 23.
	Thence
	West on a true line bet. secs. 15 and 22.
	Over rolling land, through sagebrush undergrowth.
	Ascend.
6.00	Enter mountainous land and scattering junipers, bearing N. 75° E. and S. 75° W. Ascend over sandstone cliff.
6.70	Top of cliff, 50 ft. high, 90 ft. above the cor., bears N. 75° E. and S. 75 ° W. Ascend gradually.
28.10	Top of ascent, 115 ft. above the cor.; descend over sandstone cliff, 70 ft. high, bears N. and S.
35.40	Foot of steep descent, 190 ft. below top; enter rolling land, bears N. 80° E. and S. 80° W.
40.09	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ $\frac{S\ 15}{S\ 22}$ 1916
	Pits impracticable.
46.00	Enter barren sandstone, bears N. 70° W. and S. 70° E.
58.20	Gulch, drains N. 80° E., ascend abruptly.
70.50	Top of sandstone cliff, 100 ft. high, 225 ft. above gulch, bears N. and S. Ascend gradually.

chains	
80.18	The cor. of secs. 15, 16, 21, and 22, 310 ft. above gulch.
	Land, rolling and mountainous.
	Soil, light red sandy loam and barren sandstone outcrop.
	Timber, few scattering junipers.
	Undergrowth, sagebrush.

	N. 0° 2' W., bet. secs. 15 and 16.
	Over rolling and broken white sandstone mesa, juniper trees and sagebrush in few depressions where soil has collected. Descend gradually.
28.00	Wash, 100 ft. below cor., drains N. 70° E. Ascend gradually.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., on sandstone bedrock surrounded by a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$

S 16 | S 15

1916

from which

A juniper, 16 ins. in dia., bears N. 8° E. 130 lks. marked $\frac{1}{4}$ S 15 B T

A juniper, 9 ins. in dia., bears N. 85° W. 204 lks. marked $\frac{1}{4}$ S 16 B T

Cor. stands 40 ft. above wash.

47.50	Spur, 70 ft. above cor., projects N. 80° E. Descend gradually.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 9, 10, 15, and 16, with brass cap marked

T 24 S R 19 E

S 9 | S 10

S 16 | S 15

1916

chains	
	Pits impracticable. Cor. stands 150 ft. below spur.
	Land, rolling and mountainous.
	Soil; white and red, light, dry, sandy loam with considerable white sandstone outcropping.
	Timber, few scattering junipers.
	Undergrowth, scattering sagebrush.
	Very little grass.

	East, on a random line bet. secs. 10 and 15.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, 12 lks. N. of cor. of secs. 10, 11, 14, and 15.
	Thence
	N. 89° 55' W. on a true line bet. secs. 10 and 15.
	Over rolling land. Ascend gradually through salt brush and shadscale undergrowth.
18.50	Top of ascent, 75 ft. above cor., bears N. 15° E. and S. 15°W.; leave salt brush and shad scale, enter scattering juniper timber and sagebrush, bears N. and S. Descend.
20.00	Gulch, 40 ft. below top of ascent, drains N. Ascend.
23.10	Spur, 70 ft. above gulch, projects N. Descend.
24.50	Gulch, 45 ft. below spur, drains N. 40° W., Ascend.
30.00	Brink Spring and watering trough, bears N. 10. chs.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., on bedrock surrounded by a mound of stone, for $\frac{1}{4}$ sec. cor With brass cap marked
	$\frac{1}{4}\frac{\text{S 10}}{\text{S 15}}$
	1916
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Cor. stands 80 ft. above gulch.
43.50	Spur, 100 ft. above gulch, projects N. Descend.
51.00	Gulch, 50 ft. below spur, drains N.40° E. Ascend.
80.00	The cor. of secs. 9, 10, 15, and 16, 55 ft. above gulch,

chains	
	Land, heavily rolling.
	Soil; red and gray, stony sandy loam.
	Timber, few scattering junipers.
	Undergrowth; salt brush, shadscale, and sagebrush.
	Very little grass.
	N. 0° 2' W. bet. secs. 9 and 10.
	Over rolling and broken land, through scattering juniper timber and sagebrush undergrowth. Descend.
7.50	Gulch, 40 ft. below cor., drains N. 70° E. Ascend abruptly.
19.00	Spur, 170 ft. above gulch, projects NE. Descend.
38.00	Gulch, 130 ft. below spur, drains NE. Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 8 ins. in the ground surrounded by a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 9 | S 10 1916 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Cor. stands 20 ft. above gulch.
43.00	Spur, 30 ft. above cor., projects NE. Descend gradually.
72.00	Enter gently rolling valley, bears N. 80° W. and S. 80° E.; leave scattering juniper timber and sagebrush, enter salt brush and shadscale.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 26 ins. in the ground, for cor. of secs. 3, 4, 9, and 10, with brass cap marked T 24 S R 19 E S 4 | S 3 S 9 | S 10 1916 Pits impracticable.
	Land; rolling and broken, gently rolling.
	Soil; white and red, light, dry, sandy loam.

chains

Timber, scattering junipers on S. 72.00 chs.

Undergrowth; sagebrush, salt brush, and shadscale.

Very little grass.

S. 89° 55' E., on a random line bet. secs. 3 and 10.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line, 6 lks. N. of cor. of secs. 2, 3, 10, and 11.

Thence

N. 89° 52' W., on a true line bet. secs. 3 and 10.

Over nearly level land, through salt brush and shadscale undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S 3
S 10
1916

Pits impracticable.

42.10 Road from Moab to Green River, bears N. 30° W. and S. 30° E.

80.00 The cor. of secs. 3, 4, 9, and 10.

Land, nearly level.

Soil, gray sandy loam.

No timber.

Undergrowth, salt brush and shadscale.

N. 0° 2' W., on a random line bet. secs. 3 and 4.

40.00 Set temp. ¼ sec. cor.

79.68 Intersect N. bdy. of Tp., 56 lks. N. 89° 58' E. of cor. secs. 33 and 34 T.23 S.R.19 E. heretofore described; at intersection

Set an iron post, 3 ft. long, 3 ins. in dia., 26 ins. in the ground, for closing cor. of secs. 3 and 4, with brass cap marked

chains

T 23 S R 19 E

S 34

S 4 | S 3

T 24 S | R 19 E

C | C

1916

Pits impracticable. No 2 in. post available.

Thence S. 0° 2 ' E. on a true line bet. secs. 3 and 4

Over nearly level land, through salt brush and shadscale undergrowth.

21.98 Road from Moab to Green River, bears NW. and SE.

39.68 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼

S 4 | S 3

1916

Pits impracticable.

79.68 The cor. of secs. 3, 4, 9, and 10.

Land, nearly level.

Soil, light gray sandy loam.

Undergrowth, saltbrush and shadscale.

No timber or grass.

From the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of Tp.

N. 0° 3' W. bet. secs. 32 and 33.

Over rolling valley land, through scattering juniper timber and sagebrush undergrowth. Ascend slightly.

10.01 Base of impassable sandstone ledges, bears NE. and SW. Project line to top of ledges and (to simplify triangulation) set a flag 3½ lks. N. of the ¼ sec. cor. for secs. 4 and 33, on S. bdy. of Tp.

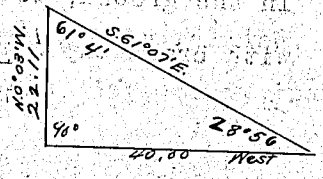
22.11 Top of ledges, 330 ft. above cor., bears NE. and SW.

Point whence flag bears S. 61° 7' E.

Cot. 61° 4' .55279

Multiply by 40.

22.1116



chains

Ascend gradually.

40.00 Set an iron post, 3 ft. long, 1 in. dia., on barren sandstone bedrock surrounded by a mound of stone, for ¼ sec. cor., with brass cap marked

¼

S 32 | S 33

1916

from which

A juniper, 6 ins. in dia., bears N 85° E., 16 lks. marked ¼ S 33 B T

A juniper, 7 ins. in dia., bears N. 15° W., 100 lks., marked ¼ S 32 B T

51.50 Ridge, 150 ft. above top of ledges, bears E. and W., W. edge of prominent knoll on ridge. Ridge is divide between Green and Grand rivers. Descend.

78.00 Wash, 100 ft. below ridge, drains NW. Ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., on sandstone bedrock surrounded by a mound of stone, for cor. of secs. 28, 29, 32, and 33, with brass cap marked

T 24 S R 19 E

S 29 | S 28

S 32 | S 33

1916

From which

A juniper, 12 ins. in dia., bears N. 72° W. 63 lks., marked T 24 S R 19 E S 29 B T

also raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Cor. stands 10 ft. above wash.

Land; rolling, mountainous, and broken.

Soil; light, dry, red sandy loam.

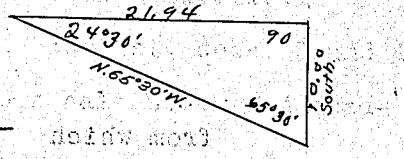
Timber, scattering juniper.

Undergrowth, sagebrush.

Poor grazing.

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

chains	
35.76	East edge of mesa, set a flag for triangulation over impassable ledges and project line to point at foot of ledges.
57.70	Point at foot of ledges; measure base line S. 10.00 chs., whence flag on top of ledges bears N. 65º 30' W.



Tan 65° 30'---- 2.19430
Multiply by 10
21.94300
35.76
57.70

79.70	Intersect N. and S. line, 5 lks. N. of cor. of secs. 27, 28, 33, and 34.
	Thence
	N. 89° 58' W. on a true line bet. secs. 28 and 33.
	Over rolling valley land. Ascend gradually through scattering junipers and sagebrush.
22.00	Base of impassable sandstone ledges, 50 ft. above cor. Triangulation point.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness cor. to ¼ sec. cor., with brass cap marked

$$\text{WC } \tfrac{1}{4} \frac{\text{S 28}}{\text{S 33}}$$

1916

	from which
	A juniper, 6 ins. in dia., bears N. 60° E. 107 lks. marked W C ¼ S 28 B T
	A juniper, 9 ins. in dia., bears S. 11° W., 70 lks. marked W C ¼ S 33 B T
	Ascend over sandstone ledges bearing NE. and SW.
39.85	True point for ¼ sec. cor. falls on inaccessible ledge.
43.94	Top of ledges, 350 ft. above sec. cor., bears NE. and SW. Ascend gradually.
55.00	Top of ridge, 110 ft. above top of ledges, bears NE. Divide between Green and Grand rivers.

chains	
	and SW. Descend gradually.
79.70	The cor. of secs. 28, 29, 32, and 33, 100 ft. below ridge.
	Land; rolling, mountainous.
	Soil; light, dry, red sandy loam with much sandstone outcropping.
	Timber, scattering junipers.
	Undergrowth, sagebrush.
	Little grass.

	N. 0° 3' W. bet. secs. 28 and 29.
	Over rolling and broken mesa land , ascending gradually through scattering junipers and sagebrush.
10.00	Spur, 30 ft. above cor., projects W. Descend.
21.00	Wash, 40 ft. below spur, drains W. Ascend gradually.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. with brass cap marked $\frac{1}{4}$ S 29 | S 28 1916 from which A juniper, 8 ins. in dia., bears N. 28½° E., 210 lks., marked $\frac{1}{4}$ S 28 B T A juniper, 7 ins. in dia., bears N. 18° W., 44 lks., marked $\frac{1}{4}$ S 29 B T Cor. stands on ridge, 70 ft. above wash, bears E. and W., divide bet. Green and Grand rivers. Descend.
74.50	Rim of mesa, bears N. 15° W and S. 15° E. Descend abruptly
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., on sandstone bedrock surrounded by a mound of stone, for cor. of secs. 20, 21, 28, and 29, with brass cap marked T. 24 S. R. 19 E.

chains

T. 24 S. R. 19 E.

S. 20	S. 21
S. 29	S. 28

1916

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

Land, rolling and broken.

Soil; light, dry, red sandy loam. Much sandstone outcropping.

Timber, scattering junipers.

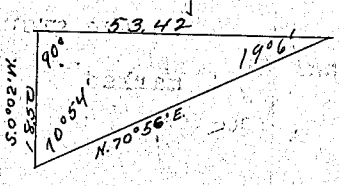
Undergrowth, sagebrush.

Fair grazing.

S. 89° 58' E., on a random line bet. secs. 21 and 28.

Impassable sandstone cliffs and canyons prevent chaining. Measure base line S. 0° 2' W. 18.50 chs., whence point on random line, bears N. 70° 56' E.

Log. 18.50 ------- 1.267172
" cot. 70° 54'-- .460571
1.727743

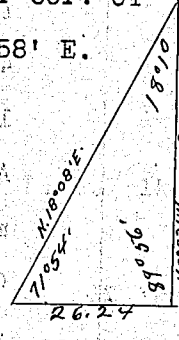


Number corresponding 53.42

53.42 Set temp. W.C. ¼ sec. cor.

From this point, cor. of secs. 15, 16, 21, and 22, bears N. 18° 08' E.; and true point for cor. of secs. 21, 22, 27, and 28, bears S. 89° 58' E.

Log. 80.00-------- - 1.903090
" sin. 18° 10'---- 9.493851
Colog " 71° 54'---- 0.023041
1.418982



Number corresponding 26.24
53.42
79.66

79.66 Intersect true point for cor. of secs. 21, 22, 27, and 28.

Thence

N. 89° 58' W., on a true line bet. secs. 21 and 28 giving approximate topography.

Ascend over barren sandstone ledges, extremely rough and broken.

0.75 The witness cor. to cor. of secs. 21, 22, 27, and 28.

chains	
15.00	Top of E. edge of mesa, 250 ft. above cor., bears N. and S. Thence over rolling top of mesa.
26.25	Set an iron post, 3 ft. long, 1 in. in dia., on bedrock surrounded by a mound of stone, for witness cor. to ¼ sec. cor., with brass cap marked WC ¼ S 21 / S 28 1916 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Cor. stands on W. edge of mesa, bears NE and SW.
	Thence over succession of impassable canyons and spurs, draining and projecting NE.
39.83	Point for ¼ sec. cor.; cor. not set.
79.66	The cor. of secs. 20, 21, 28, and 29, 180 ft. below top of mesa.
	Land; mountainous, very rough and broken.
	Practically no soil on mile, nearly all barren sandstone.
	Very little vegetation of any kind on mile.

	N. 0° 3' W., bet. secs. 20 and 21.
	Over broken mountainous land, through few scattering junipers and very scattering sagebrush. Descend abruptly.
4.50	Ravine, 100 ft. below cor., drains E. Ascend abruptly.
10.40	Rim of mesa, 150 ft. above ravine, bears NE. and SW. Thence over rolling top of mesa.
33.00	N. rim of mesa, bears NW. and SE. Descend abruptly.
40.00	Set an iron, post, 3 ft. long, 1 in. in dia., on sandstone bedrock surrounded by a mound of stone, for ¼ sec. cor., with brass cap marked ¼ S 20 | S 21 1916

chains

from which

A juniper, 8 ins. in dia., bears N. 68° E., 140 lks. marked $\frac{1}{4}$ S 21 B T

A juniper, 6 ins. in dia., bears S. 33° W.? 37 lks., marked $\frac{1}{4}$ S 20 B T

Cor. stands 120 ft. below mesa.

44.50 Ravine, 40 ft. below cor., drains N. 70° E. Ascend abruptly.

59.80 Rim of mesa, 150 ft. above ravine, bears NE. and SW. Thence over rolling mesa.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground surrounded by a mound of stone, for cor. of secs. 16, 17, 20, and 21, with brass cap marked

T 24 S R 19 E

S 17	S 16
S 20	S 21

1916

from which

A juniper, 8 ins. in dia., bears N. 48¼° E. 46 lks., marked T 24 S R 19 E S 16 B T

A juniper, 9 ins. in dia., bears S. 77° E., 115 lks., marked T 24 S R 19E S 21 B T

A juniper, 6 ins. in dia., bears S. 7° W., 36 lks., marked T 24 S R 19 E S 20 B T

A juniper, 7 ins. in dia., bears N. 87° W., 62 lks., marked T 24 S R 19 E S 17 B T

Land, rough mountainous and rolling.

Soil; brown sandy loam, about half of mile is barren sandstone.

Timber, few scattering junipers.

Undergrowth, sagebrush.

chains

S. 89° 58' E., on a random line bet. secs. 16 and 21.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.60 Intersect N. and S. line, 16 lks. N. of cor. of secs. 15, 16, 21, and 22.

Thence

N. 89° 51' W., on a true line bet. secs. 16 and 21.

Descend gradually over rolling sandstone mesa, through scattering juniper timber and sagebrush.

True point for $\frac{1}{4}$ sec. cor falls in an insecure position in bottom of canyon, 50 ft. below cor. drains NE. Return to

38.12 And, in a safe place, set an iron post, 3 ft. long, 1 in. in dia., on sandstone bedrock surrounded by a mound of stone, for witness cor. to $\frac{1}{4}$ sec. cor., with brass cap marked

$$WC\ \tfrac{1}{4}\ \frac{S\ 16}{S\ 21}\ 1916$$

from which

A juniper, 16 ins. in dia., bears N. $4\frac{1}{2}$° E., 41 lks. marked W C $\frac{1}{4}$ S 16 B T

A juniper, 9 ins. in dia., bears S. $14\frac{1}{4}$ W., 133 lks. marked W C $\frac{1}{4}$ S 21 B T

39.80 True point for $\frac{1}{4}$ sec. cor.; cor. not set.

74.20 E. rim of mesa, 320 ft. above canyon, bears N. 20° E. and S. 20° W. Thence over rolling mesa.

79.60 The cor. of secs. 16, 17, 20, and 21.

Land, rolling and mountainous.

Soil; light sandy loam in places, mostly barren sandstone.

Timber, very few scattering junipers.

Undergrowth, scattering sagebrush.

N. 0° 3' W. bet. secs. 16 and 17.

Ascend over rolling and broken mesa land, through

chains

scattering juniper timber and sagebrush.

7.50 Spur, 60 ft. above cor., projects E. Descend gradually.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 36 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼
S 17 | S 16
1916

from which

A juniper, 8 ins. in dia., bears N. 76° E., 46 lks., marked ¼ S 16 B T

A juniper, 12 ins. in dia., bears S. 10° W., 38 lks., marked ¼ S 17 B T

Cor stands 100 ft. below spur.

51.00 Gulch, 30 ft. below cor., drains N. 30° E. Ascend gradually.

68.00 Spur, 40 ft. above gulch, projects N. 30° E. Descend gradually.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground, surrounded by a mound of stone, for cor. of secs. 8, 9, 16, and 17, with brass cap marked

T. 24 S.R 19 E
S 8 | S 9
S 17 | S 16
1916

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Cor. stands 40 ft. below spur.

Land, rolling and broken.

Soil; white and red, light sandy loams.

Timber, scattering junipers.

Undergrowth, sagebrush.

Very little grass.

---

chains	
	S. 89° 51' E., on a random line bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.74	Intersect N. and S. line, 4 lks. S. of cor. of secs. 9, 10, 15, and 16.
	Thence
	N. 89° 53' W., on a true line bet. secs. 9 and 16.
	Over rolling and broken land, through scattering juniper timber and sagebrush undergrowth. Descend slightly.
2.25	Wash, drains NE. Ascend.
39.87	Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground, surrounded by a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}\frac{\text{S 9}}{\text{S 16}}$
	1916
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Cor. stands on spur, 300 ft. above wash, projects NE. Descend.
45.75	Wash, 10 ft. below spur, drains NE. Ascend.
65.00	Ridge, 30 ft. above wash, bears N. and S. Descend.
75.75	Gulch, 100 ft. below ridge, drains N. 10° E. Ascend.
79.74	The cor. of secs. 8, 9, 16, and 17, 60 ft. above gulch.
	Land, rolling and broken.
	Soil; white and red, light sandy loams.
	Timber, few scattering junipers.
	Undergrowth, sagebrush.
	Very little grass.

	N. 0° 3' W., bet. secs. 8 and 9.
	Over rolling and broken mesa land, through scattering juniper timber and sagebrush undergrowth. Descend.
10.50	Gulch, 90 ft. below cor., drains N. 20° E. Ascend.

chains

39.50 Spur, 70 ft. above gulch, projects NE. Descend gradually.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼
S 8 | S 9
1916

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

58.00 Same gulch, 110 ft. below cor., drains N. 10° W. Continue to descend along E. side of gulch.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., on bedrock, surrounded by a mound of stone, for cor. of secs. 4, 5, 8, and 9, with brass cap marked

T 24 S R 19 E
S 5 | S 4
S 8 | S 9
1916

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

Land, heavily rolling, broken.

Soil, red light sandy loam.

Timber, few scattering junipers.

Undergrowth, sagebrush.

Fair grazing.

S. 89° 53' E., on a random line bet. secs. 4 and 9.

40.00 Set temp. ¼ sec. cor.

80.08 Intersect N. and S. line, 5 lks. S. of cor. of secs. 3, 4, 9, and 10.

Thence

N. 89° 55' W. on a true line bet. secs. 4 and 9.

Over level valley land, through shadscale and salt

chains	
	brush undergrowth.
39.00	Leave level land and shadscale and salt brush undergrowth, ascend over rough broken land through scattering junipers and sagebrush, bears N. and S.
40.04	Set an iron post, 3 ft. long, 1 in. in dia., on bedrock, surrounded by a mound of stone, for ¼ sec. cor., with brass cap marked ¼ S 4 / S 9 1916 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Junipers too scrubby for bearing trees.
43.80	Top of ascent, 120 ft. above sec. cor., bears N. and S. Over rolling mesa, much barren sandstone outcropping.
76.00	W. edge of mesa, bears N. and S. Descend abruptly.
80.08	The cor. of secs. 4, 5, 8, and 9, 90 ft. below mesa.
	Land; level, rolling, broken.
	Soil; red and gray, light sandy loams. Much sandstone outcropping on W. ½ mile.
	Timber, scattering scrubby junipers on W. 41.00 chs.
	Undergrowth; shadscale, salt brush, sagebrush.

	N. 0° 3' W. on a random line bet. secs. 4 and 5.
40.00	Set temp. ¼ sec. cor.
79.78	Intersect N. bdy. of Tp.; 5 lks. E. of the cor. of secs. 4 and 5.
	Thence
	S. 0° 5' E., on a true line bet. secs. 4 and 5.
	Ascend over rough broken land, through shadscale and salt brush undergrowth.
2.00	Spur, 30 ft. above cor., projects N. 70° E. Descend.
22.50	Wash, 60 ft. below spur, drains N. 60° E. Ascend.
	Leave shadscale and salt brush undergrowth, enter scattering juniper timber and sagebrush, bears NW. and SE.

chains

39.78 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼
S 5 | S 4
1916

from which

A juniper, 8 ins. in dia., bears S. 50° E., 97 lks., marked ¼ S 4 B T

A juniper, 10 ins. in dia., bears S. 18° W., 115 lks., marked ¼ S 5 B T

Cor. stands 60 ft. above wash.

43.00 Spur, 20 ft. above cor., projects NE. Descend abruptly.

48.00 Ravine, 130 ft. below spur, drains NE. Ascend abruptly.

62.50 Spur, 200 ft. above ravine, projects NE. Descend.

72.50 Gulch, 40 ft. below spur, drains NE. Ascend gradually along E. side of gulch.

79.78 The cor. of secs. 4, 5, 8, and 9.

Land, rough and broken.

Soil; red and gray, stony sandy loams.

Timber, scattering junipers on S. 55.00 chs.

Undergrowth; salt brush, shadscale, sagebrush.

From the cor. of secs. 5, 6, 31, and 32, on S. bdy. of Tp.

N. 0° 3' W., bet. secs. 31 and 32.

Over gently rolling mesa land, through very scattering juniper timber and sagebrush undergrowth. Descend gradually.

3.00 Wash, 10 ft. below cor., drains SW. Ascend gradually.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

chains

$\frac{1}{4}$

S 31 | S 32

1916

No bearing trees available, pits impracticable.

Cor. stands 30 ft. above wash.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 9 ins. in the ground to sandstone bedrock, surrounded by a mound of stone, for cor. of secs. 29, 30, 31, and 32, with brass cap marked.

T 24 S R 19 E

S 30 | S 29

S 31 | S 32

1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor, Cor. stands 50 ft. above $\frac{1}{4}$ cor.

Land, gently rolling mesa.

Soil; red, light sandy loam. Some sandstone outcropping.

Timber, few scattering junipers.

Undergrowth, sagebrush.

Good grazing.

East, on a random line bet. secs. 29 and 32.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.12 Intersect cor. of secs. 28, 29, 32, and 33.

Thence

West, on a true line bet. secs. 29 and 32.

Over rolling mesa land, through scattering juniper timber and sagebrush undergrowth. Descend gradually.

2.10 Wash, 10 ft. below cor., drains NW. Ascend gradually.

10.00 Spur, 20 ft. above wash, projects NW. Descend gradually.

40.06 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

chains

$\frac{1}{4}$ S 29 / S 32

1916

from which

A juniper, 10 ins. in dia., bears N. 44° E., 172 lks., marked $\frac{1}{4}$ S 29 B T

A juniper, 8 ins. in dia., bears S. 31° W., 62 lks., marked $\frac{1}{4}$ S 32 B T

Cor. stands in draw, drains NE., 40 ft. below spur. Ascend gradually.

80.12 The cor. of secs. 29, 30, 31, and 32, 50 ft. above $\frac{1}{4}$ sec. cor.

Land, rolling mesa.

Soil; red, light sandy loam. Some sandstone outcropping

Timber, scattering junipers.

Undergrowth, sagebrush.

Good grazing.

West, on a random line bet. secs. 30 and 31.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

98.12 Intersect W. bdy. of Tp., 5 lks. N. of cor. of secs. 25, 30, 31, and 36, heretofore described.

Thence

N. 89° 58' E., on a true line bet. secs. 30 and 31.

Over gently rolling mesa land, through few scattering junipers and sagebrush undergrowth. Descend gradually.

14.90 Wash, drains S.60°W., continue gradual descent.

45.90 Gulch, drains S. 70° W. Ascend gradually.

58.12 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S 30 / S 31

1916

chains	
	from which
	A juniper, 9 ins. in dia., bears S. 11½° W., 65 lks. marked ¼ S 31 B T
	A juniper, 8 ins. in dia., bears N. 72½° W. 136 lks., marked ¼ S 30 B T
98.12	The cor. of secs. 29, 30, 31, and 32, 60 ft. above ¼ sec. cor.
	Land, gently rolling mesa.
	Soil, red, light sandy loam. Some sandstone out cropping.
	Timber, few scattering junipers.
	Undergrowth, sagebrush.
	Good grazing.

	N. 0° 3' W. bet. secs. 29 and 30.
	Over rolling mesa land, through scattering juniper timber and sagebrush undergrowth. Ascend gradually.
3.00	Spur, 10 ft. above cor., descend gradually.
29.50	Wash, 60 ft. below spur, drains W. Ascend gradually.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 8 ins. in the ground to sandstone bedrock, surrounded by a mound of stone, for ¼ sec. cor., with brass cap marked ¼ S 30 | S 29 1916
	from which
	A juniper, 9 ins. in dia., bears N. 2½° E. 232 lks., marked ¼ S 29 B T
	A juniper, 7 ins. in dia., bears S. 82½° W., 37 lks. marked ¼ S 30 B T
	Cor. stands 30 ft. above wash.
67.50	Spur, 80 ft. above ¼ sec. cor., projects W.; descend gradually.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins.

chains

in the ground to sandstone bedrock, surrounded by a mound of stone, for cor. of secs. 19, 20, 29, and 30, with brass cap marked

T 24 S R 19 E

S 19	S 20
S 30	S 29

1916

from which

A juniper, 10 ins. in dia., bears S. 41° E., 124 lks., marked T 24 S R 19 E S 29 B T

A juniper, 8 ins. in dia., bears S. 8° W., 82 lks., marked T 24 S R 19 E S 30 B T

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Cor stands 30 ft. below spur.

Land, rolling mesa.

Soil; red, light sandy loam; much sandstone outcropping.

Timber, scattering junipers.

Undergrowth, sagebrush.

Good grazing.

East, on a random line bet. secs. 20 and 29.

40.00 Set temp. ¼ sec. cor.

80.20 Intersect N. and S. line, 16 lks. N. of cor. secs. 20, 21, 28, and 29. Thence

N. 89° 53' W., on a true line bet. secs. 20 and 29.

Over broken rocky land, through scattering juniper timber and sagebrush undergrowth; ascend abruptly.

7.70 Rim of mesa, 150 ft. above cor., bears NW. and SE.; ascend gradually over rolling mesa land.

40.10 Set an iron post, 3 ft. long, 1 in. in dia., 4 ins. in the ground to sandstone bedrock, surrounded by a mound of stone, for ¼ sec. cor., with brass cap marked

chains

$\frac{\frac{1}{4} \text{ S } 20}{\text{S } 29}$

1916

from which

A juniper, 9 ins. in dia., bears N. 7° E., 36 lks., marked $\frac{1}{4}$ S 20 B T

A juniper, 7 ins. in dia., bears S. $6\frac{1}{2}$° W., 60 lks., marked $\frac{1}{4}$ S 29 B T

Cor. stands on low ridge which marks divide bet. Green and Grand rivers. Ridge bears NW. and SE. Descend gradually.

80.20 The cor. of secs. 19, 20, 29, and 30.

Land; rough, broken, and gently rolling.

Soil; W. 72.50 chs. light, red sandy loam, balance of mile barren sandstone.

Timber, scattering junipers.

Undergrowth, sagebrush.

Fair grazing.

S. 89° 58' W., on a random line bet. secs. 19 and 30.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

98.06 Intersect W. bdy. of Tp., 31 lks. S. of cor. of secs. 19, 24, 25, and 30, heretofore described.

Thence

S. 89° 51' E., on a true line bet. secs. 19 and 30.

Over rolling mesa land, through scattering junipers and sagebrush undergrowth; ascend gradually.

3.00 Ridge, 10 ft. above cor., bears N. and S.; descend gradually.

23.00 Wash, 40 ft. below ridge, drains SE.; ascend gradually

40.00 Spur, 30 ft. above wash, projects SW.; descend gradually.

48.00 Wash, 25 ft. below spur, drains SW.; ascend gradually.

58.06 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. with brass cap marked

chains

$\frac{1}{4}$ S 19 / S 30

1916

No bearing trees available, pits impracticable.

Cor. stands 40 ft. above wash.

98.06 The cor. of secs. 19, 20, 29, and 30, 40 ft. above $\frac{1}{4}$ sec. cor.

Land, rolling mesa.

Soil; red, light sandy loam. Some sandstone outcrops.

Timber, few scattering junipers.

Undergrowth, sagebrush.

Good grazing.

N. 0° 3' W. bet. secs. 19 and 20.

Over rolling mesa land, through scattering juniper timber and sagebrush undergrowth; descend gradually.

27.00 Wash, 30 ft. below cor., drains W.; ascend gradually.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$

S 19 | S 20

1916

from which

A juniper, 10 ins. in dia., bears N. 9° E., 240 lks., marked $\frac{1}{4}$ S 20 B T

A juniper, 9 ins. in dia., bears N. 9° W., 175 lks., marked $\frac{1}{4}$ S 19 B T

Cor. stands 30 ft. above wash.

47.00 Ridge, 40 ft. above cor., bears NW. and SE.; divide between Green and Grand rivers. Descend gradually.

70.30 Wash, 50 ft. below ridge, drains N. 70° E.; ascend gradually.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins.

chains

in the ground, for cor. of secs. 17, 18, 19, and 20, with brass cap marked

T 24 S R 19 E

S 18 | S 17
S 19 | S 20

1916

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

Cor. stands on spur, 40 ft. above wash, projects NE.

Land, rolling mesa.

Soil; red, light sandy loam. Some sandstone outcrops.

Timber, few scattering junipers.

Undergrowth, sagebrush.

Good grazing.

S. 89° 53' E., on a random line bet. secs. 17 and 20.

40.00 Set temp. ¼ sec. cor.

80.22 Intersect N. and S. line, 7 lks. S. of cor of secs. 16, 17, 20, and 21.

Thence

N. 89° 56' W., on a true line bet. secs. 17 and 20.

Over rolling and broken mesa land, through scattering juniper timber and sagebrush undergrowth; ascend gradually.

10.70 Ridge, 20 ft. above cor., bears N. 20° E. and S. 20° W.; descend gradually.

38.70 Wash, 50 ft. below ridge, drains N. 10° E.; ascend gradually.

40.11 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S 17 / S 20

1916

chains	
	from which
	A juniper, 6 ins. in dia., bears N.9°W., 48 lks., marked ¼ S 17 B T
	A juniper, 6 ins. in dia., bears S. 28½ W., 60 lks., marked ¼ S 20 B T
	Cor. stands 10 ft. above wash.
52.00	Spur, 70 ft. above wash, projects NE.; descend.
72.20	Wash, 70 ft. below spur, drains N. 60° E.; ascend.
80.22	The cor. of secs. 17, 18, 19, and 20, 60 ft. above wash.
	Land, rolling and broken mesa.
	Soil; red and white, light sandy loams.
	Timber, few scattering junipers.
	Undergrowth, sagebrush.
	Good grazing.

	N. 89° 51' W., on a random line bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
97.93	Intersect W. bdy. of Tp., 20 lks. N. of cor. of secs. 13, 18, 19, and 24., heretofore described.
	Thence
	S. 89° 58' E. on a true line bet. secs. 18 and 19.
	Over rolling mesa land, through scattering juniper timber and sagebrush undergrowth; descend gradually.
10.00	Gulch, 40 ft. below cor., drains NE.; ascend gradually
57.93	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground to sandstone bedrock, surrounded by a mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S 18 / S 19 / 1916
	and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Cor. stands 80 ft. above gulch.

chains

61.00 Ridge, 20 ft. above cor., bears NE. and SW.; descend gradually.

89.50 Gulch, 40 ft. below ridge, drains NE.; ascend gradually.

97.93 The cor. of secs. 17, 18, 19, and 20, 20 ft. above gulch.

Land, rolling mesa.

Soil; red, light sandy loam; some sandstone outcrops.

Timber, few scattering junipers.

Undergrowth, sagebrush.

Good grazing.

N. 0° 3 ' W., bet. secs. 17 and 18.

Over heavily rolling and broken mesa land, through few scattering junipers and sagebrush undergrowth; descend.

7.50 Gulch, 50 ft. below cor., drains N. 60° E.; ascend abruptly.

12.00 Ridge, 50 ft. above gulch, bears N. 60° E. and S. 60° W.; descend.

30.00 Gulch, 70 ft. below ridge, drains N. 60° E.; ascend.

39.00 Spur, 30 ft. above gulch, projects N. 60° E.; descend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in crack in sandstone ledge, surrounded by a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked

$$\frac{\frac{1}{4}}{\text{S } 18 \mid \text{S } 17}$$
$$1916$$

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Cor. stands 10 ft. below spur.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 7, 8, 17, and 18, with brass cap marked

chains	
	T 24 S R 19 E S 7 | S 8 S 18 | S 17 1916
	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Cor. stands 40 ft. below spur.
	Land, rolling and broken mesa.
	Soil; red, light sandy loam. Much sandstone outcropping.
7	Timber, very few scattering junipers.
	Undergrowth, sagebrush.
	Fair grazing.

	S. 89° 56' E., on a random line bet. secs. 8 and 17.
40.00	Set. temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 4 lks. N. of cor. of secs. 8, 9, 16, and 17.
	Thence
	N. 89° 54' W., on a true line bet. secs. 8 and 17.
	Over rough broken land, through very scattering juniper timber and sagebrush undergrowth; descend abruptly.
5.00	Ravine, 100 ft. below cor., drains NE.; ascend abruptly.
15.00	Spur, 100 ft. above ravine, projects N. 35° E.; descend.
25.50	Wash, 60 ft. below spur, drains N. 30° E.; ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 8 / S 17 1916
	and raise a mound of stone, 2 ft. base, 1½ ft. high,

chains	
	N. of cor. Cor. stands 50 ft. above wash.
50.00	Spur, 20 ft. above cor., projects N.; descend gradually.
68.00	Wash, 30 ft. below spur, drains N.; ascend.
80.00	The cor. of secs. 7, 8, 17, and 18.
	Land, rough and broken mesa.
	Soil; red, light sandy loam. Much sandstone outcropping.
	Timber, few scattering junipers.
	Undergrowth, sagebrush.
	Fair grazing.

	N. 89° 58' W., on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
97.85	Intersect W. bdy. of Tp., 25 lks. S. of cor. of secs. 7, 12, 13, and 18, heretofore described.
	Thence
	S. 89° 49' E., on a true line bet. secs. 7 and 18.
	Over rolling mesa land, through very scattering juniper timber and sagebrush undergrowth; ascend gradually.
24.85	Descend over sandstone ledge, 50 ft. high, bears N. 30° E. and S. 30° W.
25.85	Foot of ledge, bears same, continue to descend gradually.
44.00	Swale, drains N. 30° E.; ascend gradually.
57.85	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 7 / S 18 / 1916
	No bearing trees available, pits impracticable.
	Cor. stands 20 ft. above swale.

chains	
62.00	Spur, 10 ft. above cor., projects NE.; descend gradually.
67.85	Wash, 20 ft. below spur, drains N.30°E.; ascend gradually.
81.00	Spur, 30 ft. above wash, projects N. 30° E.; descend.
97.85	The cor. of secs. 7, 8, 17, and 18, 20 ft. below spur.
	Land, rolling mesa.
	Soil; red, light sandy loam. Some sandstone outcrops.
	Timber, few scattering junipers.
	Undergrowth, sagebrush.
	Fair grazing.
	---------- ------
	N. 0° 3' W., bet. secs. 7 and 8.
	Over rolling and broken mesa land, through very scattering juniper timber and sagebrush undergrowth; descend gradually.
33.00	Swale, 50 ft. below cor., drains N. 30° E.; ascend gradually.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$
	S 7 | S 8
	1916
	and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Cor. stands 10 ft. above swale.
69.00	Spur, 30 ft. above cor., projects NE.; descend gradually.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground to solid rock, surrounded by a mound of stone, for cor. of secs. 5, 6, 7, and 8, with brass, cap marked

chains

T. 24 S. R. 19 E.

S. 6	S. 5
S. 7	S. 8

1916

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Cor. stands 70 ft. below spur.

Land, rolling and broken mesa.

Soil; red, light sandy loam.

Timber, few scattering scrubby junipers.

Undergrowth, sagebrush.

Fair grazing.

S. 89° 54' E., on a random line bet. secs. 5 and 8.

40.00 Set temp. ¼ sec. cor.

79.74 Intersect N. and S. line, 16 lks. N. of cor. of secs. 4, 5, 8, and 9.

Thence

N. 89° 47' W., on a true line bet. secs. 5 and 8.

Over rough broken mesa land, through very scattering juniper timber and sagebrush undergrowth; descend.

.85 Gulch, drains N.; ascend.

15.00 Spur, 90 ft. above gulch, projects N.; descend.

22.00 Draw, 70 ft. below spur, drains N.; ascend.

29.50 Sandstone spur, 75 ft. above draw, projects N.; descend abruptly.

34.00 Ravine, 120 ft. below spur, drains N. to NE.; ascend abruptly.

38.00 Top of steep ascent, 120 ft. above ravine, thence over rolling mesa.

39.87 Set an iron post, 3 ft. long, 1 in. in dia., on solid rock, surroumded by a mound of stone, for ¼ sec. cor., with brass cap marked

¼ S. 5 / S. 8

1916

chains	
	and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
71.00	West rim of mesa, bears N. and S.; descend over large sandstone boulders.
79.74	The cor. of secs. 5, 6, 7, and 8, 70 ft. below mesa.
	Land; rolling, rough, and broken mesa.
	Soil; shallow, stony, sandy loam. Much sandstone outcropping.
	Timber, few scattering scrubby junipers.
	Undergrowth, sagebrush.

	N. 89° 49' W., on a random line bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
97.71	Intersect W. bdy. of Tp., 17 lks. N. of cor. of secs. 1, 6, 7, and 12, heretofore described.
	Thence
	S. 89° 55' E., on a true line bet. secs. 6 and 7.
	Over rolling and broken mesa land, through scattering juniper timber and sagebrush undergrowth.
11.00	Descend steep and rocky SE. slope.
16.70	Gulch, 100 ft. below cor., drains N. 30° E.; ascend.
28.50	Spur, 110 ft. above gulch, projects N. Thence over succesion of ravines and spurs, draining and projecting N.
57.71	Set an iron post, 3 ft. long, 1 in. in dia., on solid sandstone, surrounded by a mound of stone, for ¼ sec. cor., with brass cap marked ¼ S 6 / S 7 1916 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
68. 30	Enter level land, bears NW. and S.
87.20	Leave level land, bears N. 40° E. and S. 40° W.; ascend

chains

over broken sandstone.

92.00 Sandstone spur, 100 ft. above level land, projects N.; descend gradually.

97.71 The cor. of secs. 5, 6, 7, and 8, 20 ft. below spur.

Land, rolling and broken.

Soil; shallow, stony, sandy loam.

Timber, few scattering scrubby junipers.

Undergrowth, sagebrush.

Poor grazing. Much sandstone outcropping.

N. 0° 3' W., on a random line bet. secs. 5 and 6.

40.00 Set temp. ¼ sec. cor.

79.54 Intersect N. bdy. of Tp., 22 lks. E. of cor. of secs. 5 and 6.

Thence

S. 0° 13' E., on a true line bet. secs. 5 and 6.

Over rolling and broken mesa land, through scattering scrubby juniper timber; ascend.

25.50 Spur, projects NE.; descend.

34.80 Swale, 60 ft. below spur, drains NE.; ascend gradually.

39.54 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼

S 6 | S 5

1916

from which

A juniper, 12 ins. in dia., bears S. 33½° E., 232 lks., marked ¼ S 5 B T

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Cor. stands 10 ft. above swale.

79.54 The cor. of secs. 5, 6, 7, and 8, 50 ft. above ¼ sec. cor.

Land, rolling and broken mesa.

Soil; red, light sandy loam. Much sandstone outcropping.

Timber, few scattering scrubby junipers.

Undergrowth, sagebrush.

Poor grazing.

Latitudes, Departures, and Closing Errors.

Line designated	Course	Distance Chs.	Latitudes N. Chs.	Latitudes S. Chs.	Departures E. Chs.	Departures W. Chs.
East Bdy.	North.	480.14	480.14			
North Bdy.						
" "	N.89°57'W.	160.00	.14			160.00
" "	N.89°55'W.	40.15	0.06			40.15
" "	S.89°58'W.	40.15		0.02		40.15
" "	S.89°55'W.	80.07		0.12		80.07
" "	N.89°56'W.	40.12	0.05			40.12
" "	N.89°58'W.	40.10	0.02			40.10
" "	S.89°57'W.	40.11		0.04		40.11
" "	West.	56.27				56.27
West Bdy.	South.	479.30		479.30		
South Bdy.	East.	498.02			498.02	
Convergency						0.59
Totals			480.41	479.48	498.02	497.56
			479.48		497.56	
Error in lat			0.93			
Error in dep						0.46

GENERAL DESCRIPTION

The land embraced in this township lies at an elevation of between five and six thousand feet and may be roughly divided into two general classes by a line drawn from the cor. of secs. 4 and 5, on the N. bdy., to

the cor. of secs. 19, 24, 25, and 30, on the E. bdy.

The northeast portion of the township is of volcanic origin and the rock, of which there is a considerable amount outcropping and strewn over the surface near the junction of the formations, is mostly a close-grained quartzite. The surface of this part is level and gently rolling to heavily rolling and broken on the southwest edge. The soil is a gray sandy loam, mixed in places with washed and windblown material from the sandstone region to the southwest. There are a few cottonwoods scattered along the washes and a very few junipers along the southwest edge, elsewhere the Tp. is treeless. The undergrowth is rather low and scattering and consists of shadscale, salt brush, greasewood, sagebrush, and other undetermined varieties. There is very little grass on the Tp. at present, probably on account of over-grazing.

The southwest portion of the township is the typical sandstone mesa and canyon formation of this region. The surface varies from gently rolling valleys and mesa tops to the nearly perpendicular cliffs which rim the mesas. The sandstone strata are nearly horizontal and, in most of the surveyed area, much dissected and erroded, several square miles of absolutely barren outcrop occurring. The soil of this region is a red or reddish yellow light sandy loam which drifts rather readily with the wind. There is scattering juniper timber over most of this part of the township. The undergrowth is principally sagebrush and is rather scant. Where the soil is not too shallow the grazing is very good but is not readily available on account of the scarcity of water.

Most of the water in the township occurs in the volcanic formation or near the line joining the formations. There is a fine spring, or rather a group of them, in the SE. $\frac{1}{4}$ of sec. 10, known as Brink Spring which furnishes water for large numbers of cattle and

sheep. There is a small spring in the SW. ¼ sec. 14, also flowing water in Bartlett Wash in secs. 14 and 23, and in two other washes in secs. 13 and 24. It is unlikely that there is much water in the washes in summer. A notable phenomenon is the occurrence, on the high mesa in sec. 23, of many large natural cisterns in the sandstone containing thousands of gallons of rain water. Unfortunately, on account of their extreme inaccessibility, these cisterns are of no value for stock water. All the water in the township is of good quality, free from alkali. The water from Brink Spring is noted throughout this region as being especially pure and good.

There is some manganese ore occuring in secs. 29 and 30 which has been prospected a little but is not being worked at present. No other mineral indications were noted in the township.

The township is utilized as winter range for sheep and year round range for cattle.

There are no settlers in the township.

It is very unlikely that any of the township will be of value for farming as the soils are too light and pervious for successful dry farming and there is no water available for irrigation.

Sources of Water Supply in T. 24 S., R. 19 E.

Sec. 10	SW ¼ SE¼	Developed springs.
Sec. 14	NW¼ SW¼	Undeveloped spring.
Sec. 14	SE¼ SW¼	Undeveloped springs and seepage in Bartlett Wash.
Sec. 23	NE¼ NW¼	Undeveloped springs and seepage in Bartlett Wash.
Sec. 13	SW¼ SE¼	Seepage along wash.
Sec. 24	NW¼ NE¼, NE¼ NW¼	Undeveloped springs and seepage along wash.
Sec. 24	SE¼ NE¼	Running water along wash, largest source in township.

Thos. W. Calhoun
U.S. Surveyor.

Blank

Page

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities ited opposite our several signatures, in surveying all those parts or portions of .....

.....

.....

.....

.....

.....

.....

.....

the ..... Meridian, in the State of .....

hich are represented in the foregoing field notes as having been executed by him, and under his direc-on; and that said survey has been, in all respects, to the best of our knowledge and belief, well and ithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

.....

U. S. Surveyor.

CERTIRICATE ~~FINAL OATH~~ OF UNITED STATES ~~SURVEYOR~~ TRANSITMAN.

I, Howard G. Mason, Transitman certify on honor, U. S. ~~Surveyor~~, do ~~solemnly swear~~ that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the eighteenth day of January, 1916, 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~~ resurveyed all those parts or portions of the North Boundary of T. 24 S., R. 19 E.; and surveyed all those parts or portions of the South and East Boundaries and the Subdivisions of T. 24 S., R. 19 E.;

of the Salt Lake Base and ____ Meridian, in the State of Utah, which are represented on the foregoing field ~~notes~~ and index diagram on page 1 of same and on dates shown on said diagram, as having been executed by me, and under my direction, and I do further ~~solemnly swear~~ certify on honor 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 U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Howard G. Mason

~~U. S. Surveyor.~~

U. S. Transitman.

~~Subscribed by said _____, and sworn to before me this _____ day of _____, 191~~

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

_____, 191

The foregoing field notes of the survey of _____

executed by _____

under his special instructions dated _____, 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

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. Surveyor General.

C—2701

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities ated opposite our several signatures, in surveying all those parts or portions of .....

.....

.....

.....

.....

.....

.....

f the ..... Meridian, in the State of .....

hich are represented in the foregoing field notes as having been executed by him, and under his direc-on; and that said survey has been, in all respects, to the best of our knowledge and belief, well and ithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

CERTIFICATE

~~FINAL OATH~~ OF UNITED STATES SURVEYOR.

I, Thos. C. Rathbone, U. S. Surveyor, do ~~solemnly swear~~ certify on honor that, in pursua
of special instructions received from the U. S. Surveyor-General for Utah
bearing date of the eighteenth day of January, 1916, I have well, faithfully, and tr
in my own proper person, and in strict conformity with said instructions, the Manual of Survey
Instructions, and the laws of the United States, ~~surveyed~~ resurveyed all those parts or portions of the North
Boundary of T. 24 S., R. 19 E.; and surveyed all those parts or
portions of the South and East Boundaries and the Subdivisions of
T. 24 S., R. 19 E.,

of the Salt Lake
Base and Meridian, in the State of Utah, which are represented
and index diagram on page 1 of same and on dates shown on said diagra
the foregoing field notes as having been executed by me, and under my direction; and I do furth
~~solemnly swear~~ certify on honor that all the corners of said survey have been established and perpetuated in strict acco
ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Survey
General for Utah and in the specific manner described in the field notes, and th
the foregoing are the original field notes of such survey.

Thos. C. Rathbone
U. S. Surveyor.

~~Subscribed by said~~ ~~, and sworn to before me~~
~~this~~ ~~day of~~ ~~, 191~~

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Sept. 28, 1917.

The foregoing field notes of the ~~survey of~~ resurvey of part of the north bound
ary and survey of the south and east boundaries and subdivision of
Township No. 24 South, Range No. 19 East of the Salt Lake Base and
Meridian, Utah

executed by Thos. C. Rathbone and Howard G. Mason
under ~~his~~ special instructions dated January 18, 1916, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
resurveys and surveys they describe, are hereby approved.

U. S. Surveyor General.

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.

6—2761

U. S. Surveyor General.

Blank

Page

Blank

Page

4—679

U. S. Surveyor General's Office
3 1917
SALT LAKE CITY, UTAH.

C.

FIELD NOTES

RESURVEY

OF THE ~~SURVEY~~ OF THE

NORTH, EAST AND WEST BOUNDARIES,

AND THE SURVEY OF THE SUBDIVISIONS OF

T. 30 S., R. 21 E.,

Of the SALT LAKE BASE AND ____ *Meridian,*

in the State of UTAH

EXECUTED BY

Thos. C. Rathbone and

Howard G. Mason,

and Transitman

in the capacity of U. S. Surveyor, under instructions dated Feb. 3, ____, *1916,*

issued by the United States Surveyor General to govern surveys included in Group No. 53, *which were approved by the Commissioner of the General Land Office,* February 17, *1916;* and under Assignment Instructions issued by the Asst. Supervisor of Surveys, dated July 1, 1916.

Survey commenced October 11, ____, *1916*

Survey completed October 25, ____, *1916*

6—151

Examinations Classified

A Plat: C.B.H. Notes: C.B.H.&K.F.B.

B Computations: C.B.H.

Comparing

C Plat: V.I.F. Notes: K.F.B.

INDEX DIAGRAM.

Township 30 South, *Range* 21 East, S. L. B. & M.

16 23 6 72	14 73 5 70	55 4 55	13 44 3 43	33 2	25 1
22 7 68	69 8 67	54 9 53	42 10	11	12
21 18 65	66 17 64	52 16 51	41 15 40	14	13
20 19 62	63 20 61	50 21 49	39 22 38	32 23 30	24
19 30 59	60 29 58	48 28 47	37 27 36	29 26 28	25
17 31	57 32	46 33	35 34	27 35	36

10 8 7 6 5 3

Names and Positions of Assistants.

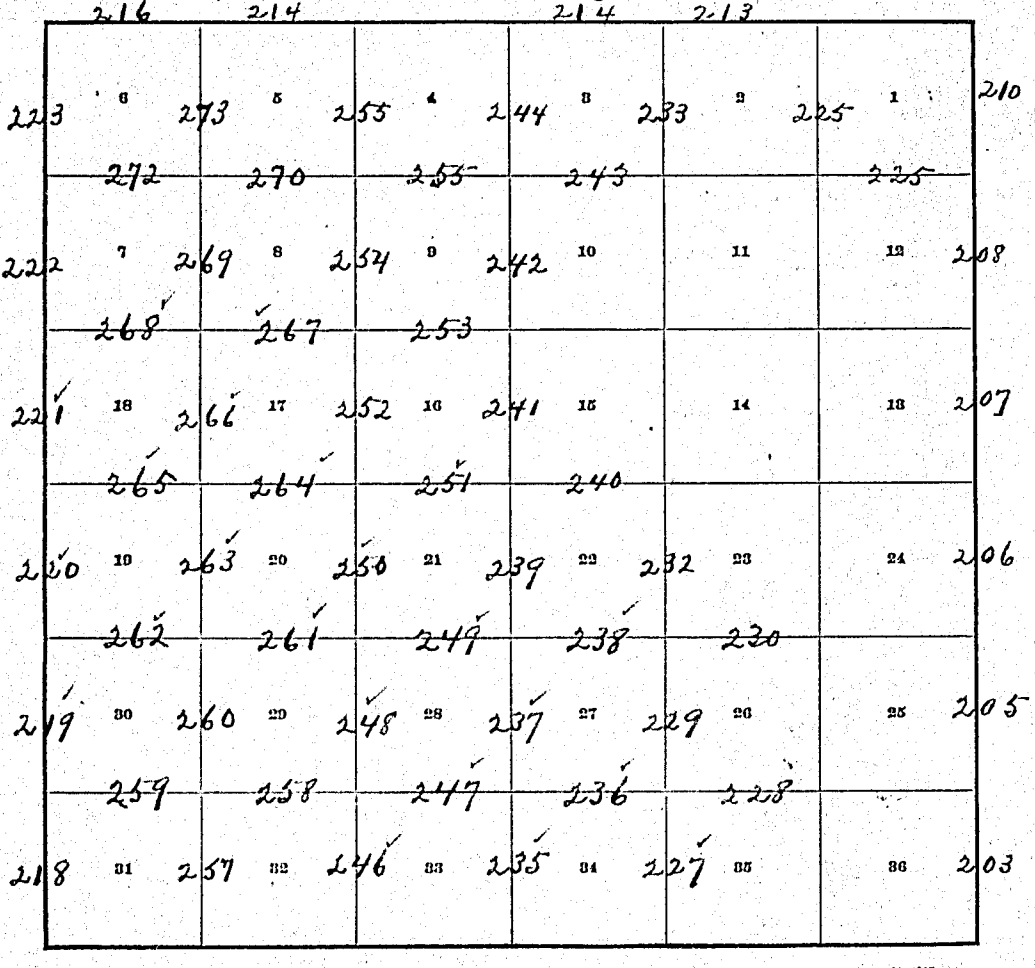
6-151

Barnum B. Packard	1st. Assistant.
Ulrey Dorman	1st. Assistant.
Lynn Phelps	2nd. Asststant.
Eugene Stowell	2nd. Assistant.
Louis Stabler	Flagman
Warren Clark	Flagman
Byron F. Crookston	Cornerman
Homer Johnson	Cornerman
Richard Heldberg	Axeman
La Mar Juhnson	Axeman.

4—679 b

INDEX DIAGRAM.

Township 30 S., Range 21 E

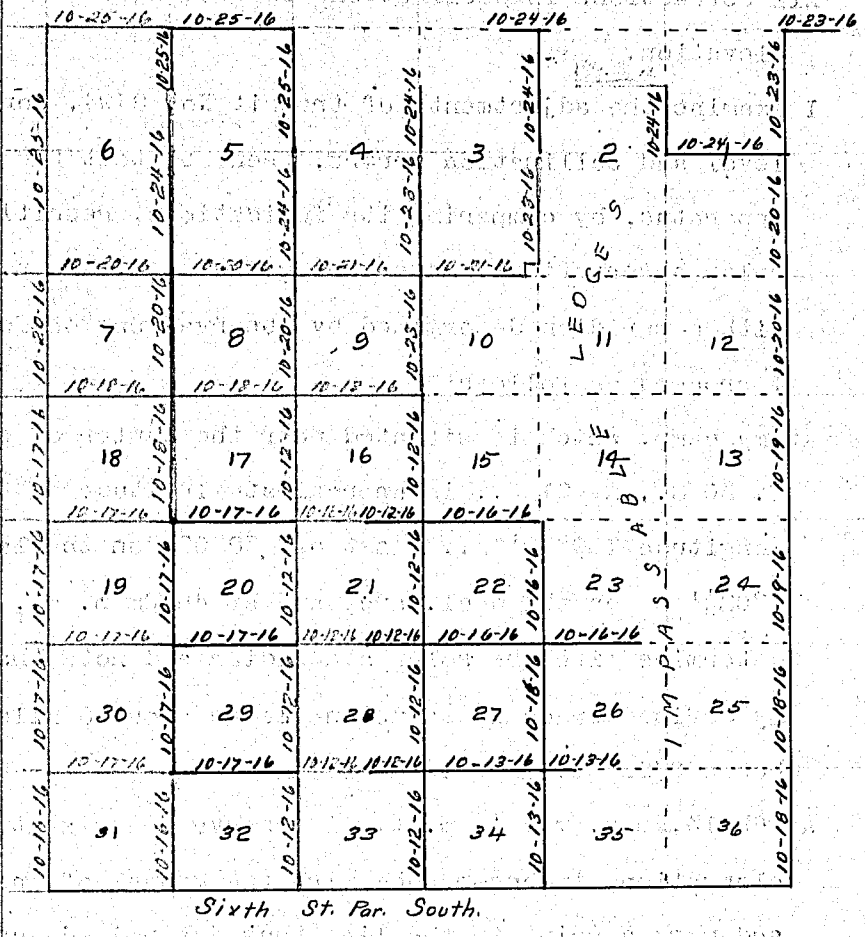


6—4817

Chains

DATE DIAGRAM OF

T 30 S., R. 21 E.



———— Lines colored red surveyed by Thos.C.Rathbone, U. S. Surveyor.

———— Lines colored green surveyed by Howard G. Mason, U.S.Transitman.

Survey commenced October 11, 1916, and executed with Young and Sons light mountain transits Nos. 8494and 8487, provided with Smith solar attachments. The horizontal limb of both transits is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were approved for use on this survey by the Asst. Supervisor of Surveys, conditional on satisfactory field tests.

Five-chain steel tapes and clinometers were used in making all measurements, the tapes being frequently tested by

Resurvey of the East Boundary of T. 30 S., R. 21 E.

Chains

comparison with a standard one-chain steel tape kept for this purpose exclusively.

All refractions in declinations corrected for 5000 ft. elevation.

I examine the adjustments of transit No. 8494, correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications, resulting from solar observations, made during the a. m. and p. m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At my camp, which is situated near the center of sec. 33, T. 30 S., R. 21 E., in approximate latitude 38°09'N., longitude 109°39' W., I set off 38°09' on the lat. arc; 7°08½' S. on the decl. arc, and at 4h 0m p. m., l. m. t. determine with the solar a meridian and note that a sharly defined crack in sandstone ledge about 8 miles dist. bears 0°22' E. of this meridian.

At 6h 13.5m p. m., l. m. t., I observe polaris at eastern elongation, in accordance with the Manual of Instruction and mark a point in the line thus determined, on a peg, driven in the ground, about 20 chs. north of my station.

October 12: At 6:30 a.m., I lay off the azimuth of Polaris, 1°26½' to the west, and note that the meridian thus determined falls 22' W. of the crack in ledge before described, thus giving the bearing of this crack N. 0°22' E.

At 7h 30m a. m., l. m. t., I set off 38°09' on the lat. arc; 7°23' S. on the decl. arc, from the meridian thus determined the crack in ledge before noted bears 0°22' to the east: I therefore conclude that the adjustments of the instrument are satisfactory.

On account of a faulty compass needle, the mag. decl. was not determined.

Thos. A. Gallison

U. S. Surveyor.

I examine the adjustments of transit No. 8487, find them correct, then to test the solar apparatus, by comparing

Chains

its indications, resulting from solar observations, made during the a. m. and p. m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

Oct. 11: At 4h 00m p. m., l. m. t., I place my transit beside Mr. Rathbone's instrument, and with same setting of lat. and. decl. arcs. used by him, determine a meridian with the solar; from this meridian the crack in ledge used as a reference point by Mr. Rathbone bears 21½' to the east. On account of the great distance to this point, the small offset between the two transits will not make an appreciable difference in the bearing of this point.

Oct. 12: At 7h 30m a. m., l. m. t., with my transit in the same position, and with same setting of lat. and decl. arcs, used by Mr. Rathbone, determine a meridian with the solar, and find that the bearing of the crack is 0°22' E. from this meridian. I therefore conclude that the adjustments of the instrument are satisfactory. On account of defective needle, no observation was made to determine the mag. decl.

Howard Ellison
U. S. Transitman.

Both transits continued good performance throughout survey.

From the St. cor. of Ts. 30 S., Rs. 21 and 22 E., which is an iron post, 3 ins. dia., extending 12 ins. above a solid mound of stone, with brass cap mkd. and witnessed as described by the surveyor general,

North, resurveying, bet. secs. 31 and 36.

Note: From other connections made on the Colorado Guide Meridian through T. 21 S., it is known that the projection of this line north will not fall within limits on the cor. of Ts. 29 and 30 S., Rs. 21 and 22 E.

Over mountainous top of mesa, asc. through pinon and ju-

Chains

niper timber, and sage undergrowth.

10.00 Ridge, 20 ft. above the St. cor., bears NE. and SW., desc.

14.00 Old trail, bears NW. and SE.

28.00 Enter service berry undergrowth, bears NW. and SE., timber becomes heavier, and land more rocky, bears same.

40.00 After diligent search, no trace of the old ¼ sec. cor. can be found.

On NW. slope, 50 ft. below ridge,

Set a sandstone, 15 x 12 x 4 ins., 10 ins. in the ground, for ¼ sec. cor., marked ¼ S 31 on east face and S 36 on west face, from which

A pinon, 14 ins. dia., bears N. 57° E., 25 lks. dist., mkd. ¼, S 31 BT.

A juniper, 12 ins. dia., bears S. 26½° W., 42 lks. dist., mkd. ¼ S 36 BT.

No iron post available for the cor.

57.00 Canyon, 200 ft. below ¼ sec. cor., drains NE., asc.

64.00 Spur, 50 ft. above canyon, projects N. 80° E., desc.

80.00 On N. slope, 105 ft. below spur,

No trace of the old cor. of secs. 25, 30, 31 and 36 can be found.

Set a sandstone 15 x 12 x 6 ins. 10 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, mkd. with 5 notches on N. and 1 notch on S. edge; from which

A pinon 7 ins. dia., bears N. 15° E., 40 lks. dist., mkd. T 30 S R 22 E S 30 BT

A pinon, 9 ins. dia., bears S. 42° E., 46 lks. dist., mkd. T 30 S R 22 E S 31 BT

A pinon, 12 ins. dia., bears S. 80° W., 58 lks. dist., mkd. T 30 S R 21 E S 36 BT

A pinon, 8 ins. dia., bears N. 40° W., 40 lks. dist., mkd. T 30 S R 21 E S 25 BT.

No iron post available for this cor.

Land, mountainous top of high mesa, general NE. drainage.

Soil, S. 20 chs. light yellow sandy loam, 2 ft. or more

Resurvey of the East Boundary of T. 30 S., R. 21 E.

Chains	
	deep; remainder loose sand and broken sandstone, and sandstone outcroppings.
	Timber, pinon and juniper.
	Undergrowth, sage and service.
	North, resurveying bet. secs. 25 and 30.
	Overrough and broken mountainous top of high mesa, desc. through pinon and juniper timber and scattered sage and service brush undergrowth.
3.50	Box canyon, 200 ft. below the cor., drains E. asc.
26.00	Spur, 380 ft. above the canyon, projects E., desc. gradually.
40.00	On N. slope, 120 ft below spur,
	No trace of the old ¼ sec. cor. found after good search.
	Set a sandstone 16 x 10 x 5 ins., 10 ins. in the ground, for ¼ sec. cor., with ¼ S 30 mkd. on E. face and S. 25 on W. face, from which
	A juniper, 9 ins. dia., bears S. 47° E., 51 lks. dist., mkd. ¼ S 30 BT
	A pinon, 12 ins. dia., bears S 50° W., 53 lks. dist., mkd. ¼ S 25 BT.
	No iron post, available for this cor.
63.70	Gulch, 75 ft. below the ¼ sec. cor., drains NE., becoming a deep box canyon 1 ch. NE. of line. Asc. abruptly.
80.00	On SE. slope, 120 ft., above the gulch,
	Set a sandstone 12 x 10 x 10 ins., 8 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 19, 24, 25 and 30, mkd. with 4 notches on N. edge and 2 notches on S. edge, from which
	A juniper, 9 ins. dia., bears N. 85° E., 59 lks. dist., mkd. T 30 S R 22 E S 19 BT
	A pinon, 8 ins. dia., bears S. 50° E., 142 lks. dist., mkd. T 30 S R 22 E S 30 BT
	A pinon, 6 ins. dia., bears S. 7° W., 96 lks. dist., mkd. T 30 S R 21 E S 25 BT.

Resurvey of the East Boundary of T. 30 S., R. 21 E.

Chains	
	A juniper, 8 ins. dia., bears N. 10° W., 694 lks dist., mkd T. 30 S R 21 E S 24 BT.
	No iron post, available for this cor.
	After diligent search, no trace of the old cor. can be found.
	Land, rough and mountainous top of high mesa, general east drainage.
	Soil, loose sand and broken sandstone, and sandstone ledges.
	Timber, pinon and juniper,
	Undergrowth, scattered sage and service brush.
	North, resurveying bet. secs. 19 and 24.
	Over rough and broken mountainous mesa land, through cedar and pinon timber, and scattered sage and service undergrowth.
40.00	On N. slope, 20 ft. below the sec. cor.,
	Set a sandstone, 20 x 15 x 4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., with $\frac{1}{4}$ S 19 mkd. on E. face and S 24 on W. face, from which
	A juniper, 8 ins. dia., bears S. 75° E., 42 lks. dist., mkd. $\frac{1}{4}$ S 19 BT.
	A pinon, 10 ins. dia., bears N. 55° W., 46 lks. dist., mkd. $\frac{1}{4}$ S 24 BT
	No iron post, available for this cor.
	No trace of the old $\frac{1}{4}$ sec. cor. found.
54.00	Box canyon, 200 ft. below the $\frac{1}{4}$ sec. cor., drains E., asc. abruptly.
69.00	Sandstone spur, 210 ft. above the canyon, projects E., desc.
72.00	Gulch, 40 ft. below spur, drains E., asc. abruptly.
74.00	Top of abrupt asc., bears E. and W., asc. gradually.
80.00	On S. slope, 25 ft. above gulch,
	Set a sandstone, 20 x 14 x 5 ins., 15 ins. in the ground,

Chains	
	for the cor. of secs. 13, 18, 19 and 24, mkd with 3 notches on N. and 3 notches on S. edge, from which
	A juniper, 10 ins. dia., bears N. 51½° E., 37 lks. dist., mkd. T 30 S R 22 E S 18 BT
	A pinon, 12 ins. dia., bears S. 42° E., 81 lks. dist., mkd. T 30 S R 22 E S 19 BT
	A pinon, 9 ins. dia., bears S 30½° W., 98 lks. dist., mkd. T 30 S R 21 E S 24 BT
	A juniper, 9 ins. dia., bears N. 18½° W., 67 lks. dist., mkd. T 30 S R 21 E S 13 BT.
	No trace of the old cor. found.
	No iron post, availabbe for this cor.
	Land, rough and broken mesa top, general E drainage
	Soil, loose sandy loam, sandrock and sandstone outcroppings, shallow.
	Timber, scattered pinon and juniper.
	Undergrowth, scattered sage and service.

	North, resurveying, bet. secs. 13 and 18.
	Over rough and broken mountainous top of mesa, asc. through pinon and juniper timber, andscattered sage and service undergrowth.
20.00	Spur, 40 ft. above the sec. cor., projectsE., leave service bears E. and W.
39.00	Wash, 10 lks. wide, 4 ft. deep, 50 ft. below spur, drains N. 80° E., asc.
40.00	On S. slope, 5 ft. above the wash,
	Set a sandstone, 28 x 14 x 5 ins., 21 ins. in the ground, for ¼ sec. cor., with ¼ S 18 mkd. on E. and S. 13 on W. face, from which
	A pinon, 7 ins. in dia., bears S. 40° E., 52 lks. dist., mkd. ¼ S 18 BT
	A pinon, 8 ins. dia., bears S. 30° W., 22 lks. dist., mkd. ¼ S 13 BT.

Resurvey of the East Bdy. of T. 30 S., R. 21 E.

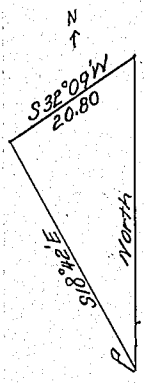
Chains	
	No trace of the old $\frac{1}{4}$ sec. cor. found,
	No iron post, available for this cor.
48.75	Point of sandstone spur, 20 ft. above the $\frac{1}{4}$ sec. cor., projects E., desc. to rim of mesa, over smooth sandstone
80.00	On smooth sandstone ledge at rim of mesa, bears NE. and SW.,
	Set a sandstone, 35 x 10 x 5 ins., 28 ins. in a mound of stone, 5 ft. base, for the cor. of secs. 7, 12, 13 and 18, mkd. with 2 notches on N. and 4 notches on S edge, from which
	A pinon, 8 ins. dia., bears N. 20° E., 35 lks. dist., mkd T 30 S R 22 E S 7 BT
	A pinon, 10 ins. dia., bears S. 65° E., 76 lks. dist., mkd. T 30 S R 22 E S 18 BT
	A juniper, 7 ins. dia., bears S. 35° W., 21 lks. dist., mkd. T 30 S R 21 E S 13 BT
	A pinon, 5 ins. dia., bears N. 50° W., 62 lks. dist., mkd. T 30 S R 21 E S 12 BT.
	No trace of the old cor. can be found.
	Impracticable to get an iron post, to this cor.
	Land, rough and broken mountainous top of high mesa, general E. drainage.
	Soil loose sand and broken sandstone, and sandstone outcroppings.
	Timber, pinon and juniper,
	Undergrowth, scattered sage.
	North, resurveying, bet. secs. 7 and 12.
	Over rough and broken land, top of high mesa, desc. to rim through scattered pinon and juniper timber and sage undergrowth.
1.04	To the rim of mesa, bears NE. and SW.; from here the line descends abruptly over vertical sandstone ledges impossible to chain. To determine the distance to bottom, I

Resurvey of East Bdy. of T. 30 S., R. 21 E.

Chains

proceed as follows:

Set a point on line on N. side of bottom of canyon, and there being no suitable place on top of rim to measure a base, proceed to point in bottom and leave a flag at 1.04 ch. point on top. From the point set in bottom, measure a base, S. 32°09' W., 20.80 chs. dist., to a point from which the flag on top of ledge bears S. 18° 42' E. The dist. is therefore



$$\frac{\text{base} \times \sin 123°09'}{\sin 18°42'} = \frac{20.80 \times 0.7755}{0.3206} = 50.31 \text{ chs.},$$

which added to 1.04 makes 51.35 chs.

20.00 Wash in box canyon, 30 lks. wide, 5 ft. deep, drains NE., 210 ft. below rim. Asc. over broken rocks.

40.00 On steep SE. slope, 60 ft. above wash,

Set an iron post, 3 ft. long, 1 in. dia., on sandstone ledge, in a mound of stone, 5 ft. base, 2½ ft. high, with a cross (X) mkd. on exact point on ledge, for ¼ sec. cor., with brass cap mkd.

¼

S 12 | S 7

1916

from which

A juniper, 10 ins. dia., bears N. 28°W., 34 lks. dist., mkd. ¼ S 12 BT

A juniper, 7 ins. dia., bears S. 47° E., 58 lks. dist., mkd. ¼ S 7 BT.

No trace of the old ¼ sec. cor. can be found.

41.70 From this point, a small spring of good water, in a clump of cottonwood trees, bears N. 65¾° W.

51.35 Triangulation point , 810 ft. below point on rim. From this point the spring bears S. 42¾° W.

The line on north from this point takes over a spur of high mesa, with vertical walls 400 ft. high, over which it is impossible to chain.

Set a sandstone, 15 x 8 x 8 ins., 10 ins. in a mound of

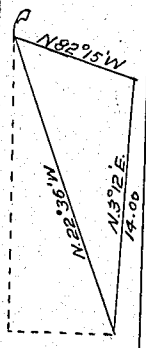
Resurvey of the East Bdy. of T. 30 S., R. 21 E.

Chains	
	stone, 3 ft. base, for witness point, mkd. WP on W. face and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. No suitable bearing trees within limits.
	To pass the spur, I offset as follows:
	East 11.27 chs.
	North 28.65 chs. to
80.00	On offset line, 11.27 chs. E. of true point for cor. On account of impassable sandstone spur it is impossible to set cor. at true point.
	Set a sandstone, 18 x 10 x 4 ins., 12 ins. in a mound of stone, 3 ft. base, for witness cor. to the cor. of secs. 1, 6, 7 and 12, mkd. with 1 notch on N. and 5 notches on S. edge, and WC on NE face, and raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	No suitable bearing trees within limits.
	No iron post available for this cor.
	No trace of the old cor. found after diligent search along line as far as accessible. The actual topography along the line is at great variance with the returned topography.
	Land, very rough and broken mountainous, sandstone rim-rock, general NE. drainage.
	Soil, loose sand, sandstone boulders, and outcroppings.
	Undergrowth, scattered sage.
	Timber, scattered pinon and juniper.
	North, on offset line, through sec. 6.
	Over rough mountainous land, huge boulders, asc. through a few scattered pinons and junipers, and scattered sage.
1.00	Leave sage and enter greasewood and shadscale undergrowth.
7.50	Spur, 130 ft. above the witness cor., projects N. 70° E. desc.
26.00	Foot of steep desc., bears E. and W., desc. gradually.
26.69	Offset 11.27 chs. west to true line,

Chains	
	Set a sandstone, 17 x 7 x 6 ins. 12 ins. in the ground, for witness point, mkd. with WP on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	No suitable bearing trees within limits.
	No iron post, available for this cor.
	Thence, north on true line.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 1 | S 6 1916
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	No suitable bearing trees within limits.
	After diligent search, no trace of the old $\frac{1}{4}$ sec. cor. was found.
54.20	Hart Draw, wash, 300 lks. wide, 10 ft. deep, small stream of alkaline water in bottom, 3 lks. wide, 1 in. deep, course N. 50° W., 380 ft. below spur. Asc. gradually over bottom of Hart Draw.
78.30	Leave bottom land, bears E. and W., asc. abruptly over broken sandstone boulders.
80.00	At foot of more abrupt ascent over sandstone ledges, impossible to chain, bears E. and W.
	Set an iron post 3 ft. long, 1 in. dia., 24 ins. in a mound of stone, 4 ft. base, $2\frac{1}{2}$ ft. high, for witness point, with brass cap mkd.
	W P S 1 | S 6 1916
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W of cor.
	No suitable bearing trees within limits.
	No trace of the old cor. set By D.S.Buettner in 1844 found.

Resurvey of the East Boundary of T. 30 S., R. 21 E.

Chains



From here north the line takes over a series of sandstone ledges and a vertical rim, over which it is impossible to chain. To pass this obstacle, I offset as follows:

East, 20.00 Chs.

North 26.50 chs.

East 12.20 chs.

North 21.80 chs.

East 15.27 chs. Thence, from this point, set a flag on top of red ledge, N. 22° 36' W., then lay off a base, N. 3°12' E., 14.00 chs. dist., to a point from which the flag on top of ledge bears N. 82° 15' W. From the flag on rim, the north end of the base bears S. 82° 15' E., and the south end of the base bears S. 22°36'E. The westing from the south end of the base to flag on rim is therefore

$$\frac{\text{base} \times \sin 94°33' \times \sin 22°36'}{\sin 59°39'} = \frac{14.00 \times .99685 \times .3843}{.86295}$$

= 6.21 chs. The northing between the same points is therefore

$$\frac{\text{base} \times \sin 94°33' \times \cos 22°36'}{\sin 59°39'} = \frac{14.00 \times .99685 \times .92321}{.86295}$$

=14.93 chs.

143.23 To flag on rim, 41.26 chs. east of true line. On account of white sandstone ledges it is impossible to regain the line.

Thence over bare sandstone ledges on broken top of high mesa, 1110 ft. above the 80.00 ch. point.

154.00 To impassable white sandstone butte. Offset as follows:

East, 2.10 chs., thence

North, 7.20 chs., "

West, 4.62 chs. to

161.20 The old cor. of Ts. 29 and 30 S., Rs. 21 and 22 E., as set by D.S.Page, in 1902, which is a sandstone, 8 x 8 ins., extending 6 ins. above a mound of stone, firmly set, and mkd. and witnessed as described by the surveyor general.

Chains

I destroy all marks of the cor. that pertain to T. 30 S., and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. This cor. will hereafter refer to T. 29 S., Rs. 21 and 22 E. only.

As the land to the west is broken with sandstone ledges, buttes, and huge, smooth sandstone knobs, which are practically unsurveyable, and being therefore unable to set the closing corner nearer to true point,

Set a sandstone, 15 x 8 x 8 ins., 10 ins. in a mound of stone, beside and to the west of the cor. of T. 29 S., Rs. 21 and 22 E., for witness point to the closing cor. of T. 30 S., Rs. 21 and 22 E., mmkd. CC on S., with 6 grooves on E., W. and S. faces and WP on NE. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of the cor.

The cor. is therefore 38.74 chs. east of the true point for the closing cor.

No iron post available for this cor.,

No bearing trees within limits.

Land, generally rough and broken mountainous, consisting of high sandstone rimrock ledges, huge boulders, and smooth sandstone outcroppings.

Soil, generally loose sand and bare sandrock.

Timber, scattered pinon and juniper.

Undergrowth, scattered sage, and greasewood and shadscale.

RESURVEY OF THE NORTH BOUNDARY OF T. 30 S., R. 21 E.

From the cor. of secs. 2 and 3, hereinafter described, East, resurveying, on N. bdy. sec. 2.

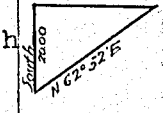
Asc. abruptly from bottom of box canyon, over huge broken boulders, slide rock and sandstone ledges.

1.77 On top of sandstone boulder, 8 ft. high and 5 ft. square, at foot of impassable sandstone cliff about 550 ft. high, mark a cross (X) and WP for witness point, and raise a

Resurvey of the North Bdy. of T. 30 S., R. 21 E.

Chains	
	mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	From the cor. of secs. 2 and 3,
	West, resurveying, on N. bdy. sec. 3.
1.26	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in a mound of stone, 3 ft. base, for ¼ sec. cor. on S. bdy. sec. 34, with brass cap mkd.
	¼ S 34 / 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	In bottom of box canyon, on huge boulder, 50 ft. below the cor. of secs. 2 and 3 drains S.
5.30	Spur, 40 ft. above the ¼ sec. cor., projects SW., desc.
12.20	Gulch, 160 ft. below spur, drains SW., asc.
18.35	On sandstone ledge, at foot of impassable rimrock ledges from high mesa, bear NE. and SW.,
	Mark a cross (X) at exact point and WP, for witness point, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Land, very rough mountainous, sides of box canyon or cove in rim of high mesa, with vertical walls.
	Soil, loose sand and sand rock, and sandstone ledges.
	No timber. No undergrowth.
	From the cor. of secs. 4 and 5, hereinafter described, at west foot of impassable sandstone ledges,
	West, resurveying, on N. bdy. sec. 5.
	Over rough and broken mountainous land, desc. from base of high ledges over series of sandstone ledges, through scattered shadscale undergrowth.
1.26	Set an iron post, 3 ft. long, 1 in. dia., on ledge, in a mound of stone, 4 ft. base, 2½ ft. high, for the ¼ sec. cor. on S. bdy. sec. 32, with brass cap mkd.
	¼ S 32 / 1916

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of the cor.
2.50	Gulch, 75 ft. below sec. cor., drains S., asc. abruptly.
4.00	Spur, 100 ft. above gulch, projects S., desc.
6.00	Gulch, 60 ft. below spur, drains S., asc.
8.20	Spur, 70 ft. above gulch, projects S., desc. abruptly.
10.00	Gulch, 50 ft. below spur, drains S., asc. abruptly.
34.00	Spur, 340 ft. above gulch, projects S. 50° W., desc. abruptly over broken sandstone ledges.
37.78	On NW. side of spur, at top of red sandstone ledges bearing NE. and SW., which are impassable and inaccessible, Set a sandstone, 12 x 9 x 6 ins., 8 ins. in a mound of stone, for witness cor. to ¼ sec. cor. on N. bdy. sec. 5, mkd. ¼ on N. face and S 5 on S. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
	Beside this corner and to the west,
	Set a sandstone, 14 x 10 x 8 ins., 9 ins. in a mound of stone, for witness cor. to the cor. of secs. 31 and 32, marked with 1 notch on W. and 5 notches on E. edge, and with WC on NE. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Impracticable to get iron posts to these cors.
	It being impossible to chain farther, set a point on line at foot of ledges, leave a flag at 37.78 point, and proceed to point at bottom of ledges, from which measure a base, south, 20.00 chs. dist., to a point from which the flag left at 37.78 ch. point bears N.63° 52' E. The dist. is therefore
	base x cot 63°52' = 20.00 x 2.03825 = 40.77, which added to 37.78 makes 78.55 chs.
40.00	Point for ¼ sec. cor. on N. bdy. sec. 5 falls on inaccessible sandstone ledges.
41.26	Point for cor. of secs. 31 and 32 falls on inaccessible sandstone ledges.
78.55	To foot of ledges, 640 ft. below witness cor. to cor. of



Chains

secs. 31 and 32.

Thence desc. over bench land in bottom of Indian Creek valley.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 5 and 6, with brass cap mkd.

T 29 S R 21 E
S 31
S 6 | S 5
T 30 S R 21 E
1916

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

Land, very rough and broken mountainous, broken S. and SE. rim of high mesa, mostly inaccessible.

Soil, loose sand where any; mostly sandstone ledges and outcroppings, and boulders.

Undergrowth, scattered shadscale.

No timber.

West, resurveying, on N. bdy. sec. 6.

Over broken bench land in Indian Cr. Valley, desc. through shadscale undergrowth.

1.26 Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground to solid rock and 16 ins. in a moundof stone, for ¼ sec. cor. on S. bdy. sec. 31, with brass cap mkd.

¼ S 31
1916

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

4.50 Wash, 15 lks. wide, 4 ft. deep, drains S 30°E., asc.

9.50 Low ridge, 55 ft. above wash, bears N. and S., desc.

40.00 On W slope, 85 ft. below ridge,

Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone, 4 ft. base, for ¼ sec. cor. on N. bdy. sec. 6,

Chains

with brass cap mkd. $\frac{1}{4}$ / S 6 / 1916

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

41.26 Set an iron post, 3 ft long, 3 ins. dia., on solid rock and 24 ins. in a mound of stone, 4 ft. base, for the cor. of T. 29 S., Rs. 20 and 21 E., with brass cap mkd.

T 29 S
R 20 E | R 21 E
S 36 | S 31

1916

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

45.00 Desc. over sandstone ledge, 5 ft. high, bears N. and S.

77.00 Wash, 20 lks. wide 2 ft. deep, 125 ft. below $\frac{1}{4}$ sec. cor. for sec. 6, drains S., asc.

79.23 (Allowing for convergency) set temp. point for the cor. of T. 30 S., Rs. 20 and 21 E.

79.24 The cor. of T. 30 S., Rs. 20 and 21 E. is later set at this point.

Land, rough and broken bench, east side of Indian Cr., general S. drainage.

Soil, loose sandy clay loam, rocky, shallow on sandstone subsoil.

Undergrowth, shadscale.

No timber.

Resurvey of the West Boundary of T. 30 S., R. 21 E.

From the St. Cor. of T. 30 S., Rs. 20 and 21 E., which is an iron post, 3 ins. dia., extending 12 ins. above ground, firmly set, with brass cap mkd. and cor. witnessed as described by the surveyor general,

Resurvey of the West Bdy. of T. 30 S., R. 21 E.

Chains	
	North, resurveying, bet. secs. 31 and 36.
	Note: It is known at the commencement of this line that its projection north will not intersect the north bdy. within limits of the cor. of T. 30 S., Rs. 20 and 21 E.
	Over mountainous land, desc. through shadscale undergrowth.
1.10	Wash, 15 ft. below cor., 20 lks. wide, 2 ft deep, drains E., asc.
8.60	Asc. more abruptly, bears N. 40° E. and S. 40° W.
15.60	Spur, 70 ft. above wash, projects E., desc.
23.20	Gulch, 50 ft. below spur, drains S. 80° E., asc.
38.50	Asc. over sandstone ledge, 70 ft. high, bears E. and W.
40.00	Set an iron post. 3 ft. long, 1 in. dia., on solid rock, 26 ins. in a mound of stone, 5 ft. base, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 36 | S 31

1916

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. No trace of the old cor. found.

Stands on S. slope, 195 ft. above gulch.

52.60	Ridge, 245 ft. above $\frac{1}{4}$ sec. cor., bears N. 80° E. and S. 80° W., desc.
59.20	North Six Shooter Peak bears east, 9.00 chs. dist. Desc. over sandstone ledges.
70.50	Desc. over sandstone cliff 100 ft. high, bears E. and S. 60° W.
80.00	On N. slope, 640 ft. below ridge,

Set an iron post, 3 ft. long, 2 ins. dia., on solid sandstone, 26 ins. in a mound of stone, 5 ft. base, for cor. of secs. 25, 30, 31 and 36, with brass cap mkd.

T 30 S

R 20 E | R 21 E

S 25 | S 30

S 36 | S 31

1916

Chains

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

No trace of the old cor. found.

Land, rough and broken mountainous, steep sandstone ledges.

Soil, loose sand, sandstone outcroppings, and loose rock.

Undergrowth, shadscale.

No timber.

Noɒth, resurveying, bet. secs. 25 and 30.

Over rough mountainous land, desc. over rocky N. slope, through shadscale undergrowth.

14.50 Foot of desc. bears N. 40° E. and S. 40° W., 120 ft. below cor., thence enter sandy flat land.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼
S 25 | S 30
1916

dig pits, 18 x 18 x 12 ins. on line N. and S. of post, 3 ft. dist., scatter earth. No trace of old corner.

59.00 Wash, 100 lks. wide, 2 ft. deep, drains N. 40° E.

78.00 Wash, 20 lks. wide, 1 ft. deep, drains E.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 19, 24, 25 and 30, with brass cap mkd.

T 30 S
R 20 E | R 21 E
S 24 | S 19
S 25 | S 30
1916

dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and scatter earth.

No trace of the old cor. found.

Resurvey of the East Bdy. of T. 30 S., R. 21 E.

Chains	
	Land, S. 14.50 chs. mountainous N. slope; remainder nearly level.
	Soil, S. 14.50 chs., rocky and stony; remainder sandy and sandyclay, 2 ft. or more deep.
	Undergrowth, shadscale.
	No timber.
	North, resurveying, bet. secs. 19 and 24.
	Over nearly level land, through shadscale and greasewood.
25.00	Undergrowth. wide, 5 ft. deep, drains
8.00	Leave level land, bears N. 70° E. and S. 70° W., and asc. over samdstone ledges, bear same.
25.10	Top of ledges, bear N. 20° E. and W., 360 ft. above the cor., thence over bench land.
39.00	Leave bench and desc. over sandstone ledges, bears N. 60° W. and S. 60° E.
40.00	On N. slope, 50 ft. below bench,
	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 24 | S 19 1916
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. No trace of old corner.
41.40	Head of gulch, drains E. Asc. to same rim or ledges.
46.00	Rim of bench, 30 ft. above gulch, bears N. 55° E. and S. 55° W., thence along edge of bench.
52.00	Same rim, bears N. 70° W. and S. 70° E., leave bench and desc. over ledges.
64.50	Desc. over ledge 50 ft. high, bears E. and W.
69.90	Foot of steep slope, bears E. and W., 330 ft. below bench, thence over level land.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, with brass

Chains

cap mkd.

T 30 S
R 20 E | R 21 E
S 13 | S 18
S 24 | S 19
1916

dig pits. 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and scatter earth.

No trace of the old. cor. found.

Land, generally rough mountainous, rimrock and bench land, E. drainage.

Soil, loose sand, sand rock and ledges.

Undergrowth, shadscale and greasewood.

No timber.

North, resurveying, bet. secs. 13 and 18.

Over nearly level land, through greasewood and shadscale undergrowth.

4.03 To pass point of sandstone spur projecting E., I offset as follows:

East, 2.59 chs.

North, 36.82 chs.

West, 2.59 chs., to true line, thence

South, 85 lks., to

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼
S 13 | S 18
1916

dig pits, 18 x 18 x 12 ins. on line N. and S. of post, 3 ft. dist., and scatter earth.

No trace of the old cor. found.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, with brass

Chains	
	cap mkd.

T 30 S.
R 20 E | R 21 E
S 12 | S 7
S 13 | S 18
1916

	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. No trace of the old cor. found.
	Land, generally level, slight east drainage.
	Soil, light sandy clay loam, medium texture, 2 ft. or more deep.
	Undergrowth, shadscale and greasewood.
	No timber.
	North, resurveying, bet. secs. 7 and 12.
	Over gently rolling land, through greasewood and shadscale undergrowth.
15.00	Enter sandy and rocky land bears N. 60° W. and S. 60° E.
25.00	Leave rocky land and enter sandy land, bears E. and W.
40.00	Set an iron post, 3 ft. long 1 in.dia., 24 ins. in the ground, for ¼ sec. cor. with brass cap mkd.

¼
S 12 | S 7
1916

	dig pits, 18 x18 x 12 ins. on line N. and S. of post, 3 ft.dist., and scatter dirt. No trace of old cor.
65.00	Desc. gradually, bears E. and W.
78.50	Enter rocky land, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins in the ground, for cor. of secs. 1, 6, 7 and 12, with brass cap mkd.

Resurvey of the West Bdy. of T. 30 S., R. 21 E.

Chains	
	T 30 S R 20 E | R 21 E S 1 | S 6 S 12 | S 7 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	No trace of the old cor. found.
	Land, rolling; general east drainage.
	Soil, sandy, part rocky, on rocky subsoil.
	Undergrowth, shadscale and greasewood.
	No timber.
	North, resurveying bet. secs. 1 and 6.
	Over rolling land, desc. gradually through shadscale and greasewood undergrowth.
5.00	Enter scattered pinon and juniper timber.
15.00	Wash, 15 lks. wide, 1 ft. deep, drains west. Enter broken sandstone ledges, and sandstone knobs and small buttes, bear E. and W.
31.00	Wash, 20 lks. wide, 1 ft. deep, drains W.
36.00	Desc. over sandstone ledge 100 ft. high, bears N 60° W. and S. 60° E.
39.55	The point for ¼ sec. cor. will fall on sandstone ledges where it cannot be set.
	Set an iron post, 3 ft. long, 1 in. dia., on solid rock, 26 ins. in a mound of stone, 4 ft. base, for witness cor. to ¼ sec. cor., with brass cap mkd.
	W C ¼ S 1 | S 6 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Resurvey of the West Bdy. of T 30 S., R. 21 E.

Chains	
40.00	The point for ¼ sec. cor. falls on sandstone ledges where it cannot be set. No trace of the old cor. found.
41.00	Gulch, 235 ft. below sec. cor., drains N. 40° W. Asc.
45.00	Sandstone spur, 30 ft. above gulch, projects N. 60° W. Desc.
49.70	Foot of ledges, bears NE. and W., 85 ft. below spur, thence desc. gradually.
59.60	Center of Indian Creek, 35 lks. wide, 2 ft. deep, swift current, (in flood) course, from the SE. to NW. Muddy water. 25 ft. below foot of ledges. Thence, asc. over bare red sandstone outcroppings, knobs, small buttes and queer water-washed formations.
64.40	Rocky point of spur, projects E., 100 ft. above creek. Old Indian ruins bear west, 1 ch. dist.
81.74	The old cor. of Ts. 29 and 30 S., Rs. 20 and 21 E., set by E. Buettner, D.S., in 1884, which is a sandstone, 8 x 8 x 10 ins. loosely set and mkd. with 6 notches on N., E., S. and W. edges, bears east, 310 lks. dist. Destroy all marks of the old cor.
140.30	Gulch, 80 ft. below point of spur, drains S. 40° W., desc.
146.50	Ridge, 115 ft. above gulch, bears E. and W., desc.
154.90	Wash, 2 ft. deep, 20 lks. wide, 95 ft. below ridge, drains S. 30° W., asc.
161.44	Intersect E. and W. line 1 lk. west of the temp. cor. of T. 30 S., Rs. 20 and 21 E.

At intersections, set an iron post, 3 ft. long, 3 ins. dia. 24 ins. in the ground, for the cor. of T. 30 S., Rs. 20 and 21 E., with brass cap mkd.

T 29 S R 20 E
S 36

S 1 | S 6
R 20 E | R 21 E
T 30 S

1916

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

Resurvey of the West Bdy. of T. 30 S., R. 21 E.

Chains	
	the cor.
	Land, rough and broken mountainous, sandstone formation, general drainage NE and SW. into Indian Creek.
	Soil, loose red sand and sandy clay loam, shallow on sandstone base.
	Undergrowth, shadscale and greasewood.
	Timber, scattered juniper, and pinon.

SUBDIVISIONS OF T. 30 S., R. 21 E.

	From the WP bet. secs. 1 and 6 on E. bdy. of Tp., set at 80.00 chs. N. of the true point for the cor. of secs. 1, 6, 7 and 12,
	West, on blank line, through sec. 1.
80.00	Set temp. point, for 80.00 ch. point on line bet. secs. 1 and 2, thence North, on blank line, bet. secs. 1 and 2.
30.13	Set an iron post, 3 ft. long, 1 in. dia., 4 ins. in the ground, to solid rock, and 20 ins. in a mound of stone, 4 ft. base, for Witness Point, with brass cap mkd.

W P

S 2 | S 1

1916

	raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	This cor. stands at the base of impassable sandstone ledges from 800 to 1100 ft. high, extending NE. and NW.
	Thence, from the WP,
	South, on true line, bet. secs. 1 and 2.
	Over rough mountainous land sloping south from the base of impassable sandstone cliffs, desc. over huge broken sandstone boulders, through shadscale and greasewood undergrowth.

Subdivision of T. 30 S., R. 21 E.

Chains	
5.00	Enter valley bottom in Hart Draw, bears N. 70° W. and S. 70° E., and leave broken land.
19.00	Desc. over clay bank 8 ft. high bears E. and W., into Hart Draw Wash.
20.10	Small stream, 2 lks. wide, 3 ins. deep, sluggish alkaline water, probably drying up in dry seasons, course west., 110 ft. below the WP.
21.00	Asc. from bottom of wash over 10 ft. clay bank bearing E. and W. Thence over rolling valley bottom, asc. gradually.
45.00	Leave rolling valley bottom, bears SE. and W., asc.
70.13	On NE. slope, 155 ft. above the wash, Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd. ¼ S 2 | S 1 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
80.00	Gulch, 90 ft. above ¼ sec. cor., drains N. 40° E., asc. more abruptly over NW. slope.
80.10	Small spring of slightly alkaline water bears west of line 2 chs. dist.
92.13	At the base of sheer sandstone wall, 350 ft. high, bearing N. 60° E. and S. 60° W., which is impassable, Set an iron post, 3 ft. long, 2 ins. dia., on solid rock, 24 ins. in a mound of stone, 5 ft. base, for witness cor. to the cor. of secs. 1, 2, 11 and 12, with brass cap mkd. T 30 S R 21 E S 2 | S 1 S 11 | S 12 W C 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Cor. is 465 ft. above the ¼ sec. cor.

Subdivision of T. 30 S., R. 21 E.

Chains	
	Land, 40 chs. rolling valley bottom in Hart Draw; remainder rough mountainous, sandstone ledges.
	Soil, in valley bottom, rocky and sandy clay loam, 1 ft. or more deep, on rocky subsoil.
	Undergrowth, shadscale and greasewood.
	No timber.
	From the St. cor. of secs. 34 and 35, which is an iron post, 3 ins. dia., firmly set and extending 12 ins. above solid mound of stone, brass cap mkd. and witnessed as described by the surveyor general, N. 0°01' W., bet.secs. 34 and 35.
	Over rough mountainous land, blue mud and broken sandstone ledges, desc. through scattered pinon and juniper timber and scattered shadscale and greasewood undergrowth.
17.50	Foot of steep desc., bears N. 80° E. and S. 80° W., leave timber, bears same, and enter rolling valley bottom, desc. gradually.
27.60	Wash, 340 ft. below the St. cor., 12 lks. wide, 6 ft. deep, drains N. 85° W., asc. gradually.
40.00	On slight S. slope, 20 ft. above the wash,
	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ / S 34 | S 35 / 1916
	dig pits, 18 x 18 x 12 ins., on line N. and S. of post, 3 ft. dist., and scatter earth.
47.00	Wash, 20 lks. wide, 15 ft. deep, drains S. 85° W.
60.70	Wash, 25 lks. wide, 15 ft. deep, drains N. 60° W., asc. gradually.
80.00	On SW. slope, 20 ft. above the wash,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the

Chains

ground, for the cor. of secs. 26, 27, 34 and 35, with brass cap mkd.

T 30 S R 21 E

S 27 | S 26

S 34 | S 35

1916

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

Cor. stands on SW. slope in small wash, 20 lks. wide, 5 ft. deep, drains west.

Land, S. 17.50 chs. rough mountainous N. slope from high ledges, remainder rolling valley bottom, general W. drainage.

Soil, on S. 17.50 chs., rocky and stony blue clay and gravel; remainder, light sandy loam, 2 ft. or more deep part rocky.

Undergrowth, shadscale and greasewood.

Timber, scattered pinon and juniper.

East, on true line, bet. secs. 26 and 35, knowing the east end of the mile to be impassable.

Over rolling valley, asc. up wash through shadscale and greasewood undergrowth.

17.00 Leave wash and valley, bears N. and S., asc. abruptly over sandstone ledges and slide rock, and enter scattered pinon and juniper timber, bears N. and S.

20.80 At base of inaccessible ledges, bearing NW. and SE., 1100 ft high,

Set an iron post, 3 ft. long, 1 in. dia., on solid rock, 24 ins. in a mound of stone, 4 ft. base, for witness cor. to ¼ sec. cor., with brass cap mkd.

¼ S 26 WC

S 35

1916

Chains	
	from which
	A juniper, 6 ins. dia., bears N. 4° W., 110 lks. dist., mkd. WC ¼ S 26 BT
	A juniper, 16 ins. dia., bears S. 11° W., 126 lks. dist., mkd. W C ¼ S 35 BT
	Discontinue line at this point on account of inaccessible ledges ahead.
	Land, west 17 chs. rolling valley bottom, westerly drainage; remainder, rough mountainous, ledgy SW. slope.
	Soil, west 17. chs. light sandy clay loam, medium texture, part rocky, 2 ft. deep on rocky subsoil; remainder, sandstone boulders and bare sandstone ledges.
	Undergrowth, shadscale and greasewood.
	Timber, scattered pinon and juniper.

	N. 0°01' W., bet. secs. 26 and 27.
	Over rolling valley land, draining west, through shadscale and greasewood undergrowth.
21.30	Wash, 80 lks. wide, 20 ft. deep, drains W.
28.50	Wash, 30 lks. wide, 10 ft. deep, drains W.
33.60	Wash, 30 lks. wide, 15 ft. deep, drains S. 70° W.
35.00	Leave rolling valley land, bears E. and W., asc. over sandstone ledges and slide rock, and enter scattered juniper timber.
40.00	Point for ¼ sec. cor. falls on steep slide rock, where it cannot be set.
40.55	Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground and 16 ins. in a mound of stone, 4 ft. base, for witness cor. to ¼ sec. cor., with brass cap mkd.
	¼ S 27 | S 26 W | C 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Chains	
	No suitable bearing trees within limits.
	From here north the line ascends over steep sandstone ledges and a high point of mesa with sheer walls 350 ft high, which is impassable. To pass this, I proceed as follows: From the W. C. ¼ sec. cor., offset
	West, 20.80 chs.,
	North 0°01' W., 39.45 chs.,
	East, 20.80 chs, to
80.00	On steep N. slope on N. side of rocky point of high mesa. Set an iron post, 3 ft. long, 2 ins. dia.,,12 ins. in the ground and 12 ins. in a mound of stone, 3 ft. base, for cor. of secs. 22, 23, 26 and 27, with brass cap mkd.

T 30 S R 21 E

S 22	S 23
S 27	S 26

1916

	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, south 35.50 chs. rolling valley bottom, east drainage; remainder rough and mountainous, sandstone ledges, and huge boulders.
	Soil, south 35.50 chs., light sandy clay loam mixed with sandrock, 1½ ft. deep on rocky subsoil; remainder bare sandstone ledges and loose rock.
	Undergrowth, shadsaale and greasewood.
	Timber, few scattered junipers.
	East, on true line, bet. secs. 23 and 26, knowing the line cannot be projected the whole mile.
	Over rough mountainous land, ledgy NW. slope from point of high mesa; asc. over huge broken boulders, through shadscale and greasewood undergrowth, and scattered juniper and pinon timber.
18.20	Spur, 280 ft. above the cor., projects N., desc. abruptly.

Chains

40.00 Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground to solid rock and 18 ins. in a mound of stone, 4 ft. base, for ¼ sec. cor., with brass cap mkd.

¼ S 23
¼ S 26

1916

from which

A juniper, 7 ins. dia., bears N. 17½° W., 65 lks. dist., mkd. ¼ S 23 BT

A juniper, 6 ins. dia., bears S. 28° E., 35 lks. dist., mkd. ¼ S 26 BT

42.20 Gulch, 30 ft. below cor., drains NW., asc. Small spring in bottom of gulch, 50 lks. S. of line, fair water, running only a few feet.

48.00 Wash, 30 lks. wide, 10 ft. deep, drains N. 70° W., asc.

63.50 On spur, 50 ft. above the wash, projects NW.,

Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground to ledge rock, and 12 ins. in a mound of stone, 4 ft. base, for witness cor. to the cor. of secs. 23, 24, 25 and 26, with brass cap mkd.

T 30 S R 21 E

S 23	S 24
S 26	S 25

WC

1916

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

No suitable bearing trees within limits.

From the witness cor. to the west rises a series of sheer sandstone ledges, 1000 ft. high, which are inaccessible.

Terminate the line at this point.

Land, rough mountainous, ledgey N. slope of point of high mesa.

Soil, loose sand and rock, ledges and boulders.

Undergrowth, shadscale and greasewood.

Timber, pinon and juniper.

Chains

N. 0°01' W. bet. secs. 22 and 23.

Over rough mountainous land, desc. abruptly over sandstone ledges, through scattered pinon and juniper timber and shadscale and greasewood undergrowth.

10.00 Foot of steep desc., bears N. 60° E. and S. 60° W., thence over rolling valley bottom, desc. gradually and leave timber, bears NE. and SW.

16.90 Wash, 200 ft. below the cor., 40 lks. wide, 20 ft. deep, drains W., asc. gradually.

40.00 On slight S. slope, 65 ft. above wash,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

S 22 | ¼ | S 23

1916

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

50.00 Leave rolling valley bottom, bears N. 80° W. and S. 80° E., and asc. abruptly over sandstone ledges and huge broken boulders, slide rock,

60.01 On small shelf in ledges, 220 ft. above ¼ sec. cor.,

Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to solid rock, and 20 ins in a mound of stone, 4 ft. base, for witness cor. to the cor. of secs. 14, 15, 22 and 23, with brass cap mkd.

WC

T 30 S R 21 E

S 15 | S 14

S 22 | S 23

1916

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

No place on this line farther north possible to set cor.

62.74 Unable to proceed farther on account of impassable ledges.

Offset as follows:

West, 17.43 chs.,

Subdivision of T.30 S., R.21 E.

Chains.

N.0° 01'W. 10.26 chs., to

80.00 On the offset line, 17.43 chs. west of true point for corner. On account of impassable ledges to the east, it is impossible to recover true line.

Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in crevice and 10 ins. in mound of stone, 4 ft. base, for witness point, with brass cap mkd.

S 15 / S 22 / 1916 W P

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

Land, 40 chs. rolling valley, draining west; remainder rocky and mountainous, steep N. and S. slopes.

Soil, in valley, light sandy clay loam, part rocky, 1 ft. deep on rocky subsoil; remainder, loose rock, ledges, and sandstone boulders.

Undergrowth, shadscale and greasewood.

No timber, except on S. 10 chs., where a few pinon and junipers occur.

From the witness cor. to the cor. of secs. 2, 3, 10, and 11, hereinafter described, offset around base of impassable ledges 350 ft. high, as follows:

N.0° 01'W. 12.05 chs.

N.89° 59'E. 13.00 chs. to

12.05 Point at base of impassable sandstone ledges, 350 ft. vertical height, bearing NE. and SW., 12.05 chs. N.0° 01'W. of the true point for cor. of secs. 2, 3, 10, and 11.

Point falls on sandstone boulder, 7 x 3 ft. base, and 4 ft. high. Mark a cross (X) and WP at exact point, for witness point; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Chains.	
	Thence, counting the distance from the true point for cor. of secs. 2, 3, 10, and 11.
40.00	On steep N. slope, 460 ft. below the witness point, Set an iron post, 3 ft. long, 1 in. dia., on solid rock, 24 ins. in a mound of stone, 5 ft. base, for $\frac{1}{4}$ sec. cor. with brass cap mkd.
	$S\ 3\ \frac{1}{4}\ S\ 2$ / 1916
	raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high west of the cor.
45.00	Foot of steep slope, bearing N. 80° W. and S. 80° E., 70 ft. below the $\frac{1}{4}$ sec. cor., thence desc. gradually over rolling valley bottom in Hart Draw. Greasewood and shadscale become more dense.
80.80	The old cor. of secs. 2, 3, 34, and 35 set by Buettner in 1884, bears east 2.60 chs. dist. A sandstone 8 x 10 x 10 ins., lying loose on the ground. I destroy all marks on the corner.
	No corners east of here found.
81.00	Descend over 5 ft. clay bank, bearing E. and W., into Hart Draw Wash.
81.50	Center of wash, small stream, 1 lk. wide, 1 in. deep, poor water, probably drying up in summer, course west.
81.90	Ascend over 5 ft. bank bearing E. and W., out of bottom of wash.
	Thence ascend gradually over rolling valley.
121.60	Wash, 200 lks. wide, 20 ft. deep, drains SW.
139.40	Wash, 50 lks. wide, 10 ft. deep, drains SE.
161.20	On SW. slope, 145 ft. above Hart Draw Wash.
	Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in the ground, to solid rock and 14 ins. in a mound of stone

Chains	
	4 ft. base, for the cor. of secs. 2 and 3 on N. bdy. of Tp., with brass cap mkd.

T 29 S R 21 E
S 34

S 3 | S 2
T 30 S
1916

	raise a mound of stone, 2 ft. base, 1½ ft. high, S. of the cor.
	Land, south 45 chs. steep NW. slope from base of high cliffs, broken by ledges and boulders; remainder, rolling valley bottom, becoming rocky on N. end. General west drainage.
	Soil, south 45 chs., loose sand and rock, and broken boulders; remainder, light rocky sandy clay loam, shallow om rocky subsoil; clay subsoil near main wash.
	Undergrowth, shadscale and greasewood.
	No timber.

	From the St. cor. of secs. 33 and 34, on the S. bdy. of Tp., which is an iron post, 3 fns. dia., extending 12 ins. above ground, firmly set, with brass cap mkd. and cor. witnessed as described by the surveyor general, N. 0°02' W., bet. secs. 33 and 34.
	Over nearly level valley bottom, through scattered sage brush and shadscale and greasewood undergrowth.
8.00	Wash, 40 lks. wide, 2 ft. deep, drains W.
23.00	Wash, 50 lks. wide, 4 ft. deep, drains N. 25° W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 33 | S 34
1916

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
65.50	Old road, to Indian Cr. ranches, bears N. 25° W. and S. 25° E.
80.00	Set an iron post, 3 ft. long, 2ins. dia., 24 ins. in the ground, for the cor. of secs. 27, 28. 33 and 34, with brass cap mkd.

T 30 S R 21 E
S 28 | S 27
S 33 | S 34
1916

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

Land, nearly level valley bottom, slight NW. drainage.

Soil, lightsandy clay loam, medium texture, 2 ft. or more deep on clay and hardpan subsoil.

Undergrowth, sagebrush, greasewood and shadscale.

No timber.

	East, on random line, bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
80.16	Intersect N. and S. line 4 lks. N. of the cor. of secs. 26, 27, 34 and 35.
	Thence,
	N. 89°58' W., on true line, bet. secs. 27 and 34.
	Over rolling valley bottom, desc. down small wash through greasewood and shadscale undergrowth.
12.00	Junction of wash 50 lks. wide and 10 ft. deep with wash on line. Continue down wash, crossing and re-crossing same.
28.00	Leave wash drains from the east to NW.
40.08	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼ S 28 / S 34
1916

Subdivision of T. 30 S., R. 21 E.

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, north of cor.
53.80	Wash, 50 lks. wide, 10 ft. deep, drains N. 10° W.
80.16	The cor. of secs. 27, 28, 33 and 34, 50 ft. below the ¼ sec. cor.
	Land, rolling valley bottom, general NW. drainage.
	Soil, light sandy clay loam, medium texture, 2 ft. or more deep on gravelly clay and hardpan.
	Undergrowth, shadscale and greasewood.
	No timber.

N. 0°02' W., bet. secs. 27 and 28.

Over rolling valley bottom, through greasewood, shadscale and scattered sage undergrowth.

37.50	Wash, 10 lks. wide, 2 ft. deep, drains N. 70° W., 50 ft. below the cor. Asc.
40.00	On slight NE. slope 10 ft. above the wash.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 28 | S 27

1916

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

56.00	Top of sandstone, ledge, 20 ft. above the ¼ sec. cor., bears N. 70° E. and S. 70° W., desc.
74.10	Wash, 100 lks. wide, 10 ft. deep, drains N. 75° W.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 21, 22, 27 and 28m with brass cap mkd.

T 30 S | R 21 E

S 21 | S 22

S 28 | S 27

1916

Chains

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

Cor stands 25 ft. below ledge.

Land, rolling valley bottom, general NW. drainage

Soil, light sandy clay loam, 2 ft. or more deep on clay and rock subsoil.

Undergrowth, greasewood and scattered shadscale and sage

No timber.

S. 89°58°'E., on random line, bet. secs. 22 and 27.

40.00 Set temp. ¼ sec. cor.

80.17 Intersect N. and S. line 2 lks. S. of the cor. of secs. 22, 23, 26 and 27.

Thence,

N. 89°59' W., ontrue line, bet. secs. 22 and 27.

Over rough mountainous land, desc. over NW. slope, throu greasewood and shadscale undergrowth.

10.00 Foot of steep slope, bears NE. and SW., thence over rolling valley bottom, desc. gradually.

40.08½ On slight NW. slope, 220 ft. below cor.,

Set an iron post, 3 ft. long, 1 ins. dia., 26 ins. in th ground, for ¼ sec. cor., with brass cap mkd.

¼ S 22 / S 27

1916

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

80.17 The cor. of secs. 21, 22, 27 and 28, 50 ft. below the ¼ sec. cor.

Land, east 10 chs. mountainous NW. slope from high mesa; remainder rolling valley bottom, NW. drainage.

Soil, E. 10 chs., rocky sandstone ledges; remainder light sandy clay loam, part rocky, on rocky clay subsoil.

Subdivision of T. 30 S., R. 21 E.

Chains

Undergrowth, greasewood and shadscale.

No timber.

N. 0°02' W., bet. secs. 21 and 22.

Over rolling valley bottom draining NW., desc. gradually through shadscale and greasewood undergrowth.

32.80 Wash, 20 lks. wide, 5 ft. deep, 80 ft. below the cor., drains N. 45° W., asc.

40.00 On sandstone ledge, bears NE. and SE., 20 ft. above the wash, mark a cross at exact point, and set an iron post, 3 ft. long, 1 in. dia., on ledge, 26 ins. in a mound of stone, 4 ft. base, for ¼ sec. cor., with brass cap mkd.

¼

S 21 | S 22

1916

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

53.20 Wash, 20 lks. wide, 10 ft. deep, drains west.

80.00 On NW. slope, 40 ft. below the ¼ sec. cor.

Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground, to solid rock, and 20 ins. in a mound of stone 4 ft. base, for the cor. of secs. 15, 16, 21 and 22, with brass cap mkd.

T 30 S R 21 E

S 16 | S 15

S 21 | S 22

1916

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

Land rolling valley bottom general drainage to the NW.,

Soil light sandy clay loam, part rocky, 2 ft. deep, on rocky clay subsoil.

Undergrowth, shadscale and greasewood.

Chains	
	No timber.
	S. 89°59' E., on random line, bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
62.80	Fall 4 lks. S. of the WP set at 17.43 chs. west of the true point for the cor. of secs. 14, 15, 22 and 23, or, 80.23 fall 5 lks. S. of the point for cor.
	Thence, S. 89°59' W., on true line, counting the dist. from the true point for the cor. of secs. 14, 15, 22 and 23.
17.43	The witness point. Thence over rough mountainous land, asc. over sandstone ledges, through greasewood and sha scale undergrowth.
26.30	Spur, 55 ft. above the WP., projects SW., desc. abruptly
38.00	Foot of steep desc., bears NW. and SE., thence over roll valley bottom, drains SW., desc. gradually.
40.11½	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock, and 20 ins. in a mound of stone, 4 ft. base, for ¼ sec. cor., with brass cap mkd.
	S 15 ¼ S 22 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Stands on SW. slope, 180 ft. below spur.
61.00	Wash, 20 lks. wide, 10 ft. deep, 20 ft. below the ¼ sec. cor., drains SW.
80.23	The cor. of secs. 15, 16, 21 and 22, 50 ft. below the ¼ sec. cor.
	Land, east 38 chs., rough mountainous, steep SW. slope from ledges; remainder, rolling valley bottom, general SW. drainage.
	Soil, east 38 chs., rocky and loose sandrock; remainder, light sandy clay loam mixed with rock, on rocky subsoil.

Subdivision of T. 30 S., R. 21 E.

Chains	
	Undergrowth, shadscale and greasewood.
	No timber.

	N. 0°02' W., bet. secs. 15 and 16.
	Over rolling valley land, sloping west, through shadscale and greasewood undergrowth.
25.00	Wash, 30 lks. wide, 15 ft. deep, drains W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 16 | S 15 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
51.50	Wash, 40 lks. wide, 10 ft. deep, drains W.
66.50	Leave valley land, bears N. 70° W. and S. 70° E., and asc. abruptly over broken sandstone ledges.
75.00	Spur, 90 ft. above the ¼ sec. cor., projects W., desc. abruptly.
79.00	Gulch, 30 ft. below spur, drains S. 80° W., asc. abruptly.
80.00	On steep S. slope, 20 ft. above gulch,
	Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground to solid rock and 12 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 9, 10, 15 and 16, with brass cap mkd.
	T 30 S R 21 E S 9 | S 10 --- S 16 S 15 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, south 66.50 chs., rolling valley; draining W., remainder, rough mountainous, sandstone ledges, sloping SW., from base of high sandstone cliffs.

Chains

Soil, south 66.50 chs., light sandy clay loam, 2 ft. deep on rocky clay subsoil; remainder, bare sandstone ledges and broken boulders.

Undergrowth, shadscale and greasewood.

No timber.

To the east from the cor. of secs. 9, 10, 15 and 16, rises abruptly a series of sandstone ledges to the foot of a vertical wall of sandstone 350 ft. high, impassable.

N. 0°02' W., bet. secs. 9 and 10.

Over rough mountainous land, asc. abruptly over series of sandstone ledges, sloping SW., through shadscale and greasewood undergrowth.

18.50 Top of asc. over ledges, bear N. and SE., 470 ft. above the sec.cor., thence along steep west slope of ledges.

40.00 Set an iron post, 3 ft. long, 1 in dia., on ledge rock, 26 ins. in a mound of stone, 5 ft. base, for ¼ sec. cor. with brass cap mkd.

$\frac{1}{4}$

S 9 | S 10

13|16

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

Asc.

45.00 Spur, 40 ft. above the ¼ sec. cor., projects N. 70° W., desc. abruptly over steep NW. slope.

51.80 Ravine, 465 ft. below spur, drains N. 60° W., asc. SW. slope over ledges.

57.00 Spur, 40 ft. above ravine, projects N. 70° W., desc.

70.60 Foot of steep desc., bears N. 60° E. and S. 60° W., thence desc. gradually over rolling valley land, sloping NW.

Subdivision of T. 30 S., R. 21 E.

Chains

80.00 On NW. slope in valley, 250 ft. below spur,
Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 3, 4, 9 and 10, with brass cap mkd.

T 30 S R 21 E
S 4	S 3
S 9	S 10
1916

raise a mound of stone 2 ft. base, 1½ ft. high, west of the cor.
Land, south 70.60 chs., rough mountainous, steepNW. and SW. slopes of sandstone ledges at foot of point of high cliffs; remainder, rolling valley, draining NW.
Soil, south 70.60 chs., loose sand and sandstone ledges, with broken boulders; remainder, light sandy clay loam, shallow on sand and rocky clay subsoil.
Undergrowth, shadscale and greasewood.
No timber.

N. 89°59' E., on true line, bet. secs. 3 and 10, knowing that line cannot be projected the full length.
Over rolling valley land, draining NW., asc. gradually through shadscale and greasewood undergrowth.

15.00 Leave valley land, bears N. 30° E. and S. 50° W., and asc. abruptly over sandstone ledges, broken NW. slope.

18.40 Spur, 105 ft. above the cor., projects N. 30° W., desc. abruptly.

24.30 Gulch, 70 ft. below spur, drains N. 40° W., asc. abruptly.

39.70 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in a crevice in ledge, solidly packed in by stones, for witness cor. to ¼ sec. cor., with brass cap mkd.

S 3
¼ ——— WC
S 10
1916

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor. Cor. is 255 ft. above gulch.
40.00	The true point for ¼ sec. cor. falls on face of bare sandstone ledges where it cannot be set.
	Comtinue abrupt asc. over sandstone ledges sloping NW.
67.00	At foot of impassable sandstone cliff 350 ft. high bearin NE. and SW., which is impassable.
	Set an iron post, 3 ft. long, 2 ins. dia., on solid rock 24 ins. in a mound of stone 5 ft. base, for witness cor to the cor. of secs. 2, 3, 10 and 11, with brass cap mkd.

T 30 S R 21 E

S 3 | S 2

W C

S 10 | S 11

1916

	raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	The W.C. is 590 ft. above the W. C. ¼ sec. cor.
	Land, west 15 chs., rolling valley, draining NW.; remainder rough mountainous, steep NW. slope of sandstane ledges at base of high cliffs.
	Soil, west 15 chs., light, sandy and rocky clay loam, shallow on rocky clay subsoil; remainder, bare sandstone ledges, loose rock and broken boulders.
	Undergrowth, shadscale and greasewood.
	No timber.
	N. 0°02' W., on true line, bet. secs. 3 and 4, knowing that on account of impassable cliffs no connection can be made with the north boundary.
	Over rolling valley land, draining NW., through greasewood and shadscale undergrowth. Desc. gradually.
25.00	Wash, 15 lks. wide, 2 ft. deep, drains N. 20° E.

Subdivision of T. 30 S., R. 21 E.

Chains	
36.00	Same wash, 20 lks. wide, 2 ft. deep, drains N. 70° W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ½ sec. cor., with brass cap mkd.

$$\frac{\frac{1}{4}}{S\ 4 \mid S\ 3}$$

1916

dig pits, 18 x 18 x 12 ins. on line N. and S. of post, 3 ft. dist., and scatter earth.

59.05	Desc. over 8 ft. bank bears E. and W. into bottom of Hart Draw wash.
60.50	Small stream of running water, 6 lks. wide, 2 ins. deep, slightly alkaline, course west., 50 ft. below the sec. cor.
61.95	Asc. over 5 ft. bank bears E. and W. out of wash, thence asc. gradually over rolling valley.
115.00	Leave rolling valley, bears E. and W., and asc. over steep rocky south slope from high cliffs.
120.00	At foot of impassable sandstone ledges, bear E. and W., 1200 ft. high,

Set an iron post, 3 ft. long, 1 in. dia., on ledge rock, 24 ins. in a mound of stone, 5 ft. base, for witness point, with brass cap mkd.

$$\frac{W\ P}{S\ 4 \mid S\ 3}$$

1916

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

Cor. is 130 ft. above Hart Draw Wash.

Impossible on account of impassable cliffs to extend the line farther north.

Land, south 115.00 chs., rolling valley, general west drainage; remainder, rough mountainous ledges, S. slope.

Soil, south 115.00 chs., light reddish sandy clay loam,

Chains	
	2 ft. or more deep on stony clay subsoil; remainder, bare sandstone ledges and loose rock.
	Undergrowth, shadscale and greasewood.
	No timber.
	From the St. cor. of secs. 32 and 33 on the south bdy. of Tp., which is an iron post, 3 ins. dia., firmly set and extending 12 ins. above ground, with brass cap mkd. and cor. witnessed as described by the surveyor general,
	N. 0°03' W., bet. secs. 32 and 33.
	Over nearly level valley land, through shadscale and greasewood undergrowth.
5.50	Leave level land, bears E. and SW., and asc.
8.15	Spur, 105 ft. above the St. cor., projects E., desc.
10.10	Enter level land, 110 ft. below spur, bears E. and W.
23.00	Leave level land, bears N. 60° E. and S. 60° W., and asc.
32.30	Spur, 165 ft. above level land, projects E. Old Indian ruins bear east of line, 1 ch. dist. Desc.
40.00	At foot of desc., bears E. and W., 160 ft. below spur, Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to solid rock, and 14 ins. in a mound of stone, 3 ft. base, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$
	S 32 | S 33
	1316
	raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Thence over rolling valley land.
67.00	Foot of point of low spur, projecting east.
73.50	Wash, 20 lks. wide, 2 ft. deep, drains S. 15° E.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the

Chains	
	ground, for the cor. of secs. 28, 29, 32 and 33, with brass cap mkd.
	T 30 S R 21 E S 29 | S 28 S 32 | S 33 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling valley and N. and S. slopes from spurs, general E. drainage.
	Soil, light sandy loam, part rocky, shallow on rocky subsoil.
	Undergrowth, shadscale and greasewood.
	No timber.
	East, on random line, bet. secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line 2 lks. S. of the cor. of secs. 27, 28, 33 and 34.
	Thence,
	S. 89°59' W., ontrue line, bet. secs. 28 and 33.
	Over rolling valley land, draining west, through shadscale and greasewood undergrowth. Desc. gradually.
20.00	Wash, 1 ch. wide, 20 ft. deep, drains N. 15° W.
33.60	Wash, 75 lks. wide, 20 ft. deep, drains N. 20° W.
39.00	Enter scattered cottonwood timber along banks of Indian Creek.
39.37	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 28 S 33 1916
	from which

Subdivision of T. 30 S., R. 21 E.

Chains	
	A cottonwood, 9 ins. dia., bears N. 75½° W., 54 lks dist., mkd. ¼ S 28 BT
	A cottonwood, 14 ins. dia., bears S. 75°W.,100 lks dist., mkd. ¼ S 33 BT.
	Desc. to Indian Creek.
41.50	Center of Indian Creek, 50 lks. wide, 3 ft. deep, course north, now in flood, muddy water and rapid current.
	Creek is 80 ft. below sec. cor.
	Asc.
62.00	Wash, 20 lks. wide,2 ft. deep, drains N. 40° E.
79.94	The cor. of secs. 28, 29, 32 and 33, 75 ft. above the creek.
	Land, rolling valley, draining NW. and NE. into Indian creek.
	Soil, light sandy clay loam, part stony, 1 to 2 ft. deep on stony clay subsoil.
	Undergrowth, shadscale and greasewood.
	Timber, scattered cottonwoods along the creek.
	N. 0°03' W., bet. secs. 28 and 29.
	Over rolling valley land,sloping NE., through scattered shadscale and greasewood undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 29 | S 28 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
54.30	Wash, 10 lks. wide, 2 ft. deep, drains S. 80° E. Asc.
65.00	Low ridge, 30 ft. above the ¼ sec. cor., bears N. 70° W. and S. 70° E., desc.
80.00	On NE. slope, 165 ft. below ridge,

Chains	
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 20, 21, 28 and 29, with brass cap mkd.

T 30 S R 21 E

S 20	S 21
S 29	S 28

1916

	raise a mound of stone 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling valley, general NE. drainage.
	Soil, light sandy and rocky clay loam, broken, 1 to 2 ft. deep on rocky subsoil.
	Undergrowth, shadscale and greasewood.
	No timber.
	N. 89°53' E., on random line, bet. secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
79.95	Intersect N. and S. line, 12 lks. N. of the cor. of secs. 21, 22, 27 and 28.
	Thence,
	N. 89°56' W., on true line, bet. secs. 21 and 28.
	Over rolling valley land, draining west, through shadscale and greasewood undergrowth.
13.80	N. end of knoll, 20 ft. high, 5 chs. long, extends S.
30.00	Wash, 10 lks. wide, 3 ft. deep, drains N. 80° W.
34.30	Wash, 50 lks. wide, 10 ft. deep, drains N. 40° W.
39.97½	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼ S 21 (¼)

¼ S 28

1916

from which

Subdivision of T. 30 S., R. 21 E.

Chains	
	A cottonwood, 16 ins. dia., bears N. 50½° W., 142 lks. dist., mkd. ¼ S 21 BT
	A cottonwood, 16 ins. dia., bears S. 14½° W., 29 lks. dist., mkd. ¼ S 28 BT.
	Cor. stands on right bank of Indian Creek, 30 ft. below sec. cor.
	Desc. to Indian Creek, and enter scattered cottonwoods along the banks.
41.20	Right bank of Indian Creek, bears E. and W.
42.50	Center of Indian Creek, 260 lks. wide, 1½ ft. deep, course north, muddy water, rapid current.
43.80	Asc. over left bank of indian Creek, 3 ft. high, bears N. and S., thence asc. gradually, and leave timber.
79.95	The cor. of secs. 20, 21, 28 and 29, 50 ft. above the creek.
	Land, rolling valley, general NE. and W. drainage into Indian Creek.
	Soil, light sandy clay loam, 1 to 2 ft. deep on rocky clay subsoil.
	Undergrowth, shadscale and greasewood.
	Timber, a few scattered cottonwoods along the banks of creek.
	N, 0°03' W., bet. secs. 20 and 21.
	Over rolling valley land, sloping NE., through shadscale and greasewood undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 20 | S 21 1916
	dig pits, 18 x 18 x 12 ins. on line, N. and S. of post,

Subdivision of T. 30 S., R. 21 E.

Chains

3 ft. dist., and scatter earth.

65.00 Desc. over 4 ft. bank, bears N. 50° W. and S. 50°E. into Indian Creek. Enter scattered cottonwoods along banks.

77.20 Center of Indian creek, 60 lks. wide, 3 ft. deep, course N. 10° W., muddy water, swift current, now in flood.

80.00 On right bank of Indian Creek, 4 ft. above bottom, Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 16, 17, 20 and 21, with brass cap mkd.

T 30 S R 21 E

S 17	S 16
S 20	S 21

1916

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

No suitable trees within limits for bearing trees.

Land, rolling valley, draining east into Indian Creek.

Soil, light sandy, rocky loam, shallow on rocky subsoil.

Undergrowth, greasewood and shadscale.

Timber, scattered cottonwoods along creek banks.

S. 89°56' E., on random line, bet. secs. 16 and 21.

40.00 Set temp. ¼ sec. cor.

79.30 Intersect N. and S. line 9 lks. S. of the cor. of secs. 15, 16, 21 and 22.

Thence,

West on true line, bet. secs. 16 and 21.

Over rolling valley land, desc. gradually through shadscale and greasewood undergrowth.

36.00 Swale, 20 ft. below the cor., drains SW., asc. gradually.

39.35 On slight SE. slope, 10 ft. above swale, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

Subdivision of T. 30 S., R. 21 E.

Chains

S 16
¼
S 21
1916

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

45.00 Low ridge, 25 ft. above the ¼ sec. cor., bears N. and S. desc. gradually.

73.90 The cor. of secs. 16, 17, 20 and 21, 35 ft. below ridge.

Land, rolling valley, general SW. drainage into Indian Creek.

Soil, sandy and rocky clay loam, 1 to 2 ft. deep. on rocky clay subsoil, sandstone formation.

Undergrowth, shadscale and greasewood.

No timber.

N. 0°03' W., bet. secs. 16 and 17.

Over gently rolling valley land, asc. from creek through shadscale and greasewood undergrowth.

21.50 Wash, 20 lks. wide, 3 ft. deep, drains N. 80° W.

40.00 On slight west slope, 15 ft. above the sec. cor.,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼
S 17 | S 16
1916

dig pits, 18 x 18 x 12 ins. on line N. and S. of post, 3 ft. dist., and scatter earth.

59.80 Large sandstone boulder on line, 60 ft. long, 10 ft. high.

75.00 Sandstone outcroppings bear east and west.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, with brass cap mkd.

Subdivision of T. 30 S., R. 21 E.

Chains	
	T 30 S R 21 E S 8 | S 9 S 17 | S 16 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Land, rolling valley partly broken by sandstone outcroppings, general west drainage.
	Soil, sandy and rocky loam, shallow on rocky subsoil.
	Undergrowth, shadscale and greasewood
	No timber.
	East, on random line, bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line 7 lks. S. of the cor. of secs. 9, 10, 15 and 16.
	Thence,
	S. 89°57' W., on true line, bet. secs. 9 and 16.
	Over rough mountainous land, asc. over sandstone ledges through scattered shadscale and greasewood undergrowth.
1.60	Spur, 20 ft. above the cor., projects SW., desc. over broken SW. slope.
13.00	Foot of steep desc., bears N. 30° W. and S. 30° E., thence desc. gradually over broken valley land.
39.99	On slight SW. slope, 310 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for ¼ sec. cor., with brasscap mkd.
	¼ S 9 / S 16 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, north of cor.
41.40	Gulch, 10 ft. below cor., drains S. 30° W., asc. gradually.

Subdivision of T. 30 S., R. 21 E.

Chains	
60.20	Top of sandstone ledges, bears N. 30° W. and S. 30° E., 105 ft. above gulch, desc. gradually.
73.98	The cor. of secs. 8, 9, 16 and 17, 140 ft. below top of ledges.
	Land, mountainous and broken valley, general SW. drainag
	Soil, sandy, rocky loam, shallow on rocky subsoil.
	Undergrowth, shadscale and greasewood.
	No timber.

N. 0°03' W., bet. secs. 8 and 9.

Over rolling valley land, sloping SW., through shadscale and greasewood undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
30.00 ground, for 1/4 sec. cor., with brass cap mkd.

1/4

S 8 | S 9

1916

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

50.00 Low sandy ridge, 50 ft. above the sec. cor., bears N. 60° W. and S. 60° E., desc. gradually.

76.80 Wash, 25 ft. below ridge, drains N. 50° W., 15 lks. wide and 2 ft. deep.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 4, 5, 8 and 9, with brass cap mkd.

T 30 S R 21 E

S 5 | S 4

S 8 | S 9

1916

Raise a mound of stone, 2 ft. base, 1½ ft. high, west

Subdivision of T. 30 S., R. 21 E.

Chains	
	of cor.
	Land, rolling valley, general westerly drainage.
	Soil, rocky and sandy, on rocky subsoil, sandstone formation.
	Undergrowth, shadscale and greasewood.
	No timber.
	N. 89°57' E., on random line, bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
73.34	Intersect N. and S. line 7 lks. N. of the cor. of secs. 3, 4, 9 and 10.
	Thence,
	West, on true line, bet. secs. 4 and 9.
	Over rolling valley land, sloping NW., desc. gradually through shadscale and greasewood undergrowth.
5.00	Wash, 10 lks. wide, 2 ft. deep, drains N.
33.37	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 4 / S 9 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, north of cor.
60.00	Wash, 20 lks. wide, 1 ft. deep, drains. N.,
73.34	The cor. of secs. 4, 5, 8 and 9.
	Land, rolling valley, general north drainage, sandstone formation.
	Soil, light sandy and rocky loam, 2 ft. or more deep on rocky subsoil.
	Undergrowth, shadscale and greasewood.
	No timber.
	N. 0°03' W., on true line, bet. secs. 4 and 5.

Chains	
	Over valley land, rolling, desc. gradually through shadscale and greasewood undergrowth.
24.40	Center of Hart Draw Wash, 240 lks. wide, 3 ft. deep, drains S. 80° W., dry at this point, 10 ft. below sec. cor.
40.00	On slight S. slope, 15 ft. above wash, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 5 | S 4.

1916

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.

70.00	Wash, 20 lks. wide, 2 ft. deep, drains S. 60° W., asc.
150.00	Ascent becomes steeper, bears E. and W. leave valley.
158.00	Spur, 350 ft. above ¼ sec. cor., projects SW., desc. abruptly into
159.00	Gulch, 50 ft. below spur, drains SW.; asc. abruptly.
161.20	On rocky SE. slope, 120 ft. above gulch, Set an iron post, 3 ft. long, 2 ins. dia., 4 ins. in the ground and 20 ins. in a mound of stone, 4 ft. base, for cor. of secs. 4 and 5 on N. bdy. of Tp., with brass cap mkd.

T 29 S R 21 E

S 32

S 5 | S 4

T 30 S | R 21 E

1916

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

Land, south 150.00 chs., rolling valley, draining NW. and SW. into Hart Draw; remainder mountainous, steep SW. slope from high cliffs.

Chains	
	Soil, on south 150.00 chs., light sandy clay loam, part rocky. 1 to 2 or more feet deep on rocky clay subsoil; remainder, loose sand and sand rock.
	Undergrowth, shadscale and greasewood.
	No timber.

	From the St. cor. of secs. 31 and 32 on the S. bdy. of Tp., which is an iron post, 3 ins. dia., firmly set and extending 12 ins. above ground, with brass cap mkd. and cor. witnessed as described by the surveyor general, N. 0°03' W., bet. secs. 31 and 32.
	Over broken valley land, desc. over rocky and broken E. slope, through shadscale and greasewood undergrowth, and saattered scrubby juniper timber.
7.80	Gulch, 100 ft. below cor., drains E., asc.
12.25	Ridge, 90 ft. above gulch, bears E. and W., desc. over steep N. slope.
14.00	Foot of steep slope, 85 ft. below ridge, bears N. 80° E. and S. 80° W., thence over rolling land.
28.40	Wash, 20 lks. wide, 2 ft. deep, drains N. 70° E.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 31 | S 32 1916
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of cor.
55.00	Wash, 30 lks. wide, 1 ft. deep, drains E.
79.50	Wash, 15 lks. wide, 1 ft. deep, drains E.
80.00	On slight SW. slope, 40 ft. below $\frac{1}{4}$ sec. cor.;
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, with brass

Subdivision of T. 30 S., R. 21 E.

Chains	
	cap mkd.
	T 30 S R 21 E S 30 | S 29 S 31 | S 32 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Land, broken and rolling valley, general easterly drainage.
	Soil, on slopes, rocky, sandy loam, shallow on sandstone; remainder, light sandy clay loam, 1 to 2 ft. deep, on rocky clay subsoil.
	Undergrowth, shadscale and greasewood.
	Timber, a few scattered scrubby junipers.
	East, on random line, bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line 4 lks. N. of the cor. of secs. 28, 29, 32 and 33.
	Thence,
	N. 89°58' W., on true line, bet. secs. 29 and 32.
	Over rolling valley land, through shadscale and greasewood undergrowth.
36	Wash, 20 lks. wide, 2 ft. deep, drains SE.
36.00	Wash, 30 lks. wide, 5 ft. deep, drains N. 25° E.
40.02	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 29 S 32 1916
	dig pits, 18 x 18 x 12 ins. on line E. and W. of post, 3 ft. dist., and scatter earth.
80.04	The cor. of secs. 29, 30, 31 and 32, 100 ft. above the ¼ sec. cor.

Chains	
	Land, rolling valley, general easterly drainage.
	Soil, light sandy loam, 1 to 2 or more ft. deep on rocky subsoil, sandstone formation.
	Undergrowth, shadscale and greasewood.
1	No timber.
	West, on random line, bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.84	Intersect west bdy. of Tp. 7 lks. N. of the cor. of secs. 25, 30, 31 and 36.
	Thence,
	N. 89°57' E., on true line, bet. secs. 30 and 31.
	Over broken valley land, desc. through shadscale and greasewood undergrowth, and scattered scrubby juniper timber.
27.00	Gulch, 185 ft. below cor., drains N. Asc.
39.84	On NW. slope, 250 ft. above gulch,
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground, to solid rock, and 20 ins. in a mound of stone, 3 ft. base, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 30 / S 31
	1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
41.50	Ridge, 20 ft. above the $\frac{1}{4}$ sec. cor., bears N. 70° E. and S. 70° W., desc. along SE. slope.
56.20	Ridge, 230 ft. below first ridge, bears N. and S. desc.
70.00	Foot of slope, bears N. and S., thence over rolling valley land,
79.84	The cor. of secs. 29, 30, 31 and 32, 165 ft. below ridge.
	Land, broken and rolling valley, NE. and SE. drainage from ridges.

Chains	
	Soil, generally loose sand and broken sandstone, and sandstone outcroppings.
	Undergrowth, shadscale and greasewood.
	Timber, scattered scrubby juniper.
	N. 0°03' W., bet. secs. 29 and 30.
	Over rolling valley land, asc. gradually through shadscale and greasewood undergrowth, and a few scrubby junipers.
5.00	Leave scattered timber, bears E. and SW.
7.00	Leave valley land, bears E. and W., and asc. abruptly over red sandstone ledges, bear same.
8.60	Top of sandstone spur, 140 ft. above the cor., projects S. 80° E., desc. abruptly.
14.00	Foot of steep slope, bears NW. and SE., enter rolling valley land.
36.00	Enter scattered juniper timber, bears E. and W.
40.00	On slight NW. slope, 120 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground, to solid rock, and 16 ins. in a mound of stone, 3 ft. base, for ¼ sec. cor., with brass cap mkd.
	1¼ / S 30 | S 29 / 1916
	from which
	A juniper, 8 ins. dia., bears N. 4° E., 107 lks. dist., mkd. ¼ S 29 BT.
	A juniper, 7 ins. dia., bears S. 48½° W., 34 lks. dist., mkd. ¼ S 30 BT.
	From the ¼ sec. cor., North Six Shooter Peak bears S. 42° 20' W.
58.00	Cattle trail bears E. and W.
72.00	Wash, 40 lks. wide, 5 ft. deep, drains NE.

Subdivision of T. 30 S., R. 21 E.

Chains	
80.00	On slight NE. slope, 130 ft. below the ¼ sec. cor., Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, with brass cap mkd.

T 30 S R 21 E

S 19	S 20
S 30	S 29

1916

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

No suitable trees within limits for bearing trees.

Land, rolling valley and steep slopes from spur, general westerly drainage.

Soil, on rolling valley, light sandy clay loam, 1 ft. deep on rocky subsoil; remainder, rocky and sandstone ledges.

Undergrowth, shadscale and greasewood.

Timber, scattered junipers.

S. 89°58° E., on random line, bet. secs. 20 and 29.

40.00 Set temp. ¼ sec. cor.

79.96 Intersect N. and S. line 7 lks. N. of the cor. of secs. 20, 21, 28 and 29.

Thence,

N. 89°55' W., on true line, bet. secs. 20 and 29.

Over broken and rough valley land, asc. over sandstone ledges through shadscale and greasewood undergrowth and a few scattered scrubby junipers.

4.00 Asc. more abruptly over red sandstone ledges, bear NW. and SE.

8.00 Top of asc. over ledges, 50 ft. above sec. cor., thence over broken bench land,

36.00 Desc. over sandstone ledges, bear NE. and SW.

39.38 On N. side of deep red sandstone ledges, bear E. and W.,

Chains	
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	S 20 ¼ S 29 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, north of cor.
	Desc. abruptly over red sandstone ledges, bear N. 80° E. and S. 80° W.
42.00	Foot of ledges, bear NE. and SW., 90 ft. below the ¼ sec. cor., thence over rolling valley land,
53.30	Wash, 30 lks. wide, 10 ft. deep, drains N. 50° E.
79.96	The cor. of secs. 19, 20, 29 and 30, 20 ft. above foot of ledges.
	Land, west 38 chs., rolling valley, draining NE., remainder, broken bench land, ledges, sandstone formation.
	Soil, west 38 chs., light sandy clay loam, partly mixed with rock, 2 ft. deep on rocky subsoil; remainder, loose rock and sandstone ledges.
	Undergrowth, shadscale and greasewood,
	Timber, a few scattered scrubby junipers.
	S. 89°57' W., on random line, bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
79.74	Intersect west bdy. of Tp. 2 lks. S. of the cor. of secs. 19, 24, 25 and 30.
	Thence,
	N. 89°58' E., on true line, bet. secs. 19 and 30.
	Over nearly level valley land, through scattered shadscale and greasewood undergrowth,
25.00	Wash, 150 lks. wide, 2ft. deep, drains NE.
35.00	Wash, 20 lks. wide, 2 ft. deep, drains N. 40° E.

Subdivision of T. 30 S., R. 21 E.

Chains

39.74 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

S 19
¼
S 30
1916

dig pits, 18 x 18 x 12 ins. on line, E. and W. of post, 3 ft. dist., and scatter earth.

73.74 The cor. of secs. 19, 20 29 and 30.

Land, nearly level valley, slight NE. drainage.

Soil, light sandy clay loam, 2 ft. or more deep, on stony clay subsoil.

Undergrowth, shadscale and greasewood,

Timber, none.

N. 0°03' W., bet. secs. 19 and 20.

Over rolling valley land, slight east slope, through shadscale and greasewood undergrowth, and a few scattered scrubby junipers.

28.40 Wash, 60 lks. wide, 2 ft. deep, drains NE.

30.50 Wash, 50 lks. wide, 3 ft. deep, drains E.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼
S 19 | S 20
1916

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

74.00 Wash, 30 lks. wide, 2 ft. deep, drains S. 80° E.

80.00 On slight E. slope, 100 ft. above the cor. of secs. 19, 20, 29 and 30,

Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone,

Chains	
	4 ft. base, for the cor. of secs. 17, 18, 19 and 20, with brass cap mkd.
	T 30 S R 21 E S 18 S 17 S 19 S 20 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Land, rolling valley, sandstone formation, general E. drainage.
	Soil, light sandy clay loam, 1 to 2 ft. deep on rocky and sandy clay subsoil.
	Undergrowth, shadscale and greasewood.
	No timber except for a few scattered scrubby junipers.
	6
	S. 89°55' E., on random line, bet. secs. 17 and 20.
40.00	Set ~~temp~~ ¼ sec. cor.
79.96	Intersect N. and S. line 5 lks. S. of the cor. of secs. 16, 17, 20 and 21.
	Thence,
	N. 89°57' W., on true line, bet. secs. 17 and 20.
	Over valley bottom, desc. to Indian Creek, through a few scattered cottonwoods.
.20	Right bank of Indian creek, 4 ft. high, bears N. and S.
.50	Center of Indian Creek, 60 lks. wide, 2 ft. deep, now in flood, with swift, muddy water, course north.
.80	Asc. over left bank of Indian Cr., 5 ft. high, bears N. and S. Thence over rolling valley land, and enter shadscale and greasewood undergrowth.
5.00	Leave valley land, bears N. and S., and asc. over red sandstone ledges.
9.00	Spur, 100 ft. above the creek, projects N., desc. over broken sandstone ledges.

Subdivision of T. 30 S., R. 21 E.

Chains	
22.50	Foot of ledges, bear N. and S., thence over rolling valley.
35.50	Wash, 20 lks. wide, 3 ft. deep, 70 ft. below spur, drains N. 25° E., asc.
39.98	On slight NW. slope, 20 ft. above the wash, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd. S 17 / ¼ / S 20 1916 raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
61.70	Wash, 20 lks. wide, 2 ft deep, drains N. 20° E. Asc.
79.36	The cor. of secs. 17, 18, 19 and 20, 100 ft. above the ¼ sec. cor.
	Land, rolling valley and broken slopes of spur, general north drainage.
	Soil, on rolling valley, light sandy loam, 2 ft. or more deep on rocky subsoil; on slopes, rocky and stony on red sandstone ledges.
	Undergrowth, shadscale and greasewood.
	Timber, a few scattered cottonwoods along the creek.

	S. 89°58' W., on random line, bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
79.58	Intersect west bdy. of Tp. at 12 lks. N. of the cor. of secs. 13, 18, 19 and 24.
	Thence,
	N. 89°53' E., on true line, bet. secs. 18 and 19.
	Over nearly level valley land, through shadscale and greasewood undergrowth.
36.00	Wash, 20 lks. wide, 2 ft. deep, drains N. 30° E.
39.58	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

Subdivision of T. 30 S., R. 21 E.

Chains	
	S 18 ¼ S 19 1916
	dig pits, 18 x 18 x 12 ins. on line E. and W. of post, 3 ft. dist., and scatter earth.
79.58	The cor. of secs. 17, 18, 19 and 20.
	Land, nearly level valley, slight NE. drainage.
	Soil, light sandy loam, 2 ft. or more deep, on sandy and stony subsoil.
	Undergrowth, shadscale and greasewood.
	No timber.
	N. 0°03' W., bet. secs. 17 and 18.
	Over rolling valley land, through shadscale and greasewood undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 18 | S 17 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
50.00	Leave rolling valley land, bears N. 80° E. and S. 70° W. and desc. over sandstone ledge 30 ft. high.
60.00	Foot of ledge, bears E. and W., thence over rolling valley
74.70	Desc. 20 ft. over sandstone ledge bears E. and W.
80.00	On NW. slope, 180 ft. below the ¼ sec. cor.,
	Set an iron post, 3 ft. long, 2 ins. dia., 14 ins. in the ground to ledge rock, and 10 ins. in a mound of stone, 3 ft. base, for cor. of secs. 7, 8, 17 and 18, with brass cap mkd.

Subdivision of T. 30 S., R. 21 E.

Chains

T 30 S R 21 E

S 7	S 8
S 18	S 17

1916

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

Land, rolling valley and broken slopes of ledges, general north drainage.

Soil, on rolling valley, light, loose sandy loam, 1 to 2 ft. deep on rocky subsoil; soil on ledges, rocky and stony.

Undergrowth, shadscale and greasewood.

No timber.

S. 89°57' E., on 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°50' W., on true line, bet. secs. 8 and 17.

Over rolling valley bottom, desc. gradually to Indian Cr. through shadscale and greasewood undergrowth.

8.00 Center of Indian Creek, 60 lks. wide, 6 ins. deep, course N. 20° W., swift muddy water, now in flood, 20 ft. below thesec. cor.

Asc. gradually.

39.50 Leave nearly level valley land, bears N. 40° W. and S., and asc. over sandstone ledges.

39.98 On E. slope of ledges, 25 ft. above the creek;

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼ S 8 / S 17

1916

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
57.20	Top of sandstone ledges, bear N. 40° E. and S. 60° W., 160 ft. above the ¼ sec. cor., thence over bench land.
61.60	Leave bench land, bears N. and S., desc. over ledges.
70.30	Gulch, 155 ft. below bench land, drains S. 60° E., desc. over ledges.
77.00	Foot of ledges, bear N. and S., thence over rolling land.
79.36	The cor. of secs. 7, 8, 17 and 18, 210 ft. below benhh land.
	Land rolling valley and broken bench land, sandstone formation, general E. and W. drainage from bench.
	Soil, light sandy loam, loose mixed with sandrock, shallow on rocky subsoil.
	Undergrowth, shadscale and greasewood.
	No timber.

S. 89°53' W., on random line, bet. secs. 7 and 18.

40.00	Set temp. ¼ sec. cor.
79.54	Intersect west bdy. of Tp. 5 lks. N. of the cor. of secs. 7, 12, 13 and 18.

Thence,

N. 89°51' E., on true line, bet. secs. 7 and 18.

Over rolling valley land, asc. gradually through shadscale abd greasewood undergrowth.

32.00	Leave rolling valley land, bears N. 30° W. and S. 30° E., and asc. over sandstone ledges.
39.54	On SW. slope, 75 ft. above sec. cor., Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

$$\frac{\frac{1}{4}\ S\ 7}{S\ 18}$$

1916

Subdivision of T. 30 S., R. 21 E.

Chains	
	dig pits, 18 x 18 x 12 ins. on line, E. and W. of post, 3 ft. dist., and scatter earth.
44.50	Top of ledges, bear S. and N. 20° W., 30 ft. above the ¼ sec. cor., thence over bench land,
48.50	Leave bench land, bears N. and S., and desc. over sandstone ledges.
52.50	Foot of ledges, bear N. and S., thence desc. gradually over rolling valley land.
69.55	Wash, 30 lks. wide, 3 ft. deep, drains N. 20° E., 65 ft. below top of bench.
79.54	The cor. of secs. 7, 8, 17 and 18, 10 ft. above wash.
	Land, rolling valley, broken by ledges and bench land, east and west drainage from bench.
	Soil, on rolling valley, light sandy loam, loose partly mixed with sandrock, 2 ft. deep on rocky subsoil; remainder, loose sand and rock on ledges.
	Undergrowth, shadscale and greasewood.
	No timber.

N. 0°03' W., bet. secs. 7 and 8.

Over stony, rolling valley land, desc. gradually through shadscale and greasewood undergrowth.

17.00	Wash, 45 ft. below the cor., drains N. 30° E., 15 lks. wide and 2 ft. deep.
28.00	Same wash, 20 lks. wide, 2 ft. deep, drains N. 40° W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 7 | S 8

1916

dig pits, 18 x 18 x 12 ins. on line N. and S. of post, 3 ft. dist., and scatter earth.

Cor. is 65 ft. below the sec. cor.

Chains	
48.50	Same wash, 50 lks. wide, 2 ft. deep, drains N. 60° E.
50.00	Leave rolling valley land, bears N. 70° E. and S. 70° W., and asc. over red sandstone ledges, bear same.
68.40	Rocky point of spur, projetcs S. 70° E., 20 ft. above the ¼ sec. cor., desc.
73.50	Head of gulch, 30 ft. below spur, drains S. 60° E., asc.
76.25	Rocky spur, 40 ft. above head of gulch, projects S. 60° E., desc.
80.00	On NE. slope, 85 ft. below spur, Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to solid rock and 18 ins. in a mound of stone, 4 ft. base, for cor. of secs. 5, 6, 7 and 8, with brass cap mkd.

T 30 S R 21 E

S 6 | S 5

S 7 | S 8

1916

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

Land, south 50 chs., rolling valley, general N. drainage, remainder, rough and broken slopes from spurs, sandstone formation.

Soil, south 50 chs., light loose sandy loam, 2 ft. deep on rocky subsoil; remainder, rocky and stoney on slopes of sandstone spurs.

Undergrowth, shadscale and greasewood.

No timber.

S. 89°50' E., on random line, bet. secs. 5 and 8.

40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 10 lks. S. of the cor. of secs. 4, 5, 8 and 9.

Thence,

Subdivision of T. 30 S., R. 21 E.

Chains	
	N. 89°54' W., on true line, bet. secs. 5 and 8.
	Over gently rolling valley land, draining NW. desc. gradually through shadscale and greasewood undergrowth.
2.80	Wash, 30 lks. wide, 2 ft. deep, drains N. 70° W., 10 ft. below the cor. Asc. gradually.
20.00	Leave rolling valley land, bears N. and S., and asc. over sandstone ledges, bear same.
32.60	Rocky ridge, 65 ft. above wash, bears N. and S. Desc. over sandstone ledges.
39.50	Foot of ledges, bear N. and S., thence over rolling and broken valley land,
40.00	On west slope, 85 ft. below ridge,
	Set an iron post, 3 ft. long 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	S 5 / $\frac{1}{4}$ / S 8 / 1916
	dig pits, 18 x 18 x 12 ins. on line, E. and W. of post, 3 ft. dist., and scatter earth.
61.00	Wash, 12 lks. wide, 3 ft. deep, drains N. 60° W., 20 ft. below $\frac{1}{4}$ sec. cor. Desc. to Indian Cr.
69.20	Desc. over right bank of Indian Cr., 3 ft. high, bears N. and S.
69.80	Center of Indian Cr., 120 lks. wide, 6 ins. deep, course N., muddy water, swift current, in flood at this time.
70.40	Asc. over left bank, 4 ft. high, bears N. and S. Thence over rolling valley land,
72.60	Leave rolling valley land, bears N. and S., and asc. over barren samdstone ledges.
80.00	The cor. of secs. 5, 6, 7, and 8, 75 ft. above the creek.
	Land, rolling valley and sandstone ledges, general east and west drainage into Indian Cr.
	Soil, light and loose sandy loam mixed with broken sandrock, shallow on sandy and rocky subsoil.

Chains	
	Undergrowth, shadscale and greasewood.
	No timber.
	S. 89°51' W., on random line, bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
79.40	Intersect west boundary of Tp. 12 lks. S. of the cor. of secs. 1, 6, 7 and 12.
	Thence
	N. 89°56' E., on true line, bet. secs. 6 and 7.
	Over broken valley land, asc. gradually over rocky soil through shadscale and greasewood undergrowth.
16.00	Low ridge, 85 ft. above the cor., bears N. and S., desc. over sandstone ledges.
39.40	On east slope, near foot of ledges, 110 ft. below ridge, Set an iron post, 3 ft. long, 1 in. dia. on ledge rock, 26 ins. in a mound of stone, 5 ft. base, for ¼ sec. cor., with brass cap mkd.

S 6

¼

S 7

1916

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

40.00	Foot of ledges, bear N. 60° E. and S. 60° W., 10 ft. below ¼ sec. cor. Thence over nearly level valley land.
64.00	Leave valley land, bears N. and S., and asc. over sandstone ledges.
76.30	Ridge, 145 ft. above valley land, bears N. and S. Desc. over sand stone ledges.
79.40	The cor. of secs. 5, 6, 7 and 8, 90 ft. below ridge.
	Sand, rolling valley and broken slopes from ridges, NE. and NW. drainage.
	Soil, on rolling valley, light sandy and rocky loam; 1 to 2 ft. deep on rocky subsoil; remainder, rocky and stony

Chains	
	on sandstone ledges.
	Undergrowth, shadscale and greasewood.
	No timber.

	N. 0°03' W., on random line, bet. secs. 5 and 6.
40.00	Set temp. ¼ sec. cor.
61.30	Intersect N. bdy. of Tp. 2 lks. west of the cor. of secs. 5 and 6.
	Thence,
	S. 0°03' E., on true line, bet. secs. 5 and 6.
	Over rolling and broken bench land in valley bottom, desc. gradually through shadscale and greasewood undergrowth.
7.30	Wash, 20 lks. wide, 2 ft. deep, drains S. 60° E., 25 ft. below the cor.
56.00	Wash, 40 lks. wide, 2 ft. deep, drains W., asc.
86.50	Low ridge, 125 ft. above wash, bears E. and W., desc.
118.00	Foot of desc. bears E. and W., thence over nearly level valley land,
121.30	On SW. slope, 75 ft. below ridge,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 6 | S 5

1916

	raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
128.00	Center of Indian Creek, 60 lks. wide, 6 ins. deep, course N. 80° W., swift current, muddy water.
141.00	Leave valley land, bears E. and W., and asc. over sandstone ledges, bear same.
161.30	The cor. of secs. 5, 6, 7 and 8, 110 ft. above the creek. Land, rolling valley, broken bench land, and sandstone ledges, general E. and W. drainage into Indian Creek.

Subdivision of T. 30 S., R. 21 E.

Chains

Soil, generally loose and light sandy loam, mixed with broken sandrock, and sandstone outcroppings.

Undergrowth, shadscale and greasewood.

No timber.

LATITUDES, DEPARTURES AND CLOSING ERRORS.

Line Designated	Course	Distance Chs.	Latitudes N. Chs.	Latitudes S. Chs.	Departures E. Chs.	Departures W. Chs.
E.bdrs. secs. 34, 27 and 22.....	N. 0°01'W.	240.00	240.00	.....	.....	0.07
N. bdy. sec. 22...	S.89°59'W.	80.23	.....	0.02	.....	80.23
E.bdrs.secs.9 & 16	N. 0°02'W.	160.00	160.00	.....	.....	0.09
N. bdy. sec. 9....	West.....	79.94	.....	.....	.....	79.94
E. bdy. sec. 5....	N. 0°03'W.	161.20	161.20	.....	.....	0.14
N.bdrs.secs.5 & 6.	West.....	159.24	.....	.....	.....	159.24
West Bdy. of Tp...	South.....	561.44	.....	561.44	.....	.....
S. bdrs. secs. 31, 32,33 and 34	East.....	320.00	.....	.....	320.00	.....
Convergency.....	.....	.....	.....	.....	.....	0.35
Totals.....			561.20	561.46	320.00	320.66
				561.20		320.00
Error in lat.....				0.26		
Error in dep.....						0.06

GENERAL DESCRIPTION OF T. 30 S., R. 21 E.

About two-thirds of the township embraces the rolling valley lands along the bottoms of Indian Creek canyon and Hart Draw, the remainder consisting of bare sandstone ledges and cliffs, the broken points of high mesas, from 900 to 1600 ft. above the valley land. The greater por-

Chains

tion of these ledges were practically unsurveyable, consisting of two distinct strata: the deep red, averaging from 250 to 350 ft. perpendicular height, continuous and inaccessible for miles; and the white ledge, lying on top of the red, averaging from 150 to 250 ft. in height, and also inaccessible, being eroded to form rounded domes, buttes and other fantastic formations of huge proportions. From the base of the red ledge or cliff, a series of broken sandstone ledges, of softer material, extend down to the rolling valley, and are accessible only with difficulty. The bottom of Indian Creek Valley is generally rolling, becoming rocky, with sandstone ledges exposed in the northern part of the Tp. In the S". portion of the Tp. are bench lands and sandstone columns, the eroded remains of former high mesas. North Six Shooter Peak is a column of deep red sandstone, 200 ft. high and 30 to 40 ft. in thickness, on a pyramid-shaped base, and is a prominent landmark in this locality. Hart Draw, in reality a wide canyon with rock rimmed walls, runs west through the northern part of the Tp., emptying into Indian Creek in sec. 5.

The main ledges are denuded of soil, known as "slick" sandrock; the series of broken ledges lying at the base of the cliffs are covered with a loose sand and rock soil, and in part blue and red clay. The soil covering the lower valley is generally a shallow sandy and rocky loam, loose and dry, while the valley in the southern part of the Tp. is covered with a reddish sandy clay loam, from 1 to several ft. deep, and with irrigation, will make good farming land.

Shadscale and greasewood undergrowth generally cover the Tp., with some scattered sage in the south part. A scattered growth of scrubby juniper and pinon timber occur in places, and cottonwood trees grow along the banks of Indian Creek. There are some grazing grasses, but rather scant.

The main suppl

General Description of T. 30 S., R. 21 E.

The main supply of water in the Tp. is Indian Creek, running northerly through the western part of the Tp. The minimum flow is probably about 15 sec. ft., and from some high water marks found, flood flows reach two or three thousand sec. ft. At the time of this survey, the stream carried about 150 sec. ft. continuously, resulting from heavy rains in the Blue Mountains. The water is always muddy, carrying much silt in floods, is continually caving in its banks, and can be made fit for drinking by filtering, or by wells along the bank. The continual caving in of the banks will be a menace to farming if measures are not taken to prevent this, as in time the entire cultivable part of the valley will be washed out. The nature of the valley bottom affords an excellent opportunity for irrigating, canals of only relatively short lengths being necessary to convey the water to cultivable lands. On account of the warm climate in this valley, nearly any kind of produce could be raised by irrigation.

A small stream of water was found in the Hart Draw wash, disappearing at intervals along the bottom; this water contains alkali or soda, and probably only runs above the surface in wet seasons.

Small springs of clear water were found in SE¼ NE¼ sec. 12; NE¼ SE¼ sec. 2, and NW¼ NE¼ sec. 26.

No minerals were found in the Tp., although the strata which carrye manganese in other localities outcrop in the red ledges on the eastern part of Tp. The uranium and radium bearing strata lies above the top of the white sandstone strata, and have been entirely eroded away in this Tp.

The following improvements were found: About 10 chs. wire fencing in SW¼ SW¼ sec. 33, owner unknown, About 5 acres plowed in center of sec. 21, value $ 50, purported to have been made by H. L. Hanson; about 10 acres in center of sec. 28 and 5 acres in sec. 33 plowed, and some

corner posts set, improvements purported to have been made by Leroy Wood, Value, about $180.00,; About 10 acres cleared and plowed in SE¼ sec. 23, and corner posts, by Kate Hanson, value, $150.00; about 10 acres plowed in SE¼ sec. 21 and E½ sec. 28, and about ⅛ mile of furrow, the beginning of canal construction, in sec. 28, by A. S. Wood, value $ 200.00.

No settlers were on the Tp. at the time of the survey.

---

o

Volume
#
R0428

Blank

Page

Sources of Water Supply in T. 28 S., R. 21 E.

Sec. 1- SE¼ NE¼; NE¼ NE¼; NW¼ NE¼; NE¼ NW¼. Hart Draw. lots 13 and 14.

Sec. 2- Lots 13, 14, 15 and 16, Hard Draw;, and NE¼ SE¼, small spring.

Sec. 3-N½ N½, Hart Draw. Not permanent water.

Sec. 4- SE¼ NE¼. Hart Draw. " " "

Sec. 5- W½ SW¼, Indian Cr.

Sec. 6- N½ SE¼; SW¼ NE¼; S½ NW¼. Indian Cr.

Sec. 8- NW¼ NW¼; SE¼ NW¼; NW¼ SE¼; SE¼ SE¼-Indian Cr.

Sec. 12- SE¼ NE¼. small spring.

Sec. 17- E½ E½, Indian Cr.

Sec. 20- NE¼ NE¼, Indian Cr.

Sec. 21- W½ NW¼; NW¼ SW¼; E½ SW¼, Indian Cr.

Sec. 26- NW¼ NE¼, small seep spring.

Sec. 28- E½ W½, Indian Cr.

Sec. 33-E½ NW¼; E½ SW¼; SW¼ SE¼, Indian Cr.

Volume
#
R0428

Blank

Page

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities ted opposite our several signatures, in surveying all those parts or portions of ....

....

....

....

....

....

....

the .... Meridian, in the State of .... ich are represented in the foregoing field notes as having been executed by him, and under his direc- n; and that said survey has been, in all respects, to the best of our knowledge and belief, well and thfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	Begun.	Ended.	

Subscribed and certified to before me on the dates of the final service as shown above.

....
U. S. Surveyor.

~~FINAL OATH~~ OF UNITED STATES ~~SURVEYOR~~.

I, Howard G. Mason, Transitman certify on honor, U. S. ~~Surveyor~~, do ~~solemnly swear~~ that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the third day of February, 1916, 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~~ resurveyed all those parts or portions of the East, North and West Boundaries of T. 30 S., R. 21 E., and surveyed all the parts or portions of the subdivisions of T. 30 S., R. 21 E.,

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and index diagram on page 1 of same/ and on dates shown on said diagram as having been executed by me, and under my direction; and I do further ~~solemnly swear~~ certify on honor 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 U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Howard G Mason
March 3-1917 U. S. ~~Surveyor~~ Transitman

~~Subscribed by said ..... and sworn to before me this ..... day of ....., 191~~

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 191

The foregoing field notes of the survey of .....

executed by .....

under his special instructions dated ....., 191, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

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. Surveyor General.

6—2761

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,

_____, U. S. Surveyor, during the periods and in the capacities

ted opposite our several signatures, in surveying all those parts or portions of _____

_____

_____

_____

_____

_____

_____

_____

the _____ Meridian, in the State of _____

ich are represented in the foregoing field notes as having been executed by him, and under his direc-

n; and that said survey has been, in all respects, to the best of our knowledge and belief, well and

thfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

_____

U. S. Surveyor.

~~FINAL OATH~~ OF UNITED STATES SURVEYOR.

I, Thos. C. Rathbone, U. S. Surveyor, do ~~solemnly swear~~ certify on honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the third day of February, 1916, 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~~ resurveyed all those parts or portions of the East, North and West Bdrs. of T. 30 S., R. 21 E., and surveyed all those parts or portions of the subdivisions of T. 30 S., R. 21 E., of the Salt Lake Base and Meridian, in the State of Utah, which are represented on the foregoing field notes/as having been executed by me, and under my direction; and I do further ~~solemnly swear~~ certify on honor 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 U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

and index diagram on page 1 of same, / and on the dates shown on said

Thos. C. Rathbone
March 3, 1917 U. S. Surveyor.

~~Subscribed by said ..... and sworn to before me this ..... day of ....., 191~~

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Oct. 12, 1917

The foregoing field notes of the survey of the north, east and west boundaries, and the survey of the subdivision of Township No. 30 South, Range No. 21 East, of the Salt Lake Base and Meridian, Utah,

executed by Thos. C. Rathbone and Howard G. Mason under his special instructions dated February 3, 1916, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys and surveys they describe, are hereby approved.

U. S. Surveyor General.

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.

6—2761

U. S. Surveyor General.

Blank

Page

Blank

Page

4—679

A.

FIELD NOTES

OF THE SURVEY OF THE

SIXTH STANDARD PARALLEL SOUTH, THROUGH RANGE NO. 25 EAST,

WEST AND EAST BOUNDARIES

AND

SUBDIVISION

OF

TOWNSHIP NO. 30 SOUTH, RANGE NO. 25 EAST;

RESURVEY OF SOUTH BOUNDARY,

RETRACEMENT OF PART OF THE EAST BOUNDARY,

TOWNSHIP NO. 29 SOUTH, RANGE NO. 25 EAST;

AND

RESURVEY OF PART OF SOUTH BOUNDARY SECTION 36

TOWNSHIP NO. 29 SOUTH, RANGE NO. 24 EAST

Of the SALT LAKE BASE AND *Meridian,*

the State of UTAH

EXECUTED BY

THOMAS C. RATHBONE AND HOWARD G. MASON

the capacity of U. S. ~~*Surveyor*~~ Transitmen, *under instructions dated* February 3, *1916,*

ued by the United States Surveyor General to govern surveys included in

oup No. 53, *which were approved by the Commissioner of the General Land*

ice, February 17, *1916*; and under assignment instructions is-

ed by the Assistant Supervisor of Surveys for the District of Utah,

ly 1, 1916.

Survey commenced July 17, *1916*

Survey completed September 9, *1916.*

6—151

Examinations Classified

A Plat E.M.H. C.B.H. Notes E.M.H. C.B.H.

B Computations E.M.H.&C.B.H.

Comparing

C Plat V.I.F. Notes K.F.B.

INDEX DIAGRAM.

Township 30 South, *Range* 25 East/

40	39	37	36	35	33	32	
22	6 105 5 89 4 76 3 63 2 51 1						30
	104	103	88	75	62	50	
21	7 102 8 86 9 74 10 61 11 49 12						28
	101	100	85	73	60	48	
19	18 99 17 84 16 72 15 59 14 47 13						27
	98	97	83	71	58	46	
18	19 96 20 82 21 70 22 57 23 45 24						26
	95	94	81	69	56	44	
17	30 93 29 80 28 67 27 54 26 43 25						25
	92	91	79	66	53	42	
16	31 90 32 78 33 65 34 52 35 41 36						23
	7	8	10	11	13	14	

31

6-151

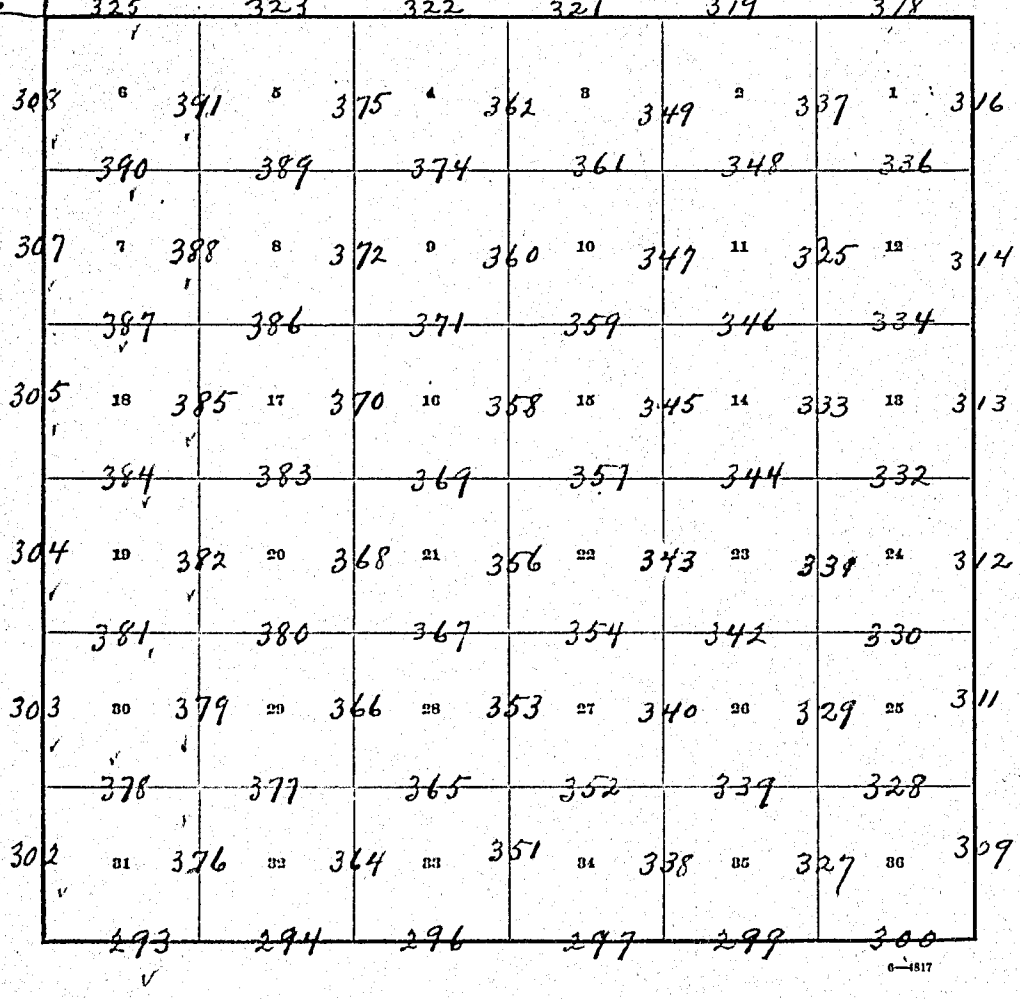
4—679 b

INDEX DIAGRAM.

36

326

Township 30 S., Range 25 E.



6—4817

LIST OF ASSISTANTS.

Barnum B. Packard,	Head Chainman.
Lynn Phelps,	Rear Chainman.
Ulrey Dorman,	Head Chainman.
Eugene Stowell,	Rear Chainman.
La Mar Johnson,	Flagman.
Warren Clark,	Flagman.
Richard Heldberg,	Moundman.
Homer Johnson,	Moundman.
Byron F. Crookston,	Axeman.
Oral Hall,	Axeman.

4—679 b

INDEX DIAGRAM.

FOR DATES.

Township 30 South, *Range* 25 East

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

Lines in above diagram, along which dates are typed red, were surveyed by Thomas C. Rathbone; and lines along which dates are typed black were surveyed by Howard G. Mason.

Blank

Page

Surveys executed with Young & Sons transits Nos. 7192 and 8487, each equipped with Smith solar attachment. The horizontal limbs provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were approved by the assistant supervisor of surveys for the District of Utah, conditional upon satisfactory field tests.

Five-chain steel tapes and clinometers were used in the execution of the surveys; the reduced horizontal distances only, appearing in these field notes. The tapes were tested frequently with a standard one-chain steel tape, used for that purpose only.

Test of instrument No. 7192, used by Thos. C. Rathbone:

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during p.m. and a.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

July 17, 1916:

At my camp, which is located in the NW.¼ of sec. 18, T. 30 S., R. 25 E.; approximate lat. 38° 13' N.; approximate longitude 109° 15' W., I set off 38° 13' N. on the lat. arc; 21° 09½' N. on the decl. arc; and at 4h 30m p.m., apparent time, determine with the solar a meridian, and note a sharp point on a ledge which bears S. 10° 21' W. 3 miles distant.

At 7h 16m p.m. l.m.t., I backsight to point on ledge, and turn 170° 11' to the right, and observe Polaris in position.

U.C. Polaris July 17, 1916,	5h 51.0m a.m.
Correction for long. of station	1.2m
L.m.t. U.C. Polaris	5h 49.8m a.m.

L.m.t.of observation 7h 16m p.m.

Time argument 10h 29.9 m.

Azimuth of Polaris , N.0° 32'E.

July 18, 1916: At 7h 30m a.m. apparent time, I set off 38° 13'N.on the lat.arc; 21° 3'N.on the decl.arc; and determine a meridian with the solar, whence the point on ledge bears S.10° 21'W.

The solar apparatus by a.m.and p.m.observations, defines position for meridian, approximately 32' E.of the meridian established by the Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

Test of instrument No.8487, used by Howard G.Mason, was made at the same time, and at same place, and is identical in all respects with the test of instrument No. 7192, as above recorded.

Chains.	
	From the standard cor. of T. 30 S., Rs. 24 and 25 E., which is an iron post, 3 ft. long, 3 ins. in dia., firmly set and properly marked and witnessed, established under Group No. 31, Utah,
	East, on S. bdy. sec. 31,
	Descending gradually, through cedar and pinon pine timber.
1.70	Wash, 15 ft. below sec. cor., drains N. 10° W., 4 ft. deep, 10 lks. wide. Ascend gradually.
4.00	Leave timber, bearing N. 80° W., and S. 20° E. Enter sagebrush opening, with few scattering pinon pines and cedars,
8.78	Fence, bears N. 10° E., and S. 10° W.
14.00	Wash, 20 ft. below sec. cor., drains S. 10° W. 6 ft. deep, 16 lks. wide.
25.20	Wash, drains N., 1 ft. deep, 4 lks. wide.
30.00	Road to uranium camp bears NW. and SE.
40.00	No difference between measurements of 40.00 chs. by two sets of chainmen
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for standard ¼ sec. cor., with brass cap mkd.

S C
¼ S 31
1916

from which

A pinon pine, 7 ins. dia., bears N. 14° E. 279 lks. dist., marked S C ¼ S 31 B T

No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

57.00	Spur, 50 ft. above ¼ sec. cor., projects S.
	Descend gradually.
62.50	Enter timber, bearing N. and S.
64.70	Ledge, 25 ft. high, bears N. and S. Descend.
67.00	Foot of descent; enter canyon bottom.
74.00	Bottom of canyon, 150 ft. below spur, drains N. 10° W.
	Ascend gradually.

Chains.

77.00 Spur, 20 ft. above canyon, projects N. 15° W. Descend.

80.00 Point for sec. cor. falls in gulch, 35 ft. below spur, draining NW., where it will be impossible to perpetuate corner. No corner set. Ascend.

No difference between measurements of 83.62 chs. by two sets of chainmen. At

83.62 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in mound of stone, for witness corner to standard cor. of secs. 31 and 32, with brass cap marked

S C
T 30 S | R 25 E
S 31 | S 32
WC
1916

from which

A pinon pine, 16 ins. dia., bears N. 51° 30' E. 114 lks. dist., marked W C S C T 30 S R 25 E S 32 B T

A cedar, 8 ins. dia., bears N. 58° W. 106 lks. dist. marked W C S C T 30 S R 25 E S 31 B T

Natural obstacles prevent setting post in the ground.

Corner on spur, 35 ft. above canyon, projecting S.

Land, mountainous, rough, at base of high mesa.

Soil, sandy and gravelly clay loam, shallow.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

From true point for standard cor. of secs. 31 and 32, East on S. bdy. sec. 32,

Ascending through cedar and pinon pine timber, over broken sandstone ledges.

3.62 The witness cor. for standard cor. of secs. 31 and 32,

4.92 Gulch, 35 ft. deep, drains S. 75° W. Thence along bank.

9.62 Leave gulch, draining N. 70° W. Ascend gradually.

8.00 Spur, 55 ft. above gulch, projects S. Descend gradually.

Difference between measurements of 40.00 chs. by two sets of chainmen is 10 lks.; position of middle point

Chains.

By 1st set 40.05 chs.

By 2d set set 39.95 chs. the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. in dia., 4 ins. in the ground, surrounded by mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap marked

S C
$\frac{1}{4}$
S 32
1916 ✓

From which

A pinon pine 10 ins. dia., bears N. 40° 0' E. 41 lks. dist., marked S C $\frac{1}{4}$ S 32 B T ✓

A pinon pine, 7 ins. dia., bears N. 22° 30' W. 83 lks. dist., marked S C $\frac{1}{4}$ S 32 B T ✓

Natural obstacles prevent setting post over 4 ins. in the ground.

47.00 Wash, 35 ft. below spur, drains S. 75° W.

Ascend abruptly.

Difference between measurements of 80.00 chs. by two sets of chainmen is 20 lks.; position of middle point

By 1st set 79.90 chs.

By 2d set 80.10 chs.; the mean of which is

80.00 On sandstone spur, 280 ft. above wash, projecting S. 20° W.

Set an iron post 3 ft. long, 3 ins. in dia., in mound of stone, for standard cor. of secs. 32 and 33, with brass cap marked

S 6
T 30 S | R 25 E ✓
S 32 | S 33
1916

From which

A pinon pine 8 ins. dia., bears N. 46° E. 60 lks. dist., marked S C T 30 S R 25 E S 33 B T ✓

A pinon pine, 7 ins. dia., bears N. 34° 30' W. 59 lks. dist., marked S C T 30 S R 25 E S 32 B T ✓

Natural obstacles prevent setting post in the ground.

Land, mountainous; sandstone formation.

Soil, gravelly, stony, some clay, on sandstone base.

Chains.	
	Undergrowth, sagebrush.
	Timber, pinon pine and cedars.
	East on S.bdy.sec.33,
	Descending gradually over broken sandstone ledges, through cedars and pinon pine.
17.50	Wash, 25 ft.below sec.cor., drains S.15° W.
	Ascend gradually.
27.00	Sandstone spur, 70 ft.above wash, projects S.25° W.
	Descend gradually.
36.50	Wash, 50 ft.below spur, drains S.20° W.
	Ascend gradually.
	Difference between measurements of 40.00 chs.by two sets of chainmen is 12 lks.; position of middle point
	By 1st set 40.06 chs.
	By 2d set 39.94 chs.; the mean of which is
40.00	On sandstone ledge, bearing NE. and SW.
	Set an iron post 3 ft.long, 1 in.in dia., in mound of stone, for standard $\frac{1}{4}$ sec.cor., with brass cap marked
	$\frac{S\ C}{\frac{1}{4}\ S\ 33}$ 1916 ✓
	From which
	A pinon pine, 8 ins.dia., bears N.79° E. 110 lks. dist., marked S C $\frac{1}{4}$ S 33 B T
	No other bearing trees within limits; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
	Natural obstacles prevent setting post in the ground.
42.20	Sandstone spur, 60 ft.above wash, projects S.20° W.
	Descend gradually.
46.30	Top of sandstone ledge 180 ft.high bearing N.15° W. and S.15° E.
51.30	Ravine, 200 ft.below spur, drains S.15° E.
	Ascend abruptly.

Chains.

60.00 Sandstone spur, 75 ft. above ravine; projects S. 20° E.
Descend abruptly.

62.00 Ravine 80 ft. below spur, drains S.
Ascend abruptly, over sandstone ledges.

77.30 Sandstone spur, 220 ft. above ravine, projects S.
Descend abruptly.

Difference between measurements of 80.00 chs. by two sets of chainmen is 12 lks.; position of middle point

By 1st set 79.94 chs.

By 2d set 80.06 chs.; the mean of which is

80.00 In bottom of gulch, 50 ft. below cor., draining S.
Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 33 and 34, with brass cap marked

S C
T 30 S | R 25 E
S 33 | S 34
1916

From which

A pinon pine, 9 ins. in dia., bears N. 9° 30' E. 82 lks. dist., marked S C T 30 S R 25 E S 34 B T

A pinon pine, 8 ins. dia., bears N. 63° W. 86 lks. dist., marked S C T 30 S R 25 E S 33 B T

Land, mountainous, sandstone ledges; general drainage south from Three Step Hill.

Soil, rocky and stone; 4th rate.

Timber, cedars and pinon pine.

East along S. bdy. of sec. 34,

Ascending over broken mountainous land, over sandstone ledges; through cedars and pinon pine.

4.30 Sandstone spur, 80 ft. above sec. cor., projects S. 10° W.
Descend abruptly.

6.80 Ravine, 70 ft. below spur, drains S.
Ascend abruptly.

13.50 Sandstone spur, 90 ft. above ravine, projects S. 15° W.

Chains.

Descend abruptly.

18.00 Ravine 100 ft. below spur, drains S.30° W.

21.90 Gulch, 20 ft. deep, drains S.60° W.

Difference between measurements of 40.00 chs. by two sets of chainmen is 12 lks.; position of middle point

By 1st set 40.06 chs.

By 2d set 39.94 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. in dia., in mound of stone, for standard $\frac{1}{4}$ sec. cor., with brass cap marked

S C
$\frac{1}{4}$
S 34
1916

From which

A pinon pine 8 ins. dia., bears N.18° W. 7 lks. dist., marked S C $\frac{1}{4}$ S 34 B T

No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

Corner stands on rocky ledge; impossible to set post in the ground.

58.00 Spur, 200 ft. above ravine, projects SW.

Descend gradually.

67.00 Wash, 50 ft. below spur, drains S.10° W.

Ascend gradually.

Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point

By 1st set 80.02 chs.

By 2d set 79.98 chs.; the mean of which is

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 34 and 35, with brass cap marked

S C
T 30 S | R 25 E
S 34 | S 35
1916

From which

A pinon pine, 10 ins. dia., bears N.70° 0' E. 63 lks. dist., marked S C T 30 S R 25 E S 35 B T

Chains.

A pinon pine, 12 ins. dia., bears N.35°30' W. 93 lks. dist., marked S C T 30 S R 25 E S 34 B T ✓

Corner on SW. slope, 17 ft. above wash.

Land, rough and broken mountains; general drainage south from north rim of Three Step Hill.

Soil, bare sandstone ledges and loose rock.

Undergrowth, scattering sage.

Timber, cedars and pinon pine.

East on S. bdy. sec. 35,

Over broken mountainous country, through cedars and pinon pine; ascending over broken sandstone ledges.

2.70 Base of sandstone ledge, 70 ft. high bears N. and S.

Ascend.

9.00 Spur, 100 ft. above sec. cor., projects S.15° W.

Descend gradually.

12.20 Wash, 30 ft. below spur, drains S.20° W.

Ascend gradually.

Difference between measurements of 40.00 chs. by two sets of chainmen is 22 lks.; position of middle point

By 1st set 39.89 chs.

By 2d set 40.11 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap marked

$$\frac{S\ C\ \frac{1}{4}\ S\ 35}{1916}$$ ✓

From which

A pinon pine, 7 ins. dia., bears N.57° E. 10 lks. dist., marked S C $\frac{1}{4}$ S 35 B T ✓

No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

45.00 Spur, 20 ft. above wash, projects S.

Descend over gentle E. slope.

76.50 Descend abruptly over broken sandstone ledges, bearing

Chains.	
	NW. and SE., rim of mesa.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 16 lks.; position of middle point
	By 1st set 80.08 chs.
	By 2d set 79.92 chs.; the mean of which is
80.00	86 ft. below spur,
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 35 and 36, with brass cap marked

S | C
T 30 S | R 25 E ✓
S 35 | S 36
1916

From which

A pinon pine, 6 ins. dia., bears N. ° 'E. 45 lks. dist., marked S C T 30 S R 25 E S 36 B T ✓

A pinon pine, 6 ins. dia., bears N. ° 'W. 22 lks. dist., marked S C T 30 S R 25 E S 35 B T ✓

Land, rough and broken mountains, along S. side of Three Step Hill; drainage S.

Soil, rocky, stony, sandstone outcrops; 4th rate.

Undergrowth, scattering sage.

Cedar and pinon pine timber.

	East along S. bdy. of sec. 36,
	Descending abruptly, over broken, mountainous land; through pinon pine and cedars.
1.60	Top of sandstone ledge, 75 ft. high, bearing N. and S.
17.00	Huntley Spring, a small seep in tunnel, 1.50 chs. S. of line.
18.20	Wash, 35 ft. deep, 150 lks. wide, drains NE.
19.50	SE. cor. of cabin, on line.
21.60	NE. cor. of house, on line; owner G.O. Patterson.
	Foot of abrupt descent, 450 ft. below sec. cor.
	Leave timber, bearing N. 30° W. and S. 30° E.
	Descend gradually, through sagebrush.

Chains.

26.00 Road, bears NE. and SW.

39.50 Road, bears NW. and SE.

No difference between measurements of 40.00 chs. by two sets of chainmen,

40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap marked

S C
$\frac{1}{4}$
S 36
1916 ✓

Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

71.60 Fence bears N.15° E., and S.15° W.

76.00 Wash, 7 ft. deep, 15 lks. wide, 550 ft. below $\frac{1}{4}$ sec. cor., drains S.50° E.

Ascend gradually.

Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point

By 1st set 80.02 chs.

By 2d set 79.98 chs.; the mean of which is

80.00 On SE. slope, 20 ft. above wash,

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of T.30 S., Rs.25 and 26 E., with brass cap marked

S C
T 30 S
R 25 E | R 26 E
S 36 | S 31
1916 ✓

Dig pits 30 x 24 x 12 ins. crosswise on each line E. and W. 4 ft., and N. of post 8 ft. dist.;

Land, broken, mountainous, and nearly level bottom of Lisbon Valley.

Soil, light, red, sandy, clay loam, 2 ft. or more deep; 1st rate.

Undergrowth, sagebrush.

Timber, cedars and pinon pine.

Chains.	
	From the standard cor. of T.30 S., R.24 and 25 E., heretofore described,
	North bet. secs. 31 and 36,
	Descending gradually, through pinon pine and cedars; soil, sandy loam.
9.00	Wash, 10 ft. deep, drains NW.
	Ascend gradually.
16.00	Leave timber, bearing NW. and SE.
	Enter sagebrush opening, scattering timber.
21.00	Road, bears S.15° E. and N.15° W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 36 | S 31 1916 From which A pinon pine, 6 ins. dia., bears N.8° E. 258 lks. dist. marked $\frac{1}{4}$ S 31 B T A pinon pine, 7 ins. dia., bears N.7° 30'W. 278 lks. dist., marked $\frac{1}{4}$ S 36 B T
43.30	Ridge, 50 ft. above wash, bears E. and W.
	Descend gradually.
50.00	Enter timber, bearing NW. and SE.
60.70	Descend over sandstone ledges bearing NW. and SE.
66.00	Foot of ledges.
	Leave timber bearing NW. and SE. Enter greasewood.
78.20	Bank of wash, 25 ft. above bottom.
78.80	Bottom of wash 160 ft. below ridge, drains S.70° W.
	Ascend gradually.
80.00	10 ft. above bottom of wash,
	Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, with brass cap marked T 30 S. R 24 E | R 25 E S 25 — S 30 S 36 | S 31 1916

Chains.	
	Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.
	Land, mountainous, rolling; general drainage west into Big Indian Wash.
	Soil, sandy clay loam, mixed with rocks; 2d rate.
	Undergrowth, sagebrush.
	Timber, cedars and pinon pine.
	North bet. secs. 25 and 30,
	Through heavy greasewood.
11.50	Wash, 30 ft. deep, drains W.
15.60	Ascend over sandstone ledges bearing N.75° W., and S.75° E. Leave greasewood; enter timber.
28.00	Spur, 210 ft. above wash, projects SW.
	Descend over sandstone ledges.
35.00	Ravine, 200 ft. deep. drains S.60° W.
	Ascend over sandstone ledges.
40.00	Point for ¼ sec. cor. falls on sandstone ledges, where it is impossible to set corner.
42.63	On top of steep ledges,
	Set an iron post 3 ft. long, 1 in. in dia., in mound of stone, for witness cor. to ¼ sec. cor., with brass cap marked
	W ¼ C | S 25 S 30 ✓
	1916
	From which
	A pinon pine, 14 ins. dia., bears N.75° 30'W. 30 lks. dist., marked W C ¼ S 25 B T ✓
	A pinon pine, 9 ins. dia., bears N.82° E. 27 lks. dist., marked W C ¼ S 30 B T ✓
54.40	Sandstone ridge, 450 ft. above ravine, bears N.80° E. and S.80° W. Descend gradually.
62.00	Wash, 10 ft. deep, drains N.60° W.

Chains.

Ascend gradually.

63.40 Center of head, Big Indian Rock, bears N.65° 13'W.

Ridge, 25ft. above wash, bears N.60° E., and S.60° W.

Descend abruptly over sandstone ledges.

79.20 Leave timber, bearing N.80° W. and S.80° E. Enter sagebrush and greasewood flat at foot of ledges.

80.00 Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 19, 24, 25, and 30, with brass cap marked

T 30 S
R 24 E | R 25 E
S 24 | S 19
S 25 | S 30
1916

From which

A pinon pine 6 ins. dia., bears S.10° E. 25 lks. dist., marked T 30 S R 25 E S 30 B T

A pinon pine, 10 ins. dia., bears S.36° W. 54 lks. dist., marked T 30 S R 24 E S 25 B T

No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Corner is set 100 ft. below ridge.

Land, mountainous, sandstone ledges; drainage west into Big Indian Wash.

Soil, rocky, sandy, and loose sand rock.

Undergrowth, greasewood and sagebrush.

Timber, cedars and pinon pine.

North bet. secs. 19 and 24,

Over sagebrush and greasewood flat, Big Indian Valley.

10.00 Big Indian Wash, 150 lks. wide, 6 ft. deep, course SW.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼
S 24 | S 19
1916

Chains.

Dig pits 18 x 18 x 12 ins. N.and S.of post 3 ft. dist.,

From $\frac{1}{4}$ sec.cor., center of head, Big Indian Rock, a prominent topographic feature, red sandstone, about 200 ft. high, and resembling a blanketed indian, bears S.51° 23'W.

80.00 Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of secs.13,18,19, and 24, with brass cap marked

T 30 S
R 24 E | R 25 E
S 13 | S 18
S 24 | S 19
1916

Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.,

Land, level, bottom of Big Indian Valley; slight SW. drainage into Big Indian Wash.

Soil, sandy, clay loam; medium texture, red, 2 ft.or more deep; good for dry farming.

Undergrowth, sagebrush and greasewood.

No timber.

North bet.secs.13 and 18,

Over sagebrush and greasewood flat, Big Indian Valley, soil, sandy loam.

32.00 Road, bears NW. and SE.

34.00 Leave sagebrush and greasewood; enter pinon pines and cedars, bearing N.10° E., and S.10° W.

Ascend gradually.

40.00 Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked

$\frac{1}{4}$
S 13 | S 18
1916

From which

Chains.	
	A pinon pine 8 ins. dia., bears N.51° 30'E. 123 lks. dist., marked ¼ S 18 B T ✓
	A pinon pine, 6 ins. dia., bears N.2° W., 168 lks. dist., marked ¼ S 13 B T ✓
44.60	Road, Moab to Monticello, Utah, bears NE. and SW.
60.00	Spur, 25 ft. high, projects SE.
	Spring, clear, good water, bears E.15.00 chs. dist.
65.80	Road, Moab to Monticello, Utah, bears N.15° W. and S. 15° E.
68.00	Big Indian Wash, 30 ft. below spur, 150 lks. wide, 5 ft. deep, course S.60° E.
	Ascend gradually over limestone slope to SE.
69.68	Spring, clear, good water, bears E. of line 3.00 chs.
80.00	Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, with brass cap marked

T 30 S
R 24 E | R 25 E
S 12 | S 7 ✓
S 13 | S 18
1916

From which

A cedar, 9 ins. dia., bears N.33° 30'E. 14 lks. dist., marked T 30 S R 25 E S 7 B T ✓

A pinon pine, 8 ins. dia., bears S.41° E. 55 lks. dist., marked T 30 S R 25 E S 18 B T ✓

A pinon pine, 11 ins. in dia., bears S.80° 15'W. 34 lks. dist., marked T 30 S R 24 E S 13 B T ✓

A pinon pine, 7 ins. dia., bears N.38° W., 15 lks. dist., marked T 30 S R 24 E S 12 B T ✓

Land, level on S. half-mile; mountainous on N. half. North 10.00 chs. limestone formation; balance of N. half sandstone; general drainage south into Big Indian Wash.

Soil, south 34.00 chs. sandy, clay loam, red, medium texture, 2 ft. deep, or more; balance rocky.

Undergrowth, sagebrush and greasewood.

Timber, cedar and pinon pine.

Chains.	
	North bet. secs. 7 and 12,
	Ascending gradually, over limestone formation; through pinon pine and cedars.
13.65	Gulch, 50 ft. deep, drains S.63° W.
25.30	Gulch, 40 ft. deep, drains S.80° W.
33.00	Gulch, 35 ft. deep, drains S.70° W.
39.70	Gulch 100 ft. deep, drains S.80° W.
40.00	On limestone ledge,
	Set an iron post 3 ft. long, 1 in. in dia., in mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S 12 | S 7 ✓ 1916
	Natural obstacles prevent setting post in the ground.
	A cedar, 18 ins. dia., bears S.36° E. 7 lks. dist. marked $\frac{1}{4}$ S 7 B T ✓
	A pinon pine, 6 ins. dia., bears S.45° W. 9 lks. dist., marked $\frac{1}{4}$ S 12 B T ✓
77.00	Top of S. bank of gulch, bears S.45° W., and N.45° E.
	Descend abruptly.
80.00	Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, with brass cap marked
	T 30 S. R 24 E. | R 25 E. S 1 | S 6 ---+--- S 12 | S 7 1916
	From which
	A pinon pine, 7 ins. dia., bears N.79° E. 31 lks. dist., marked T 30 S R 25 E S 6 B T ✓
	A pinon pine, 6 ins. dia., bears S.17° E. 46 lks. dist., marked T 30 S R 25 E S 7 B T ✓
	A pinon pine, 9 ins. dia., bears S.10° W. 62 lks. dist., marked T 30 S R 24 E S 12 B T ✓
	A pinon pine, 6 ins. dia., bears N.79° W., 42 lks. dist., marked T 30 S R 24 E S 1 B T ✓

Chains.	
	Corner set 70 ft. below top of bank.
	Land, rough, mountainous; limestone formation; N. and S. slopes.
	Soil, rocky and sandy, stony; limestone outcroppings.
	Undergrowth, sagebrush.
	Timber, cedars and pinon pine.
	North bet. secs. 1 and 6,
	Over broken, mountainous country; through cedar and pinon pine.
3.00	Gulch, 100 ft. below sec. cor., course N.80° W.
	Ascend.
21.20	Ridge, 245 ft. above sec. cor., bears N.20° W., and S.20° E. Descend gradually.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 1 | S 6 1916 From which A pinon pine, 7 ins. dia., bears S.35° E. 26 lks. dist., marked ¼ S 6 B T A pinon pine, 12 ins. dia., bears S.63° 30' W. 12 lks. dist., marked ¼ S 1 B T
72.80	Leave timber, bearing E. and W.
	Enter sagebrush opening, bearing E. and W. Lisbon Valley.
80.00	Set meanurement stake.
103.50	Swale, 50 ft. below ¼ sec. cor. drains NW.
	Ascend.
106.00	Spur, 15 ft. above swale, projects N.50° W.
112.50	Road to La Sal and Moab bears N.55° W., and S.55° E.
112.70	Swale, 15 ft. below spur, drains N.55° W. Bottom of Lisbon Valley. Divide about one-half mile SE.
	Ascend gradually.
123.50	Enter cedar and pinon pine, bearing E. and W.

Chains.

Ascend, over S.slope, quartzite formation.

170.30 Intersect N.bdy.of Tp. 8.95 chs. west of the ¼ section cor.on S.bdy.sec.36, T.29 S., R.24 E., which is an iron post, 1 in.in dia.firmly set,properly mkd.and witnessed.

On ridge, bearing E.and W., 230 ft.above swale,

Set an iron post 3 ft.long, 3" ins.in dia., 18 ins.in the ground, to solid rock, with mound of stones around post, for closing cor.of Tp.30 S., Rs.24 and 25 E., with brass cap marked

T 29 S R 24 E
S 36
S 1 | S 6
R 24 E | R 25 E
T 30 S
CC
1916

From which

A cedar, 10 ins.dia., bears S.18° E. 34 lks.dist. marked C C T 30 S R 25 E S 6 B T

A cedar, 12 ins.dia., bears S.15° 30'W. 54 lks. dist., marked C C T 30 S R 24 E S 1 B T

I destroy the marks on the old ¼ sec.cor.pertaining to sec.1.

Land, generally mountainous, NE. and SW.slopes of limestone, quartzite, and sandstone. Lisbon Valley 40.00 chs.

Soil in valley bottom, sandy clay loam, 7 ft.deep, red, yellow; 1st rate; balance rocky and stone.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

EAST BOUNDARY T.30 S., R.25 E.

From the standard cor.of Tp.30 S., Rs.25 and 26 E. established under this assignment,

North, between secs.31 and 36,

Ascending gradually, over broken, mountainous land; through sagebrush undergrowth; soil 1st class.

8.50 Leave sagebrush; enter cedar and pinon pine bearing E.&

Chains.

17.00 Gulch, 30 ft. deep, drains SW.

Ascend.

28.50 Sandstone ridge, 220 ft. above Tp. cor., bears N.80° W. and S.80° E. Descend abruptly over broken sandstone ledges.

33.00 Foot of steep descent, bearing N.80° W., and S.80° E.

Descend gradually into valley.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 16 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 36 | $\frac{1}{4}$ | S 31 ✓

1916

From which

A cedar, 8 ins. dia., bears N.73° 15'E. 16 lks. dist., marked $\frac{1}{4}$ S 31 B T ✓

A cedar, 7 ins. dia., bears S.57° 45'W. 45 lks. dist., marked $\frac{1}{4}$ S 36 B T ✓

Natural obstacles prevent setting post over 16 ins. in the ground.

41.50 Leave dense timber, bearing NW. and SE.

Enter scattering cedars and pinon pine and sagebrush.

45.50 Road to Lower Lisbon Valley and Dolores, Colorado, bears NW. and SE.

48.00 Wash, 200 ft. below ridge, drains SE.

Ascend gradually.

80.00 Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, with brass cap marked

T 30 S

R 25 E | R 26 E

S 25 | S 30 ✓

S 36 | S 31

1916

From which

A pinon pine, 7 ins. dia., bears N.11° 20'E. 220 lks. dist., marked T 30 S R 26 E S 30 B T ✓

Chains.	
	A pinon pine, 8 ins. dia., bears S. 8° 45'E. 116 lks. dist., marked T 30 S R 26 E S 31 B T ✓
	A pinon pine, 10 ins. dia., bears S. 7° 10'W. 134 lks. dist., marked T 30 S R 25 E S 36 B T ✓
	A pinon pine, 8 ins. dia., bears N. 41° 10'W. 49 lks. dist., marked T 30 S R 25 E S 25 B T ✓
	Land, mountainous.
	Soil, rich, black loam; 1st rate.
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.
	North, between secs. 25 and 30,
	Over broken, mountainous land; ascending gradually through scattering cedar, pinon pine, and sagebrush.
16.00	Spur, 40 ft. above sec. cor., projects E.
	Descend gradually.
22.50	Wash, 40 ft. below spur, drains E.
	Ascend abruptly over sandstone ledges, bearing NW. and SE.
26.80	Top of steep ascent bearing NW. and SE.
	Ascend gradually; through dense pinon pine and cedars.
39.50	Ridge, 200 ft. above wash, bears NW. and SE.
	Descend gradually.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 25 | ¼ | S 30 ✓
	1916
	From which
	A pinon pine, 6 ins. dia., bears S. 75° 10'E. 25 lks. dist., marked ¼ S 30 B T ✓
	A pinon pine, 10 ins. dia., bears S. 63° W., 37 lks. dist., marked ¼ S 25 B T ✓
72.00	Gulch, 170 ft. below ridge, drains NW.
80.00	On NW. slope, 160 ft. below ridge,

Chains.

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 19, 24, 25, and 30, with brass cap marked

T 30 S
R 25 E | R 26 E
S 24 | S 19
S 25 | S 30
1916

From which

A pinon pine, 9 ins. dia., bears N.60° 45'E. 21 lks. dist., marked T 30 S R 26 E S 19 B T ✓

A pinon pine, 12 ins. dia., bears S.82° 45'E. 27 lks. dist., marked T 30 S R 26 E S 30 B T ✓

A pinon pine, 7 ins. dia., bears N.31° W. 40 lks. dist., marked T 30 S R 25 E S 24 B T ✓

A cedar 10 ins. dia., bears S.27° W. 6 lks. dist. marked T 30 S R 25 E S 25 B T ✓

Land, rough, mountainous; general N. and S. slopes.

Soil, rocky and sandy, with sandstone outcroppings.

Undergrowth, sagebrush.

Timber, pinon pine and cedars.

North between secs. 19 and 24,

Over mountainous land; descending gradually, over broken mountainous country; through dense pinon pine and cedar; soil, sandy loam.

80.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼
S 24 | S 19
1916

From which

A pinon pine, 8 ins. dia., bears N.33° 45'E. 11 lks. dist., marked ¼ S 19 B T ✓

A pinon pine, 7 ins. dia., bears N.72° 45'W. 59 lks. dist., marked ¼ S 24 B T ✓

Chains.

68.00 Top of S.bank of Lisbon Canyon, bearing NE. and SW.

Descend abruptly.

71.00 Bottom of Lisbon Canyon, 450 ft. below ¼ sec. cor., course N.70° E.

Stream of water, 1 lk. wide, 1 in. deep, in bottom of canyon, course N.70° E.

Ascend abruptly.

74.30 Top of N.bank of Lisbon Canyon, bearing N.70°E. and S.70°W.

Ascend gradually.

80.00 On S.slope, 190 ft. above canyon,

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 18, 19, and 24, with brass cap marked

T 30 S
R 25 E | R 26 E
S 13 | S 18
S 24 | S 19
1916

From which

A pinon pine, 10 ins. dia., bears N.41°E. 10 lks. dist., marked T 30 S R 26 E S 18 B T

A pinon pine, 6 ins. dia., bears S.62° E. 7 lks. dist., marked T 30 S R 26 E S 19 B T

A pinon pine, 7 ins. dia., bears S.40° 30'W. 30 lks. dist., marked T 30 S R 25 E S 24 B T

A cedar, 10 ins. dia., bears N.12° 30'W. 26 lks. dist., marked T 30 S R 25 E S 13 B T

Land, broken; sandstone formation; mountainous.

Soil, sandy loam.

General N. slope. Poor grazing.

Timber, pinon pine and cedar.

North between secs. 13 and 18,

Ascending, through scattering timber.

7.50 Top of slope, bearing E. and W.

Thence over gently rolling land, draining NE.; through

Chains.

sagebrush; sandy soil; 2d rate.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 13 \mid \text{S } 18 \checkmark \\ 1916 \end{array}$$

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.;

41.00 Draw, course E.

55.00 Enter scattering timber bearing S. 45° W. and N. 45° E. sandy rocky soil; 3d rate.

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, with brass cap marked

$$\begin{array}{c} \text{T 30 S} \\ \text{R 25 E} \mid \text{R 26 E} \\ \text{S 12} \mid \text{S 7} \\ \text{S 13} \mid \text{S 18} \\ 1916 \end{array}$$

From which

A pinon pine, 8 ins. in dia., bears N. 40° E. 95 lks. dist., marked T 30 S R 26 E S 7 B T ✓

A pinon pine, 10 ins. dia., bears S. 74° E. 136 lks. dist., marked T 30 S R 26 E S 18 B T ✓

A cedar, 10 ins. dia., bears S. 22° 45' W. 54 lks. dist., marked T 30 S R 25 E S 13 B T ✓

A cedar, 15 ins. dia., bears N. 39° W. 258 lks. dist., marked T 30 S R 25 E S 12 B T ✓

Land, gently rolling, general drainage NE.

Soil, sandy, 2d rate, on S. half-mile; rocky and sandy, 3d rate on N. half.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

North between secs. 7 and 12,

Over rolling hills; through scattering timber.

Chains.

4.80 Wash, 3 ft. deep, 20 lks. wide, course N.50° E. Ascend.

15.00 Spur, 13 ft. above wash, projects N.40° E.

Descend gradually.

40.00 50 ft. below spur,

Set an iron post, 3 ft. long, 1 in. in dia., in mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked

$$S\ 12 \mid \frac{\frac{1}{4}}{1916} \mid S\ 7$$

from which

A cedar, 10 ins. dia., bears S.78° E. 74 lks. dist. marked $\frac{1}{4}$ S 7 B T

A pinon pine, 8 ins. dia., bears S.23° W. 53 lks. dist., marked $\frac{1}{4}$ S 12 B T

Natural obstacles prevent setting post in the ground.

54.60 Gulch, course N.80° E., 60 ft. below spur.

Ascend over broken SE. slope.

80.00 180 ft. above gulch,

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, with brass cap marked

T 30 S
R 25 E | R 26 E
S 1 | S 6
S 12 | S 7
1916

from which

A pinon pine, 8 ins. dia., bears N.20° E. 49 lks. dist., marked T 30 S R 26 E S 6 B T

A pinon pine, 8 ins. dia., bears S.71° E. 68 lks. dist., marked T 30 S R 26 E S 7 B T

A pinon pine, 14 ins. dia., bears S.46° W. 118 lks. dist., marked T 30 S R 25 E S 12 B T

A cedar, 10 ins. dia., bears N.54° 30' W. 24 lks. dist., marked T 30 S R 25 E S 1 B T

Land, rolling.

Soil, rocky and sandy; 3d rate.

Timber, scattering pinon pine and cedar.

Chains.

North between secs.1 and 6,

Ascending through scattering timber.

5.00 Ridge, 3½ ft.above sec.cor., bears N.45° E., and S.45°W.

Descend.

12.35 Leave timber, bearing N.70° E., and S.70° W.

Thence over gently rolling land, draining NE.

40.00 85 ft.below ridge,

Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., with brass cap marked

S 1/4 S 6

1916

Dig pits 18 x 18 x 12 ins.N.and S.of post, 3 ft.dist.

61.50 Enter timber, bearing E.and W.

63.50 Descend.

74.00 Wash, 2 ft.deep, 25 lks.wide, course E.

Ascend.

80.00 Spur, 50 ft.above wash, projects S.80° E.

Descend over steep NE.slope.

94.50 Coyote Wash, 120 ft.below spur, 30 ft.deep, 150 lks. wide, course S.75° E. Stream of water, 2 ins.deep, 3 lks.wide, course S.75° E. Ascend over SW.slope.

114.50 Ascend gradually along W.slope.

140.00 Top of ascent, 185 ft.above wash. Descend.

144.10 Gulch, 75 ft.below top of ascent, course W. Ascend.

152.60 Spur, 80 ft.above gulch, projects W. Descend.

170.30 At point equal to the length of the W.bdy.of the Tp. set temp.cor.for closing cor.of Tp.30 S., Rs.25 and 26 E.

Note: This corner was afterward made permanent at

169.59 At point 15.40 chs.west of the restored ¼ sec.cor.on the S.bdy.of sec.36 T.29 S. R.25 E.

Set an iron post, 3 ft.long, 2 ins.in dia.24 ins.in the ground, for closing cor.of Tp.30 S.,Rs.25 and 26 E. with brass cap marked

Chains.

T 29 S R 25 E
S 36
S 1 | S 6
R 25 E | R 26 E
T 30 S
CC
1916

from which

A pinon pine 12 ins.dia., bears S.13° E. 40 lks. dist.,. marked C C.T 30 S R 26 E S 6 B T

A pinon pine, 7 ins.dia., bears S.31° W. 29 lks, dist., marked C C T 30 S R 25 E S 1 B T

Land, mountainous, and gently rolling.

Soil, sandy, 3d rate on S.61.50 chs.; balance rocky, 4th rate.

Timber,. pinon pine and cedar.

RETRACEMENT SOUTH BOUNDARY T.29 S.R.25 E.

From the cor.of Tps.29 and 30 S., Rs.24 and 25 E.,which is a conglomerate stone 6½ 6 x 12 ins.above mound of stones, marked and witnessed as described by the surveyor-general,

N.89° 57'E.on retracement line.

After careful search I find no trace of the old ¼ sec. and sec.corners. I set temporary corners at intervals of 40.00 and 80.00 chs., and at

480.00 Set temp.corner for cor.of Tps.29 and 30 S., Rs.25 and 26 E. Thence

North on retracement of E.bdy.T.29 S., R.25 E.

After careful search I find no trace of old sec.or ¼ sec. cors. I set temp.corners at intervals of 40.00 and 80.00 chs. At

320.00 The original cor.of secs.7, 12, 13, and 18 bears S.85° 42' E., 9.86 chs.dist., a red sandstone 30 x 20 x 8 ins.firmly set and marked and witnessed as described by the surveyor-gen-

Chains.

eral. I

I therefore restore the corner of Tps. 29 and 30 S., Rs. 25 and 26 E. at a point S.85° 42'E. 5.91 chs. from the temp. corner. Knowing that this corner will hereafter refer to two Tps. only, I

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of Tp. 29 S., Rs. 25 and 26 E., with brass cap marked

T 29 S
R 25 E | R 26 E
S. 36 | S 31

1916

from which

A pinon pine, 6 ins. dia., bears N.68° 30'E. 20 lks. dist., marked T 29 S R 26 E S 31 B T

A pinon pine, 10 ins. dia., bears N.55° 45'W. 12 lks. dist., marked T 29 S R 25 E S 36 B T

The co-ordinates of the restored corner from the temp. point are .44 chs. S., and 5.89 chs. E., which correspond to a correction of 3' per mile in course, and 0.98 chs. additional per mile in length; therefore,

From the restored corner of Tp. 29 S., Rs. 25 and 26 E.,

West, on resurvey line along S. bdy. of sec. 36,

Ascending NE. slope; through dense pinon pine and cedar timber.

12.37 Top of slope, bearing N. and S., 132 ft. above sec. cor.

Leave timber.

Thence over level land.

25.07 Enter scattering timber, bearing N. and S.

Descend gradually.

36.07 Enter dense timber, bearing N. and S.

Descend over SW. slope.

40.49 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. sec. 36 only, with brass cap

Chains.	
	marked $\frac{\frac{1}{4}\ S\ 36}{1916}$ from which A pinon pine, 12 ins.dia., bears N.26° E. 30 lks. dist., marked $\frac{1}{4}$ S 36 B T Continue descent.
45.07	Gulch, 40 ft.below $\frac{1}{4}$ sec.cor., course S.45° W.
55.89	The closing cor.of Tp.30 S., Rs.25 and 26 E.
56.47	Gulch, course S.20° W. Ascend over NE.slope.
76.07	Ridge, 150 ft.above gulch, bears N.and S.
80.98	Set an iron post, 3 ft.long, 1 in.in dia., 10 ins.in the ground, with mound of stone around post, for cor. of secs.35 and 36 only, with brass cap marked $\frac{\text{T 29 S} \mid \text{R 25 E}}{\text{S 35} \mid \text{S 36}}$ 1916 from which A pinon pine, 8 ins.dia., bears N.26° 30'E.97 lks. dist., marked T 29 S R 25 E S 36 B T A pinon pine, 14 ins.dia., bears N.0° W. 36 lks. dist., marked T 29 S R 25 E S 35 B T Land, mountainous . Soil, rocky, 4th rate; and sandy loam, 2d rate. Timber, cedar and pinon pine.

	West, on resurvey line, along S.bdy.sec.35, Along SE.slope; through pinon pine and cedar.
9.59	Wash, 2 ft.deep, 10 lks.wide, course SW. Ascend gradually over E.slope.
14.91	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor.sec.1 T.30 S.R.25 E.only, with brass cap marked $\frac{\frac{1}{4}\ S\ 1}{1916}$

Chains.	
	from which
	A pinon pine, 14 ins.dia., bears S.26° W. 60 lks. dist., marked ¼ S 1 B T
25.09	Ridge, 45 ft.above ¼ sec.cor., bears N.and S.
	Descend over W.slope.
40.49	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor.sec.35 only, with brass cap marked
	¼ S 35 1916
	from which
	A cedar, 8 ins.dia., bears N.12° W. 34 lks.dist. marked ¼ S 35 B T
42.49	Gulch, 80 ft.below ¼ sec.cor., course S.20° W.
	Ascend.
53.49	Spur, 16 ft.above gulch, projects S.
	Descend over SW.slope to Coyote Wash.
54.91	Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.1 and 2 T.30 S., R.25 E., with brass cap marked
	S 2 | S 1 T 30 S | R 25 E 1916
	from which
	A pinon pine, 18 ins.dia., bears S.21° E. 50 lks. dist., marked T 30 S R 25 E S 1 B T
	A pinon pine, 12 ins.dia., bears S.69° W. 67 lks. dist., marked T 30 S R 25 E S 2 B T
62.29	Leave timber, bearing [illegible], course S.40° E.
	Enter flat and dense greasewood bearing N.30° W., and S. 30° E.
74.30	Bottom of Coyote Wash, 120 lks.wide, 20 ft.deep, course S.40° E.
78.79	Wash, 6 ft.deep, 90 lks.wide, course S.40° E.
80.09	Leave flat.
	Ascend over NE.slope.
80.58	

Chains.

80.98 Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground, with mound of stones around post, for cor. secs. 34 and 35 only, with brass cap marked

T 29 S | R 25 E
S 34 | S 35
1916

Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

Natural obstacles prevent setting post over 10 ins. in the ground.

Land, rolling, mountainous; general S. slope.

Soil, rocky and stony, and sandy.

Timber, pinon pine and cedar.

West, on resurvey line, along S. bdy. sec. 34,

Ascending over NE. slope.

13.11 Enter timber, bearing N. 60° W., and S. 60° E.

13.93 Set an iron post, 3 ft. long, 1 in. in dia., in mound of stone, for ¼ sec. cor. sec. 2 T. 30 S., R. 25 E., with brass cap marked

¼ S 2
1916

from which

A cedar 6 ins. dia., bears S. 57° E. 26 lks. dist. marked ¼ S 2 B T

Natural obstacles prevent setting post in the ground.

Corner 23 ft. above sec. cor.

19.11 Ridge, 50 ft. above ¼ sec. cor., bears N. and S.

Descend.

24.00 Leave timber bearing N. and S.

Enter gently rolling land. Dense sagebrush, bearing N. and S.

40.49 Set an iron post, 3 ft. long, 1 in. in dia., 8 ins. in the ground, with mound of stone around post, for ¼ sec. cor. sec. 34 only, with brass cap marked

¼ S 34
1916

Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

Chains.	
	Natural obstacles prevent setting post over 8 ins. in the ground.
53.93	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 2 and 3 T.30 S., R.25 E., with brass cap marked S 3 | S 2 T 30 S | R 25 E 1916
	Dig pits 24 x 24 x 12 ins. in each sec. 6 ft., dist.
59.11	Sandstone ledges bearing NE. and SW.
	Enter scattering timber.
66.11	Leave ledges bearing NW. and SE. Leave timber.
	Enter sagebrush flat bearing NW. and SE.
73.41	Wash, 20 ft. deep, 30 lks. wide, course S.20° E.
78.51	Wash, 12 ft. deep, 20 lks. wide, course N.30° E.
80.98	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 33 and 34 only, with brass cap marked T 29 S | R 25 E S 33 | S 34 1916
	Dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist.
	Land, mountainous, and level.
	Soil, rocky and sandy 2d and 4th rates.
	Undergrowth, sagebrush and greasewood.
	Timber, cedar and pinon pine.

West, on resurvey line, along S.bdy. sec. 33,

Over level land, in dense sagebrush.

12.95	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. sec. 3 T.30 S.R.25 E., with brass cap marked $\frac{1}{4}$ S 3 1916

from which

A pinon pine, 6 ins. dia., bears S.82° W. 4.99 chs.

Chains.

dist., marked $\frac{1}{4}$ S 3 B T

13.13 Leave flat; ascend gradually over rolling land.

37.13 Enter scattering timber bearing S.50° E. and N.50° W.

40.49 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. sec. 33 only, with brass cap mkd.

$\frac{\frac{1}{4} \text{ S } 33}{1916}$

from which

A pinon pine, 12 ins. dia., bears N.72° E. 165 lks. dist., marked $\frac{1}{4}$ S 33 B T

47.13 Leave timber bearing S.40° W. and N.40° E.

Low ridge bears SE. and NW.

Thence along ridge.

52.95 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground for cor. secs. 3 and 4 T.30 S., R.25 E., with brass cap marked

$\frac{\text{S } 4 \mid \text{S } 3}{\text{T } 30 \text{ S} \mid \text{R } 25 \text{ E}}$
1916

from which

A pinon pine, 12 ins. dia., bears S.22° E. 4.97 chs. dist., marked T 30 S R 25 E S 3 B T

A pinon pine, 8 ins. dia., bears S.39° W. 3.18 chs. dist., marked T 30 S R 25 E S 4 B T

80.98 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 32 and 33 only, with brass cap marked

$\frac{\text{T } 29 \text{ S} \mid \text{R } 25 \text{ E}}{\text{S } 32 \mid \text{S } 33}$
1916

Dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist.

Land, level, and rolling.

Soil, sandy, 2d and 3d rate.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

West, on resurvey line along S.bdy. sec. 32,

Chains.	
	Over rolling sandy land; through dense sagebrush.
11.97	Set an iron post 3 ft. long, 1 in. in dia., 6 ins. in the ground, with mound of stone around post, for ¼ sec. cor., sec. 4 T.30 S., R.25 E., with brass cap marked ¼ S 4 1916 from which A pinon pine, 14 ins. dia., bears S.40° 30'W. 231 lks. dist., marked ¼ S 4 B T
14.65	Enter timber bearing N. and S.
20.95	Gulch, 14 ft. below sec. cor., course N.60° E. Ascend over NE. slope.
40.49	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. sec. 32 only, with brass cap mkd. ¼ S 32 1916 from which A pinon pine, 12 ins. dia., bears N.66° E. 71 lks. dist., marked ¼ S 32 B T
51.97	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 4 and 5, T.30 S., R.25 E., with brass cap marked S 5 | S 4 T 30 S | R 25 E 1916 from which A pinon pine, 14 ins. dia., bears S.11° 45'E. 26 lks. dist., marked T 30 S R 25 E S 4 B T A pinon pine, 6 ins. dia., bears S.44° 15'W. 62 lks. dist., marked T 30 S R 25 E S 5 B T
73.96	Gulch, drains NE. Ascend 65 ft. to
80.93	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 31 and 32, only, with brass cap marked

Chains.

T 29 S | R 25 E
S 31 | S 32

1916

from which

A pinon pine, 7 ins. dia., bears N. 43° 15'E.25 lks. dist., marked T 29 S R 25 E S 32 B T

A cedar 8 ins. dia., bears N.5° W. .55 lks. dist. marked T 29 S R 25 E S 31 B T

Land, rolling.

Soil, sandy and rocky; 2d and 3d rate.

Undergrowth, sagebrush.

Timber, pinon pine and cedar.

West, on resurvey line, along S.bdy. sec. 31,

Over rolling land; through cedar and pinon pine timber.

10.99 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. sec. 5 T.30 S., R.25 E., with brass cap marked

¼ S 5
1916

from which

A pinon pine, 9 ins. dia., bears S.14° E. 35 lks. dist., marked ¼ S 5 B T

40.49 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, for ¼ sec. cor. sec. 31 only, with brass cap mkd.

¼ S 31
1916

Raise mound of stone 2 ft. base, 6 ins. high around post,

from which

A pinon pine 6ins. dia., bears N.17° 15'W. 50 lks. dist., marked ¼ S 31 B T

Natural obstacles prevent setting post over 20 ins. in the ground.

44.00 Wash, 18 ft. deep, 100 (est) lks. wide, drains N.10° E.

Chains.

50.99 Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground, with mound of stone 3 ft/base, 14 ins. high around post, for cor. of secs. 5 and 6, T.30 S., R. 25 E., with brass cap marked

S 6 | S 5
T 30 S. | R 25 E
1916

from which

A pinon pine, 5 ins. dia., bears S.66° 30'E. 8 lks. dist., marked T 30 S R 25 E S 5 B T

A pinon pine, 10 ins. dia., bears S.48° 45'W. 41 lks. dist., marked T 30 S R 25 E S 6 B T

62.48 Ravine, drains N.10° E.

80.98 The cor. of Tps. 29 and 30 S., Rs. 24 and 25 E.

I destroy the marks on the stone corner pertaining to T.30 S., leaving it marked for cor. of Tp. 29 S., Rs. 24 and 25 E. only. I also efface the marks on the two bearing trees to the south.

Land, rolling, and mountainous with NE. slope.

Soil, sandy 3d rate, and rocky 4th rate.

Timber cedar and pinon pine. Undergrowth sagebrush.

Resurvey S. Boundary Sec. 36 T.29 S. R.24 E.

From the cor. of Tp. 29 S., Rs. 24 and 25 E.,

West on resurvey line along S. bdy. sec. 36,

Over mountainous land; through cedar and pinon pine timber.

10.01 Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, with mound of stone 3 ft. base, 12 ins. high around post, for 1/4 sec. cor. sec. 6 T.30 S., R.25 E. with brass cap marked

1/4 S 6
1916

from which

A cedar, 7 ins. dia., bears S.40° W. 51 lks. dist.

Chains.	
	marked ¼ S 6 B T
40.00	The ¼ sec.cor.sec.36 T.29 S.R.24 E., heretofore described.
	Land, mountainous; general NE.slope.
	Soil, rocky and stony.
	Timber, cedar and pinon pine.

SUBDIVISION T.30 S., R.25 E.

From the standard cor.of secs.35 and 36 on the S.bdy.of the township, heretofore described.

N.0° 01'W.bet.secs.35 and 36,

Through cedar and pinon pine timber.

1.00 Edge of rim rock, bearing NW. and SE. Descend.

10.65 Enter level land. Leave timber, bearing N.70°W.and S.70°E.

19.50 Wire fence, bearing N.40° E., and S.40° W.

40.00 340 ft.below sec.cor.

Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., with brass cap marked

S 35 | ¼ | S 36
1916

Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.

49.00 Ascend through timber, bearing N.60° W. and S.60° E.

59.95 Ridge, 34 ft.above ¼ sec.cor., bears N.40°E.and S.40°W.

Descend.

61.40 Gulch, 40 ft.below ridge, course N.40° E.

Ascend over rolling SE.slope.

78.80 Ridge, 40 ft.above gulch, bears E.and W.Desc.over NE.slope.

80.00 Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.25,26,35, and 36, with brass cap marked

T 30 S R 25 E
S 26 | S 25
S 35 | S 36
1916

from which

A pinon pine, 9 ins.dia., bears N.7° E. 81 lks.

Chains.

dist., marked T 30 S R 25 E S 25 B T

A pinon pine, 10 ins.dia., bears S.1° 30'E. 68 lks.dist., marked T 30 S R 25 E S 36 B T

A pinon pine, 12 ins.dia., bears S.42° 30'W. 47 lks.dist., marked T 30 S R 25 E S 35 B T

A pinon pine, 10 ins.dia., bears N.13° 30'W. 84 lks.dist., marked T 30 S R 25 E S 26 B T

Corner 10 ft.below ridge.

Land, mountainous, level, and rolling.

Soil, sandy, 1st rate; and rocky and sandy 3d rate.

Timber, cedar and pinon pine.

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

40.00 Set temp. ¼ sec.cor.

79.80 Intersect E.bdy.of Tp.27 lks.N.of the cor.of secs.25,30, 31, and 36, heretofore described. Thence

N.89° 45'W.on true line bet.secs.25 and 36,

Over level land, Lisbon Valley;through pinon pine.

39.90 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., with brass cap marked

$$\frac{\frac{1}{4}\ S\ 25}{S\ 36}$$
1916

from which

A pinon pine, 8 ins.dia., bears N.49° E.156 lks. dist., marked ¼ S 25 B T

A pinon pine, 10 ins.dia., bears S.25° W. 70 lks. dist., marked ¼ S 36 B T

60.10 Leave timber, bearing NW. and SE.

61.20 Wagon road, to Lower Lisbon Valley and Dolores, Colorado, bears N.40° W., and S.40° E.

66.30 Wagon road, bears N.20° W., and S.20° E.

Ore chute bears north about 5.00 chs.dist.

71.10 Ascend, over NE.slope,through pinon pine and cedar.

79.80 The cor.of secs.25,26,35, and 36.

Land, level, and gently rolling.

Soil,rocky, 4th rate on west 9.00 chs. and east 59.80

Chains.	
	chs.; balance, sandy soil, 1st rate.
	Timber, pinon pine and cedar.
	N.0° 01'W.bet.secs.25 and 26,
	Descending over NE.slope; through cedar and pinon pine timber.
5.90	Frame cabin, bears E.5.00 chs.dist.
9.40	Leave timber; thence over level land, Lisbon Valley.
10.90	Old wagon road, bears N.70° W., and S.70° E.
15.90	Wagon road to Lower Lisbon Valley and Dolores, Colorado, bears N.30° W., and S.30° E.
17.80	Wash, 8 ft.deep, 20 lks.wide, course NW.
40.00	229 ft. below sec.cor.,
	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked
	$\frac{1}{4}$ S 26 | S 25 1916
	Dig pits 18 x 18 x 12 ins.N.and S.of post, 3 ft.dist.
57.00	Ascend over SW.slope; through timber, bearing N.40° W. and S.40° E.
71.60	Spur, 250 ft.above $\frac{1}{4}$ sec.cor., projects W.
80.00	Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.23,24,25, and 26, with brass cap marked
	T 30 S R 25 E S 23 | S 24 S 26 | S 25 1916
	from which
	A pinon pine, 6 ins.dia., bears N.40° E. 46 lks. dist., marked T 30 S R 25 E S 24 B T
	A pinon pine, 10 ins.dia., bears S.60° E. 34 lks. dist., marked T 30 S R 25 E S 25 B T
	A pinon pine, 10 ins.dia., bears S.28° W. 33 lks. dist., marked T 30 S R 25 E S 26 B T
	A pinon pine, 12 ins.dia., bears N.58° W. 37 lks.

Chains.	
	dist., marked T 30 S R 25 E S 23 B T
	Land, mountainous, and level.
	Soil, sandy, 1st rate; and rocky, 4th rate.
	Timber, pinon pine and cedar.
	S.89° 48'E.on a random line bet.secs.24 and 25,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.96	Intersect E.bdy.of Tp.2 lks.N.of the cor.of secs.19,24, 25, and 30, heretofore described. Thence
	N.89° 47'W.on true line bet.secs.24 and 25,
	Descending, through dense cedar and pinon pine timber.
5.51	Gulch, 85 ft.below sec.cor., course N.
39.98	78 ft.above gulch,
	Set an iron post, 3 ft.long, 1 in.in dia., in mound of stone, for $\frac{1}{4}$ sec.cor., with brass cap marked
	$\frac{1}{4}$ S 24 / S 25 1916
	from which
	A pinon pine, 10 ins.dia., bears S.35° 30'W.38 lks. dist., marked $\frac{1}{4}$ S 25 B T
	A pinon pine, 6 ins.dia., bears N.5° E. 95 lks. dist., marked $\frac{1}{4}$ S 24 B T
	Natural obstacles prevent setting post in the ground,
	Ascend over rolling NE.slope.
48.66	Spur, projects N., 50 ft.above $\frac{1}{4}$ sec.cor.
	Descend over NW.slope.
56.16	Gulch, 50 ft.below spur, course N.Ascend over NE.slope.
60.96	Top of ascent, 80 ft.above gulch.
	Log cabin, bears N.18° 47'E.40.00 chs.dist.
	Lisbon Spring 3.00 chs.N.of cabin; clear water.
64.46	Rim rock, bearing N.40° E.and S.80° W.
	Descend 400 ft., over steep NW.slope, to
79.96	The cor.of secs.23, 24, 25, and 26. Land, mountainous and rolling. Soil, rocky; 4th rate. Timber, dense cedar and pinon pine.

Chains.	
	N.0° 01'W.bet.secs.23 and 24,
	Descending over N.slope, through cedar and pinon pine timber.
5.00	Leave timber bearing E.and W. Thence over level land.
5.50	Wash, course E, 40 ft.below sec.cor.;in Lisbon Canyon.
13.50	Enter timber bearing E.and W.
	Ascend over broken S.slope.
27.40	Rim rock, 250 ft.above wash, bears N.45° E., and N.80° W. Descend over NE.slope.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked S 23 $\frac{1}{4}$ S.24 ✓ 1916 from which A pinon pine, 14 ins.in dia., bears S.85° E. 55 lks.dist.; marked $\frac{1}{4}$ S 24 B T ✓ A pinon pine, 8 ins.dia., bears N.38° W. 68 lks. dist., marked $\frac{1}{4}$ S 23 B T ✓
	Corner 28 ft.below rim rock.
57.00	Gulch, 45 ft.below $\frac{1}{4}$ sec.cor., course S.70° E.
	Ascend.
80.00	40 ft.above gulch, Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.13,14,23, and 24, with brass cap marked T 30 S R 25 E ✓ S 14 | S 13 S 23 | S 24 1916 from which A pinon pine, 18 ins.dia., bears N.49° E. 85 lks. dist., marked T 30 S R 25 E S 13 B T ✓ A pinon pine, 8 ins.dia., bears S.40° E., 43 lks. dist., marked T 30 S R 25 E S 24 B T ✓ A pinon pine, 6 ins.dia., bears S.55° W. 77 lks.

Chains.	
	dist., marked T 30 S R 25 E S 23 B T ✓
	A pinon pine, 6 ins. dia., bears N.57° W. 18 lks. dist., marked T 30 S R 25 E S 14 B T ✓
	Land, mountainous and nearly level.
	Soil, sandy, 1st rate; and rocky, 4th rate.
	Timber, cedar and pinon pine.
	S.89° 47'E. on a random line bet. secs. 13 and 24,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect E. bdy. of Tp. 44 lks. S. of the cor. of secs. 13, 18, 19 and 24, heretofore described.
	Thence,
	S.89° 54'W. on true line bet. secs. 13 and 24,
	Ascending gradually over broken land; through dense pinon pine and cedars and scattering sagebrush.
4.00	From this point Hanging Rock Spring, seep, bears S.26° 30'W.
29.10	From this point Hanging Rock Spring, seep, bears S.11° 45'E.
32.00	Spur, 100 ft. above sec. cor. projects S.50° W.
	Descend gradually.
40.04	On NW. slope, 20 ft. below spur,
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}\ \frac{\text{S 13}}{\text{S 24}}\ \frac{}{1916}$ ✓
	from which
	A pinon pine, 6 ins. dia., bears N.21° W. 28 lks. dist. marked $\frac{1}{4}$ S 13 B T ✓
	A pinon pine, 7 ins. dia., bears S.7° W. 37 lks. dist., marked $\frac{1}{4}$ S 24 B T ✓
51.00	Wash, 20 ft. below $\frac{1}{4}$ sec. cor., drains NE.
	Ascend gradually, over sandstone formation.

Chains.	
50.08	The cor. of secs. 13, 14, 23, and 24.
	Land, broken, mountainous; general E. slope.
	Soil, sandy loam. Sandstone formation.
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.
	N. 0° 01' W. bet. secs. 13 and 14,
	Over broken land; through cedar and pinon pine timber and sagebrush undergrowth. Ascending gradually.
9.50	Spur, 30 ft. above cor., projects SE. Descend gradually.
40.00	Gulch, 220 ft. below spur, drains N. 70° E. Point for ¼ sec. cor. Danger of corner being washed out; no cor. set.
40.27	On sandstone ledge, 10 ft. above gulch,
	Set an iron post, 3 ft. long, 1 in. in dia., in mound of stone for ¼ sec. cor., with brass cap marked

¼
S 14 | S 13
W | C
1916

from which

A juniper, 9 ins. dia., bears S. 8° E. 13 lks. dist. mkd. W C ¼ S 13 B T

A juniper, 10 ins. dia., bears S. 19° W., .45 lks. dist., mkd. W C ¼ S 14 B T

55.30	Spur, 40 ft. above gulch, projects N. 60° E.
	Descend gradually.
70.50	Wash, 30 ft. below spur, drains E. Ascend gradually.
72.50	Spur, 20 ft. above wash, projects E. Descend gradually.
72.60	Leave timber; enter sagebrush opening bearing NE. and W.
80;00	On N. slope, 10 ft. below spur,
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, with brass cap marked

T 30 S R 25 E
S 11 | S 12
S 14 | S 13
1916

Chains.

from which

A pinon pine, 10 ins.dia., bears N.87°15'E.275 lks.dist., marked T 30 S R 25 E S 12 B T

A pinon pine, 5 ins.dia., bears S. 71° E. 175 lks.dist., marked T 30 S R 25 E S 13 B T

A cedar 16 ins.dia.,bears S. 83°30'W. 438 lks. dist., marked T 30 S R 25 E S 14 B T

A cedar, 10 ins.dia., bears N. 86° 45'W. 636 lks. dist., marked T 30 S R 25 E S 11 B T.

Land, broken; general north slope.

Soil, sandy loam. Sandy formation.

Undergrowth, sagebrush. No grazing.

Timber, cedar and pinon pine, with few scattering yellow pine.

N.89° 54'E.on a random line bet.secs.12 and 13,

40.00 Set temp.¼ sec.cor.

79.95 Intersect E.bdy.of Tp.14 lks.S.of the cor.of secs.7,12, 13, and 18, heretofore described.

Thence

S.89° 4g'W.on true line bet.secs.12 and 13,

Descending gradually; through scattering timber.

1.40 Wash, 3 ft.deep, 20 lks.wide, course N.40° E.

Ascend gradually.

6.30 Leave timber, bearing N.and S. Enter level land; sandy soil, 2d rate.

34.00 Enter timber bearing S.65° W., and N.65° E.

35.00 Descend gradually; rocky soil; 4th rate.

39.99 Set an iron post, 3 ft.long, 1 in.in dia., 14 ins.in the ground, with mound of stone around post, for ¼ sec.cor., with brass cap marked

¼ S 12 / S 13 / 1916

Chains.	
	from which
	A pinon pine, 10 ins. dia., bears N. 6° 15' E. 94 lks. dist., marked $\frac{1}{4}$ S 12 B T ✓
	A pinon pine, 6 ins. dia., bears S. 46° E. 164 lks. dist., marked $\frac{1}{4}$ S 13 B T ✓
	Corner is 45 ft. below sec. cor.
53.60	Gulch, 80 ft. below $\frac{1}{4}$ sec. cor., course N. 60° E.
	Ascend.
79.98	The cor. of secs. 11, 12, 13, and 14, 145 ft. above gulch.
	Land, gently rolling, and level.
	Soil, sandy, 2d rate, and rocky, 4th rate.
	Timber, scattering cedar and pinon pine.
	N. 0° 01' W. bet. secs. 11 and 12,
	Descending gradually, through sagebrush.
7.50	Enter timber, bearing E. and W.
18.10	Gulch, 77 ft. below sec. cor., course E.
20.70	Leave timber, bearing E. and W.
	Thence over gently rolling land; through sagebrush.
39.00	Bull Horn Spring wash, 3 ft. deep, 20 lks. wide, course NE. and E.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked S 11 | $\frac{1}{4}$ | S 12 ✓ 1916
	Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.
	Ascend.
50.00	Sandstone ledge, 34 ft. above $\frac{1}{4}$ sec. cor., bears E. and W. scattering timber along same. Continue, over gently rolling land; through sagebrush.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 2, 11, and 12, with brass cap marked

Chains.

T 30 S R 25 E
S 2 | S 1
S 11 | S 12
1916 ✓

from which

A pinon pine, 14 ins. dia., bears N. 30° E. 530 lks. dist., marked T 30 S R 25 E S 1 B T ✓

A cedar, 16 ins. dia., bears S. 87° 45' W. 351 lks. dist., marked T 30 S R 25 E S 11 B T ✓

A pinon pine, 8 ins. dia., bears N. 88° 30' W. 328 lks. dist., marked T. 30 S R 25 E S 2 B T ✓

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

Land, mountainous, and gently rolling.

Soil, sandy, 2d and 3d rates.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

N. 89° 48' E. on a random line bet. secs. 1 and 12,

40.00 Set temp. ¼ sec. cor.

79.84 Intersect E. bdy. of Tp. 2 lks. S. of the cor. of secs. 1, 6, 7 and 12, heretofore described. Thence

S. 89° 47' W. on true line bet. secs. 1 and 12,

Ascending gently; through pinon pine and cedar timber.

2.00 Leave timber, bearing N. 35° E., and S. 35° W.

Enter level land, covered with dense sagebrush.

39.92 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S 1 / S 12 / 1916 ✓

Dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.

79.84 The cor. of secs. 1, 2, 11, and 12.

Land, level.

Soil, sandy; 2d rate.

Undergrowth, dense sagebrush.

Timber, pinon pine and cedar.

Chains.	
40.00	N.0° 01'W. on a random line bet. secs. 1 and 2, Set temp. $\frac{1}{4}$ sec. cor.
169.70	Intersect N.bdy. of Tp. 15 lks. E. of the cor. of secs. 1 and 2 heretofore described in notes of N.bdy.
	Thence
	S.0° 04'E. between secs. 1 and 2, on true line,
	Descending, through pinon pine and cedar timber.
14.10	Foot of descent, bearing NW. and SE.
20.10	Coyote Wash, 15 ft. deep, 180 lks. wide, course S.20° E. 110 ft. below sec. cor.
	Thence over flat, bearing S.50° E., and N.50° W., covered with dense greasewood.
23.90	Leave flat; ascend gradually.
35.90	Spur, 55 ft. above wash, projects E. Descend.
41.70	Enter greasewood flat, bearing E. and W.
44.70	Pole corral bears west 5.00 chs. dist.
47.40	Wash, 60 ft. below spur, 10 ft. deep, 30 lks. wide, course N.80° E.
49.80	Leave greasewood flat; enter timber, bearing E. and W.
	Ascend.
59.70	Spur, 85 ft. above wash, projects W.
	Descend over sandstone boulders.
69.70	Gulch, 80 ft. below spur, course N.80° W.
	Ascend.
79.70	Ridge, 60 ft. above gulch, bears E. and W.
	Descend.
94.70	Leave timber, bearing E. and W.; scattering.
98.80	Wash, 3 ft. deep, 10 lks. wide, course N.70° E., 74 ft. below ridge.
108.80	Wash, 3 ft. deep, 12 lks. wide, course N.40° E.
120.80	Enter timber, bearing N.60° E., and S.60° W.
	Ascend.
127.60	Ridge, 95 ft. above wash, bears E. and W. Descend.
129.70	14 ft. below ridge,
	Set an iron post 3 ft. long, 1 in. in dia., 16 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec.

Chains.	
	cor., with brass cap marked S 2 | $\frac{1}{4}$ | S 1 ✓ 1916 from which
	A pinon pine, 10 ins. dia., bears N. 49° E. 40 lks. dist., marked $\frac{1}{4}$ S 1 B T ✓
	A pinon pine, 8 ins. dia., bears S. 23° W. 39 lks. dist., marked $\frac{1}{4}$ S 2 B T ✓
	Natural obstacles prevent setting post over 16 ins. in the ground.
	Descend.
149.80	Wash, 2 ft. deep, 30 lks. wide, course N. 70° E.; 131 ft. below $\frac{1}{4}$ sec. cor.
	Ascend.
163.70	Leave timber, bearing S. 60° E., and S. 60° W.; thence over gently rolling land; through sagebrush.
169.70	The cor. of secs. 1, 2, 11, and 12, 110 ft. above wash.
	Land, mountainous and gently rolling.
	Soil, sandy and rocky; 2d and 4th rates.
	Undergrowth, sagebrush and greasewood.
	Timber, cedar and pinon pine.

	From St. cor. of secs. 34, and 35, on the S. bdy. of Tp., heretofore described,
	N. 0° 01' W. bet. secs. 34 and 35,
	Ascending, through cedar and pinon pine timber.
19.00	Top of ascent, 178 ft. above sec. cor. Descend.
20.20	Gulch, 11 ft. deep, course S. 45° W.
	Ascend, 105 ft. to
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked S 34 | $\frac{1}{4}$ | S 35 ✓ 1916

Chains.

from which

A pinon pine, 6 ins. dia., bears S. 70° E. 30 lks. dist., marked ¼ S 35. B T ✓

A pinon pine, 8 ins. dia., bears S. 72° W., 14 lks. dist., marked ¼ S 34 B. T ✓

Ascend over Three Step Hill,

43.50 Edge of rim rock Three Step Hill, bears E. and W.

Descend over steep north slope.

61.80 Foot of abrupt descent, 485 ft. below rim rock; thence descend gradually.

80.00 690 ft. below rim rock,

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 26, 27, 34, and 35, with brass cap marked

T 30 S R 25 E
S 27 | S 26
S 34 | S 35
1916

✓

from which

A pinon pine, 10 ins. dia., bears N. 50° E. 10 lks. dist., marked T 30 S R 25 E S 26 B T ✓

A pinon pine, 10 ins. dia., bears S. 23° 30' E. 20 lks. dist., marked T 30 S R 25 E S 35 B T ✓

A pinon pine, 8 ins. dia., bears S. 60° 45' W. 15 lks. dist., marked T 30 S R 25 E S 34 B T ✓

A pinon pine, 9 ins. dia., bears N. 39° 30' W. 41 lks. dist., marked T 30 S R 25 E S 27 B T ✓

Land, mountainous.

Soil, rocky; 4th rate.

Timber, dense cedar and pinon pine.

East, on a random line bet. secs. 26 and 35,

40.00 Set temp. ¼ sec. cor.

79.94 Intersect N. and S. line, 11 lks. S. of the cor. of secs. 25, 26, 35 and 36.

Chains.	
	Thence
	S.89° 55'W. on true line bet. secs. 26 and 35,
	Ascending, over NE. slope; through cedar and pinon pine timber.
7.00	Rim rock bears S.40° W., and N.40° E., 70 ft. above sec. cor.
	Descend over steep NW. slope.
16.80	Leave timber, bearing N.45° W. and S.45° E. Enter level land, sagebrush undergrowth.
39.97	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 26 / S 35 1916
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.
	Corner is 230 ft. below rim rock.
47.80	Pole fence bears N.50° E., and S.50° W.
65.00	Wash, 3 ft. deep, 20 lks. wide, course N.
79.00	Enter timber, bearing N.30° W., and S.30° E.
79.94	The cor. of secs. 26, 27, 34, and 35.
	Land, mountainous and level.
	Soil, rocky and sandy; 4th and 2d rates.
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.
	N.0° 01'W., between secs. 26 and 27,
	Through cedar and pinon pine timber.
1.50	Leave timber, bearing N.30° W., and S.30° E.
	Enter level land.
22.00	Wire fence bears N.40° E., and S.40° W.
34.00	Wash, course E., 30 lks. wide, 4 ft. deep.
35.00	Enter timber, bearing E. and W.
	Ascend gradually over S. slope;
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the

Chains.

ground, for ¼ sec. cor., with brass cap marked

S 27 | ¼ | S 26 ✓
1916

from which

A pinon pine, 8 ins. dia., bears S. 42° E. 130 lks. dist., marked ¼ S 26 B T ✓

A pinon pine, 10 ins. in dia., bears N. 82° 30' W. 58 lks. dist., marked ¼ S 27 B T ✓

Corner is 34 ft. above wash.

63.30 Ridge, 185 ft. above ¼ sec. cor., bears E. and W.

Descend over N. slope.

70.60 Gulch, 48 ft. below ridge, course N. 80° E.

Ascend over S. slope.

77.70 Spur, 37 ft. above gulch, projects E.

Descend over N. slope.

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, with brass cap marked

T 30 S R 25 E
S 22 | S 23 ✓
S 27 | S 26
1916

from which

A pinon pine, 6 ins. dia., bears N. 71° E. 24 lks. dist., marked T 30 S R 25 E S 23 B T ✓

A pinon pine, 6 ins. dia., bears S. 60° 30' E. 32 lks. dist., marked T 30 S R 25 E S 26 B T ✓

A pinon pine, 6 ins. dia., bears S. 61° W. 35 lks. dist., marked T 30 S R 25 E S 27 B T ✓

A pinon pine, 10 ins. dia., bears N. 28° W. 68 lks. dist., marked T 30 S R 25 E S 22 B T ✓

Land, level, and mountainous.

Soil, sandy and rocky, 2d and 4th rates.

Timber, cedar and pinon pine.

Chains.	
	N. 89° 55' E. on a random line bet. secs. 23 and 26,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.88	Intersect N. and S. line 18 lks. S. of the cor. of secs. 23, 24, 25, and 26. Thence
	S. 89° 47' W. on true line bet. secs. 23 and 26,
	Descending, through cedar and pinon pine timber.
10.88	Leave timber, bearing S. 60° E., and N. 60° W.
13.38	Wash, 20 ft. below sec. cor., course N. 80° E.
14.88	Enter timber, bearing N. 75° E., and S. 75° W.
	Ascend over SW. slope.
23.88	Spur, 25 ft. above wash, projects S.
	Descend over SE. slope.
28.88	Enter flat, bearing N. 50° W. and S. 50° E.
	Leave timber bearing N. 60° W., and S. 60° E.
31.58	Wash, 8 ft. deep, 25 lks. wide, course S. 25° E.
39.94	50 ft. below spur,
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S 23 / S 26 / 1916
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.
45.08	Wagon road bears N. 50° W. and S. 50° E.; to Lower Lisbon Valley and Dolores Colorado.
54.18	Leave flat; enter timber bearing N. 50° W. and S. 50° E.
58.88	Brush fence, bearing N. 30° E., and S. 30° W.
	Ascend.
70.48	Spur, 290 ft. above $\frac{1}{4}$ sec. cor., projects N. 40° E.
	Descend over steep W. slope.
75.88	Gulch, 160 ft. below spur, course N.
	Ascend, over N. slope, 23 ft. to
79.88	The cor. of secs. 22, 23, 26, and 27.
	Land, mountainous and level.
	Soil, sandy, 2d rate, and rocky, 4th rate.
	Timber, cedar and pimon pine.

Chains.	
	N.0° 01'W.bet.secs.22 and 23,
	Over rolling NE.slope; through cedar and pinon pine timber.
4.00	Gulch, 20 ft.below sec.cor., course S.80° E.
	Ascend.
11.40	Spur, 60 ft.above gulch, projects S.40° E.
	Descend over NE.slope.
30.10	Leave timber, bearing N.70° E., and S.15° W.
	Thence over level land; Lisbon Valley.
37.30	Lisbon Valley road bears N.20° W., and S.20° E.
40.00	160 ft.below spur,
	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked S 22 $\frac{1}{4}$ S 23 ✓ 1916
	Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.
49.60	Wash, 10 ft.deep, 25 lks.wide, course S.80° E.
53.00	Enter timber, bearing S.70° E., and N.70° W.
	Ascend over steep, rocky SW.slope.
66.00	Top of ascent, 180 ft.above wash.
	Descend.
69.70	Gulch, 17 ft.below top of ascent, course W.
	Ascend.
72.30	Spring, with watering troughs, bears west 7.34 chs.dist.
	Log cabin, 15 x 30 ft. bears S.14° E.of spring about 8.00 chs.; C.Bankhead, claimant.
	Top of rim rock bears N.40° W. and S.40° E.
80.00	90 ft.above gulch,
	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.14,15,22, and 23, with brass cap marked T 30 S R 25 E ✓ S 15 | S 14 S 22 | S 23 1916
	from which

Chains.	
	A pinon pine, 8 ins. dia., bears N. 22° E. 67 lks. dist., marked T 30 S R 25 E S 14 B T
	A pinon pine, 8 ins. dia., bears S. 68° 30' E. 53 lks. dist., marked T 30 S R 25 E S 23 B T
	A pinon pine, 9 ins. dia., bears S. 38° W. 115 lks. dist., marked T 30 S R 25 E S 22 B T
	A pinon pine, 10 ins. dia., bears N. 53° W. 28 lks. dist., marked T 30 S R 25 E S 15 B T
	Land, rolling, mountainous, and level.
	Soil, rocky, 4th rate; and sandy 1st rate.
	Timber, pinon pine and cedar.
	N. 89° 47' E. on a random line bet. secs. 14 and 23,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.78	Intersect N. and S. line 42 lks. N. of the cor. of secs. 13, 14, 23, and 24. Thence
	N. 89° 55' W. on true line bet. secs. 14 and 23,
	Ascending gradually; through cedar and pinon pine timber.
4.98	Ridge, 23 ft. above sec. cor., bears N. and S.
	Descend.
9.88	Wash, 1 ft. deep, 10 lks. wide, course N., 40 ft. below ridge.
	Ascend.
14.88	Ridge bears N. 50° E., and S. 50° W.
	Descend gradually.
21.98	Gulch, 52 ft. below ridge, course N. 40° E.
	Ascend.
39.89	50 ft. above gulch,
	Set an iron post 3 ft. long, 1 in. in dia., in mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 14 / S 23 / 1916
	from which
	A pinon pine, 6 ins. dia., bears north 55 lks.

Chains.	
	dist., marked $\frac{1}{4}$ S 14 B T ✓
	A pinon pine, 8 ins. dia., bears S.28° E. 44 lks. dist., marked $\frac{1}{4}$ S 23 B T ✓
	Natural obstacles prevent setting post in the ground.
	Ascend.
55.78	Ridge, divide between Coyote and Lisbon Valley, bears N. and S., 120 ft. above $\frac{1}{4}$ sec. cor.
	Descend gradually.
79.78	The cor. of secs. 14, 15, 22, and 23.
	Land, mountainous.
	Soil, rocky; 4th. rate.
	Timber, cedar and pinon pine.
	N.0° 01'W. bet. secs. 14 and 15,
	Ascending gradually; through cedar and pinon pine timber.
30.00	Ridge, Divide between Lisbon and Coyote valleys, bears N. 60° W., and S.60° E., 90 ft. above sec. cor.
	Descend over NE. slope.
40.00	50 ft. below divide,
	Set an iron post 3 ft. long, 1. in. in dia., in mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked
	S 15 | $\frac{1}{4}$ | S 14 ✓ 1916
	from which
	A pinon pine, 8 ins. dia., bears S.86°E. 44 lks. dist., marked $\frac{1}{4}$ S 14 B T ✓
	A pinon pine, 12 ins. dia., bears S.65° W. 105 lks. dist., marked $\frac{1}{4}$ S 15 B T ✓
67.00	Gulch, course N.60° E., 80 ft. below ridge.
	Thence along SW. slope.
75.00	Ascend.
80.00	23 ft. above gulch,
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the

Chains.

ground, for cor. of secs. 10, 11, 14, and 15, with brass cap marked

T 30 S R 25 E
S 10 | S 11
S 15 | S 14
1916

from which

A pinon pine, 10 ins. dia., bears N. 52° 45' E. 98 lks. dist., marked T 30 S R 25 E S 11 B T

A pinon pine, 8 ins. dia., bears S. 35° 45' E. 48 lks. dist., marked T 30 S R 25 E S 14 B T

A pinon pine, 14 ins. dia., bears S. 38° 30' W. 112 lks. dist., marked T 30 S R 25 E S 15 B T

A pinon pine, 8 ins. dia., bears N. 43° 30' W. 37 lks. dist., marked T 30 S R 25 E S 10 B T

Land, mountainous.

Soil, rocky; 4th rate.

Timber pinon pine and cedar.

S. 89° 55' E. on a random line bet. secs. 11 and 14,

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.84 Intersect N. and S. line 12 lks. N. of the cor. of secs. 11, 12, 13, and 14. Thence

N. 89° 50' W. on true line bet. secs. 11 and 14,

Over rolling land.

15.00 Enter dense timber, bearing N. 40° E., and S. 40° W.

19.00 Gulch, 50 ft. below sec. cor., course N.

Ascend.

21.00 Spur, 13 ft. above gulch, projects N. 30° E.

Descend.

26.00 Gulch, course N. 50° E.

Ascend.

38.80 Ridge, 115 ft. above gulch, bears N. 40° E. and S. 40° W.

39.92 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

Chains.

$\frac{1}{4}\frac{S\ 11}{S\ 14\ 1916}$ ✓

from which

A pinon pine, 8 ins.dia., bears N.36° E. 137 lks. dist., marked $\frac{1}{4}$ S 11 B T ✓

A pinon pine, 6 ins.dia., bears S.16° 45'E. 43 lks.dist., marked $\frac{1}{4}$ S 14 B T ✓

56.40 Gulch, 63 ft.below $\frac{1}{4}$ sec.cor., course N.20° E.

Stream of water, from Bullhorn Spring, which bears south of line 7.00 chs.dist., 1 lk. wide, 3 ins. deep, course N.20° E.

Ascend.

64.60 Small ridge, 115 ft.above gulch, bears N.30° E. and S. 30° W. Descend.

79.84 The cor.of secs.10, 11, 14, and 15, 23 ft.below ridge.

Land, rolling and mountainous.

Soil, sandy, 2d rate, on E.15.00 chs.; balance, rocky 4th rate.

Heavy cedar and pinon pine timber, on west 64.84 chs. ✓

N.0° 01'W.bet.secs.10 and 11,

Ascending gradually; through cedar and pinon pine timber.

16.00 Ridge, 40 ft.above sec.cor., bears N.70° W., and S.70° E. Descend over NE.slope.

40.00 Set an iron post 3 ft.long, 1 in.in dia., in mound of stone, for $\frac{1}{4}$ sec.cor., with brass cap marked

$S\ 10 \mid \frac{1}{4} \mid S\ 11$ ✓

1916

from which

A pinon pine, 6 ins.dia., bears N.47° E. 41 lks. dist., marked $\frac{1}{4}$ S 11 B T ✓

A pinon pine, 8 ins.dia., bears S.84°W. 36 lks. dist., marked $\frac{1}{4}$ S 10 B T ✓

Chains.	
	Natural obstacles prevent setting post in the ground.
47.40	Gulch, 48 ft. below ¼ sec. cor., course N.50° E.
	Ascend over SW. slope.
59.90	Spur, 55 ft. above gulch, projects N.20° E.
	Descend over NW. slope.
69.70	Gulch, course N.30° E., 100 ft. below spur.
	Ascend.
74.70	Point of spur, 34 ft. above gulch, projects E.
	Thence along SE. slope; descending.
80.00	29 ft. below point of spur,
	Set an iron post 3 ft. long, 2 ins. in dia., 6 ins. in the ground, with mound of stone around post, for cor. of secs. 2, 3, 10, and 11, with brass cap marked

T 30 S R 25 E
S 3 | S 2
S 10 | S 11
1916 ✓

from which

A pinon pine, 10 ins. dia., bears N.42° 30'E. 75 lks. dist., marked T 30 S R 25 E S 2 B T ✓

A pinon pine, 8 ins. dia., bears S.49° 30'E. 51 lks. dist., marked T 30 S R 25 E S 11 B T ✓

A pinon pine, 10 ins. dia., bears S.62° 30'W. 81 lks. dist., marked T 30 S R 25 E S 10 B T ✓

A pinon pine, 12 ins. dia., bears N.50° 45'W. 108 lks. dist., marked T 30 S R 25 E S 3 B T ✓

Natural obstacles prevent setting post over 6 ins. in the ground.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, dense cedar and pinon pine.

S. 89° 50'E. on a random line bet. secs. 2 and 11,

40.00 Set temp. ¼ sec. cor.

79.82 Intersect N. and S. line 7 lks. N. of the cor. of secs. 1, 2, 11, and 12. Thence

Chains.	
	N.89° 47'W. on true line bet. secs. 2 and 11,
	Descending over sandstone ledge, bearing N. and S.; through scattering cedar and pinon pine timber and sagebrush.
9.82	Foot of ledge, bearing N. and S.
11.42	Wash, 85 ft. below sec. cor., 3 ft. deep, 15 lks. wide, course N. Ascend.
26.82	Ridge, 70 ft. above wash, bears N.50° E., and S.50° W.
	Descend over sandstone ledges bearing N.30° W., and S. 30° E.
29.82	Foot of ledges bearing N.30° W., and S.30° E.
39.91	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec. cor. with brass cap marked
	$\frac{1}{4}$ S 2 / S 11 1916
	from which
	A pinon pine, 10 ins. dia., bears N.13° E. 194 lks. dist., marked $\frac{1}{4}$ S 2 B T
	A cedar, 14 ins. dia., bears S.82° 45'W. 46 lks. dist., marked $\frac{1}{4}$ S 11 B T
	Natural obstacles prevent setting post over 14 ins. in the ground. Corner 40 ft. below ridge.
45.82	Leave timber and undergrowth, bearing N. and S.
	Ascend.
54.82	Top of ascent, 40 ft. above $\frac{1}{4}$ sec. cor.
	Descend.
57.92	Gulch, 34 ft. below top of ascent, course N.30° E.
	Ascend over rolling NE. slope.
71.32	Spur, 75 ft. above gulch, projects N.45° E.
	Descend over NW. slope.
78.32	Gulch, 29 ft. below spur, course N.35° E.
	Ascend through cedar and pinon pine timber, 24 ft. to
79.82	The cor. of secs. 2, 3, 10, and 11.

Chains.	
	Land, mountainous.
	Soil, sandy and rocky; 3d rate.
	Undergrowth, scattering sagebrush on east 45.82 chs.
	Timber, dense pinon pine and cedar on west 34.00 chs.; balance scattering.
	N.0° 01'W.on random line bet.secs.2 and 3,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
169.54	Intersect N.bdy.of Tp.41 lks.E.of the cor.of secs.2 and 3, heretofore described.
	Thence,
	S.0° 09'E, on true line bet.secs.2 and 3,
	Ascending gradually; through dense sagebrush,
14.14	Leave sagebrush, ; enter timber, bearing E.and W.
17.54	Leave timber, bearing E.and W.
24.54	Ridge, bears N.70° E., and S.70° W.
	Descend over SE.slope.
55.04	Leave sagebrush; enter timber, bearing E.and W.
64.54	Gulch, 46 ft.below ridge, course N.75° E.
74.54	Leave timber bearing E.and W.; thence through dense sagebrush and greasewood undergrowth, bearing E.and W.
84.54	Wash, 2 ft.deep, 10 lks.wide, course N.80° E.
	Leave dense undergrowth; thence through scattering timber and sagebrush.
	Ascend gradually over NE.slope.
113.04	Low ridge, bears E.and W., 98 ft.above wash.
129.54	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked

$$\begin{array}{c|c} & \frac{1}{4} \\ S\ 3 & S\ 2\ \surd \\ 1916 & \end{array}$$

from which

k cedar, 13 ins.dia., bears N.29° E.352 lks. dist., marked $\frac{1}{4}$ S 2 B T $\surd$

Chains.	
	A pinon pine, 8 ins. dia., bears S.10° W. 120 lks. dist., marked $\frac{1}{4}$ S 3 B T ✓
	Thence along E. slope.
136.04	Top of slope bearing N.75° E. and S.75° W.,
	Descend over SE. slope.
144.94	Gulch, 85 ft. below top of slope, course N.80° E.
	Ascend over NW. slope, steep.
149.64	Spur, 113 ft. above gulch, projects N.60° E.
	Descend over SE. slope.
164.54	Gulch, 57 ft. below spur, course N.70° E.
	Ascend.
167.04	Spur, 40 ft. above gulch, projects N.60° E.
	Descend through cedar and pinon pine timber, 17 ft. to
169.54	The cor. of secs. 2, 3, 10, and 11.
	Land, mountainous.
	Soil, sandy and rocky; 2d and 3d rates.
	Undergrowth, sagebrush and greasewood.
	Timber, cedar and pinon pine.

From the standard cor. of secs. 33 and 34, on S. bdy. of Tp., heretofore described,
N.0° 02'W. bet. secs. 33 and 34,
Ascending, through cedar and pinon pine.

37.90	Edge of rim rock, Three Step Hill, 350 ft. above sec. cor. bears E. and W.
	Descend abruptly over N. slope.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec. cor. with brass cap marked

S 33 | $\frac{1}{4}$ | S 34 ✓
1916

from which:

A pinon pine, 6 ins. dia., bears N.82° E. 21 lks.

Chains	
	dist., marked $\frac{1}{4}$ S 34 B T ✓
	A pinon pine, 8 ins. dia., bears S. 64° W. 34 lks. dist., marked $\frac{1}{4}$ S 33 B T. ✓
45.00	Foot of steep slope, 129 ft. below $\frac{1}{4}$ sec. cor., bears E. and W. Thence descend gradually.
63.10	Wash, 2 ft. deep, 12 lks. wide, 345 ft. below $\frac{1}{4}$ sec. cor., course W.
	Ascend over SW. slope 75 ft. to
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 27, 28, 33, and 34, with brass cap marked

T 30 S R 25 E
S 28 | S 27 ✓
S 33 | S 34
1916

from which

A cedar, 8 ins. dia., bears N. 57° 15' E. 34 lks. dist., marked T 30 S R 25 E S 27 B T ✓

A pinon pine, 8 ins. dia., bears S. 71° E. 25 lks. dist., marked T 30 S R 25 E S 34 B T ✓

A pinon pine, 6 ins. dia., bears S. 19° 30' W. 52 lks. dist., marked T 30 S R 25 E S 33 B T ✓

A pinon pine, 8 ins. dia., bears N. 34° 15' W. 85 lks. dist., marked T 30 S R 25 E S 28 B T ✓

Land, mountainous.

Soil, rocky

Timber, cedar and pinon pine.

	East, on a random line bet. secs. 27 and 34,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line 2 lks. S. of the cor. of secs. 26, 27, 34, and 35. Thence
	S. 89° 59' W. on true line bet. secs. 27 and 34,
	Ascending, over rolling north slope; through cedar and pinon pine timber.

Chains.	
22.00	Wash, 2 ft. deep, 12 lks. wide, course N.80° E.
40.00	180 ft. above sec. cor.
	Set an iron post 3 ft. long, 1 in. in dia., in mound of stones, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 27 / S 34 / 1916 ✓
	from which
	A pinon pine, 8 ins. dia., bears N.31° E. 40 lks. dist., marked $\frac{1}{4}$ S 27 B T ✓
	A pinon pine, 6 ins. dia., bears S.12° W., 45 lks. dist., marked $\frac{1}{4}$ S 34 B T ✓
	Natural obstacles prevent setting post in the ground.
	Ascend.
45.00	Spur, 40 ft. above $\frac{1}{4}$ sec. cor., projects N.
	Descend.
57.20	Wash, 3 ft. deep, 15 lks. wide, 80 ft. below spur, course N.30° E.
	Ascend over NE. slope.
66.30	Ridge, 50 ft. above wash, bears N.45° W., and S.45° E.
	Descend over SW. slope.
80.00	The cor. of secs. 27, 28, 33, and 34, 95 ft. below ridge.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, cedar and pinon pine.

	N.0° 02' W. bet. secs. 27 and 28,
	Ascending over rolling SW. slope; through cedar and pinon pine timber.
3.00	Spur, 30 ft. above sec. cor., projects SW. Descend.
10.90	Gulch, 50 ft. below spur, course S.40° W.
	Ascend.
27.70	Ridge, 150 ft. above gulch, bears N.50° W., and S.50° E.
	Descend, over NE. slope.
39.50	Wash, course N.30° W.

Chains.

40.00 110 ft. below ridge,

Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec. cor. with brass cap marked

$$S\ 28 \mid \overset{\frac{1}{4}}{S\ 27}\ \checkmark$$
$$1916$$

from which

A pinon pine, 6 ins. dia., bears N. 15° E. 19 lks. dist., marked $\frac{1}{4}$ S 27 B T ✓

A pinon pine, 8 ins. dia., bears west 17 lks. dist. marked $\frac{1}{4}$ S 28 B T ✓

Ascend.

42.00 Spur, 21 ft. above $\frac{1}{4}$ sec. cor., projects W.

Descend.

45.00 Wash, 2 ft. deep, 10 lks. wide, 23 ft. below spur, course W. Ascend over south slope.

80.00 230 ft. above wash,

Set an iron post 3 ft. long, 2 ins. in dia., 12 ins. in the ground, with mound of stone around post, for cor. of secs. 21, 22, 27, and 28, with brass cap marked

$$\begin{array}{c} T\ 30\ S\ R\ 25\ E \\ S\ 21 \mid S\ 22 \\ \hline S\ 28 \mid S\ 27 \\ 1916 \end{array}\ \checkmark$$

from which

A pinon pine, 10 ins. dia., bears N. 7° E. 56 lks. dist., marked T 30 S R 25 E S 22 B T ✓

A pinon pine, 8 ins. dia., bears S. 40° 30' E. 25 lks. dist., marked T 30 S R 25 E S 27 B T ✓

A pinon pine, 8 ins. dia., bears S. 37° 15' W. 30 lks. dist., marked T 30 S R 25 E S 28 B T ✓

A pinon pine, 8 ins. dia., bears N. 44° W. 48 lks. dist., marked T 30 S R 25 E S 21 B T ✓

Natural obstacles prevent setting posts over 12 ins. in the ground.

Chains.	
	Land, rolling hills.
	Soil, rocky; 4th rate.
	Timber, cedar and pinon pine.
	N.89° 59'E.on a random line bet.secs.22 and 27,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.86	Intersect N.and S.line 14 lks.N.of the cor.of secs.22, 23, 26, and 27. Thence
	N.89° 55'W.on true line bet.secs.22 and 27,
	Ascending, through cedar and pinon pine timber.
19.86	Ridge, 154 ft.above sec.cor., bears S.60° E., and N.60° W. Descend.
26.86	Draw, 17 ft.below ridge, course N.50° W.
	Ascend.
29.86	Ridge, 34 ft.above draw, bears N.60° W., and S.60° E.
	Descend.
39.93	23 ft.below ridge,
	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked
	$\frac{1}{4}$ S 22 / S 27 / 1916 ✓
	from which
	A pinon pine, 8 ins.dia., bears N.32° E. 34 lks. dist., marked $\frac{1}{4}$ S 22 B T ✓
	A pinon pine, 10 ins.dia., bears S.77° 30'E. 79 lks.dist., marked $\frac{1}{4}$ S 27 B T ✓
	Thence over gently rolling land.
54.86	Leave timber, bearing N.70° W., and S.70° E.
	Enter sagebrush, bearing N.70° W., and S.70° E.
64.86	Leave sagebrush; enter timber, bearing N.70° W., and S. 70° E. ; dense.
74.86	Ridge , bearing N.40° W., and S.40° E.
79.86	The cor.of secs.21, 22, 27, and 28.
	Land, mountainous and gently rolling.

Chains.	
	Soil, sandy and rocky; 2d and 3d rates.
	Undergrowth, sagebrush.
	Timber, pinon pine and cedar; dense on west 15.00 chs.
	N.0° 02'W. bet. secs. 21 and 22,
	Ascending over west slope; through cedar and pinon pine timber.
2.50	Ridge, 17 ft. above sec. cor., bears N.50° W., and S.70° E.
	Divide between Big Indian and Lisbon Valleys.
	Thence over rolling hills.
15.00	Spur, 7 ft. below ridge, projects E.
	Descend over N. slope.
18.60	Gulch, 125 ft. below spur, course E.
	Ascend over S. slope.
37.15	Ridge, 200 ft. above gulch, bears E. and W.
	Descend over N. slope.
40.00	55 ft. below ridge,
	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	S 21 $\frac{1}{4}$ S 22 ✓
	1916
	from which
	A pinon pine, 8 ins. dia., bears S.72° E. 15 lks. dist., marked $\frac{1}{4}$ S 22 B T ✓
	A cedar, 10 ins. dia., bears S.45° W. 11 lks. dist. marked $\frac{1}{4}$ S 21 B T ✓
	Natural obstacles prevent setting post over 12 ins. in ground
49.60	Wash, 160 ft. below $\frac{1}{4}$ sec. cor., course N.70° E.
	Thence over rolling land.
56.60	Wash, course E., 5 ft. deep, 30 lks. wide.
74.60	Leave timber, bearing N.70° W., and S.70° E.
	Thence over level land.
77.80	Wash, 3 ft. deep, 15 lks. wide, course N.40° E.

Chains.	
80.00	190 ft. below ¼ sec. cor.
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, with brass cap marked
	T 30 S R 25 E S 16 | S 15 S 21 | S 22 1916 ✓
	Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.
	Land, mountainous, rolling, and level.
	Soil, rocky; 4th rate; and sandy; 1st rate.
	Timber, cedar and pinon pine.
	S. 89° 55' E. on a random line bet. secs. 15 and 22,
40.00	Set temp. ¼ sec. cor.
79.80	Intersect N. and S. line 21 lks. S. of cor. of secs. 14, 15, 22, and 23. Thence
	S. 89° 56' W. on true line bet. secs. 15 and 22, ✓
	Descending over SW. slope of divide between Coyote and Lisbon valleys; through cedar and pinon pine.
5.00	Top of cliffs bearing N. 45° W., and S. 45° E.
	Descend.
13.67	Leave timber, bearing S. 28° E., and N. 28° W.
	Enter level land; sandy soil; Lisbon Valley.
31.10	Wagon road bears N. 30° W., and S. 30° E.; Lisbon Valley road.
39.90	258 ft. below sec. cor.,
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 15 / S 22 1916 ✓
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.
48.40	Enter timber bearing N. and S.
55.00	Leave timber, bearing S. 80° W., and N. 80° E.
57.60	Wash, 10 ft. deep, 25 lks. wide, course N. 50° E.

Chains.	
67.00	Enter timber, bearing N. 70° E., and S. 70° W.
68.50	Spur, 36 ft. above wash, projects S. 45° E.
	Descend.
70.00	Ascend. 40 ft. to
72.40	Spur, projects S.
	Descend.
75.30	Wash, 6 ft. deep, 50 lks. wide, course S. 70° E. 40 ft. below spur. Leave timber.
79.80	The cor. of secs. 15, 16, 21, and 22.
	Land, mountainous and level valley.
	Soil, sandy 1st rate in valley; rocky, 4th rate on E. 13.67 chs.; balance sandy rocky; 3d rate.
	Timber, cedar and pinon pine.

N. 0° 02' W. bet. secs. 15 and 16,

Over level land, in Lisbon Valley.

1.50	Wash, 4 ft. deep, 25 lks. wide, course E.
5.00	Ascend through timber, bearing N. 60° E., and S. 60° W.
7.00	Ridge, 23 ft. above sec. cor., bears N. 40° W., and S. 40° E.
21.50	Leave timber bearing E. and W.
	Enter level land.
40.00	37 ft. below ridge,
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 16 | $\frac{1}{4}$ | S 15

1916

	Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.
43.00	Enter scattering timber bearing N. 50° W., and S. 50° E.
50.00	Low ridge, 40 ft. above $\frac{1}{4}$ sec. cor., bears E. and W.
	Descend.
53.60	Leave timber bearing E. and W.
	Thence over level land.
57.70	Wagon road, Lisbon Valley road, bears N. 60° W., and S. 60° E.

Chains.

65.00 Enter timber bearing N. 40° W., and S. 40° E.

Ascend over SW. slope, 115 ft. to

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 10 ins. in the ground, with mound of stone around post, for cor. of secs. 9, 10, 15, and 16, with brass cap marked

T 30 S R 25 E
S 9 | S 10
S 16 | S 15
1916

from which

A cedar, 9 ins. dia., bears N. 86° 30' E. 18 lks. dist., marked T 30 S R 25 E S 10 B T

A pinon pine, 8 ins. dia., bears S. 65° 30' E. 89 lks. dist., marked T 30 S R 25 E S 15 B T

A pinon pine, 8 ins. dia., bears S. 75° W., 45 lks. dist., marked T 30 S R 25 E S 16 B T

A pinon pine, 10 ins. dia., bears N. 45° 30' W. 60 lks. dist., marked T 30 S R 25 E S 9 B T

Natural obstacles prevent setting post over 10 ins. in ground,

Land, 14.50 chs. mountainous; balance level valley.

Soil, sandy 2d rate, and rocky 3d rate.

Timber, pinon pine and cedar.

N. 89° 56' E. on a random line between secs. 10 and 15,

40.00 Set temp. ¼ sec. cor.

79.86 Intersect N. and S. line 3 lks. S. of the cor. of secs. 10, 11, 14, and 15. Thence

S. 89° 55' W. on true line bet. secs. 10 and 15,

Ascending over SW. slope; through cedar and pinon pine.

25.90 Ridge, 300 ft. above sec. cor., bears N. 50° E., and S. 50° W. Descend.

38.20 Gulch, 110 ft. below ridge, course N. 40° E.

Ascend.

39.93 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the

Chains.

ground, with mound of stone around post, for $\frac{1}{4}$ sec.cor. with brass cap marked

$$\frac{1}{4}\ \frac{S\ 10}{S\ 15}\ \frac{\checkmark}{1916}$$

from which,

A pinon pine, 8 ins.dia., bears N.66° E. 44 lks. dist., marked $\frac{1}{4}$ S 10 B T ✓

A pinon pine, 6 ins.dia., bears S.18° E. 34 lks. dist., marked $\frac{1}{4}$ S 15 B T ✓

Natural obstacles prevent setting post over 12 ins.in the ground.

53.00 Ridge, 80 ft.above $\frac{1}{4}$ sec.cor., bears N.50° W., and S.50° E.; Divide between Coyote and Lisbon valleys.

Descend over rocky SW.slope of divide.

79.86 The cor.of secs.9,10,15, and 16, 138 ft.below divide.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, dense cedar and pinon pine.

N.0° 02'W.bet.secs.9 and 10,

Ascending, over rolling land; through dense cedar and pinon pine; SW.slope.

24.70 Gulch, course S.75° W. ,21 ft.deep.

34.40 Ridge,Divide between Coyote and Lisbon valleys, 270 ft. above sec.cor., bears N.60° W., and S.60° E.

Descend over NE.slope.

40.00 29 ft.below divide,

Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, with mound of stone around post, for $\frac{1}{4}$ sec.cor. with brass cap marked

$$S\ 9 \Big|^{\frac{1}{4}}_{1916}\ S\ 10\ \checkmark$$

from which

Chains.

A pinon pine, 6 ins. dia., bears N.48° E. 26 lks. dist., marked $\frac{1}{4}$ S 10 B T ✓

A pinon pine, 8 ins. dia., bears N.77° 30'W. 61 lks. dist., marked $\frac{1}{4}$ S 9 B T ✓

65.00 Natural obstacles prevent setting post over 12 ins. in the ground.

65.00 Gulch, 115 ft. below $\frac{1}{4}$ sec. cor., course N.70° E.

Ascend.

70.00 Top of ascent, 23 ft. above gulch.

Descend.

78.00 Gulch, 40 ft. below top of ascent, course N.40° E.

80.00 Set an iron post 3 ft. long, 2 ins. in dia., in mound of stone, for cor. of secs. 3, 4, 9, and 10, with brass cap marked

T 30 S R 25 E
S 4 | S 3 ✓
S 9 | S 10
1916

from which

A pinon pine, 24 ins. dia., bears N.36° 30'E. 49 lks. dist., marked T 30 S R 25 E S 3 B T ✓

A pinon pine, 8 ins. dia., bears S.58° 30'E. 39 lks. dist., marked T 30 S R 25 E S 10 B T ✓

A pinon pine, 8 ins. dia., bears S.37° W. 61 lks. dist., marked T 30 S R 25 E S 9 B T ✓

A pinon pine, 8 ins. dia., bears N.31° 30'W. 39 lks. dist., marked T 30 S R 25 E S 4 B T ✓

Natural obstacles prevent setting post in the ground.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, dense cedar and pinon pine.

N.89° 55'E. on a random line bet. secs. 3 and 10,

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect N. and S. line at the cor. of secs. 2, 3, 10, and 11.

Chains.	
	Thence
	S.89° 55'W.on true line bet.secs.3 and 10,
	Ascending over SE slope; through cedar and pinon pine.
2.90	Spur, 50 ft. above sec.cor., projects N.60° E.
	Descend.
7.40	Gulch, 35 ft. below spur, course N.65° E.
	Ascend.
15.00	Ridge, 75 ft. above gulch, bears N.40° E., and S.40° W.
	Descend over rolling NE. slope.
32.80	Gulch, 21 ft. deep, course N.30° E.
	Ascend gradually.
39.98	23 ft. above gulch,
	Set an iron post 3 ft. long, 1 in. in dia., in mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ $\frac{S\ 3}{S\ 10}$ 1916
	from which
	A pinon pine, 8 ins. dia., bears N.47° 30'E. 37 lks. dist., marked $\frac{1}{4}$ S 3 B T
	A pinon pine, 10 ins. dia., bears S.3° 30'E. 45 lks. dist., marked $\frac{1}{4}$ S 10 B T
42.20	Gulch, course N.35° E.
	Ascend.
72.30	Ridge, 225 ft. above gulch, bears N.40° E. and S.40° W.
	Descend gradually.
78.75	Gulch, course N.40° E.
	Ascend.
79.96	The cor. of secs.3, 4, 9, and 10.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, dense pinon pine and cedar.

	N.0° 02'W.on a random line bet.secs.3 and 4,
40.00	Set temp, $\frac{1}{4}$ sec. cor.

Chains.	
169.33	Intersect N.bdy.of Tp. 41 lks.E.of cor.of secs.3 and 4 heretofore described.
	Thence ✓
	S.0° 10'E.on true line bet.secs.3 and 4,
	Descending, through sagebrush, over rolling NE.slope.
8.03	Leave sagebrush; enter timber, bearing N.50° E. and S.50° W., scattering.
24.33	Wash, 2 ft.deep, 15 lks.wide, course E.
31.33	Leave scattering timber, bearing N.50° E., and S.50° W.
38.33	Wash, 1 ft.deep, 10 lks.wide, course N.70° E.
63.33	Enter timber, bearing E.and W.
	Ascend gradually.
78.33	Ridge bears E.and W., 23 ft.above wash.
	Descend.
83.33	Gulch, 85 ft.below ridge, course E.
96.33	Gulch, course N.75° E.
	Ascend.
129.33	190 ft.above gulch,
	Set an iron post 3 ft.long, 1 in.in dia., in mound of stone, for $\frac{1}{4}$ sec.cor., with brass cap marked
	$\frac{1}{4}$ S 4 | S 3 ✓ 1916
	from which
	A pinon pine, 10 ins.dia., bears S.33° 30'E. 59 lks.dist., marked $\frac{1}{4}$ S 3 B T ✓
	A pinon pine, 10 ins.dia., bears N.54° 30'W. 85 lks.dist., marked $\frac{1}{4}$ S 4 B T ✓
	Natural obstacles prevent setting post in the ground.
	Ascend.
149.73	23 ft.above $\frac{1}{4}$ sec.cor. spur, projects N.40° E.
	Descend.
154.63	Gulch, 50 ft.below spur, course N.70° E.
	Ascend.
169.33	The cor.of secs.3,4,9, and 10.

Chains.	
	Land, rolling NE. slope.
	Soil, rocky 4th rate and sandy 2d rate.
	Undergrowth, sagebrush.
	Timber, pinon pine and cedar.
	From the standard cor. of secs. 32 and 33 on the S. bdy. of Tp., heretofore described,
	N. 0° 03' W. bet. secs. 32 and 33,
	Ascending gradually, over broken mountainous country; through cedar and pinon pine timber and scattering sagebrush.
4.50	Ridge, 35 ft. above sec. cor., bears E. and W.
	Descend abruptly.
23.00	Leave timber, bearing N. 65° E., and S. 65° W.
23.36	Wash, 280 ft. below ridge, 4 ft. deep, 20 lks. wide, drains S. 80° W.
25.50	Same wash, drains S. 75° E.
30.00	Same wash, drains S. 70° E.
	Ascend gradually.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked S 32 | $\frac{1}{4}$ | S 33 √ 1916
	Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.
47.00	Enter timber, bearing N. 80° W., and S. 80° E.
62.00	Top of butte, 150 ft. above wash.
	Descend gradually.
66.50	Wash, 8 ft. deep, 20 lks. wide, drains E. 80 ft. below butte.
	Ascend gradually.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 28, 29, 32, and 33, with brass cap marked

Chains.

T 30 S R 25 E.

S 29	S 28
S 32	S 33

1916

from which

A pinon pine, 14 ins.dia., bears N.74° E. 64 lks. dist., marked T 30 S R 25 E S 28 B T

A pinon pine, 10 ins.dia., bears S.13° E. 172 lks. dist., marked T 30 S R 25 E S 33 B T

A pinon pine, 12 ins.dia., bears S.63° 30'W. 71 lks.dist., marked T 30 S R 25 E S 32 B T

A pinon pine, 8 ins.dia., bears N.54° W.29 lks. dist., marked T 30 S R 25 E S 29 B T

Land, rough, mountainous; general SW.drainage into Big Indian Wash.

Soil, rocky, sandy, and loose rock.

Undergrowth, scattering sagebrush.

Timber, cedar and pinon pine.

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

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.06 Intersect N.and S.line 12 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,

Descending over SW.slope of Divide between Big Indian and Lisbon valleys; through cedar and pinon pine timber.

12.00 Enter gently rolling land.

31.00 Leave timber, bearing S.43° W., and N.43° E.

40.03 52 ft.above sec.cor.,

Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked

$\frac{1}{4}$ S 28 / S 33

1916

Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist.

51.20 Wash, 2 ft.deep, 20 lks.wide, course S.50° W.

Chains.	
63.00	Wash, 3 ft. deep, 25 lks. wide, course S. 40° W.
66.50	Wash, 3 ft. deep, 30 lks. wide, course S.
80.06	The cor. of secs. 28, 29, 32, and 33.
	Land, broken SW. slope of divide between Big Indian and Lisbon valleys.
	Soil, rocky 4th rate, and sandy 2d rate.
	Timber, cedar and pinon pine on E. 31.00 chs.

N. 0° 03' W. bet. secs. 28 and 29,

Over rolling land; through scattering cedar and pinon pine timber.

10.00	Enter dense timber, bearing E. and W.
36.60	Wash, 3 ft. deep, 20 lks. wide, course S. 30° E.
	Ascend.
40.00	78 ft. above sec. cor.,

Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
S 29 | S 28
1916

from which

A pinon pine, 10 ins. dia., bears S. 83° E. 63 lks. dist., marked $\frac{1}{4}$ S 28 B T

A pinon pine, 12 ins. dia., bears S. 58° W. 60 lks. dist., marked $\frac{1}{4}$ S 29 B T

Ascend.

76.75	Ridge, 198 ft. above wash, bears N. 85° E., and S. 85° W.
	Descend over rolling NW. slope.
80.00	24 ft. below ridge,

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, with brass cap marked

T 30 S | R 25 E
S 20 | S 21
S 29 | S 28
1916

Chains.

from which

A pinon pine, 6 ins.dia., bears N.86° E.51 lks. dist., marked T 30 S R 25 E S 21 B T ✓

A pinon pine, 6 ins.dia., bears S.86° E. 46 lks. dist., marked T 30 S R 25 E S 28 B T ✓

A pinon pine, 15 ins.dia., bears S.36° W. 135 lks. dist., marked T 30 S R 25 E S 29 B T ✓

A pinon pine, 12 ins.dia., bears N.79° W. 81 lks. dist., marked T 30 S R 25 E S 20 B T ✓

Land, rolling.

Soil, rocky; 4th rate.

Timber, scattering cedar and pinon pine on S.10.00 chs.; balance dense.

N.89° 55'E.on a random line bet.secs.21 and 28,

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.18 Intersect N.and S.line 12 lks.N.of the cor.of secs.21, 22, 27, and 28. Thence

West on true line bet.secs.21 and 28,

Descending over SW.slope of Divide between Big Indian and Lisbon valleys; through dense cedar and pinon pine timber.

40.09 189 ft.below sec.cor.

Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked

$$\frac{1}{4}\ \frac{S\ 21}{S\ 28}\ \frac{}{1916}\ \checkmark$$

from which

A cedar, 6 ins.dia., bears N.22° W. 18 lks.dist. marked $\frac{1}{4}$ S 21 B T ✓

A pinon pine, 8 ins.dia., bears S.32° E. 47 lks. dist., marked $\frac{1}{4}$ S 28 B T ✓

Descend over SW.slope.

60.38 Gulch, course S.

Chains.	
	Ascend.
77.18	Ridge, 106 ft. above gulch, bears N.20° E., and S.20° W.
	Descend over NW. slope 45 ft. to
80.18	The cor. of secs. 20, 21, 28, and 29.
	Land, SW. slope of divide between Big Indian and Lisbon valleys.
	Soil, rocky; 4th rate.
	Timber, cedar and pinon pine.
	N.0° 03'W. bet. secs. 20 and 21,
	Over rolling NW. slope; through cedar and pinon pine.
12.20	Wash, 29 ft. below sec. cor., 2 ft. deep, 10 lks. wide, course W.
	Ascend over SW. slope.
31.40	Ridge, 156 ft. above wash, bears N.70° W. and S.70° E.
	Descend over NE. slope.
34.70	Gulch, 30 ft. below ridge, course N.50° W.
	Ascend over SW. slope.
40.00	50 ft. above gulch,
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	S 20 | $\frac{1}{4}$ | S 21 ✓
	1916
	from which
	A pinon pine, 9 ins. dia., bears S.60° E. 20 lks. dist., marked $\frac{1}{4}$ S 21 B T ✓
	A cedar, 6 ins. dia., bears west 48 lks. dist., marked $\frac{1}{4}$ S 20 B T ✓
	Ascend.
43.50	Ridge, 25 ft. above $\frac{1}{4}$ sec. cor., bears E. and W.
	Descend over north slope.
50.00	Wash, 2 ft. deep, 12 lks. wide, course W.
	Ascend over SW. slope.
71.50	Top of ascent, 95 ft. above wash. Descend over NW. slope,

Chains.	
79.50	Wash, 2 ft. deep, 15 lks. wide, course S. 20° W., 39 ft. below top of ascent.
80.00	Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 16, 17, 20, and 21, with brass cap marked T 30 S R 25 E S 17 | S 16 S 20 | S 21 1916 from which A pinon pine, 10 ins. dia., bears N. 20° E. 14 lks. dist., marked T 30 S R 25 E S 16 B T A pinon pine, 12 ins. dia., bears S. 36° E. 16 lks. dist., marked T 30 S R 25 E S 21 B T A pinon pine, 14 ins. dia., bears S. 12° W. 98 lks. dist., marked T 30 S R 25 E S 20 B T A pinon pine, 14 ins. dia., bears N. 70° W. 40 lks. dist., marked T 30 S R 25 E S 17 B T Land, rolling hills. Soil, rocky and sandy; 3d rate. Timber, dense cedar and pinon pine.
	East on a random line bet. secs. 16 and 21,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect N. and S. line 7 lks. S. of the cor. of secs. 15, 16, 21, and 22. Thence
	S. 89° 57' W. on true line bet. secs. 16 and 21,
	Over level land; through sagebrush.
25.00	Enter timber, bearing N. and S.
	Ascend over NE. slope of Divide between Big Indian and Lisbon valleys.
40.10	70 ft. above sec. cor.,
	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec. cor. with brass cap marked

Chains.	
	$\frac{1}{4}$ S 16 / S 21 1916 ✓
	from which
	A pinon pine, 6 ins. dia., bears N. 45° W. 13 lks. dist., marked $\frac{1}{4}$ S 16 B T ✓
	A pinon pine, 6 ins. dia., bears S. 20° E., 19 lks. dist., marked $\frac{1}{4}$ S 21 B T ✓
	Natural obstacles prevent setting post over 12 ins. in the ground.
	Ascend.
60.75	Top of Divide between Big Indian and Lisbon valleys, bearing N. and S., 188 ft. above $\frac{1}{4}$ sec. cor.
	Descend over rolling land.
79.90	Wash, 2 ft. deep, 15 lks. wide, course S. 20° W., 65 ft. below top of divide.
80.20	The cor. of secs. 16, 17, 20, and 21.
	Land, level valley, and rolling, mountainous.
	Soil, sandy, 1st rate, 25.00 chs.; balance rocky 4th rate.
	Undergrowth, sagebrush.
	Timber, pinon pine and cedar.

	N. 0° 03' W. bet. secs. 16 and 17,
	Ascending over rolling land; through dense cedar and pinon pine.
30.00	Divide between Big Indian and Lisbon valleys, 82 ft. above sec. cor., bears N. 60° W., and S. 60° E.
	Descend, over NE. slope of divide.
40.00	166 ft. below divide.
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	S 17 | $\frac{1}{4}$ | S 16 / 1916 ✓
	from which

Chains.	
	A pinon pine 8 ins. in dia., bears S.58° E. 15 lks. dist., marked $\frac{1}{4}$ S 16 B T ✓
	A cedar, 10 ins. dia., bears N.66° W. 43 lks. dist., marked $\frac{1}{4}$ S 17 B T ✓
	Continue descent.
80.00	115 ft. below $\frac{1}{4}$ sec. cor.,
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 8, 9, 16, and 17, with brass cap marked
	T 30 S R 25 E S 8 | S 9 ✓ S 17 | S 16 1916
	from which,
	A cedar, 8 ins. dia., bears N.54° E. 70 lks. dist. marked T 30 S R 25 E S 9 B T ✓
	A pinon pine, 12 ins. dia., bears S.80° E. 57 lks. dist., marked T 30 S R 25 E S 16 B T ✓
	A pinon pine, 10 ins. dia., bears S.65° 30'W. 44 lks. dist., marked T 30 S R 25 E S 17 B T ✓
	A pinon pine, 6 ins. dia., bears N.31° W., 51 lks. dist., marked T 30 S R 25 E S 8 B T ✓
	Land, rolling hills.
	Soil, sandy; 3d rate.
	Timber, dense cedar and pinon pine.
	N.89° 57'E. on a random line bet. secs. 9 and 16,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line 12 lks. S. of the cor. of secs. 9, 10, 15, and 16. Thence
	S.89° 52'W. ✓ on true line bet. secs. 9 and 16,
	Descending through pinon pine and cedar timber.
6.74	Enter level land; Lisbon Valley; leave timber, bearing N. and S.
22.24	Lisbon Valley road, bears N.20° W., and S.20° E.

Chains.	
36.54	Ascend, through dense timber, bearing N.20° W., and S. 20° E.
40.02	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, with mound of stone around post, for ¼ sec. cor. with brass cap marked ¼ S 9 / S 16 / 1916 ✓ from which A pinon pine, 10 ins. in dia., bears north 40 lks. dist., marked ¼ S 9 B T ✓ A pinon pine, 8 ins. dia., bears S.10° W. 98 lks. dist., marked ¼ S 16 B T ✓ Natural obstacles prevent setting post over 12 ins. in the ground.
44.19	Ridge, bears N.30° W., and S.30° E. 20 ft. above ¼ sec. cor. Descend.
52.04	Wash, 55 ft. below ridge, 2 ft. deep, 10 lks. wide, course S.30° E. Thence over level land.
63.04	Leave dense timber, bearing N. and S.
73.54	Leave level land, bearing N. and S. Thence over rolling land; through dense timber.
80.04	The cor. of secs. 8, 9, 16, and 17. Land, rolling, and level. Soil, sandy; 2d and 3d rates. Timber, pinon pine and cedar.

N. 0° 03' W. bet. secs. 8 and 9,

Over rolling, mountainous land; through dense cedar and pino pinon pine; descending gradually.

4.00	Leave timber bearing N.25° W., and S.25° E. Enter sage-brush.
4.50	Fence bears N.20° E., and S.20° W.
22.00	Lisbon Valley, 20 ft. below sec. cor., drains S.25° E. Ascend gradually.

Chains.	
35.00	Enter cedar and pinon pine timber, bearing N.25° W., and S.25° E. Leave sagebrush.
	Ascend.
40.00	On top of ridge, 30 ft.above Lisbon Valley, bearing N. 25° W., and S.25° E.
	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, to ledge, with mound of stone 14 ins.high 3 ft. base, around post, for $\frac{1}{4}$ sec.cor., with brass cap marked
	S 8 | $\frac{1}{4}$ S 9 ✓ 1916
	from which,
	A pinon pine, 8 ins.in dia., bears N.80° E. 24 lks.dist., marked $\frac{1}{4}$ S 9 B T ✓
	A pinon pine, 7 ins.dia., bears west 42 lks. dist., marked $\frac{1}{4}$ S 8 B T ✓
49.50	Leave timber, bearing N.20° W., and S.20° E.
52.30	Road in swale,(Lisbon Valley road),bears NW. and SE.
	Swale, 25 ft.below ridge, drains SE.
	Ascend gradually.
71.00	Enter timber bearing N.25° W., and S.25° E.
80.00	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.4,5,8, and 9, with brass cap marked
	T 30 S R 25 E S 5 | S 4 ✓ S 8 | S 9 1916
	from which
	A pinon pine, 8 ins.dia., bears N.16° 30'E.41 lks.dist., marked T 30 S R 25 E S 4 B T ✓
	A pinon pine, 6 ins.dia., bears S.53° 30'E. 68 lks.dist., marked T 30 S R 25 E S 9 B T ✓
	A pinon pine, 10 ins.dia., bears S.34° 30'W. 71 lks.dist., marked T 30 S R 25 E S 8 B T ✓

Chains. A pinon pine, 14 ins.dia., bears N.71° W. 50 lks. dist., marked T 30 S R 25 E S 5 B T ✓

Land, rolling NE., and SW.slopes of Lisbon Valley; general SE.drainage.

Soil, in valley rich, red, sandy, clay loam, 2 ft.or more deep; 1st rate; balance stony, rocky, and sandy, 3d and 4th rates.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

N.89° 52'E.on a random line bet.secs.4 and 9,

80.00 Set temp.¼ sec.cor.

80.02 Intersect N.and S.line 7½ lks.N.of the cor.of secs.3,4, 9, and 10. Thence

S.89° 55'W.on true line bet.secs.4 and 9,

Ascending over NE.slope of Divide between Coyote and Lisbon valleys; through.dense cedar and pinon pine timber.

9.90 Gulch, course N.30° E.

40.01 235 ft.above sec.cor.,

Set an.iron post 3 ft.long, 1 in.in dia., in mound of stone for ¼ sec.cor., with brass cap marked

$$\frac{\text{S } 4}{\text{S } 9} \quad 1916$$ ✓

from which

A pinon pine, 14 ins.dia., bears S.4° E. 57 lks. dist., marked ¼ S 9 B T ✓

A pinon pine, 8 ins.dia., bears N.52° W. 23 lks. dist., marked ¼ S 4 B T ✓

Natural obstacles prevent setting post in the ground.

45.00 Ridge, Divide between Coyote and Lisbon valleys,bears N.45° W., and S.45° E.

Descend, over broken SW.slope.

60.00 Foot of descent, 130 ft.below divide.

Chains.	
	Ascend.
67.60	Rocky spur, 85 ft. above foot of descent, projects S.30° W. Descend.
80.02	90 ft. below spur, the cor. of secs. 4, 5, 8, and 9.
	Land, rolling NE., and broken SW. slopes.
	Soil, rocky, sandy; 4th rate.
	Timber, dense cedar and pinon pine.
	N.0° 03'W. $\frac{1}{4}$ on random line bet. secs. 4 and 5,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
169.72	Intersect N. bdy. of Tp. 10 lks. E. of the cor. of secs. 4 and 5, heretofore described. Thence
	S.0° 05'E. on a true line bet. secs. 4 and 5,
	Over broken mesa, soil, sandy loam; through cedar and pinon pine timber, and scattering sagebrush; ascending gradually.
3.50	Spur, 20 ft. above sec. cor., projects N.60° E.
	Descend gradually.
19.00	Wash, 30 ft. below spur, drains N.60° E.
	Ascend gradually.
55.00	Ridge, 20 ft. above wash, bears E. and W.
	Descend gradually.
57.00	Wash, 30 ft. below ridge, drains E.
	Ascend gradually.
79.00	Spur, 60 ft. above wash, projects NE.
	Descend gradually.
82.60	Gulch, 50 ft. below spur, drains NE.
	Ascend gradually.
129.72	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 5 $\frac{1}{4}$ S 4 ✓
1916

from which

Chains.	
	A cedar, 8 ins. dia., bears N. 42° E. 40 lks. dist. marked $\frac{1}{4}$ S 4 B T ✓
	A pinon pine, 10 ins. dia., bears N. 16° W. 10 lks. dist., marked $\frac{1}{4}$ S 5 B T ✓
129.90	Ridge, Divide between Coyote and Lisbon valleys, 300 ft. above gulch, bears E. and W.
	Thence over level top of ridge, to
146.50	Rim rock bears NW. and SE.
	Descend abruptly.
169.72	The cor. of secs. 4, 5, 8, and 9.
	Land, mountainous NE. and SW. slopes from main ridge.
	Soil, generally rocky and stony, loose sandstone, and sandstone outcroppings.
	Undergrowth, scattering sagebrush.
	Timber, cedar and pinon pine.
	From St. cor. secs. 31 and 32, on S. bdy. Tp. heretofore described N. 0° 03' W. bet. secs. 31 and 32,
	Over rolling hills; through scattering pinon pine and cedar timber.
5.00	Enter wash, course N. 80° E. 50 lks. wide, 10 ft. deep.
13.50	Leave wash, course N. 30° W.
16.50	Right bank of wash, 40 ft. high, bears N. 50° E., and S. 50° W., course NE.
20.70	Bank of same wash bears E., and W., course of wash W.
	Ascend.
40.00	60 ft. above wash,
	Set an iron post 3 ft. long, 1 in. in dia., 10 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$-sec. cor. with brass cap marked
	S 31 | $\frac{1}{4}$ | S 32 ✓
	1916
	from which ✓
	A pinon pine, 8 ins. dia., bears N. 83° E. 71 lks. dist., marked $\frac{1}{4}$ S 32 B T ✓

Chains.	
	A pinon pine, 10 ins.dia., bears S.25° W. 37 lks. dist., marked ¼ S 31 B T ✓
47.50	Ridge, 128 ft.above wash, bears E.and W.
	Descend, 106 ft.to
55.40	Wash, course W.,15 lks.wide, 3 ft.deep.
	Ascend 215 ft.
69.90	Foot of bluff bearing S.50° W., and N.50° E.
71.75	Top of ridge, bearing N.60° E., and S.60° W.
	Descend 250 ft.
80.00	At edge of timber, bearing N.75°E. and S.75° W.
	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.29,30,31, and 32, with brass cap marked

T 30 S R 25 E
S 30 | S 29
S 31 | S 32
1916 ✓

from which

A pinon pine, 12 ins.dia., bears N.63° 12'E. 93 lks.dist., marked T 30 S R 25 E S 29 B T ✓

A pinon pine, 16 ins.dia., bears S.37° 45'E. 72 lks.dist., marked T 30 S R 25 E S 32 B T ✓

A pinon pine, 14 ins.dia., bears S.26° W. 98 lks. dist., marked T 30 S R 25 E S 31 B T ✓

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

Land,rolling hills.

Soil, rocky; 4th rate:

Timber, scattering cedar and pinon pine.

East, on a random line bet.secs.29 and 32,

40.00	Set temp.¼ sec.cor.
79.95	Intersect N.and S.line 9 lks.N.of the cor.of secs.28,29, 32, and 33. Thence

N.89° 56'W. ✓ on true line bet.secs.29 and 32,

Chains.	
	Ascending gradually; through cedar and pinon pine timber.
3.95	SE. Cor. No. 3 Island Point Lode claim, V.L. Lewis and A.M. Rodgers, locators, June 29, 1915, (Unsurveyed).
	Ascend gradually.
17.35	Ascend abruptly.
17.35	Ridge, bears N. and S.
39.97½	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 29 / S 32 ✓ 1916 from which A pinon pine, 6 ins. dia., bears N. 10° E. 14 lks. dist., marked ¼ S 29 B T ✓ A pinon pine, 8 ins. dia., bears S. 14° E. 22 lks. dist., marked ¼ S 32 B T ✓
52.45	Wash, 360 ft. below ridge, drains N., 50 lks. wide, 10 ft. deep
	Ascend, gradually.
68.95	Spur, 25 ft. above wash, projects N.
79.20	Leave timber bearing N. 25° E., and S. 25° W.; enter sagebrush and greasewood.
	Descend gradually.
79.95	The cor. of secs. 29, 30, 31, and 32.
	Land, mountainous, sandstone ledges.
	Soil, sandy loam, coarse and shallow, on sandstone subsoil.
	Undergrowth, greasewood and sagebrush.
	Timber cedar and pinon pine.

	West on a random line bet. secs. 30 and 31,
40.00	Set temp. ¼ sec. cor.
79.84	Intersect W. bdy. of Tp. at the cor. of secs. 25, 30, 31, and 36, heretofore described.
	Thence
	East ✓ on true line bet. secs. 30 and 31,

Chains.	
	Over broken, mountainous land; through dense greasewood; soil, sandy loam; ascending gradually.
1.00	Wash, 6 ft. deep, 20 lks. wide, drains S.
2.00	Same wash drains N.
10.50	Ascend over sandstone ledges; leave greasewood; enter cedar and pinon pine, bearing N. and S.
29.00	Sandstone spur, 137 ft. above wash projects S.25° W.
35.00	Ravine, 50 ft. below spur, course SW.
39.84	Set an iron post 3 ft. long, 1 in. in dia., in mound of stone for ¼ sec. cor., with brass cap marked ¼ S 30 / S 31 / 1916 ✓ from which A pinon pine, 8 ins. dia., bears N.15° W., 25 lks. dist., marked ¼ S 30 B T ✓ A pinon pine, 9 ins. dia., bears S.40° E., 35 lks. dist., marked ¼ S 31 B T ✓ Natural obstacles prevent setting post in the ground.
48.70	Ridge, 250 ft. above ravine, bears N.25° E., and S.25° W.
	Descend abruptly over sandstone ledges.
61.50	Base of ledges.
	Leave timber, bearing N.15° E., and S.15° W.
	Descend gradually, through scattering sagebrush and greasewood.
71.00	Swale, 260 ft. below ridge, drains S.25° W.
	Ascend gradually.
79.84	The cor. of secs. 29, 30, 31, and 32.
	Land, mountainous, sandstone ledges, broken; general SW. drainage.
	Soil, red, sandy loam, with sandstone outcroppings.
	Undergrowth greasewood and sagebrush.
	Timber, cedar and pinon pine.

N.0° 03'W. bet. secs. 29 and 30,

Chains.

Over gently rolling flat; through scant undergrowth.

30.00 Wash, 4 ft. deep, 20 lks. wide, course N.45° W., 17 ft. above sec. cor.

Ascend.

35.00 Enter timber, bearing NW. and SE.

40.00 17 ft. above wash,

Set an iron post 3 ft. long, 1 in. in dia., 8 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
S 30 | S 29 √
1916

from which

A pinon pine, 9 ins. dia., bears S.85° E. 81 lks. dist., marked $\frac{1}{4}$ S 29 B T √

A pinon pine, 14 ins. dia., bears N.81° W. 40 lks. dist., marked $\frac{1}{4}$ S 30 B T √

78.50 Ridge, 160 ft. above wash, bears S.20° W., and N.20° E.

Descend 20 ft.

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 10 ins. in the ground, with mound of stone around post, for cor. of secs. 19, 20, 29, and 30, with brass cap marked

T 30 S R 25 E
S 19 | S 20
S 30 | S 29 √
1916

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

Natural obstacles prevent setting posts required distance in the ground.

Land, rolling.

Soil, sandy, 2d rate on S.30.00 chs.; balance rocky, 4th rate.

Undergrowth, scattering sagebrush.

Timber cedar and pinon pine.

S.89° 56'E. on a random line bet. secs. 20 and 29.

Chains.	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect N. and S. line 16 lks. S. of the cor. of secs. 20, 21, 28, and 29. Thence
	S. 89° 57' W. on true line bet. secs. 20 and 29,
	Descending through dense pinon pine and cedar.
39.97	312 ft. below sec. cor.,
	Set an iron post 3 ft. long, 1 in. in dia., 10 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S 20 / S 29 1916 ✓
	from which
	A pinon pine, 10 ins. dia., bears N. 19° E. 20 lks. dist., marked $\frac{1}{4}$ S 20 B T ✓.
	A pinon pine, 6 ins. dia., bears S. 12° E. 13 lks. dist., marked $\frac{1}{4}$ S. 29 B T ✓
	Natural obstacles prevent setting post over 10 ins. in the ground.
46.50	Wash, 2 ft. deep, 15 lks. wide, course S.
	Ascend.
68.50	Wash, 3 ft. deep, 20 lks. wide, course S. 60° E.
77.70	Ridge, 258 ft. above first named wash, bears S. 20° W., and N. 20° E.
	Descend 41 ft. to
79.94	The cor. of secs. 19, 20, 29, and 30.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber dense pinon pine and cedar.

	West on a random line bet. secs. 19 and 30,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.55	Intersect W. bdy. of Tp. 1 lk. N. of the cor. of secs. 19, 24, 25, and 30, heretofore described. Thence
	East ✓ on true line bet. secs. 19 and 30,

Chains.

Ascending, through sagebrush.

14.55 Leave sagebrush, bearing N. and S.

Enter timber, bearing N. and S.

34.55 Rocky spur, 58 ft. above sec. cor., projects N. Descend.

37.55 Leave scattering timber, bearing N. and S.

39.55 46 ft. below spur,

Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$$\frac{1}{4}\ \frac{S\ 19}{S\ 30}\ \frac{}{1916}\ \checkmark$$

Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.

Thence over level land.

72.55 Leave level land; enter cedar timber, scattering, bearing N. and S. Descend to

79.55 The cor. of secs. 19, 20, 29, and 30.

Land, rolling and level.

Soil, sandy 2d rate; and rocky, 4th rate.

Undergrowth, sagebrush.

Timber, scattering cedars.

N. 0° 03' W. bet. secs. 19 and 20;

Descending; through cedar and pinon pine timber.

40.00 167 ft. below sec. cor.

Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$$S\ 19\ \Big|\ \frac{\frac{1}{4}}{1916}\ S\ 20\ \checkmark$$

from which

A pinon pine, 7 ins. dia., bears S. 57° 45' E. 96 lks. dist., marked $\frac{1}{4}$ S 20 B T ✓

A pinon pine, 9 ins. dia., bears N. 89° 15' W. 60 lks dist., marked $\frac{1}{4}$ S 19 B T ✓

44.50 Wash, course S. 40° W.

Chains.

80.00 255 ft. above ¼ sec. cor.

Set an iron post 3 ft. long, 2 ins. in dia., 12 ins. in the ground, with mound of stone around post, for cor. of secs. 17, 18, 19, and 20, with brass cap marked

T 30 S R 25 E
S 18 | S 17
S 19 | S 20
1916

from which

A pinon pine, 18 ins. in dia., bears N.39° E. 109 lks. dist., marked T 30 S R 25 E S 17 B T

A pinon pine, 10 ins. dia., bears S.77° 30'E. 180 lks. dist., marked T 30 S R 25 E S 20 B T

A pinon pine, 7 ins. dia., bears S.45° W. 254 lks. dist., marked T 30 S R 25 E S 19 B T

A pinon pine, 10 ins. dia., bears N.19° W., 92 lks. dist., marked T 30 S R 25 E S 18 B T

Natural obstacles prevent setting post over 12 ins. in the ground.

Land, rolling, mountainous; SW. drainage.

Soil, rocky, sandy; 3d rate.

Timber pinon pine and cedar.

N.89° 57'E. on a random line bet. secs. 17 and 20,

40.00 Set temp. ¼ sec. cor.

79.80 Intersect N. and S. line 12 lks. N. of the cor. of secs. 16, 17, 20, and 21. Thence

N.89° 58'W. on true line bet. secs. 17 and 20,

Ascending over SE. slope; through dense cedar and pinon pine timber.

8.50 Spur, 50 ft. above sec. cor., projects S.

Descend over SW. slope.

17.10 Wash, 41 ft. below spur, 2 ft. deep, 10 lks. wide, course S. Ascend.

39.90 40 ft. above wash,

Chains.

Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S 17 / S 20 1916

from which

A pinon pine, 14 ins. dia., bears N.46° E. 55 lks. dist., marked ¼ S 17 B T

A pinon pine, 8 ins. dia., bears S.23° W. 58 lks. dist., marked ¼ S 20 B T

41.50 Wash, 1 ft. deep, 12 lks. wide, 23 ft. above ¼ sec. cor. course S.30° W.

45.00 Descend over SW. slope.

79.50 391 ft. below point of descent, the cor. of secs. 17, 18, 19, and 20.

Land, rolling hills.

Soil, rocky; 4th rate; limestone and sandstone formation.

Timber, dense cedar and pinon pine.

West, on a random line bet. secs. 18 and 19,

40.00 Set temp. ¼ sec. cor.

79.47 Intersect W. bdy. of Tp. 9 lks. S. of the cor. of secs. 13, 18, 19, and 24, heretofore described. Thence

S.89° 56' E. on a true line bet. secs. 18 and 19,

Over level land, in Big Indian Valley.

21.47 Big Indian Wash, 10 ft. deep, 80 lks. wide, course S.20° W.

38.47 18 ft. above wash,

Set an iron post 3 ft. long, 1 in. in dia., 20 ins. in the ground, with mound of stone around post, for ¼ sec. cor. with brass cap marked

¼ S 18 / S 19 1916

from which

A pinon pine, 14 ins. dia., bears N.70° E. 148 lks.

Chains.	
	dist., marked $\frac{1}{4}$ S 18 B T ✓
	A pinon pine 18 ins. dia., bears S. 4° W., 51 lks. dist., marked $\frac{1}{4}$ S 19 B T ✓
	Natural obstacles prevent setting post over 20 ins. in the ground.
	Thence ascending over SW. slope, through cedar and pinon pine timber.
62.47	Spring about 2.50 chs. S. of line, drains S. 75° W.
79.47	The cor. of secs. 17, 18, 19, and 20, 329 ft. above wash.
	Land, level, and mountainous.
	Soil, sandy, 2d rate, on west 39.47 chs.; balance, rocky 4th rate.
	Undergrowth, scattering sagebrush.
	Timber, scattering cedar and pinon pine, on east 40.00 chs.
	N. 0° 03' W. bet. secs. 17, and 18.
	Ascending over rolling SW. slope; through cedar and pinon pine timber.
8.50	Gulch, course S. 50° W.
39.30	Gulch, course S. 30° W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec. cor. with brass cap marked
	S 18 | $\frac{1}{4}$ | S 17 ✓
	1916
	from which
	A pinon pine, 6 ins. dia., bears east 57 lks. dist. marked $\frac{1}{4}$ S 17 B T ✓
	A pinon pine, 6 ins. dia., bears S. 85° W. 28 lks. dist. marked $\frac{1}{4}$ S 18 B T ✓
	Natural obstacles prevent setting post over 18 ins. in the ground. Corner 420 ft. above sec. cor.
55.80	Ridge, 177 ft. above $\frac{1}{4}$ sec. cor., bears N. 30° W., and S. 30° E.

Chains.

Descend over NE. slope.

70.60 Gulch, 157 ft. below ridge, course W.

Ascend.

80.00 87 ft. above gulch,

Set an iron post 3 ft. long, 2 ins. in dia., 12 ins. in the ground, with mound of stone around post, for cor. of secs. 7, 8, 17, and 18, with brass cap marked

T 30 S R 25 E.
S 7 | S 8
S 18 | S 17
1916.

from which,

A pinon pine, 12 ins. dia., bears N. 35° E. 70 lks. dist., marked T 30 S R 25 E S 8 B T

A pinon pine, 8 ins. dia., bears S. 64° 30' E. 40 lks. dist., marked T 30 S R 25 E S 17 B T

A pinon pine, 10 ins. dia., bears S. 68° W. 20 lks. dist., marked T 30 S R 25 E S 18 B T

A pinon pine, 10 ins. dia., bears N. 48° 30' W. 45 lks. dist., marked T 30 S R. 25 E S 7 B T

Natural obstacles prevent setting post over 12 ins. in the ground.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar and pinon pine.

S. 89° 58' E. on a random line bet. secs. 8 and 17,

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.94 Intersect N. and S. line 14 lks. N. of the cor. of secs. 8, 9, 16, and 17. Thence

N. 89° 52' W. on true line bet. secs. 8 and 17,

Ascending; through cedar and pinon pine timber.

2.04 Brush fence bears N. 30° E., and S. 30° W.

12.14 Leave timber, bearing N. 40° W., and S. 40° E.

Enter sagebrush flat bearing N. and S.

Chains.	
32.14	Leave sagebrush flat bearing N.and S.; enter timber bearing NW., and SE.
39.97	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground for ¼ sec.cor., with brass cap marked ¼ S 8 / S 17 1916 ✓ from which A pinon pine, 6 ins.dia., bears N.15° W. 20 lks. dist., marked ¼ S 8 B T ✓ A pinon pine, 10 ins.dia., bears S.36° E.49 lks. dist., marked ¼ S 17 B T
58.69	Divide between Big Indian and Lisbon valleys,bears N.& S.
	Descend gradually over west slope of divide.
74.24	Wash, 8 ft.deep, 30 lks.wide, drains SW.
	Ascend gradually.
77.74	Spur,35 ft.above wash, projects S.25° W.
	Descend gradually,
79.94	The cor.of secs.7,8,17, and 18, 20 ft.below spur.
	Land, level, and broken,mountainous.
	Soil,sandy, 2d rate, and rocky, 4th rate.
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.
	N.89° 56'W.on a random line bet.secs.7 and 18,
40.00	Set temp.¼ sec.cor.
79.52	Intersect W.bdy.of Tp. 2 lks.S.of the cor.of secs.7,12, 13, and 18. Thence
	S.89° 55'E.on a true line bet.secs.7 and 18, ✓
	Over broken, mountainous country; ascending, over limestone formation; through cedar and pinon pine timber.
11.00	Ravine 50 ft.deep, drains S.60° W.; stream of water in bottom, 1 lk.wide, 2 ins.deep, flows S.60° W.
12.00	Wash, 8 ft.deep, 10 lks.wide; stream of water in bottom,

Chains.	
	1 lk. wide, 2 ins. deep, drains S.60° W.
39.52	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 7 / S 18 / 1916 ✓ from which A pinon pine, 7 ins. dia., bears N.4¤ E. 6 lks. dist., marked ¼ S 7 B T ✓ A pinon pine, 7 ins. dia., bears S.37° W. 25 lks. dist., marked ¼ S 18 B T ✓
45.50	Wash, 25 lks. wide, 4 ft. deep, drains SW.
62.00	Wash, 10 lks. wide, 7 ft. deep, drains S.50° W.
68.60	Ridge, 280 ft. above ¼ sec. cor., bears N.10° E., and S. 10° W. Descend gradually.
76.50	Wash, 25 lks. wide, 5 ft. deep, drains S., 100 ft. below ridge. Ascend gradually.
79.52	The cor. of secs. 7, 8, 17, and 18.
	Land, mountainous, SW. slope of limestone ridge.
	Soil, mostly bare limestone outcroppings.
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.

N.0° 03'W. bet. secs. 7 and 8,

Ascending; through cedar and pinon pine timber.

40.00	103 ft. above sec. cor.,
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 7 | ¼ S 8 ✓ / 1916
	from which,
	A pinon pine, 8 ins. dia., bears N.81° 30'E. 50 lks. dist., marked ¼ S 8 B T ✓
	A pinon pine, 6 ins. dia., bears N.13° 30'W. 34 lks.

Chains.	
	dist., marked $\frac{1}{4}$ S 7 B T
45.00	Top of ascent; Divide between Big Indian and Lisbon valleys, bearing NW. and SE. Descend.
58.80	Enter flat, 127 ft. below top of ascent.
	Leave timber, bearing E. and W. Enter scattering sagebrush.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, with brass cap marked

T 30 S R 25 E

S 6 | S 5

S 7 | S 8

1916

Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.

Land, mountainous and level.

Soil, rocky; 4th rate; and sandy 2d rate.

Undergrowth scattering sagebrush.

Timber, dense cedar and pinon pine on S. 58.80 chs.

S. 89° 52' E. on a random line bet. secs. 5 and 8,

40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.76	Intersect N. and S. line 21 lks. S. of the cor. of secs. 4, 5, 8 and 9. Thence

S. 89° 59' W. on true line bet. secs. 5 and 8,

Descending over broken sandstone ledges; through dense cedar and pinon pine timber.

5.96	Leave dense cedar and pinon pine, bearing N. 25° W. and S. 25° E.; enter scattering pinon pine and cedar and dense sagebrush. Foot of ledges.
16.76	Leave scattering pinon pine and cedar.
19.86	Lisbon Valley road, bears N. 20° W., and S. 20° E.
39.88	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S 5

S 8

1916

Chains.	
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.
	Descend, over gentle SW. slope.
42.76	Bottom of Lisbon Valley, drains S.25° E.
53.76	Trail bears NE., and SW.
	Ascend gradually over NE. slope.
79.76	The cor. of secs. 5, 6, 7, and 8, 25 ft. above Lisbon Valley.
	Land, mostly rolling bottom of Lisbon Valley, draining SE.; east 5.96 chs. rocky ledges.
	Soil, on E. 5.96 chs. rocky, stony, sandstone outcroppings; balance rich, sandy, clay loam; loose texture, 2 ft. or more deep.
	Undergrowth, sage.
	Pinon pine and cedars on east 5.96 chs.
	N.89° 55' W. on random line bet. secs. 6 and 7,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.56	Intersect W. bdy. of Tp. 16 lks. N. of the cor. of secs. 1, 6, 7 and 12, heretofore described. Thence
	N.89° 58' E. on true line bet. secs. 6 and 7,
	Over broken, mountainous country; ascending abruptly out of gulch; through cedar and pinon pine; over broken limestone ledges.
12.50	Ridge, 300 ft. above sec. cor., bears N.25° W., and S.25° E.
	Descend gradually over NE. slope.
17.00	Wash, 200 ft. below ridge, drains N.35° W.
	Ascend gradually.
36.00	Divide ridge between Big Indian and Lisbon valleys, bears N. and S., 190 ft. above wash.
	Descend.
39.56	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S 6 / S 7 1916
	from which

Chains.	
	A pinon pine, 7 ins. dia., bears N.56° 36'W. 28 lks. dist., marked $\frac{1}{4}$ S 6 B T
	A pinon pine, 6 ins. diam., bears S.35° E. 15 lks. dist., marked $\frac{1}{4}$ S 7 B T
	Continue descent.
58.50	Foot of descent, 210 ft. below $\frac{1}{4}$ sec. cor., bears N.20°W. and S.20° E.; leave timber, bearing same; enter rolling sagebrush flat in Lisbon Valley.
79.56	The cor. of secs. 5, 6, 7, and 8.
	Land, mountainous E. and W. slopes of ridge 59.56 chs.; rolling valley bottom 20.00 chs.
	Soil, on slopes rocky, stony, 4th rate; in bottom of valley medium red sandy clay loam, 2 ft. or more in depth; 1st rate.
	Undergrowth, sagebrush.
	Timber cedar and pinon pine.
	N.0° 03'W. on a random line bet. secs. 5 and 6,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
170.10	Intersect N. bdy. of Tp. 20 S. lks. E. of the cor. of secs. 5 and 6, heretofore described. Thence
	S.0° 07'E. on true line bet. secs. 5 and 6
	Ascending gradually; through heavy timber.
26.10	Spur, projects N.60° E.
	Descend gradually.
32.10	Gulch, 30 ft. below spur, drains NE.
	Ascend gradually.
73.10	Top of ridge, Divide between Coyote and Lisbon valleys, 260 ft. above Lisbon Valley, bears NW. and SE.
[illegible]	Descend abruptly over broken sandstone ledges bearing NW. and SE.
81.10	Foot of abrupt descent, bearing NW. and SE.
110.10	Enter Lisbon Valley; leave heavy timber, bearing NW. and SE. Enter sagebrush.

Chains.	
118.40	Lisbon Valley road, bears NW., and SE. Desc. gradually.
126.60	Bottom of Lisbon Valley, drains SE. Ascend.
130.10	On NE. slope,

Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 6 | S 5

1916

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.

Ascend gradually.

170.10	The cor. of secs. 5, 6, 7, and 8.

Land, mountainous, broken, and valley.

Soil, sandy loam and gravelly loam.

General N. slope, from divide.

Undergrowth, scattering sagebrush and service-berry.

Good grazing.

Timber, heavy pinon pine and cedar.

BOUNDARIES T. 30 S., R. 25 E.

Latitudes, Departures, and Closing Errors.

Lines Designated	True Bearing	Dist.	Latitudes, Departures.			
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
6th St. Par. S.	East	480.00	.....	.....	480.00	.....
East Boundary	North	569.59	569.59	.....	.....	.....
North Boundary	West	478.94	.....	.....	.....	478.94
West Boundary	South	570.30	.....	570.30	.....	.....
Convergency						.67
Totals			569.59	570.30	480.00	479.61
Errors in lat. and dep.				569.59	479.61	
				.71	.39	

GENERAL DESCRIPTION T:30 S.R.25 E.

The land embraced in this township, with the exception of that included in Lisbon and Indian valleys, is generally rugged and broken sandstone ledges and steep slopes. Lisbon Valley cuts diagonally through the township, with general SE. drainage, except for a small portion in the NW. corner, which drains NW. It varies from one-half to one mile in width, and nearly all cultivable, the soil being a red, sandy, clay loam, two ft. or more in depth, underlaid at a depth of five or six feet with hard-pan. A small portion of Big Indian Valley lies at the west central part of the township. The soil is a reddish, sandy clay loam, and cultivable by dry-farming. The ridge between these two valleys is of a limestone formation, the remainder of the township being sandstone, except for quartzite outcrops in secs. 5 and 6. The soil on the ridges and steep slopes is generally rocky, shallow, and poor, except for some sagebrush flats in secs. 1, 2, and 3.

A heavy growth of cedars and pinon pine generally covers all steep slopes; also scattering sagebrush. Scattering yellow pine is found on the ridge on NE. side of Lisbon Valley.

Coyote Wash cuts through the NE. corner of the township, and runs a small stream of water, which may disappear in dry seasons.

Lisbon Canyon, in sec. 24, drains most of Lisbon Valley. A good spring is located in the west half, and a small seep spring runs in east half of section, on E. side of canyon.

Good springs of clear water occur in NW. cor. of sec. 18 and NE. corner of sec. 19, occurring in the small gulches, in limestone formation. The largest spring, called "Bull Horn", is located in NW. corner of sec. 14, and runs a considerable amount of clear water.

A passable road traverses the township diagonally

leading from Big Indian Valley and the state road to Dolores, Colorado, following Lisbon Valley. The state road, from Moab to Monticello, enters the western part of the township in sec.18.

C.Bankhead claims the cabin and improvements on the spring in NE.cor.of sec.22, value $150.00.

G. O. Patterson was located in Sept.1915 in cabin and improvements in the SW.corner of sec.36, value $500.00.

Wm. Hinckley, now deceased, had cabin and fences in NW.corner of sec.35 and SW¼ of sec.26, and SE.cor.of sec.27, value $500.00.

A cabin, formerly occupied by Ben Lackaye, is in NW¼ of sec.18, unoccupied.

A trail road to uranium mines traverses the SW¼ of sec.31.

An old,deserted cabin and water troughs are located in the west central part of sec.24.

G.O.Patterson was occupying G. O. Patterson's cabin in SW¼ of sec.36. No other settlers are living in the township.

Copper mines, consisting of stripping and a tunnel have been worked in N.½ of sec.18. The copper occurs in a calc spar shot through the limestone formation. Samples appeared quite rich in the azurite and malachite; and silver bromide is reported to accompany the copper. In the hills around secs. 25, 35, and 36 numerous small tunnels and shafts have been driven, the most extensive improvement being in SW.cor.of sec.25, consisting of a shaft, about 100 ft.deep, and an incline hoist. Copper indications occur in nearly all the hills in this locality, mostly stain. The carnotite, or radium bearing strata, should exist at the base of the north rim of Three Step Hill, in secs.33 and 34.

Several drift fences, owners unknown, have been

built at various locations as shown on the map. A cattle corral is located in NE.portion of sec.2.

Big Indian rock, although lying outside of the township, in sec.24 of unsurveyed T.30 S., R.24 E. appeared important enough to which to tie. It is a large sandstone rock, the top being from 150 to 200 ft.above valley, resembling, from the SW.view point, a huge blanketed indian. It is a well known and prominent feature on the state road; and I am told oil claims in Dry Valley have been tied to it.

Lisbon Valley offers a splendid opportunity for dry-farming.

Blank

Page

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

.....

.....

.....

.....

.....

.....

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

CERTIFICATE TRANSITMAN.

FINAL ~~OATH~~ OF UNITED STATES ~~SURVEYOR.~~

I, Howard G. Mason, Transitman, U. S. Surveyor, do certify on honor ~~solemnly swear~~ that, in pursuan of special instructions received from the U. S. Surveyor General for Utah bearing date of the 3d day of February, 191 6, I have well, faithfully, and trul in my own proper person, and in strict conformity with said instructions, the Manual of Surveyi Instructions, and the laws of the United States, surveyed all those parts or portions of the Sixt Standard Parallel South, through Range No. 25 East; east boundary and subdivision of Township No. 30 South, Range No. 25 East; retracement of east boundary; and retracement and resurvey of south boundar of Township No. 29 South, Range No. 25 East

of the Salt Lake Base and Meridian, in the State of Utah, which are represented i and index diagram on page 3 of same | and on dates shown on said diag the foregoing field notes as having been executed by me, and under my direction, and I do furth certify on honor solemnly swear that all the corners of said survey have been established and perpetuated in strict accor ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyo General for Utah and in the specific manner described in the field notes, and tha the foregoing are the original field notes of such survey.

Howard G Mason

~~U. S. Surveyor.~~
U.S.Transitman.

~~Subscribed by said~~ ....., ~~and sworn to before me~~ this ..... ~~day of~~ May 1st, 1917

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 191

The foregoing field notes of the survey of .....

executed by .....

under his special instructions dated .....; 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

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. Surveyor General.

6—2761

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities tated opposite our several signatures, in surveying all those parts or portions of .....

.....

.....

.....

.....

.....

.....

f the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

CERTIFICATE

FINAL ~~OATH~~ OF UNITED STATES SURVEYOR.

I, Thomas C. Rathbone, U. S. Surveyor, do ~~solemnly swear~~ certify on honor that, in pursua of special instructions received from the U. S. Surveyor General for Utah bearing date of the 3d day of February, 191 6 I have well, faithfully, and tru in my own proper person, and in strict conformity with said instructions, the Manual of Surveyi Instructions, and the laws of the United States, surveyed all those parts or portions of the east and west boundaries and subdivision of Township No. 30 South, Range No. 25 East; and resurvey of south boundary Township No. 29 South, Range No. 25 East, and of the south boundary of section 36 Township No. 29 South, Range No. 24 East

of the Salt Lake Base and Meridian, in the State of Utah, which are represented and index diagram on page 3 of same | and on dates shown on said diag the foregoing field notes as having been executed by me, and under my direction, and I do furth certify on honor ~~solemnly swear~~ that all the corners of said survey have been established and perpetuated in strict accor ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Survey General for Utah and in the specific manner described in the field notes, and th the foregoing are the original field notes of such survey.

Thos C Rathbone
April 18, 1917. U. S. Surveyor.

~~Subscribed by said~~, ~~and sworn to before me~~
~~this~~ ~~day of~~, ~~191~~

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 8, 191 7

The foregoing field notes of the survey of Sixth Standard Parallel South, through Range No. 25 East; west and east boundaries and subdivision o Township No. 30 South, Range No. 25 East; resurvey of south boundary, retracement of part of east boundary Township No. 29 South, Range No. 25 East; and resurvey of part of south boundary of section 36, Township No. 29 South, Range No. 24 East of the Salt Lake Base and Meridian, Utah,

executed by Thomas C. Rathbone and Howard G. Mason
their
under ~~his~~ special instructions dated February 3, 1916, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and th surveys they describe, are ~~retracements, resurveys, and~~ hereby approved.

M O Thoresen
U. S. Surveyor General.

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. Surveyor General.

Blank

Page

Blank

Page

4—679

B.

U.S.M.

FIELD NOTES

OF THE SURVEY OF THE

SIXTH STANDARD PARALLEL SOUTH THROUGH RANGE NO. 26 EAST,

RETRACEMENT OF UTAH-COLORADO BOUNDARY FROM 77 TO 85 MILE CORNER,

SURVEY OF THE SOUTH BOUNDARY OF TOWNSHIP NO. 29 SOUTH, RANGE NO. 26 EAST

AND

SUBDIVISION OF TOWNSHIP NO. 30 SOUTH, RANGE NO. 26 EAST,

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

THOMAS C. RATHBONE AND HOWARD G. MASON

In the capacity of and U.S. Transitman *U. S. Surveyor, under instructions dated* February 3, *191*6, *issued by the United States Surveyor General to govern surveys included in Group No.* 53, *which were approved by the Commissioner of the General Land Office,* February 17, *1916*; and under assignment instructions issued by the Assistant Supervisor of Surveys for the District of Utah, July 1, 1916.

Survey commenced August 1, *1916*

Survey completed September 9, *1916.*

6—151

Barnum B. Packard,	Head Chainman.
Lynn Phelps,	Rear Chainman.
UlreyDorman,	Head Chainman.
Eugene Stowell,	Rear Chainman.
La Mar Johnson,	Flagman.
Warren Clark,	Flagman.
Richard Heldberg,	Moundman.
Homer Johnson,	Moundman.
Byron F. Crookston,	Axeman.
Oral Hall,	Axeman.

Examinations Classified

A Plat C.B.H. Notes C.B.H.

B Computations C.B.H.

Comparing:

C Plat V.I.F. Notes H.F.B.

INDEX DIAGRAM.

Township 30 South, Range 26 East.

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

Lines in above diagram, along which dates are typed black, were surveyed by Thomas C.Rathbone, U.S.Surveyor; lines along which dates are typed red were surveyed by Howard G.Mason, U.S.Transitman.

T29S. R25E

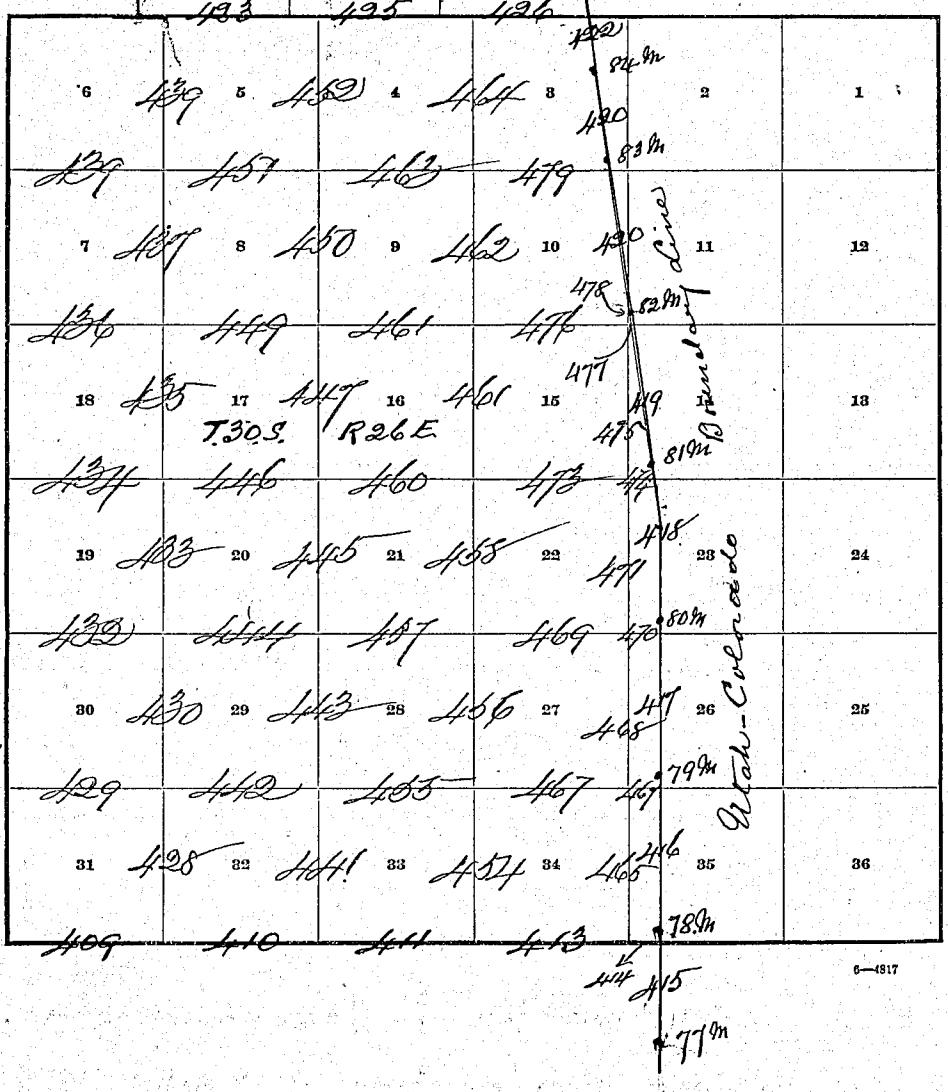
T29S. R26E

4—679 b

INDEX DIAGRAM.

Township ____, Range ____

Sec 36 | Sec 31 | Sec 32 | Sec 33



4—679 b

INDEX DIAGRAM.

Township 30 South, *Range* 26 East

	21		23		24						
6	37	5	50	4	62	3		2		1	
37		40		61		77					
7	35	8	48	9	60	10	76	11		12	
34		47		59		74		75			
18	33	17	45	16	59	15	73	14		13	
32		44		58		71		72			
19	31	20	43	21	56	22	69	23		24	
30		42		55		67		68			
30	28	29	41	28	54	27	66	26		25	
27		40		53		65		65			
31	26	32	39	33	52	34	64	35		36	
7		8		9		11		12			

6—1817

Utah-Colorado Boundary pagee 13 to 21 inclusive.

Blank

Page

Survey commenced August 1, 1916, and executed with Young & Sons transits Nos.7192 and 3487, each equipped with Smith solar attachment. The horizontal limbs of both transits are provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

Five-chain steel tapes and clinometers were used in measuring all distances. The tapes were frequently tested with a standard one-chain steel tape kept for this purpose only.

The instruments were approved for use on this survey by the assistant supervisor of surveys for the District of Utah, conditional upon satisfactory field tests.

A coefficient of 0.80 was applied to all refractions in declinations, corresponding to the correction for about 6500 ft. elevation, the mean for the township.

August 1, 1916: I examine the adjustments of transit No. 7192, correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At my camp, which is situated in the SW¼ SW¼ sec. 36, T. 30 S., R. 25 E., in approximate lat. 33° 10' N., and longitude 109° 10' W., I set off 38° 10' on the lat. arc; 17° 55' N. on the decl. arc; and at 4h 0m p.m. apparent time, determine with the solar a meridian, and mark a point thereof by a tally pin driven in the ground about 20.00 chs. N. of my station.

At 10h 52m p.m. l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined by a stake set in the ground, about 20.00 chs. N. of my station.

August 2: At 7h 0m a.m. I lay off the azimuth of Polaris 1° 27' to the left, which practically falls on the tally pin set Aug. 1. I set tally pin precisely in the Polaris meridian.

At 8h 0m a.m. apparent time I set off 38° 10' on the lat. arc; 17° 45'N. on the decl. arc, the meridian determined with the solar practically agrees with the meridian determined by the Polaris observation.

At apparent noon I set off 17° 42½'N. on the decl. arc; and observe the sun on the meridian; the resulting lat. is 38° 10'N.

The magnetic bearing of the true meridian at 7h 30m a.m. is N. 15° 55'W.; the angle thus determined gives the mag. decl. 15° 55'E.

I therefore conclude that the adjustments of the instrument are satisfactory.

Frequent meridian tests and noon latitude observations demonstrated that the instrument continued in good adjustment throughout the survey.

At the same station, and with the same latitude and declination settings, Young & Sons transit No. 8487 was tested, the solar indications practically coinciding with the meridian determined by Polaris observation. Daily latitude tests at noon and meridian determinations showed that the instrument continued in good adjustment throughout the survey.

Chains. From the standard cor. of T.30 S., Rs.25 and 26 E., heretofore described,

East on true line on S.bdy.sec.31,

Ascending gradually over rolling bottom of Lisbon Valley, draining SW.; through sagebrush.

4.10 Road to Huntley Spring, from Lisbon Valley road, bears NE. and SW.

15.00 Enter scattering cedar and pinon pine, bearing NW. and SE.

25.60 Wire drift fence bears N.20° W., and S.20° E.

30.00 Leave scattering timber bearing NW. and SE.; continue through sagebrush; soil rocky.

34.00 Spur, 50 ft.above sec.cor.; projects S.30° E.5.00 chs.

Descend gradually.

Difference between measurements of 40.00 chs.by two sets of chainmen is 2 lks.; position of middle point

By 1st set 39.99 chs.

By 2d set 40.01 chs.; the mean of which is

40.00 Set an iron post 3 ft.long, 1 in. in dia., 26 ins.in the ground, for standard $\frac{1}{4}$ sec.cor., with brass cap mkd.

S C
$\frac{1}{4}$
S 31
1916

Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.

47.30 Road, La Sal and Moab, Utah, to Dolores, Colorado, bears N.and S.

No difference between measurements of 80.00 chs.by two sets of chainmen.

80.00 40 ft.below spur,

Set an iron post 3 ft.long, 2 ins.in dia., for standard cor.of secs.31 and 32, with brass cap marked

S | C
T 30 S | R 26 E
S 31 | S 32
1916

Dig pits 24 x 18 x 12 ins.E.and W.of post 3 ft., and N. of post 7 ft.dist.

Land, rolling valley bottom, with general drainage east.

Chains.	
	Soil, red, sandy, clay loam, a little rocky, 2 ft. deep, on clay and rock subsoil.
	Undergrowth, sagebrush.
	Timber, scattering cedar and pinon pine.
	East on the S.bdy. of sec. 32,
	Over rolling bottom of Lisbon Valley, which drains SE. descending very gradually through sagebrush; soil sandy loam.
7.80	Leave sagebrush; enter white grass, bearing NW. and SE.
12.50	Wash; 12 lks. wide, 3 ft. deep, drains S. 40° E., 90 ft. below sec. cor.
	Ascend.
	No difference between measurements of 40.00 chs. by two sets of chainmen.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap mkd.
	S C. $\frac{1}{4}$ S 32 1916
	Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.
	Corner is 20 ft. above wash.
	Descend.
42.00	Wash, 5 lks. wide, 3 ft. deep, course S.
52.60	Wash, 70 lks. wide, 6 ft. deep, course S. 65° W.
60.00	Ascend abruptly over broken sandstone ledges bearing NW. and SE.
	Enter cedar and pinon pine timber, bearing NW. and SE.
62.50	Top of abrupt ascent, 25 ft. above foot, bears NW. and SE.
	Thence ascend gradually over bench land.
72.00	Leave timber bearing N. and S.; enter sagebrush opening on bench land.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point

Chains.	
	By 1st set 79.98 chs.
	By 2d set 80.02 chs.; the mean of which is
80.00	20 ft. above ledges,
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 32 and 33, with brass cap marked
	S | C T 30 S | R 26 E S 32 | S 33 1916
	Dig pits 24 x 18 x 12 ins. E. and W. of post 3 ft., and N. of post 7 ft. dist.
	Land, rolling valley bottom, ledges and bench land, general drainage S.
	Soil, in valley, light, red, sandy loam, 2 or more ft. deep; remainder stony and rocky.
	Undergrowth, sage and white grass.
	Timber, cedar and pinon pine.
	East on S. bdy. sec. 33,
	Ascending gradually over bench land; through sage undergrowth.
9.00	Leave sage; enter cedar and pinon pine timber, bearing N. and S.
11.50	Leave bench, bearing NW. and SE.; ascend abruptly over sandstone ledges, bearing NW. and SE.
19.00	Gulch, 70 lks. wide, 50 ft. deep, course S. 10° E.
	Ascend abruptly over rim rock ledges, to top of Island Mesa.
39.40	Top of rim of mesa bearing NW. and SE., 400 ft. above sec. cor. Ascend gradually.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point
	By 1st set 40.02 chs.
	By 2d set 39.98 chs.; the mean of which is

Chains.

40.00 Set an iron post 3 ft. long, 1 in. in dia., on ledge rock, in mound of stone, 4 ft. base, 26 ins. high, for standard $\frac{1}{4}$ sec. cor., with brass cap marked

S C
$\frac{1}{4}$
S 33
1916

from which

A cedar, 10 ins. dia., bears N.22° E. 43 lks. dist., marked S C $\frac{1}{4}$ S 33 B T

Natural obstacles prevent setting post in the ground.

49.50 Spur, 25 ft. above $\frac{1}{4}$ sec. cor., projects N.20° E.

Descend gradually.

64.00 Wash, 90 ft. below spur, drains N.20° E.

Ascend gradually.

72.80 Spur, 20 ft. above wash, projects N.20° E.

Descend gradually.

Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks.; position of middle point

By 1st set 80.04 chs.

By 2d set 79.96 chs.; the mean of which is

80.00 On E. slope, 40 ft. below spur, on sandstone ledge,

Set an iron post 3 ft. long, 3 ins. in dia., 28 ins. in mound of stone 5 ft. base, for standard cor. of secs. 33 and 34, with brass cap marked

S | C
T 30 S | R 26 E
S 33 | S 34
1916

from which

A pinon pine, 18 ins. dia., bears N.30° E. 72 lks. dist., marked S C T 30 S R 26 E S 34 B T

A pinon pine, 8 ins. dia., bears N.42° W. 86 lks. dist., marked S C T 30 S R 26 E S 33 B T

Land, very rough, mountainous, over SW. rim of Island Mesa.

Soil, very rocky, stony, loose sandstone; 4th rate.

Undergrowth, sagebrush.

SIXTH STANDARD PARALLEL SOUTH THROUGH RANGE 26 EAST.

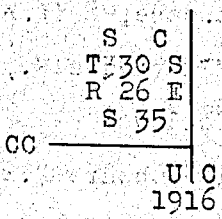
Chains.	Timber, cedar and pinon pine.
	East , on S.bdy. sec.34,
	Descending gradually, over rough, broken mountainous land, over Island Mesa; through cedar and pinon pine timber and scattering sagebrush.
1.00	Gulch, 20 ft.below sec.cor., course N.
	Ascend gradually.
	No difference between measurements of 40.00 chs.by two sets of chainmen.
40.00	50 ft.above gulch,
	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, to bed rock, with mound of stone 4 ft.base, 14 ins.high around post, for standard $\frac{1}{4}$ sec.cor., with brass cap marked S C $\frac{1}{4}$ S 34 1916
	from which,
	A pinon pine, 6 ins.dia., bears N.14° W. 14 lks. dist., marked S C $\frac{1}{4}$ S 34 B T
	Ascend.
45.00	Spur, 10 ft.above $\frac{1}{4}$ sec.cor., projects N.
	Timber becomes scattering; sagebrush heavier;bears N.and S.
58.00	Enter dense timber, bearing N.and S.
63.00	Wash, 1.00 ch.wide, 30 ft.deep, drains N.
	Ascend gradually.
69.00	Spur, 20 ft.abovecedge of wash, projects N.
	Descend.
75.00	Leave timber; enter scattering sagebrush bearing N.20° E. and S.20° W. in swale draining NW.
	Difference between measurements of 80.00 chs.by two sets of chainmen.is 16 lks.; position of middle point
	By 1st set 80.08 chs.
	By 2d set 79.92 chs.; the mean of which is

SIXTH STANDARD PARALLEL SOUTH THROUGH RANGE 26 EAST.

Chains.	
80.00	80 ft. below spur, Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 34 and 35, with brass cap marked S C T 30 S R 26 E S 34 S 35 1916 from which A pinon pine, 14 ins. dia., bears N. 9° 30' E. 528 lks dist., marked S C T 30 S R 26 E S 35 B T A pinon pine, 10 ins. dia., bears N. 2° 15' W. 458 lks. dist., marked S C T 30 S R 26 E S 34 B T Land, rough, mountainous NE. slope of Island Mesa west 75.00 chs.; east 5.00 chs. in swale, draining NW. Soil, rocky, stony, 4th rate, on west 75.00 chs.; sandy, clay loam, 1st rate, on east 5.00 chs. Undergrowth, sagebrush. Timber, cedar and pinon pine.
	East on S. bdy. sec. 35, Descending gradually over rolling land, over Island Mesa; through scattering sage undergrowth.
13.00	Bottom of swale, 25 ft. below sec. cor., drains NW. Ascend gradually. No difference between measurement of 15.00 chs. by two sets of chainmen.
15.00	Set temp. point for closing cor. of sec. 35 and 36. Note: The closing corner was afterward made permanent at 14.95 chs. 6.08 chs. S. 0° 02' E. of the 78 mile corner on the Utah-Colorado boundary line, described in the retracement of said boundary, where I Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for closing standard cor. of sec. 35, with

Chains.

brass cap marked



Dig pits 30 x 24 x 12 ins. W. of post 8 ft., and N. of post 4 ft. dist.

Land, rolling.

Soil, red sand, clay.

No timber. Undergrowth, scattering sagebrush.

RETRACEMENT UTAH-COLORADO BOUNDARY, THROUGH T. 30 S., R. 26 E.

Beginning at corner on Utah-Colorado boundary, which is a quartzite stone 8 x 10 x 24 ins. above ground, in mound of stone, marked U 78 on W., C on E., and 1885 on N. face, which I witness as follows:

A pinon pine, 10 ins. dia., bears S. 57° 30' E. 138 lks. dist., marked C 78 M B T

A cedar, 14 ins. dia., bears S. 78° W. 31 lks. dist. marked U 78 M B T

Corner located on N. side of swale.

S. 0°04½' E. on retracement line,

Descending gradually into swale.

2.60 Bottom of swale, 10 ft. below mile corner, drains NW.

Ascend gradually.

3.00 Trail bears NW. and SE.

13.50 Enter cedar and pinon pine timber, bearing E. and W.

30.92 A pinon pine tree, dead, and fallen, marked 78 M UT on one side and COL on opposite side; marked by surveyor Reeves in 1878.

44.00 Spur, 120 ft. above swale, projects E. Descend gradually.

73.75 Fall 14 lks. E. of a cedar post, 3 ins. dia., 3 ft. long, lying on the ground, original point where post was set

Chains.	
	apparent, marks on post plainly discernible. I reset post in mound of stone 4 ft. base, 2 ft. high, with marks 85 W C to the N., U 77M to the W., C to the E. and take bearing trees as follows:
	A pinon pine, 7 ins. dia., bears N.27° 25'E. 52 lks. dist., marked W C 77 M C B T
	A pinon pine, 12 ins. dia., bears S.68° 15'W. 46 lks. dist., marked W C 77 M U B T
	The course of this line is therefore S.0° 02'W., and the distance 73.75 chs.
	Land, rolling mesa top; east drainage.
	Soil, red, sandy, and rocky loam, shallow; on sandstone base.
	Timber, cedar and pinon pine. Undergrowth sagebrush.
	I return to the 78 mile corner on the boundary; thence N.0° 41/2'W. on retracement between Utah and Colorado,
	Over broken country; through pinon pine and cedars, and undergrowth of sagebrush.
2.00	Spur, 10 ft. above mile corner, projects W. Descend gradual
6.00	Leave timber; enter sagebrush opening bearing NE. and SW.
13.00	Enter timber, bearing NE. and SW.
38.00	Leave timber; enter sagebrush opening bearing NE. and SW.
43.50	Swale, 50 ft. below spur, drains NE. Ascend gradually.
43.60	Trail, bears N.20° E., and S.20° W.
47.00	Wash, 6 ft. deep, 20 lks. wide, drains NE. Ascend gradually.
49.80	Old corner on line.
62.00	Enter timber, bearing E. and W.
66.30	Spur, 40 ft. above wash, projects E. Descend gradually.
78.30	Wash, 20 ft. below spur, drains E. Ascend gradually.
79.80	Spur, 20 ft. above wash, projects E. Descend gradually.
80.75	Fall 25 lks. W. of old 79 mile cor. on the boundary, which is a sandstone 5 x 12 x 15 ins. above ground, marked as described by the surveyor-general.

Chains.	
	I raise a mound of stone around corner, and mark bearing trees as follows:
	A pinon pine, 6 ins. dia., bearing N.76° E.41 lks. dist., marked C 79 M B T
	A pinon pine, 7 ins. dia., bearing N.87° W. 32 lks. dist., marked U 79 M B T
	The course of this mile is therefore N.0° 06'E., and length 80.75 chs.
	Land, rolling mesa.
	Soil, sandy loam.
	Undergrowth, sage. Good grazing.
	Timber, cedar and pinon pine.
	From the old 79 mile corner,
	N.0° 4½'W. between Utah and Colorado,
	Over broken land on Island Mesa; through pinon pine and cedar timber and sagebrush undergrowth; soil sandy loam; sandstone formation.
49.50	Top of broken sandstone ledges, bearing NW. and SE.
	Descend abruptly from Island Mesa.
58.30	Leave timber; enter canyon bottom bearing NW. and SE.
65.00	Bottom of canyon, 240 ft. below mile cor., drains N.60° W.
69.00	Leave canyon bottom; enter timber; ascend abruptly over broken sandstone ledges, bearing NW. and SE.
78.86	Fall 27 lks. W. of the old 80 mile cor. on the boundary which is a sandstone 17 x 7 x 6 ins. above ground, mkd. U 80 M on W., C on E. face; markings very dim. I raise a mound of stone around cor., and mark bearing trees as follows:
	A pinon pine, 7 ins. dia., bears S.64° E. 50 lks. dist., marked C 80 M B T
	A pinon pine, 7 ins. dia., bears S.20° W. 64 lks. dist., marked U 80 M B T
	Land, broken, sandstone formation.
	Soil, sandy loam.

Chains.	Undergrowth, scattering sage. Good grazing.
	Timber, cedar and pinon pine.
	The course of this mile is N.0° 08'E., and length 78.86 chs.
	From 80 mile cor.,
	N.0° 04½'W.between Utah and Colorado;
	Ascending abruptly over broken land, sandstone formation, through cedar and pinon pine timber.
2.80	South edge of level mesa, 60 ft. above mile cor., bears N. 50° W., and S.50° E.
11.60	Descend abruptly from mesa, over broken sandstone ledges bearing E.and W.
24.20	Ravine, 240 ft.below mesa, drains W.
	Ascend abruptly over broken sandstone ledges.
30.00	Top of ledges, bearing E.and W.
34.31	Top of mesa, bearing E.and W.
43.00	Set temp. stake. Thence N. 7°10'W.on retracement,
50.02	Fall 6 lks.E.of old mile corner (first survey), which is a sandstone 16 x 8 x 24 ins.well set in mound of stone, marked 81 M U, on W., C on E.face.
55.80	Descend abruptly from mesa bearing NW. and SE.
64.00	Bottom of ravine, 150 ft.below mesa, drains N.70° W.
	Ascend abruptly.
68.70	Spur, 60 ft.above ravine, projects W. Descend abruptly.
71.70	Canyon, 60 ft.below spur, drains W. Ascend abruptly.
76.40	Top of abrupt ascent; thence ascend gradually.
79.96	Fall 5 lks.E.of old 81 mile cor, which is a sandstone 3 x 12 x 18 ins. set in a mound of stone, marked 81 M on W., C on E.face. I rebuild mound of stone around base, and mark bearing trees as follows:
	A pinon pine, 10 ins.dia., bears N.69°E.40 lks. dist., marked C 81 M B T
	A pinon pine, 8 ins.dia., bears S.77° W. 29 lks. dist., marked U 81 M B T

Chains.	
	The course of the south portion of this line is therefore N.0° 7'W., and length 42.98 chs.; and the north portion N.7° 12'W. 36.98 chs.
	Land, rough, mountainous, broken by deep canyons and high points of mesas projecting west.
	Soil, generally rocky and stony, sandy soil, shallow.
	Timber, cedar and pinon pine. Undergrowth sagebrush.
	N.7° 10'W. on boundary between Utah and Colorado,
	Ascending gradually, over broken mesa, formation sandstone; through cedar and pinon pine timber.
8.50	Spur, 20 ft. above mile cor., projects W. Descend gradually.
19.42	Offset 5 lks. W. to old signal.
19.60	Edge of Island Mesa, bearing NE. and SW. Impossible to chain. Set flag on old signal point (at 19.42 chs.); then set flag on line N.7° 10'W. at foot of ledges. To determine distance I proceed to flag at foot of ledges, and lay off a base of 10.00 chs. S.82° 50'W. to a point, from which flag at signal bears S.54° 10'E.; from flag W. end of base bears N.54° 10'W.; therefore, distance is tan. 43° 00' x base, or 0.933 x 10.00, equals 9.33, which added to 19.42 equals
28.75	Foot of ledges, 145 ft. below rim of mesa, bears NE. and SW. Descend gradually.
80.60	Fall 47 lks. W. of old corner, which is a sandstone 18 x 8 x 8 ins. set in a mound of stones, marked $\frac{U}{82\ M}$ on W., C on E. face, 1885 on N. face. I rebuild mound around stone, and mark bearing trees as follows:
	A pinon pine, 8 ins. dia., bears S.20°E. 14 lks. dist., marked C 82 M B T
	A pinon pine, 7 ins. dia., bears S.5° W. 8 lks. dist., marked U 82 M B T
	The course of this line is therefore N.6° 52'W., and the length 80.60 chs.
	Land, very broken, formation sandstone and quartzite.

S.82°50'W. 10.00 93.

Chains.	
	Soil, rocky.
	Timber, cedar and pinon pine. Good grazing.
	N.7° 10'W.on the boundary between Utah and Colorado,
	Descend gradually over very broken land, sandstone formation; through cedar and pinon pine timber.
13.50	Ravine,160 ft.below mile cor.,drains W. Ascend.
15.50	Spur, 50 ft.above ravine, projects W.Descend gradually.
32.00	Ravine,50 ft.below spur, drains W. Ascend.
35.70	Spur, 50 ft.above ravine,projects W.Descend gradually.
79.00	Begin abrupt descent over N.slope of spur.
79.44	On N.slope 100 ft.below top of spur,
	Fall 5 lks.W.of the old corner, which is a sandstone 20 x 9 x 7 ins.lying on mound of stone, marked U 83 M on one face, C on opposite face; I rebuild mound of stone around it, with markings U 83 M to the W., C to the E. and mark bearing trees as follows:
	A pinon pine, 12 ins.dia., bears N.83° 30'E. 51 lks.dist., marked C 83 M B T
	A pinon pine, 7 ins.dia., bears S.42° 30'W. 45 lks.dist., marked U 83 M B T
	The course of this line is therefore N.7° 08'W., and the length 79.44 chs.
	Land, broken, formation sandstone; general north slope.
	Soil, rocky.
	Timber, cedar and pinon pine.
	From the 83 mile cor.
	N.7° 10'W.on the boundary between Utah and Colorado,
	Descending abruptly, over broken sandstone ledges; through cedar and pinon pine timber.
3.70	Ravine, 90 ft.below mile corner, drains N.60° W.
	Ascend abruptly.
7.50	Spur, 50 ft.above ravine, projects W.Descend abruptly.

Chains.	
13.00	Ravine, 70 ft. below spur, drains W. Ascend abruptly.
16.90	Spur, 100 ft. above ravine, projects W. Descend.
25.60	Top of sandstone ledges, bearing NW. and SE. Line passes over ledges, over which it is impossible to chain; therefore at
25.64	Set a flag on line; then set a flag on line N.7° 10'W. on left bank of Coyote Wash. I proceed to flag and measure a base S.48° 08'W. 21.43 chs. dist.; from which flag on top of ledges bears S.55° 06'E.; therefore the distance is sin $\frac{76°46' \times 21.43}{\sin 47° 56'}$ or $\frac{.97345 \times 21.43}{.74237}$ equals 28.10, which added to 25.64 equals 53.74 to left bank of Coyote Wash, the point for triangulation. Approximate topography as follows:
29.00	Bottom of ravine, approximately 300 ft. deep, drains NW. Ascend abruptly over sandstone ledges.
38.00	Spur, 250 ft. above ravine, projects NW. Descend abruptly.
46.00	Base of sandstone ledges, bearing E. and W. Leave timber; enter dense sage, greasewood and shadcale undergrowth bearing E. and W.
52.20	Right bank of Coyote Wash, 300 ft. below spur, bears E. and W.; wash drains E.; banks 20 ft. high, wet, but no running water.
53.74	Left bank of Coyote Wash, bearing E. and W., and point for triangulation.
84.22	Fall 1 lk. W. of 84 mile cor., which is a sandstone 12 x 9 x 3 ins. set in ground, marked U 84 M on W., C on E., 1885 on N. face. I raise a mound of stone around corner 4 ft. base, 1 ft. high.

The course of this line is, therefore N.7° 10'W., and the length 84.22 chs.

Land, south 46.00 chs. very rough and rugged mountains, bare sandstone ledges, 300 ft. high; balance nearly level bottom lands.

Soil, south 46.00 chs. very rouky, where there is any; mostly bare sandstone; balance light, dry, sandy loam,

Chains.

2 ft. deep.

Undergrowth, greasewood, sagebrush, and shadscale.

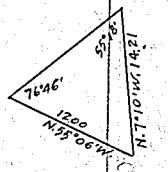
Timber, cedar and pinon pine.

From the 84 mile cor.,

N.7° 10'W. on the boundary between Utah and Colorado.

Over broken land; soil, sandy loam; through dense greasewood and sagebrush undergrowth.

10.00 Impassable ledges ahead; therefore set a flag on top of ledges N.7° 10'W., and lay off a base N.55° 06'W. 12.00 chs. to point, from which the flag bears N.48° 08'E. I then set up the instruemnt at the flag, and measure the third angle of the triangle, which is 55° 18'. The distance, therefore, is



$$\frac{12.00 \times \sin 76° 46'}{\sin 55° 18'}$$

log. 12.00 = 1.079181

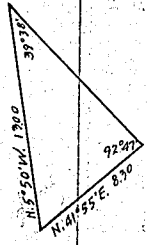
log. sin. 76°46' = 9.988312

A.C.log. sin 55° 18' = .085052

log. 1.152545 = 14.21, which added to 10.00 equals

24.21 Top of sandstone ledges, bearing NW. and SE. Ascend abruptly over series of sandstone ledges bearing NW. and SE.

32.90 Top of ledge on spur, projecting W. Impassable box canyon ahead, impossible to set point on line; therefore set flag N.5° 50'W.; then measure a base N.41° 55'E. 8.30 chs. to point, from which flag bears N.45° 28'W. I then set up instrument at flag and measure the third angle of the triangle which is 39° 38'; the distance to flag is, therefore



$$\frac{8.30 \times \sin 92°37'}{\sin 39° 38'}$$

log. 8.30 = 0.919078

log. sin. 92°37' = 9.999547

A.C.log. sin 39° 38' = 0.195266

log. 1.113891 = 13.00

Chains.	
	From the northwesterly corner of the triangle I offset S.82° 50'W.30 lks.to line.
	13.00 chs.added to 32.90 chs.equals
45.90	Point on true line across box canyon, on point of spur, projecting W.Thence descend over ledges bearing NE. and SW.
64.00	Bottom of canyon 50 ft.deep,drains SW.Ascend abruptly.
75.00	Top of abrupt ascent,bearing NE. and SW.; thence ascend gradually over bench land.
85.84	Fall 22 lks.W.of old mile corner, which is a sandstone 16 x 14 x 8 ins., set in a mound of stone, marked U 85 M on W., C on E., and 1885 on N.face. I rebuild mound of stone 5 ft.base, 1 ft.high around stone, and mark bearing trees as follows:
	A pinon pine, 10 ins.dia., bears N.7° 30'E. 30 lks.dist., marked C 85 M B T
	A pinon pine, 7 ins.dia., bears S.87° W. 41 lks. dist., marked U 85 M B T
	Land, very broken; formation sandstone; general S.slope.
	Soil, sandy loam.
	Timber, cedar and pinon pine.
	The course of this line is N.7° 01'W., and the length 85.84 chs.

South Boundary T.29 S., R.26 E.

	From the restored cor.of T.29 S., Rs.25 and 26 E., heretofore described.
	East, along S.bdy.sec.31,
	Descending over SE.slope; through pinon pine and cedar timber.
6.60	Canyon, 125 ft.below Tp.cor., course SE.
	Ascend over SW.slope, over cliffs.
24.11	Set an iron post, 3 ft.long, 2 ins.in dia., 10 ins.in the ground, to solid rock, with mound of stone around post, for cor.of secs.5 and 6 T.30 S., R.26 E., with brass cap marked

Chains.

T 30 S | R 26 E
S 6 | S 5
1916

from which

A pinon pine, 10 ins.dia., bears S46° E.77 lks. dist., marked T 30 S R 26 E S 5 B T

A pinon pine, 10 ins.dia., bears S.37° W. 23 lks. dist., marked T 30 S R 26 E S 6 B T

25.80 Spur, 110 ft.above canyon, projects S.40° W.

Descend over rocky SE.slope, broken by cliffs.

34.40 Gulch, 160 ft.below spur, course S.30° W.

Spring 3.00 chs:S.of line in gulch.

Ascend over rocky NW.slope.

40.00 85 ft.above gulch,

Set an iron post, 3 ft.long, 1 in.in dia., in mound of stone, for ¼ sec.cor.sec.31 only, with brass cap mkd.

¼
S 31
1916

from which

A pinon pine, 8 ins.dia., bears N.45° W. 42 lks. dist., marked ¼ S 31 B T

52.00 Rocky butte, 250 ft.above gulch,top of canyon rim.

Descend gradually over rolling S.slope.

64.11 Set an iron post, 3 ft.long, 1 in.in dia., in mound of stone for ¼ sec.cor.sec.5 T.30 S.R.26 E.with brass cap marked

¼
S 5
1916

from which

A pinon pine, 6 ins.dia.bears S.10° W.13 lks.dist. marked ¼ S 5 B T

Natural obstacles prevent setting ¼ sec.posts in ground.

80.00 44 ft.below butte,

Set an iron post, 3 ft.long 2 ins.in dia., in mound of stone,for cor.of secs.31 and 32,with brass cap marked

T 29 S | R 26 E
S 31 | S 32
1916

SOUTH BOUNDARY T. 29 S., R. 26 E.

Chains.

from which

A pinon pine, 8 ins. dia., bears N. 47° E. 63 lks. dist., marked T 29 S R 26 E S 32 B T

A pinon pine, 8 ins. dia., bears N. 5° W. 48 lks. dist., marked T 29 S R 26 E S 31 B T

Land, mountainous and rolling.

Soil, rocky; 4th rate.

Timber, dense cedar and pinon pine.

East, on S. bdy. sec. 32,

Over rolling S. slope; through cedar and pinon pine.

11.00 Gulch, course S.

19.00 Gulch, 23 ft. below sec. cor., course S.

Ascend, over SW. slope.

24.11 29 ft. above gulch,

Set an iron post 3 ft. long, 2 ins. in dia., 10 ins. in the ground, to solid rock, with mound of stone around post, for cor. of secs. 4 and 5 T. 30 S., R. 26 E., with brass cap marked

T 30 S | R 26 E.
S 5 | S 4
1916

from which

A pinon pine, 8 ins. dia., bears S. 45° 30' E. 44 lks. dist., marked T 30 S R 26 E S 4 B T

A pinon pine, 6 ins. dia., bears S. 29° 45' W. 15 lks. dist., marked T 30 S R 26 E S 5 B T

40.00 117 ft. above gulch,

Set an iron post 3 ft. long, 1 in. in dia., 10 ins. in the ground, to solid rock, with mound of stone around post for $\frac{1}{4}$ sec. cor. sec. 32, with brass cap marked

$\frac{1}{4}$
S 32
1916

from which

SOUTH BOUNDARY T.29 S., R.26 E.

Chains.	
	A pinon pine, 6 ins. dia., bears N.17° 45'W.67 lks. dist., marked $\frac{1}{4}$ S 32 B T
45.00	Low ridge, bears N. and S.
	Thence over rolling S. slope, descending.
47.00	Gulch, course S.
52.90	Top of bluff, 80 ft. high, bearing N. and S.
	Descend, over rocky SE. slope; through scattering timber.
64.11	Set an iron post 3 ft. long, 1 in. in dia., in mound of stone, for $\frac{1}{4}$ sec. cor. sec. 4 T.30 S., R.26 E., with brass cap marked
	$\frac{1}{4}$ S 4 1916
	from which
	A cedar, 8 ins. dia., bears S.20° E. 158 lks. dist. marked $\frac{1}{4}$ S 4 B T
80.00	400 ft. below top of bluff,
	Set a sandstone 24 x 13 x 9 ins., 18 ins. in the ground, for cor. of secs. 32 and 33, marked with 2 notches on W. and 3 notches on E. edges; T 29 S R 26 E on N. face; raise a mound of stone 2 ft. base, 1½ ft. high on sandstone boulder 15 lks. S. of cor.
	Impracticable to set iron post at this corner.
	Land, rolling and mountainous.
	Soil, rocky; 4th rate.
	Timber, dense cedar and pinon pine on west 52.90 chs.; balance scattering scrub timber.

East

	East, along S. bdy. sec. 33,
	Over broken SE. slope; through scrub timber.
20.40	Bluff, 50 ft. high, bears N.45°W., and S.45° E.
	Descend over steep E. slope.

Chains.

24.11 390 ft. below cor. of secs. 32 and 33,
Set an iron post 3 ft. long, 2 ins. in dia., in mound of stone, for cor. of secs. 3 and 4, T. 30 S., R. 26 E., with brass cap marked

T 30 S | R 26 E
S 4 | S 3
1916

Raise a mound of stone 2 ft. base, 1½ ft. high S. of cor.
Natural obstacles prevent setting post in the ground.

28.60 Bottom of deep ravine, 90 ft. below sec. cor. course S. 25° E. Ascend over steep W. slope.

36.60 Top of slope, bearing N. and S., 250 ft. above ravine.
Thence over rolling south slope.

40.00 Set a sandstone 20 x 10 x 4 ins., in mound of stone, for ¼ sec. cor. sec. 33, marked ¼ S on N. face; from which
A pinon pine, 8 ins. dia., bears N. 41° E. 26 lks. dist., marked ¼ S 33 B T
Natural obstacles prevent setting stone in the ground.

55.00 Gulch, 60 ft. below ¼ sec. cor., course S.
Ascend.

64.11 50 ft. above gulch,
Set a sandstone 16 x 10 x 8 ins., in mound of stone, for ¼ sec. cor. sec. 3, marked ¼ S on S. face; from which
A pinon pine, 8 ins. dia., bears S. 18° E. 85 lks. dist., marked ¼ S 3 B T
Natural obstacles prevent setting stone in the ground.

66.40 Gulch, 75 ft. below ¼ sec. cor., course S.

73.91 Intersect Utah-Colorado boundary line, at a point 2.54 chs. S. 7° 01' E. of the 85 mile corner heretofore described.
Set an iron post 3 ft. long, 2 ins. in dia., 10 ins. in the ground, with mound of stone around post, for closing cor. of Tps. 29 and 30 S., R. 26 E., with brass cap mkd.

T 29 S
S 33
U CC C
S 3
T 30 S
R 26 E
1916

Chains.

from which

A pinon pine, 10 ins.dia., bears S.80° W. 19 lks. dist., marked C C T 30 S R 26 E S 3 B T

A pinon pine, 10 ins.dia., bears N.86° W. 112 lks.dist., marked C C T 29 S R 26 E S 33 B T

Natural obstacles prevent setting post over 10 ins. in the ground.

Land, mountainous and rolling.

Soil, rocky; 4th rate.

Timber, scrub cedar and pinon pine.

SUBDIVISION T.30 S., R.26 E.

From the standard cor. of secs. 31 and 32, on the S.bdy. of Tp., heretofore described,

N.0° 01'E. bet. secs. 31 and 32,

Over rolling bottom in Lisbon Valley; descending gradually, through dense sagebrush; soil sandy loam.

6.60 Trail, in wash 1 ft. deep, 4 lks. wide, draining SE.

27.50 Wash, 10 lks. wide, 2 ft. deep, 20 ft. below sec. cor., course S.40° E.; the bottom of Lisbon Valley.

Ascend gradually.

37.60 Leave Lisbon Valley bottom; ascend, over ledge 10 ft. high bearing NW. and SE., to bench.

Thence over bench.

40.00 On bench, 15 ft. above bottom of Lisbon Valley,

Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 31 | $\frac{1}{4}$ | S 32

1916

Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

A pinon pine, 6 ins. dia., bears S.88° 30'W. 235 lks. dist., marked $\frac{1}{4}$ S 31 B T

No other bearing trees within limits.

56.00 Leave sagebrush; enter cedar and pinon pine timber, bear-

Chains.	
	ing NW. and SE.
	Ascend over broken, mountainous land, the foot of W. slope of broken mesa.
76.50	Top of ascent.
	Spur, 180 ft. above $\frac{1}{4}$ sec. cor. projects W.
	Descend.
80.00	On W. slope, 20 ft. below spur, in gulch, draining W.
	Set an iron post 3 ft. long, 2 ins. in dia., 26 ins. in crevice of rock, for cor. of secs. 29, 30, 31, and 32, with brass cap marked

T 30 S R 26 E

S 30	S 29
S 31	S 32

1916

from which

A cedar, 10 ins. dia., bears N. 89° E. 16 lks. dist., marked T 30 S R 26 E S 29 B T

A cedar 7 ins. dia., bears S. 36° E. 48 lks. dist. marked T 30 S R 26 E S 32 B T

A cedar, 6 ins. dia., bears S. 38° 45' W. 45 lks. dist. marked T 30 S R 26 E S 31 B T

A cedar 7 ins. dia., bears N. 22° W. 59 lks. dist. marked T 30 S R 26 E S 30 B T

Land, valley bottom, and mountainous W. slope.

Soil, in valley, rich, red, sandy, clay loam, 4 or 5 ft. deep; remainder rocky.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

West, on a random line bet. secs. 30 and 31,

40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect W. bdy. of Tp. 14 lks. N. of the cor. of secs. 25, 30, 31, and 36, heretofore described. Thence

N. 89° 54' E. on true line bet. secs. 30 and 31,

Descending gradually over Lisbon Valley; through sage-brush.

SUBDIVISION OF T.30 S., R.26 E.

Chains.	
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 30 / S 31 1916 from which A cedar, 8 ins. dia., bears N.5° E. 89 lks. dist. marked $\frac{1}{4}$ S 30 B T A cedar, 7 ins. dia., bears S.38° 30'W. 145 lks. dist., marked $\frac{1}{4}$ S 31 B T
49.70	Enter timber, cedar and pinon pine, bearing NW. and SE.
55.40	Leave timber, bearing N. and S.; thence through sagebrush.
62.50	Road, bears N. and S.
63.80	Swale, drains S.
66.00	Trail bears N. and S.
69.00	Leave sagebrush opening bearing N. and S. Enter timber.
80.00	The cor. of secs. 29, 30, 31, and 32, 70 ft. above swale. Land, rolling valley. Soil, sandy loam. Undergrowth, sagebrush. Timber, cedar and pinon pine.
	N.0° 01'E. between secs. 29 and 30,
	Over broken, mountainous land, steep W. slope from Island Mesa, strewn with huge boulders; ascending through dense cedar and pinon pine timber.
3.00	Spur, 50 ft. above sec. cor., projects W. Descend gradually.
9.00	Gulch, 40 ft. below spur, course S.70° W. Ascend gradually.
10.40	Spur, 20 ft. above gulch, projects W. Descend abruptly.
20.00	Leave timber; enter sagebrush bearing NE. and SW.; foot

Chains.	
	of abrupt descent bearing NE. and SW.; thence descend gradually.
34.50	Bottom of small valley, 100 ft. below spur, drains NE. About 25.00 chs. SW. of this point this valley drains SW. into Lisbon Valley. Ascend gradually.
34.70	Trail to Snyder Water and Greasewood canyons, bears NE. and SW.
40.00	In small valley on SE. slope, 10 ft. above bottom, Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked S 30 | $\frac{1}{4}$ | S 29 1916 Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.
52.20	Leave valley; ascend abruptly over broken sandstone ledges bearing N.85°E., and S.85° W. Leave sagebrush; enter cedar and pinon pine, bearing E. and W.
54.80	Sandstone spur, 70 ft. above valley, projects E. Descend gradually.
60.00	Wash, in gulch, 30 ft. below spur, course E. Ascend gradually.
75.00	Spur. 30 ft. above wash, projects E. Descend.
80.00	On N. slope, 30 ft. below spur, Set an iron post 3 ft. long, 2 ins. in dia., 26 ins. in the ground, for cor. of secs. 19, 20, 29, and 30, with brass cap marked T 30 S R 26 E S 19 | S 20 S 30 | S 29 1916 from which A pinon pine 9 ins. dia., bears N.19° E. 280 lks. dist., marked T 30 S R 26 E S 20 B T

Chains.	
	A pinon pine, 7 ins.dia., bears S.51° 30'E.203 lks.dist., marked T 30 S R 26 E S 29 B T
	A pinon pine, 6 ins.dia., bears S.50° 30'W. 72 lks.dist., marked T 30 S R 26 E S 30 B T
	A pinon pine 16 ins.dia., bears N.74° W. 280 lks. dist., marked T 30 S R 26 E S 19 B T
	Land, generally mountainous and ledges; except small valley draining NE.
	Soil, in valley, sandy clay loam, 2 ft.or more in depth, 1st rate; balance rocky and stony.
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.
	S.89° 54'W.on random line bet.secs.19 and 30,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.02	Intersect W.bdy.of Tp.37 lks.S. of the cor.of secs.19, 24,25, and 30, heretofore described. Thence
	S.89° 50'E.on true line bet.secs.19 and 30,
	Descending gradually through cedar and pinon pine timber.
8.52	Ravine, course N.20° W.
	Ascend gradually; sandstone formation.
22.02	Spur, 80 ft.above ravine, projects N.10° E.
	Descend.
33.02	Wash, 35 ft.below spur, 3 lks.wide, 1 ft.deep, course N.10° E. Leave sandstone; enter quartzite formation.
40.01	20 ft.above wash,
	Set an iron post 3 ft.long, 1 in.ih dia., 12 ins.in the ground, to ledge, with mound of stone 12 ins.high 4 ft.base, around post, for $\frac{1}{4}$ sec.cor., with brass cap marked
	$\frac{1}{4}$ S 19 / S 30 / 1916
	from which

Chains.

A pinon pine, 10 ins.dia., bears N.63° W. 26 lks. dist., marked $\frac{1}{4}$ S 19 B T

A cedar, 7 ins.dia., bears S.40° W. 34 lks.dist. marked $\frac{1}{4}$ S 30 B T

Ascend gradually.

47.52 Spur, 20 ft.above $\frac{1}{4}$ sec.cor., projects N.20° E.

60.52 Gulch, 30 ft.below spur, course N.20° E.

Leave quartzite formation. Ascend gradually.

63.02 Spur, 25 ft.above gulch, projects N.20° E.

Descend gradually.

80.02 The cor.of secs.19, 20, 29, and 30.

Land, rolling, mountainous; general N.slope and drainage.

Soil, generally rocky, stony, loose, sandstone and quartzite formation; 4th rate.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

N.0° 01'E.bet.secs.19 and 20,

Over rolling, mountainous country; through scattering pinon pine, and cedar timber, and sagebrush; soil sandy loam. Descending gradually over N.slope.

40.00 Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked

S 19 | $\frac{1}{4}$ | S 20

1916

from which

A pinon pine, 7 ins.dia., bears N.12° 30'E. 462 lks.dist., marked $\frac{1}{4}$ S 20 B T

A pinon pine, 8 ins.dia., bears N.9° 15'W.550 lks. dist., marked $\frac{1}{4}$ S 19 B T

80.00 On N.slope 45 ft.below $\frac{1}{4}$ sec.cor.,

Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in

Chains.

the ground, for cor. of secs. 17, 18, 19, and 20, with brass cap marked

T 30 S | R 26 E
S 18 | S 17

S 19 | S 20
1916

from which

A cedar, 9 ins. dia., bears S.22° E. 145 lks. dist. marked T 30 S R 26 E S 20 B T

No other bearing trees within limits; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.

Land, rolling mesa; general N. slope.

Soil, red, sandy, clay loam, 2 ft. or more deep, on sandstone subsoil; scattered outcroppings of sandstone.

Undergrowth, sagebrush. Good grass for grazing.

Timber, scattering cedar and pinon pine.

N.89° 50'W. on random line bet. secs. 18 and 19,

40.00 Set temp. ¼ sec. cor.

79.98 Intersect W. bdy. of Tp. 2 lks. S. of cor. of secs. 13, 18, 19, and 24, heretofore described. Thence

S.89° 49'E. on true line bet. secs. 18 and 19,

Descending gradually; through dense cedar and pinon pine.

9.98 Begin abrupt descent bearing NE. and SW., over ledges.

18.58 Lisbon Canyon, 140 ft. below point of abrupt descent, drains NE.

Ascend abruptly.

26.98 Spur, 140 ft. above Lisbon Canyon, projects N.10° W.

Descend abruptly over sandstone ledges.

38.18 Bottom of gulch, 30 ft. below spur, drains NW.; rocky.

Ascend abruptly over sandstone ledges, bearing NW. and SE.

39.99 On rocky SW. slope,

Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

SUBDIVISION OF T.30 S., R.26 E.

Chains.	
	$\frac{1}{4}$ S 18 / S 19 1916
	from which
	A pinon pine, 7 ins. dia., bears N.24° 30'W. 47 lks. dist., marked $\frac{1}{4}$ S 18 B T
	A pinon pine, 7 ins. dia., bears S.3° W. 69 lks. dist., marked $\frac{1}{4}$ S 19 B T
	Ascend.
49.98	Leave dense cedar and pinon pine bearing N. and S.; enter sagebrush and scattering cedar and pinon pine.
	Ascend gradually.
79.98	The cor. of secs. 17, 18, 19, and 20.
	Land, rough, mountainous; sandstone formation.
	Soil, light, red, sandy loam; generally rocky and stony on rock subsoil.
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.
	N.0° 01'E. bet. secs. 17 and 18,
	Over rolling country; through scattering cedar and pinon pine and dense sagebrush; soil, sandy loam; descending gradually over gentle north slope.
32.00	Swale, 30 ft. below sec. cor., drains NW.
	Ascend gradually.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	S 18 $\frac{1}{4}$ S 17 1916
	A pinon pine, 7 ins. dia., bears S.22° E. 202 lks. dist., marked $\frac{1}{4}$ S 17 B T
	A pinon pine, 8 ins. dia., bears N.8° W. 234 lks. dist., marked $\frac{1}{4}$ S 18 B T
45.00	Spur, 10 ft. above swale, projects NW.

SUBDIVISION OF T. 30 S., R. 26 E.

Chains.	
	Descend gradually.
78.00	Enter heavier cedar and pinon pine timber, bearing E. and W.; soil, becomes more stony.
80.00	On N. slope,
	Set an iron post 3 ft. long, 2 ins. in dia., 10 ins. in the ground, with mound of stone around post, for cor. of secs. 7, 8, 17, and 18, with brass cap marked
	T 30 S R 26 E S 7 | S 8 S 18 | S 17 1916
	from which
	A pinon pine, 10 ins. dia., bears N. 41° 30' E. 20 lks. dist., marked T 30 S R 26 E S 8 B T
	A pinon pine, 14 ins. dia., bears S. 55° E. 24 lks. dist., marked T 30 S R 26 E S 17 B T
	A cedar, 20 ins. dia., bears S. 53° W. 32 lks. dist. marked T 30 S R 26 E S 18 B T
	A cedar, 8 ins. dia., bears N. 28° W. 45 lks. dist. marked T 30 S R 26 E S 7 B T
	Natural obstacles prevent setting post over 10 ins. in the ground.
	Land, rolling mesa, slight N. slope.
	Soil, yellow, sandy, clay loam; shallow.
	Undergrowth, sagebrush. Good grass for grazing.
	Timber, few scattering cedars and pinon pine.
	N. 89° 49' W. on random line bet. secs. 7 and 18,
40.00	Set temp. ¼ sec. cor.
80.01	Intersect W. bdy. of Tp. 5 lks. N. of the cor. of secs. 7, 12, 13, and 18, heretofore described. Thence
	S. 89° 51' E. on true line bet. secs. 7 and 18,
	Ascending gradually; through cedar and pinon pine timber.
5.01	Spur, projects N.
	Descend gradually,

SUBDIVISION OF T.30 S., R.26 E.

Chains.	
9.00	Wash, 4 ft. deep, 10 lks. wide, 20 ft. below spur, drains N. Ascend gradually.
11.00	Leave timber, bearing N. and S. Enter sagebrush opening bearing N. and S.
36.00	Ridge, 30 ft. above wash, bears N. and S.
40.00½	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 7 / S 18 1916 from which A cedar, 12 ins. dia., bears N.61° 45'E. 250 lks. dist., marked ¼ S 7 B T A cedar, 10 ins. dia., bears S.79° 30'E. 203 lks. dist., marked ¼ S 18 B T Descend gradually.
43.00	Begin abrupt descent over ledges bearing N. and S.
53.51	Lisbon Canyon, 200 ft. below ridge, drains N. Ascend abruptly, bearing N. and S.
57.00	Top of abrupt ascent; thence descend gradually.
80.01	The cor. of secs. 7, 8, 17, and 18. Land, broken and rolling mesa; formation sandstone. Soil, sandy loam. Undergrowth, sagebrush. Good grass for grazing. Timber cedar and pinon pine.

N.0° 01'E. bet. secs. 7 and 8,

Descending gradually, over rolling mesa; through cedar and pinon pine timber and sagebrush; soil sandy loam.

10.00	Leave timber; enter sagebrush opening bearing E. and W.
21.00	Wash, 50 ft. below sec. cor., 5 ft. deep, 20 lks. wide, course W. Ascend gradually.
22.50	Enter timber, bearing E. and W.
28.00	Ridge, 20 ft. above wash, bears E. and W. Descend gradually.
29.00	Leave timber; enter sagebrush opening bearing E. and W.
31.00	Enter timber, bearing E. and W.

Chains.	
37.00	Gulch, 50 ft.deep, drains NW. Ascend gradually.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 12 ihs.in the ground, with mound of stone 3 ft.base, 12 ins.high around it, for $\frac{1}{4}$ sec.cor., with brass cap marked S. 7 | $\frac{1}{4}$ | S. 8 1916 from which A cedar, 10 ins.dia., bears S.10° E. 24 lks.dist. marked $\frac{1}{4}$ S 8 B T A cedar, 12 ins.dia., bears S.17° 30'W. 32 lks. dist., marked $\frac{1}{4}$ S 7 B T
55.00	Spur, 40 ft.above gulch, projects W.Descend gradually.
59.00	Begin abrupt descent over broken sandstone ledges bearing NE. and SW. Leave mesa.
72.40	Bottom of Lisbon Canyon, 350 ft.below spur, drains E. Ascend abruptly.
80.00	60 ft.above canyon, Set an iron post 3 ft.long, 2 ins.in dia., in mound of stone, for cor.of secs.5,6,7, and 8, with brass cap marked T 30 S R 26 E S 6 | S 5 S 7 | S 8 1916 from which A pinon pine, 8 ins.dia., bears N.18° E. 3 lks. dist., marked T 30 S R 26 E S 5 B T A pinon pine, 5 ins.dia., bears S.37° E. 40 lks. dist., marked T 30 S R 26 E S 8 B T A pinon pine, 8 ins.dia., bears S.7° W. 3 lks. dist., marked T 30 S R 26 E S 7 B T A cedar, 18 ins.dia., bears N.15° W. 12 lks.dist. marked T 30 S R 26 E S 6 B T Land, broken mesa; sandstone formation. Soil, sandy loam, very rocky. Undergrowth, sagebrush. Timber, cedar and pinon pine.

Chains.	
	N.89° 51'W.on a random line bet.secs.6 and 7,
40.00	Set temp.¼ sec.cor.
79.92	Intersect W.bdy.of Tp.16 lks.N.of the cor.of secs.1,6,7, and 12, heretofore described. Thence
	S.89° 58'E.on true line bet.secs.6 and 7,
	Ascending gradually through scattering cedar and pinon pine, and dense sagebrush undergrowth.
39.96	Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, with mound of stone around post, for ¼ sec.cor. with brass cap marked ¼ S 6 / S 7 / 1916 from which A pinon pine, 9 ins.dia., bears N.42°E. 220 lks. dist., marked ¼ S 6 B T A pinon pine, 7 ins.dia., bears S.65°E.193 lks. dist., marked ¼ S 7 B T
42.92	Ridge, bears NE. and SW.
	Descend gradually.
70.12	Begin abrupt descent, bearing NE. and SW.
79.92	The cor.of secs.5,6,7, and 8.
	Land 37.00 chs.very broken; balance rolling mesa.
	Soil, sandy loam, mixed with rocks east 37.00 chs.; balance sandy loam.
	Undergrowth, dense sagebrush on west 40.00 chs.
	Timber, cedar and pinon pine on east 37.00 chs.; scattering on balance.
	Impassable ledges ahead on line; therefore from the cor. of secs.5,6,7, and 8, I offset east 10.44 chs.;thence N.0° 01'E.on offset line 40.00 chs.; thence west 10.44 chs.to random line; (distance counted from sec.cor.)
40.00	Set temp.¼ sec.cor.
169.50	Intersect N.bdy.of Tp.20 lks.W.of the cor.of secs.5 and

Chains.	
	6, heretofore described; thence
	S.0° 05'W.on true line bet.secs.5 and 6,
	Descending abruptly over broken sandstone ledges; through cedar and pinon pine timber, and scattering sagebrush.
13.10	Bottom of ravine draining SE.
	Ascend abruptly over broken NE. slope; over broken sandstone ledges bearing NW. and SE.
24.00	Top of abrupt ascent; thence gradual ascent.
38.40	Ridge, 100 ft. above ravine, bears NW. and SE. Descend gradually.
55.30	Wash, 80 ft. below ridge, drains SW.; 2 ft. deep, 5 lks. wide. Ascend gradually.
63.20	Ridge, 50 ft. above wash, bears NE. and SW. Descend gradually.
86.40	Wash, 160 ft. below ridge, 8 ft. deep, 20 lks. wide, drains W. into Coyote Wash. Ascend gradually.
104.20	Spur, 70 ft. above wash, projects N.70° W.
	Descend abruptly over sandstone ledges.
129.50	On top of huge boulder,
	Set an iron post 3 ft. long, 1 in. in dia., in mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked
	S. 6 $\frac{\frac{1}{4}}{1916}$ S 5
	from which
	A cedar, 10 ins. dia., bears N.72° E. 105 lks. dist., marked $\frac{1}{4}$ S 5 B T
	A pinon pine, 5 ins. dia., bears S.24° W. 100 lks. dist.; marked $\frac{1}{4}$ S 6 B T
	Impassable ledges ahead on line; therefore I offset E. 10.44 chs.; thence on offset line S.0° 05'W.
	Descending abruptly.
	3.30 chs. Coyote Wash, drains E. Stream of water, 2 lks. wide, 2 ins. deep in bottom of wash; flows E. Ascend gradually.
	12.90 chs. Spur, 75 ft. above wash, projects E. Descend abruptly.

Chains.	
	32.00 chs. Lisbon Canyon, 50 ft. below spur, drains NE.
	40.00 chs. Offset west 10.44 chs. to true line, at
169.50	The cor. of secs. 5, 6, 7, and 8.
	Land, very broken; sandstone formation.
	Soil, sandy loam, covered with sandstone boulders.
	Timber, cedar and pinon pine; few cottonwoods in Coyote Wash.
	From the standard cor. of secs. 32 and 33 on the S. bdy. of Tp., heretofore described
	N. 0° 01' E. between secs. 32 and 33,
	Descending gradually over broken, mountainous land; through dense sagebrush; soil, sandy loam.
10.80	Wash, 20 ft. below sec. cor., drains W.
	Ascend abruptly over broken sandstone ledges.
12.50	Leave sagebrush; enter cedar and pinon pine, bearing E. and W.
29.00	Ridge, south rim of Island Mesa, 320 ft. above wash, bears N. 25° W., and S. 25° E. Descend gradually; through cedar, pinon pine, and scattering yellow pine timber.
35.00	Leave yellow pine bearing E. and W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	S 32 $\frac{1}{4}$ S 33 1916
	from which
	A pinon pine, 7 ins. dia., bears N. 38° E. 44 lks. dist., marked $\frac{1}{4}$ S 33 B T
	A cedar, 6 ins. dia., bears N. 31° W. 37 lks. dist., marked $\frac{1}{4}$ S 32 B T
63.50	Leave timber; enter sagebrush bearing N. 60° E., and S. 20° W. Small valley draining NE.
69.00	Bottom of small valley, draining NE.
75.00	Enter E. point of timber, bearing NE. and SW.

Chains.

80.00 In edge of timber, 200 ft. below ridge, on NE. slope,
Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of. secs. 28, 29, 32, and 33, with brass cap marked

T 30 S R 26 E
S 29 | S 28
S 32 | S 33
1916

from which

A pinon pine, 7 ins. dia., bears N. 66° 30' E. 31 lks. dist., marked T 30 S R 26 E S 28 B T

A pinon pine, 6 ins. dia., bears S. 69° E. 9 lks. dist., marked T 30 S R 26 E S 33 B T

A cedar, 14 ins. dia., bears S. 15° W. 7 lks. dist. marked T 30 S R 26 E S 32 B T

A pinon pine, 7 ins. dia., bears N. 7° 30' W. 5 lks. dist., marked T 30 S R 26 E S 29 B T

Land, broken, mountainous.

Soil, sandy loam, stony. Undergrowth, sagebrush.

Timber, cedar and pinon pine and scattering yellow pine.

West on a random line. bet. secs. 29 and 32,

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line 10. lks. N. of the cor. of secs. 29, 30, 31, and 32. Thence

N. 89° 56' E. on true line bet. secs. 29 and 32,

Ascending abruptly over broken sandstone ledges; through cedar and pinon pine timber.

3.75 Ridge, west rim of Island Mesa, 230 ft. above sec. cor., bears N. and S. Descend gradually.

36.58 Gulch, 50 ft. below ridge, drains N. Ascend gradually.

40.00 Set an iron post 3 ft. long, 1 in. in dia., in mound of stone, on sandstone ledge, for ¼ sec. cor., with brass cap marked

¼ S 29
S 32
1916

Chains.	
	from which
	A pinon pine, 8 ins. dia., bears north 27 lks. dist., marked $\frac{1}{4}$ S 29 B T
	A pinon pine, 7 ins. dia., bears S.31° W. 22 lks. dist., marked $\frac{1}{4}$ S 32 B T
46.48	Spur, 50 ft. above gulch, projects N. Descend gradually.
52.08	Enter a small flat valley draining N.20° E.
	Leave cedar and pinon pine; enter sagebrush.
57.08	Bottom of valley.
60.38	Leave sagebrush; enter cedar and pinon pine timber, bearing NE. and SW. Ascend gradually.
76.88	Spur, 20 ft. above valley, projects N. Descend gradually.
80.00	The cor. of secs. 28, 29, 32, and 33.
	Land, mountainous, broken; sandstone formation.
	Soil, sandy loam, loose, sandstone rocks.
	Timber, cedar and pinon pine. Undergrowth, sagebrush.

N.0° 01'E. between secs. 28 and 29,

Over rolling, mountainous land; through dense sagebrush; descending gradually, over Island Mesa; formation quartzite; soil sandy loam.

17.00	Swale, 20 ft. below sec. cor., drains NE. Ascend gradually.
22.50	Enter scattering cedar and pinon pine timber.
34.00	Ridge, 20 ft. above swale, bears NE. and SW. Descend gradually.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 29 $\frac{1}{4}$ | S 28

1916

from which

A pinon pine, 6 ins. dia., bears N.43° E. 40 lks. dist., marked $\frac{1}{4}$ S 28 B T

A pinon pine, 10 ins. dia., bears N.44° W. 73 lks. dist. marked $\frac{1}{4}$ S 29 B T

64.00	Leave timber; enter sagebrush, bearing E. and W. Descend into swale.

Chains.	
70.00	Wash, 110 ft. below ridge, drains NW. Ascend gradually.
73.00	Leave swale; enter timber bearing E. and W.
80.00	25 ft. above wash, on SW. slope,
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, with brass cap marked.
	T 30 S R 26 E S 20 | S 21 S 29 | S 28 1916
	from which
	A cedar, 14 ins. dia., bears N. 78° 30' E. 39 lks. dist., marked T 30 S R 26 E S. 21 B T
	A pinon pine, 16 ins. dia., bears S. 26° E. 24 lks. dist., marked T 30 S R 26 E S 28 B T
	A pinon pine, 12 ins. dia., bears S. 23° 30' W. 52 lks. dist., marked T 30 S R 26 E S 29 B T
	A pinon pine, 9 ins. dia., bears N. 72° W. 65 lks. dist., marked T 30 S R 26 E S 20 B T
	Land, mountainous, NE. and NW. drainage; sandstone and quartzite formation.
	Soil, rocky, sandy loam, shallow.
	Timber, cedar and pinon pine. Undergrowth, sagebrush.
	S. 89° 56' W. on random line bet. secs. 20 and 29,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.95	Intersect N. and S. line 12 lks. S. of the cor. of secs. 19, 20, 29, and 30. Thence
	S. 89° 59' E. on true line bet. secs. 20 and 29,
	Descending through cedar and pinon pine timber.
25.95	Leave timber; thence through sagebrush, bearing NW. and SE.
39.97½	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S 20 S 29 1916

Chains.	
	Dig pits 15 x 15 x 12 ins. E. and W. of post 3 ft. dist.
49.45	Wash, 30 ft. deep, drains N.
54.45	Wash, 30 ft. deep, 1 ch. wide, drains NE.
	Enter timber bearing N. and S.
69.95	Enter bed of wash, 40 ft. deep, draining NW.
72.95	Leave bed of wash.
76.95	Trail bears NE. and SW. Ascend gradually.
79.95	The cor. of secs. 20, 21, 28, and 29.
	Land, broken and rolling, mountainous; general drainage NE.
	Soil, red, sandy, clay loam, 2 ft. deep, on hard pan; and rocky, light, sandy loam, shallow on sandstone subsoil.
	Timber, cedar and pinon pine. Undergrowth, sagebrush.

	N. 6° 01' E. bet. secs. 20 and 21,
	Over rolling N. slope of Island Mesa; through scattering pinon pine and cedar and sagebrush; ascending gradually.
3.10	Trail bears N. 70° E., and S. 50° E.
5.00	Ridge, 10 ft. above corner, bears NW. and SE.
	Descend gradually.
7.10	Broad fence bears NE. and SE.
27.00	Trail bears NE. and SE.
29.50	Gulch, 110 ft. below ridge, drains E. Ascend gradually.
37.30	Spur, 70 ft. above gulch, projects S. 70° E.
	Descend gradually.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

S 20 | ¼ | S 21

1916

from which

A cedar, 10 ins. dia., bears S. 67° E. 60 lks. dist. marked ¼ S 21 B T

A pinon pine, 7 ins. dia., bears N. 17° 30' W. 72 lks. dist., marked ¼ S 20 B T

Chains.	
	Corner 17 ft. below spur.
61.50	Wash, 30 ft. below ¼ sec. cor., drains N.60° E.
	Ascend gradually.
69.00	Ridge, 50 ft. above wash, bears E. and W.
	Descend gradually.
80.00	On N. slope, 40 ft. below ridge,
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 16, 17, 20, and 21, with brass cap marked

T 30 S R 26 E
S 17 | S 16
S 20 | S 21
1916

A pinon pine, 8 ins. dia., bears N.76° 30'E. 65 lks. dist., marked T 30 S R 26 E S 16 B T

A pinon pine, 7 ins. dia., bears S.69° E. 41 lks. dist., marked T 30 S R 26 E S 21 B T

A cedar, 9 ins. dia., bears S.33° W. 52 lks. dist. marked T 30 S R 26 E S 20 B T

A pinon pine, 8 ins. dia., bears N.79° W. 276 lks. dist., marked T 30 S R 26 E S 17 B T

Land, rolling mesa; general slope to the north.

Soil, sandy loam, with outcroppings of sandstone and quartzite.

Undergrowth, sagebrush. Good grazing.

Timber, scattering cedar and pinon pine.

	N.89° 59'W. on a random line bet. secs. 17 and 20,
40.00	Set temp. ¼ sec. cor.
79.91	Intersect N. and S. line 16 lks. S. of the cor. of secs. 17, 18, 19, and 20. Thence
	S.89° 52'E. on true line bet. secs. 17 and 20,
	Descending gradually.
15.91	Enter timber, bearing NE. and SW.
23.41	Wash, 10 lks. wide, 2 ft. deep, drains NE.

Chains.	
31.91	Leave timber, bearing NE. and SW.; thence through dense sagebrush bearing NE. and SW. Ascend gradually.
39.95½	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 17 / S 20 1916 Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.
52.91	Leave dense sagebrush; enter heavy timber, cedar and pinon pine, bearing N. and S.
58.91	Ridge, 20 ft. above ¼ sec. cor., bears N. and S. Descend gradually.
63.91	Leave heavy timber bearing N. and S.
66.11	Wash, 50 ft. below ridge, 6 ft. deep, 20 lks. wide, drains NE. Ascend gradually.
76.91	Spur, 20 ft. above wash, projects N. Enter heavy timber bearing N. and S. Descend gradually.
79.91	The cor. of secs. 16, 17, 20, and 21. Land, rolling mesa. Soil, sandy loam. Undergrowth, dense sagebrush. Good grazing. Timber, cedar and pinon pine.

N. 0° 01' E. bet. secs. 16 and 17,

Over rolling mesa; through scattering cedar and pinon pine, and sagebrush undergrowth.

7.00	Timber becomes heavier, bearing E. and W.
19.80	Gulch, 50 ft. below sec. cor., drains N. 70° E. Ascend gradually over sandstone ledges.
29.10	Spur, 50 ft. above gulch, projects N. 60° E. Descend gradually.
30.70	Cottonwood trees bear N. 21° 30' E.
40.00	50 ft. below spur, Set an iron post 3 ft. long, 1 in. in dia., 16 ins. in the

Chains.

ground, with round of stone around post, for ¼ sec. cor. with brass cap marked

S 17 | ¼ | S 16

1916

from which

A pinon pine, 7 ins. dia., bears S.17° 30'E. 21 lks. dist., marked ¼ S 16 B T

A pinon pine, 10 ins. dia., bears S.70° W. 16 lks. dist., marked ¼ S 17 B T

Natural obstacles prevent setting post over 16 ins. in the ground.

53.00 Spring 2.00 chs. E. of line, clear water, drains SE. with stream 2 lks. wide, 3 ins. deep.

54.00 Gulch, 70 ft. below ¼ sec. cor., drains S.70° E.

Ascend abruptly, over sandstone ledges. Grove of oak trees in gulch, with scattering mountain juniper.

55.70 Top of ledges 70 ft. above gulch, bearing NE. and SW.

Ascend gradually.

80.00 120 ft. above gulch,

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 8, 9, 16, and 17, with brass cap marked

T 30 S R 26 E

S 8 | S 9

S 17 | S 16

1916

from which

A pinon pine, 12 ins. dia., bears N.72° 45'E. 52 lks. dist., marked T 30 S R 26 E S 9 B T

A cedar, 10 ins. dia., bears S.29° E.93 lks. dist. marked T 30 S R 26 E S 16 B T

A pinon pine, 12 ins. dia., bears S.36° W. 88 lks. dist., marked T 30 S R.26 E S 17 B T

A pinon pine, 10 ins. dia., bears N.45° 45'W. 59 lks. dist., marked T 30 S R 26 E S 8 B T

SUBDIVISION OF T.30 S., R.26 E.

Chains.	
	Land, broken mesa; sandstone formation.
	Soil, sandy loam.
	Undergrowth, sagebrush. Good grazing.
	Timber, pinon pine and cedar.
	N.89° 52'W.on random line bet.secs.8 and 17,
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line 7 lks.S.of the cor.of secs.7,8, 17, and 18. Thence
	S.89° 49'E.on true line bet.secs.8 and 17,
	Descend gradually, through timber.
0.50	Leave timber, bearing N.and S.
13.00	Swale, 20 ft.below ridge, drains N.20° W.
	Ascend gradually.
25.00	Ridge, 40 ft.above swale, bears N.and S.
	Thence over sagebrush opening.
36.00	Enter scattering timber. Descend.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 20 ins.in the ground, with mound of stone around post, for ¼ sec.cor. with brass cap marked
	¼ S 8 / S 17 1916
	from which
	A cedar, 12 ins.dia., bears N.37° W.70 lks.dist. marked ¼ S 8 B T
	A cedar, 8 ins.dia., bears S.48° W. 98 lks.dist. marked ¼ S 17 B T
	Corner 20 ft.below ridge.
	Natural obstacles prevent setting post over 20 ins.in the ground.
46.80	Wash, 6 ft.deep, 50 lks.wide, drains S., 20 ft.below ¼ sec.cor.
50.00	Enter dense timber, bearing N.and S.

SUBDIVISION OF T.30 S., R.26 E.

Chains.	
	Ascend gradually.
60.00	Spur, 70 ft.above wash, projects S.20°E.
	Descend gradually.
67.00	Swale, 30 ft.below spur, drains S.
	Ascend gradually.
80.00	The cor.of secs.8,9,16, and 17,20 ft.above swale.
	Land, rolling mesa.
	Soil, sandy loam.
	Undergrowth, sage. Good grazing.
	Timber, cedar and pinon pine.

N.0° 01'E.bet.secs.8 and 9,

Ascending gradually, over broken mesa; through cedar and pinon pine timber, and sagebrush undergrowth.

16.50 Ridge, 50 ft.above sec.cor., bears NW. and SE.

Descend gradually.

40.00 100 ft.below ridge,

Set an iron post 3 ft.long, 1 in.in dia., 12 ins.in the ground, with mound of stone around post, for $\frac{1}{4}$ sec.cor. with brass cap marked

S 8 | S 9
$\frac{1}{4}$
1916

from which

A pinon pine, 9 ins.dia., bears S.31° E. 56 lks. dist., marked $\frac{1}{4}$ S 9 B T

A pinon pine, 7 ins.dia., bears N.78° 30'W.36 lks. dist. marked $\frac{1}{4}$ S 8 B T

80.00 Set an iron post 3 ft.long, 2 ins.in dia., 12 ins.in the ground, with mound of stone around post, for cor.of secs.4,5,8, and 9, with brass cap marked

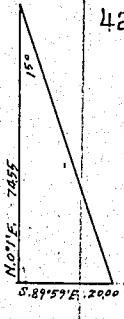
T 30 S R 26 E
S 5 | S 4
S 8 | S 9
1916

from which

Chains.	
	A pinon pine, 6 ins.dia., bears N.54° 45'E. 39 lks.dist., marked T 30 S R 26 E S 4 B T
	A pinon pine, 6 ins.dia., bears S.77° 30'E. 51 lks.dist., marked T 30 S R 26 E S 9 B T
	A pinon pine, 8 ins.dia., bears S.53° W. 47 lks. dist., marked T 30 S R 26 E S 8 B T
	A cedar, 16 ins.dia., bears N.33° 15'W. 54 lks. dist., marked T 30 S R 26 E S 5 B T
	Natural obstacles prevent setting ¼ sec.and sec.cor. posts over 12 ins.in the ground.
	Land, broken mesa; general north slope; sandstone formation.
	Soil, light, sandy loam, rocky and stony, shallow, on sandstone subsoil.
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.
	N.89° 49'W.on random line bet.secs.5 and 8,
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line 14 lks.N.of the cor.of secs.5, 6, 7, and 8. Thence
	S.89° 55'E.on true line bet.secs.5 and 8,
	Descending abruptly; through cedar and pinon pine timber.
5.10	Lisbon Canyon, drains NE.
	Ascend gradually.
30.10	Spur,300 ft.above Lisbon Canyon, projects NW.
	Descend gradually.
36.10	Wash, 40 ft.below spur, drains N.
	Ascend.
40.05	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., with brass cap marked

¼ S 5. / S 8 / 1916

Chains.	
	from which
	A pinon pine, 8 ins. dia., bears N.66° 30'E. 42 lks. dist., marked $\frac{1}{4}$ S 5 B T
	A pinon pine, 12 ins. dia., bears S.19° E. 26 lks. dist., marked $\frac{1}{4}$ S 8 B T
	Ascend abruptly over NW. slope, bearing NE. and SW.
52.60	Top of abrupt ascent; enter mesa.
53.10	Leave timber, bearing N. and S.; thence over sagebrush opening bearing N. and S.
	Ascend gradually.
77.60	Spur, 200 ft. above wash, projects NW.
	Descend gradually, through cedar and pinon pine, over broken mesa.
80.10	The cor. of secs. 4, 5, 8, and 9.
	Land, very broken; 27.50 chs. mesa; balance steep, rough NW. slope; formation sandstone.
	Soil, sandy loam, covered with huge sandstone boulders.
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.
	N.0° 01'E. bet. secs. 4 and 5, on random line,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
42.10	Line ahead passes over broken sandstone ledges, over which it is impracticable to chain; therefore I set a flag on line on top of rim rock and measure a base S. 89° 59'E. 20.00 chs. to a point, from which flag on ledge bears N.15° 00'W.; from the flag the E. end of base bears S.15° 00'E.; therefore the distance is cot. 15° x 20.00 equals 3.72771 x 20.00 equals 74.55, which added to 42.10 equals
116.65	To point of triangulation; from which I continue my random line N.0° 01'E.
169.32	Intersect N. bdy. of Tp. 19 lks. W. of the cor. of secs. 4 and 5, heretofore described. Thence



SUBDIVISION OF T.30 S., R.26 E.

Chains.	
	S.0° 05'W.on true line bet.secs.4 and 5,
	Ascending gradually, through cedar and pinon pine timber.
5.42	Trail bears E.and W.
13.32	Ridge, bears E.and W.
	Descend gradually.
32.32	Wash, 130 ft.below ridge, drains E.
	Ascend gradually.
49.32	Spur, 30 ft.above wash, projects W.
	Descend gradually.
52.67	Point of triangulation.
53.12	Top of rim rock, 35 ft.below spur, bears NW. and SE.
	Descend abruptly over broken sandstone ledges.
126.32	Bottom of Coyote Wash, draining E.
	Impracticable to chain ahead on account of broken sandstone ledges.
127.22	Triangulation point.
129.32	At foot of steep descent, bearing NW. and SE.
	Set an iron post 3 ft.long, 1 in.in dia., 8 ins.in the ground, with mound of stone around post, for $\frac{1}{4}$ sec.cor. with brass cap marked
	S 5 $\frac{1}{4}$ | S 4
	1916
	Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.
	Natural obstacles prevent setting post over 8 ins.in the ground. Trees within distance too small to mark for bearing trees.
	Ascend abruptly.
163.72	Rim of mesa bears NW. and SE.
	Ascend gradually.
169.32	The cor.of secs.4,5,8, and 9.
	Land, very broken, mountainous.
	Soil, sandy loam, rocky, stony, loose rocks, covered in many places with huge boulders; formation sandstone.
	Timber, cedar and pinon pine; a few cottonwoods in Coyote

Chains.	
	Wash.
	From the standard cor. of secs. 33 and 34 on the S. bdy. of the township, heretofore described,
	N.0° 02'E. bet. secs. 33 and 34,
	Ascending gradually, over broken mountainous land; through dense cedar and pinon pine timber; scattering oak and service-berry undergrowth, over sandstone ledges.
6.00	Quartzite outcropping bears E. and W.
7.00	Spur, 10 ft. above sec. cor., projects E.
	Descend gradually.
40.00	130 ft. below spur, on N. slope,
	Set an iron post 3 ft. long, 1 in. in dia., 8 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec. cor. with brass cap marked
	$S\ 33 \mid \frac{1}{4} \mid S\ 34$
	1916
	from which
	A cedar, 14 ins. dia., bears S.86° E. 36 lks. dist. marked $\frac{1}{4}$ S 34 B T
	A cedar, 9 ins. dia., bears S.47° 30'W. 36 lks. dist. marked $\frac{1}{4}$ S 33 B T
	From this corner a seep spring, in grove of cottonwoods, bears S.45° E. 10.00 chs. dist.
	Natural obstacles prevent setting post over 8 ins. in the ground.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., in mound of stone, for cor. of secs. 27, 28, 33, and 34, with brass cap marked
	T 30 S R 26 E
	$S\ 28 \mid S\ 27$
	$S\ 33 \mid S\ 34$
	1916

SUBDIVISION OF T.30 S., R.26 E.

Chains.	
	from which
	A pinon pine, 9 ins.dia., bears N.43° 30'E. 31 lks.dist., marked T 30 S R 26 E S 27 B T
	A pinon pine, 10 ins.dia., bears S.24° 30'E. 52 lks dist., marked T 30 S R 26 E S 34 B T
	A pinon pine, 9 ins.dia., bears S.2° W. 20 lks. dist., marked T 30 S R 26 E S 33 B T
	A pinon pine, 10 ins.dia., bears N.65° 30'W. 55 lks dist., marked T 30 S R 26 E S 28 B T
	Land, broken, mountainous; sandstone and quartzite formation.
	Soil, sandy loam, mixed with rocks.
	Undergrowth, service-berry and scrub oak.
	Timber, cedar, pinon pine, and cottonwood.
	West, on a random line bet.secs.28 and 33,
40.00	Set temp. ¼ sec.cor.
30.17	Intersect N.and S.line 9 lks.S.of the cor.of secs.28, 29,32, and 33. Thence,
	S.8°° 56'E.on true line bet.secs.28 and 33,
	Descending gradually, through timber, over Island Mesa.
1.67	Leave timber; enter sagebrush undergrowth, bearing N.and S.
5.17	Wash, 10 lks.wide, 5 ft.deep, drains N.
12.67	Leave sagebrush bearing N.and S.; enter timber, bearing N.and S. Ascend gradually.
19.17	Spur, 60 ft.above wash, projects N.10° E.
	Descend gradually over sandstone formation.
29.87	Gulch, 90 ft.below spur, drains N.10° E.
	Ascend gradually; quartzite formation.
35.17	Spur, 60 ft.above gulch, projects N.10° E.
40.08½	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., with brass cap marked
	¼ S 28 / S 33 / 1916

Chains.	
	from which
	A pinon pine, 6 ins. dia., bears N.86° W. 40 lks. dist., marked $\frac{1}{4}$ S 28 B T
	A pinon pine, 10 ins. dia., bears S.77° W. 108 lks. dist., marked $\frac{1}{4}$ S 33 B T
55.17	Leave quartzite; enter limestone formation.
57.17	Leave limestone; enter quartzite formation.
58.67	Leave quartzite; enter sandstone formation; descending gradually.
63.57	Gulch, 100 ft. below spur, drains N.20° E.
	Ascend, over limestone ledges.
71.87	Spur, 60 ft. above gulch, projects N.10° E. Gradual descent.
71.97	Spring bears S.20° E. 48.00 chs. dist.; (tied to from $\frac{1}{4}$ sec. cor. between secs. 33 and 34.)
80.17	The cor. of secs. 27, 28, 33, and 34.
	Land, broken, sandstone, quartzite, and limestone formation.
	Soil, sandy loam.
	Timber, cedar and pinon pine.

N.0° 02'E. between secs. 27 and 28,

Descending gradually, over broken mountainous land on Island Mesa; through cedar and pinon pine; sandstone formation.

29.20	Gulch, 30 ft. below sec. cor., drains N.20° W.
	Ascend gradually.
40.00	On sandstone ledge,
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone, 5 ft. base, for $\frac{1}{4}$ sec. cor., with brass cap marked

$$\begin{array}{c|c} & \frac{1}{4} \\ S.28 & S\ 27 \\ & 1916 \end{array}$$

from which

SUBDIVISION OF T. 30 S., R. 26 E.

Chains.

A pinon pine, 6 ins. dia., bears S. 67° 30' E. 18 lks. dist., marked $\frac{1}{4}$ S 27 B T

A pinon pine, 14 ins. dia., bears N. 13° W. 56 lks. dist., marked $\frac{1}{4}$ S 28 B T

Natural obstacles prevent setting post in the ground.

41.50 Trail bears E. and W. in draw, draining W.

46.60 Spur, 70 ft. above gulch, projects W.

Descend gradually.

75.00 Gulch, 70 ft. below spur, drains S. 70° W.

Ascend gradually.

80.00 40 ft. above gulch, on SW. slope,

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, with brass cap marked

T 30 S R 26 E
S 21 | S 22
S 28 | S 27
1916

from which

A pinon pine, 7 ins. dia., bears N. 72° E. 116 lks. dist., marked T 30 S R 26 E S 22 B T

A pinon pine, 20 ins. dia., bears S. 43° 30' E. 150 lks. dist., marked T 30 S R 26 E S 27 B T

A cedar, 10 ins. dia., bears S. 6° W. 118 lks. dist. marked T 30 S R 26 E S 28 B T

A pinon pine, 7 ins. dia., bears N. 57° W., 128 lks. dist., marked T 30 S R 26 E S 21 B T

Land, mountainous, sandstone formation; drainage W.

Soil, rocky, stony, sandy loam, shallow, on sandstone subsoil.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

N. 89° 56' W. on random line bet. secs. 21 and 28,

40.00 Set temp. $\frac{1}{4}$ sec. cor.

Chains.	
80.18	Intersect N.and S.line 17 lks.N.of the cor.of secs.20, 21,28, and 29. Thence
	N.89° 57'E. on true line bet.secs.21 and 28,
	Ascending gradually through cedar and pinon pine timber.
2.18	Leave timber; enter sagebrush opening, bearing N.and S.
23.08	Leave sagebrush opening; enter cedar and pinon pine.
29.18	Ridge, bears N.and S. Descend gradually.
40.09	On quartzite ledge,
	Set an iron post 3 ft.long, 1 in.in dia., in mound of stone, for $\frac{1}{4}$ sec.cor., with brass cap marked
	$\frac{1}{4}$ S 21 / S 28 1916
	from which
	A cedar, 10 ins.dia., bears N.5° W. 90 lks.dist. marked $\frac{1}{4}$ S 21 B T
	A cedar, 8 ins.dia., bears S.34° 30'W. 76 lks. dist., marked $\frac{1}{4}$ S 28 B T
43.18	Gulch, 50 ft.below ridge, drains N. into Snyder Water Canyon. Ascend gradually.
51.18	Spur, 70 ft.above gulch, projects N.20° E. Descend gradually.
61.48	Snyder Water Canyon, drains N. , 110 ft.deep, 80 ft. below spur. Ascend gradually.
80.18	The cor.of secs.21,22,27, and 28.
	Land, rough mountainous; drainage north.
	Soil, sandy, rocky, stony loam, shallow, on rock sub-soil.
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.

N.0° 02'E.between secs.21 and 22,

Over rolling mesa; ascending gradually, through scattering cedar and pinon pine, and sagebrush undergrowth.

Chains.	
15.00	Spur, 20 ft. above sec. cor., projects N.70° W.
	Descend gradually.
20.00	Leave timber, bearing E. and W.
40.00	20 ft. below spur, on N. slope,
	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec. cor. with brass cap marked
	$\frac{1}{4}$ S 21 | S 22 1916
	Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.
53.00	Enter timber bearing NW. and SE.
63.50	Top of sandstone ledges, bearing NW. and SE.
	Descend abruptly.
61.93	Impassable cliffs ahead on line; therefore I offset west 15.00 chs.; thence on offset line N.0° 02'E. 1.52 chs.; thence East 15.00 chs. to [illegible] line.
63.45	To true line; thence N.0° 02'E.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., in mound of stone, for cor. of secs. 15, 16, 21, and 22, with brass cap marked
	T 30 S R 26 E S 16 | S 15 S 21 | S 22 1916
	from which
	A pinon pine, 10 ins. dia., bears N.12° 45'E. 79 lks. dist., marked T 30 S R 26 E S 15 B T
	A pinon pine, 9 ins. dia., bears S.15° E. 99 lks. dist., marked T 30 S R 26 E S 22 B T
	A pinon pine, 10 ins. dia., bears S.82° 30'W. 47 lks. dist., marked T 30 S R 26 E S 21 B T
	A pinon pine, 9 ins. dia., bears N.42° 15'W. 20 lks. dist., marked T 30 S R 26 E S 16 B T
	Land, 60.00 chs. rolling mesa; balance broken by sandstone ledges; formation sandstone.

Chains.	
	Soil, sandy loam on mesa; balance
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.
	S.89° 57'W.on random line bet.secs.16 and 21,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.28	Intersect N.and S.line at the cor.of secs.16,17,20, and 21; thence
	N.89° 57'E.on true line bet.secs.16 and 21,
	Descending through scattering cedar and pinon pine, and dense sagebrush.
8.28	Begin abrupt descent, bearing N.and S.
11.48	Snyder Water Canyon drains N.
	Ascend abruptly over sandstone ledges bearing N.and S.
25.28	Top of abrupt ascent; thence gradual ascent.
40.14	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked $\frac{1}{4}$ S 16 / S 21 / 1916 from which A pinon pine, 10 ins.dia., bears N.7° E. 24 lks. dist., marked $\frac{1}{4}$ S 16 B T A pinon pine, 9 ins.dia., bears S.63° 30'E. 34 lks.dist., marked $\frac{1}{4}$ S 21 B T
67.28	Ridge 240 ft.above canyon, bears N.and S. Descend.
72.28	Top of ledges bearing NW. and SE., 20 ft.below ridge.
	Descend abruptly.
80.28	The cor.of secs.15,16,21, and 22.
	Land, broken, mountainous; formation sandstone.
	Soil, sandy loam, and rocky.
	Undergrowth, sagebrush.
	Timber, cedar and pinon pine.

SUBDIVISION OF T.30 S., R.26 E.

Chains.

Note: On account of impassable ledges ahead on line, I offset west 15.00 chs.; thence on offset line N.0° 02'E.40.00 chs.; through scattering timber and undergrowth; thence East 15.00 chs. to true line, at

40.00 At base of ledges,

Set an iron post 3 ft. long, 1 in. in dia., 10 ins. in the ground, with mound of stone around post, 5 ft. base, for ¼ sec. cor., with brass cap marked

S 16 | ¼ | S 15

1916

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

Natural obstacles prevent setting post over 10 ins. in the ground.

Trees within limits too small to mark for bearing trees.

On account of impassable ledges ahead on line, I return to my offset line 15.00 chs. west; thence on offset line N.0° 02'E.40.00 chs. at

80.00 Offset east 15.00 chs. to true line and

Set an iron post, 3 ft. long, 2 ins. in dia., in mound of stone 5 ft. base, 2 ft. high, on ledge, for cor. of secs. 9, 10, 15, and 16, with brass cap marked

T 30 S R 26 E

S 9 | S 10

S 16 | S 15.

1916

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

Land, very broken, impassable sandstone ledges; sandstone formation (on true line).

Offset line on top of rim of mesa.

Soil, rocky.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

S.89° 57'W. on random line bet. secs. 9 and 16,

SUBDIVISION OF T.30 S., R.26 E.

Chains.	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.18	Intersect N. and S. line 16 lks. N. of the cor. of secs. 8, 9, 16, and 17. Thence
	N.89° 50'E. on true line bet. secs. 9 and 16,
	Descending gradually; through cedar and pinon pine timber and undergrowth of sagebrush, over mesa.
20.18	Begin abrupt descent from mesa.
37.18	Snyder Water Canyon, 330 ft. below point of abrupt descent, course NE.
40.09	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S 9 / S 16 / 1916
	from which
	A pinon pine, 9 ins. dia., bears S.32° 30'E. 19 lks. dist., marked $\frac{1}{4}$ S 16 B T
	A pinon pine, 8 ins. dia., bears N.41° W. 35 lks. dist., marked $\frac{1}{4}$ S 9 B T
	Ascend abruptly over sandstone ledges, bearing NE. and SW. Corner 50 ft. above canyon.
70.68	Point of spur, 300 ft. above $\frac{1}{4}$ sec. cor., projects NE.
	Descend abruptly over broken sandstone ledges.
80.18	The cor. of secs. 9, 10, 15, and 16, 230 ft. below spur.
	Land, west 20.18 chs. mesa; east 60.00 chs. broken sandstone ledges. Soil, on mesa, sandy loam; balance rocky covered with loose sandstone rocks.
	Undergrowth, scattering sagebrush.
	Timber, heavy cedar and pinon pine.
	N.0° 02'E. between secs. 9 and 10,
	Ascending abruptly over NE. slope, very broken; through cedar and pinon pine timber.
26.40	Spur, 120 ft. above sec. cor., projects N.10° E.
	Descend abruptly.
40.00	250 ft. below spur.

Chains.

Set an iron post 3 ft. long, 1 in. in dia., 4 ins. in the ground, with mound of stones around post, 5 ft. base, 20 ins. high, for ¼ sec. cor., with brass cap marked

S 9 | ¼ | S 10

1916

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

Natural obstacles prevent setting post over 4 ins. in the ground.

Thence continue over broken NW. slope; descending.

80.00 330 ft. below ¼ sec. cor.,

Set an iron post 3 ft. long, 2 ins. in dia., 18 ins. in the ground, with mound of stone around post, for cor. of secs. 3, 4, 9, and 10, with brass cap marked

T 30 S R 26 E

S 4 | S 3

S 9 | S 10

1916

from which

A cedar, 10 ins. dia., bears N. 34° E. 45 lks. dist. marked T 30 S R 26 E S 3 B T

A cedar, 9 ins. dia., bears S. 15° 30' E. 131 lks. dist., marked T 30 S R 26 E S 10 B T

A cedar, 11 ins. dia., bears S. 55° 30' W. 62 lks. dist., marked T 30 S R 26 E S 9 B T

A cedar, 8 ins. diam., bears N. 22° 15' W. 58 lks. dist., marked T 30 S R 26 E S 4 B T

Natural obstacles prevent setting post required distance in the ground.

Land, broken, mountainous; sandstone formation.

Soil, sandy loam, covered with sandstone boulders.

Undergrowth, scattering sagebrush.

Timber, cedar and pinon pine.

S. 89° 50' W. on random line bet. secs. 4 and 9,

40.00 Set temp. ¼ sec. cor.

Chains.	
80.02	Intersect N.and S.line 2 lks.S.of the cor.of secs.4,5,8 and 9. Thence
	N.89° 51'E.on true line bet.secs.4 and 9,
	Descend abruptly; through cedar and pinon pine timber.
35.02	Enter bottom of Snyder Water Canyon, draining N.20° E.
	Leave timber, bearing NW. and SE.
40.01	Set an iron post 3 ft.long, 1 in.in diam. 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked $\frac{1/4 \quad S \quad 4}{S \quad 9}$ 1916.
	Raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
48.42	Snyder Water Wash, in bottom of Snyder Water Canyon, drains N.20° E.
50.02	Spring bears S.41° 21'W.flows stream of clear water, 2 lks.wide, 1 in.deep.
55.02	Spring bears S.47° 50'W.
	Ascend gradually, through sagebrush and greasewood.
65.02	Enter timber bearing N.and S.
80.02	The cor.of secs.3,4,9, and 10.
	Land, broken, mountainous; sandstone formation.
	Soil, sandy loam.
	Undergrowth, sagebrush and greasewood.
	Timber, cedar and pinon pine.

	N.0° 02'E.on a random line bet.secs.3 and 4,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
169.61	Intersect N.bdy.of Tp.39 lks.W.of the cor.of secs.3 and 4, heretofore described. Thence
	S.0° 10'W.on true line bet.secs.3 and 4,
	Ascend abruptly.
6.61	Spur, projects S.60° E.
	Descend gradually.
17.61	Wash, 60 ft.below spur, drains S.60° E.

SUBDIVISION OF T.30 S., R.26 E.

Chains.	
	Ascend gradually.
26.31	Spur, 20 ft. above wash, projects E.
	Descend gradually.
39.61	Wash, 30 ft. below spur, drains E.
	Ascend gradually.
45.11	Spur, 50 ft. above wash, projects E.
	Descend gradually.
75.81	Begin abrupt descent, bearing E. and W.
89.61	Ravine, 230 ft. below spur, drains E.
	Ascend abruptly.
94.61	Spur, 50 ft. above ravine, projects E.
	Descend abruptly over broken sandstone ledges bearing NE. and SW.
96.61	Foot of abrupt descent. Descend gradually.
129.61	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked S $\frac{1}{4}$ S 3 1916 Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
138.61	Coyote Wash, 2.00 chs. wide, 20 ft. deep, drains E. into Greasewood Canyon.
	Thence over greasewood bottom.
144.61	Leave greasewood bottom; enter timber, bearing E. and W.
167.31	Trail bears N.80° W., and S.80° E.
	Ascend gradually.
169.61	The cor. of secs. 3, 4, 9, and 10, 100 ft. above Coyote Wash.
	Land, very broken, mountainous; formation sandstone.
	Soil, sandy loam, rocky, covered with broken sandstone boulders.
	Undergrowth, greasewood and sagebrush.
	Timber, cedar and pinon pine.

From the standard cor. of secs. 34 and 35, on the S. bdy.

Chains.	
	heretofore described,
	N.0° 03'E.between secs.34 and 35,
	Ascending gradually over rolling land on Island Mesa; through sagebrush undergrowth.
4.70	Enter cedar and pinon pine timber bearing NE. and SW.
7.50	Spur, 10 ft.above sec.cor., projects N.70° E.
	Descend gradually.
19.00	Leave timber bearing NE. and SW.
25.00	Swale, 30 ft.below spur, drains N.70° E.
	Ascend gradually.
37.00	Enter timber bearing NE. and SW.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked $\frac{1}{4}$ S 34 | S 35 1916 from which A pinon pine, 16 ins.dia., bears S.4° 30'E.292 lks.dist., marked $\frac{1}{4}$ S 35 B T A pinon pine, 7 ins.dia., bears S.9° 30'W. 298 lks.dist., marked $\frac{1}{4}$ S 34 B T
44.00	Leave timber; enter sagebrush opening bearing E.and W.
58.30	Trail bears NW. and SE.
75.00	Ridge, 20 ft.above swale, bears NE. and SW.
	Descend gradually.
80.00	Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.26,27,34, and 35, with brass cap marked T 30 S R 26 E S 27 | S 26 S 34 | S 35 1916
	Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.
	Land, rolling mesa.
	Soil, sandy loam.
	Undergrowth, dense sagebrush.
	Timber, cedar and pinon pine.

SUBDIVISION OF T.30 S., R.26 E.

Chains.	
	West on a random line bet.secs.27 and 34,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.11	Intersect N.and S.line 18 lks.N.of the cor.of secs.27, 28,33, and 34. Thence
	N.89° 52'E.on a true line bet.secs.27 and 34,
	Descending gradually, through cedar and pinon pine timber.
6.61	Snyder Water Canyon, rocky bottom, drains N.10° E.
	Ascend abruptly.
17.61	Leave timber, bearing N.and S. Ascend gradually.
35.11	Spur, 70 ft.above canyon, projects N.30° E.
40.05½	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked
	$\frac{1}{4}$ S 27 / S 34 1916
	Dig pits 18 x 18 x 12 ins.E.and W.of post, 3 ft.dist.
	Descend gradually.
42.41	Swale, 10 ft.below $\frac{1}{4}$ sec.cor., drains N.30° E.
60.81	Trail bears NW. and SE.
80.11	The cor.of secs. 26,27,34, and 35.
	Land, east 70.00 chs.rolling, with general N.slope; balance, mountainous, rocky slopes of Snyder Water Canyon.
	Soil, east 70.00 chs.,sandy, clay loam,coarse,1st rate, 2 ft.or more deep;balance rocky,on sandstone subsoil; 4th rate.
	Timber, cedar and pinon pine. Undergrowth, sagebrush.
	East on true line bet.secs.26 and 35,
	Over rolling mesa; through sagebrush undergrowth.
6.00	Ridge, 10 ft.above sec.cor., bears NE. and SW.
	Descend gradually.
14.84	Intersect the Utah-Colorado boundary S.0° 06'W.6.78 chs. from the 79 mile corner, heretofore described.
	Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in

Chains.

the ground, for closing cor. of secs. 26 and 35, with brass cap marked

T 30 S
R 26 E
C S 26
C S 35
U C
1916

from which

A cedar, 10 ins. dia., bears N.67° 30'W. 167 lks. dist., marked C.C T 30 S R 26 E S 26 B T

A pinon pine, 14 ins. dia., bears S.72° 30'W. 111 lks. dist., marked C C T 30 S R 26 E S 35 B T

Land, rolling, general NE. drainage.

Soil, sandy clay loam, 2 ft. or more deep; 1st rate; coarse and dry.

Timber, cedar and pinon pine. Undergrowth, sagebrush.

At a point 33.94 chs. N.0° 06'E. of the 78 mile corner on the Utah-Colorado boundary, which point is midway between the closing corners on the N. and S. boundaries of sec. 35,

Set an iron post, 3 ft. long, 1 in. in dia., 15 ins. in the ground, and 10 ins. in a mound of stone 3 ft. base, for ¼ sec. cor. sec. 35, with brass cap marked

S 35 ¼
U C
1916

from which

A pinon pine, 8 ins. in dia., bears N.62° W. 32 lks. dist., marked ¼ S 35 B T

N.0° 03'E. bet. secs. 26 and 27,

Over rolling land; descending gradually through dense sagebrush, on Island Mesa.

9.50 Trail bears N.70° W., and S.70° E.

30.00 Swale, 20 ft. below sec. cor., drains NE.

Ascend gradually.

Chains.	
37.50	Enter scattering cedar and pinon pine timber.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 27 | S 26 1916 from which A pinon pine, 14 ins. dia., bears E. 276 lks. dist. marked $\frac{1}{4}$ S 26 B T A pinon pine, 6 ins. dia., bears S. 3° W. 209 lks. dist., marked $\frac{1}{4}$ S 27 B T
58.00	Spur, 20 ft. above swale, projects E. Descend abruptly.
79.80	Bottom of ravine, 280 ft. below spur, drains N. 20° W.
80.00	Point for cor. of secs. 22, 23, 26, and 27 falls in bottom of ravine, in wash, 50 lks. wide, 10 ft. deep, where corner cannot be perpetuated. No cor. set.
	Land, broken, mesa, sandstone formation.
	Soil, sandy loam.
	Timber, cedar and pinon pine. Undergrowth, sagebrush.

	From point for cor. of secs. 22, 23, 26, and 27,
	S. 89° 52' W. on random line bet. secs. 22 and 27,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.32	Intersect N. and S. line 5 lks. S. of the cor. of secs. 21, 22, 27, and 28. Thence
	N. 89° 54' E. on true line bet. secs. 22 and 27,
	Over rolling land, on Island Mesa; through cedar and pinon pine timber, scattering; and dense sagebrush.
33.82	Trail bears NW. and SE.
40.16	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 22 | S 27 | 1916 | from which

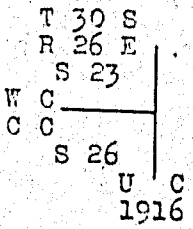
Chains.	
	A pinon pine, 8 ins. dia., bears N.25° 30'E. 304 lks. dist., marked ½ S 22 B T
	A pinon pine, 7 ins. dia., bears S.7° E. 131 lks. dist., marked ½ S 27 B T
59.32	Enter heavy timber. Ascend gradually.
60.32	Ridge, bears NW. and SE.
	Descend abruptly over precipitous sandstone ledges.
60.32	The cor. of secs. 22, 23, 26, and 27 (True point for cor.) 3.60 chs. S.0° 03'W. of witness corner.
	Land, rolling mesa, and mountainous, with precipitous sandstone ledges; general NW. slope.
	Soil, sandy loam.
	Undergrowth, sagebrush. Good grazing.
	Timber, scattering cedar and pinon pine.

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

East on true line bet. secs. 23 and 26,

Over rough, mountainous land, and broken sandstone ledges; through cedar and pinon pine timber, and scattering sagebrush; ascending abruptly.

13.00	Top of steep ledgy ascent, 190 ft. above point for sec. cor., slopes S. Descend.
15.01	Intersect Utah-Colorado boundary, 5.59 chs. S.0° 05'W. of the 80 mile corner on the boundary. Point falls in rocky slide in gulch draining S., where post cannot be set; therefore at
14.83	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for witness corner to closing cor. of secs. 23 and 26, with brass cap marked



Chains.

from which

A pinon pine, 5 ins.dia., bears N.67° W.46 lks. dist., marked W C C C T 30 S R 26 E S 23 B T

A pinon pine, 5 ins.dia., bears S.68°W.61 lks. dist. marked W C C C T 30 S R 26 E S 26 B T

Land, very rough, mountainous, and sandstone ledges; SW.slope.

Soil, rocky, stony.

Undergrowth, scattering sagebrush.

Timber, cedar and pinon pine.

At a point 33.24 chs.N.0° 05'E.of the 79 mile corner on the Utah-Colorado boundary, which point is midway between the closing corners on the N.and S.boundaries of sec.26,

Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor.sec.26, with brass cap marked

¼
S 26
C
1916

from which

A pinon pine, 5 ins.dia., bears west 30 lks.dist. marked ¼ S 26 B T

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

N.0° 03'E.bet.secs.22 and 23,

Over very broken land,sandstone formation;through cedar and pinon pine timber,and sagebrush undergrowth; ascending.

3.60 Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for witness cor.to cor.of secs.22,23,26, and 27, with brass cap marked

T 30 S R 26 E
S 22 | S 23
W | C
S 27 | S 26
1916

Chains.	
	from which
	A cedar, 9 ins.dia., bears S.38° 30'E. 52 lks. dist., marked W C T 30 S R 26 E S 23 B T
	A pinon pine, 12 ins.dia., bears S.46° W. 159 lks.dist.marked W C T 30 S R 26 E S 22 B T
	Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
5.00	Spur, 10 ft.above witness cor., projects E.
	Descend gradually.
9.00	Ravine, 10 ft.below spur, drains N.20° W.
	Ascend abruptly.
13.00	Spur, 50 ft.above ravine, projects N.70° W.
	Descend abruptly.
19.40	Ravine, 50 ft.below spur, drains N.70° W.
	Ascend abruptly.
30.00	Enter mesa, bearing E.and W.
40.00	Set an iron post, 3 ft. long, 1 in.in dia., on ledge, in mound of stone, for ¼ sec.cor., with brass cap mkd. S 22 | ¼ | S 23 / 1916
	from which
	A pinon pine, 6 ins.dia., bears N.51° 43'E.58 lks. dist., marked ¼ S 23 B T
	A cedar, 8 ins.dia., bears N.55° W.31 lks.dist. marked ¼ S 22 B T
63.60	Descend abruptly over N.slope, bearing NE. and SW.
74.50	Bottom of ravine, draining W., 80 ft.below mesa.
	Ascend gradually.
80.00	Point for sec.cor.falls in wash, where corner cannot be perpetuated; wash 10 lks.wide, 3 ft.deep, drains SW. Corner not set.
81.30	Set an iron post, 3 ft.long, 2 ins.in dia., 6 ins.in the ground, for witness corner to corner of secs.14, 15,22, and 23, mound of stone around post, 3 ft.base 20 ins.high, brass cap marked

Chains.

T 30 S R 26 E

S 15	S 14
W	C
S 22	S 23

1916

from which

A pinon pine, 10 ins. dia., bears N. 12° 45'E. 32 lks. dist., marked W C T 30 S R 26 E S 14 B T

A pinon pine, 8 ins. dia., bears S. 54° 45'E. 50 lks. dist., marked W C T 30 S R 26 E S 14 B T

A cedar, 6 ins. dia., bears S. 67° 45'W. 45 lks. dist., marked W C T 30 S R 26 E S 15 B T

A pinon pine, 8 ins. dia., bears N. 66° W. 53 lks. dist., marked W C T 30 S R 26 E S 15 B T

Land, broken, mountainous; sandstone formation.

Soil, sandy loam.

Timber, cedar and pinon pine. Undergrowth, sagebrush.

From true point for cor. of secs. 14, 15, 22, and 23,

S. 89° 54'W. on random line bet. secs. 15 and 22,

40.00 Set temp. ¼ sec. cor.

80.19 Intersect N. and S. line 2 lks. N. of the cor. of secs. 15, 16, 21, and 22. Thence

N. 89° 53'E. on true line bet. secs. 15 and 22,

Descending abruptly, over broken mountainous land; through cedar and pinon pine timber.

13.19 Ravine, drains N. 20° W.

40.09½ Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S 15 / S 22 / 1916

from which

A cedar, 8 ins. dia., bears N. 71° E. 22 lks. dist. marked ¼ S 15 B T

A cedar, 9 ins. dia., bears S. 34° 30'E. 31 lks. dist., marked ¼ S 22 B T

Chains.	
	Ascend abruptly over sandstone ledges.
68.39	Spur, 500 ft. above ravine, projects SW.
	Descend abruptly over sandstone ledges.
80.19	True point for cor. of secs. 14, 15, 22, and 23, 1.30 chs. S.0° .03'W. of witness corner.
	Land, broken, mountainous; sandstone ledges; formation sandstone.
	Soil, sandy loam, rocky and stony.
	Undergrowth, scattering sagebrush.
	Timber, cedar and pinon pine.

From true point for cor. of secs. 14, 15, 22, and 23,

East on true line bet. secs. 14 and 23,

Ascending abruptly, over precipitous sandstone ledges; through cedar and pinon pine timber.

10.70 Intersect Utah-Colorado boundary line 5.28 chs. S.7° 12' E. of the 81 mile corner on the boundary, heretofore described.

Set an iron post, 3 ft. long, 2 ins. in dia., 8 ins. in the ground, with mound of stone around post, for closing corner of secs. 14 and 23, with brass cap marked

T 30 S
R 26 E
C S 14
C S 23
U. C
1916

from which

A cedar, 9 ins. dia., bears N.49° 45'W. 132 lks. dist., marked C C T 30 S R 26 E S 14 B T

A pinon pine, 8 ins. dia., bears S.70° W. 105 lks. dist., marked C C T 30 S R 26 E S 23 B T

Land, very broken, mountainous; precipitous sandstone ledges.

Soil, sandy loam, rocky on ledges.

Timber, cedar and pinon pine.

Chains. At a point 34.41 chs.N.0° 07'W.of the 80 mile corner on the Utah-Colorado boundary, which point is midway between the closing corners on the N.and S.boundaries of sec.23,

Set an iron post,3 ft.long, 1 in.in dia., 26 ins.in the ground, for 1/4 sec.cor., with brass cap marked

1/4
S 23
U | C
1916

from which

A pinon pine, 10 ins.dia., bears N.75°W.50 lks. dist., marked 1/4 S 23 B T

From true point for cor.of secs.14,15,22, and 23, N.0° 03'E.bet.secs.14 and 15,

Ascending abruptly over broken mesa; formation sandstone; through cedar and pinon pine timber.

1.30 The witness cor.to cor.of secs.14,15,22, and 23.

10.20 Top of mesa, bearing E.and W., 110 ft.above true corner point.

18.50 N.edge of mesa, bearing NE. and SW.

Descend abruptly over sandstone ledges.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 10 ins.in the ground, with mound of stone around post, for 1/4 sec. cor., with brass cap marked

1/4
S 15 | S 14
1916

from which

A cedar, 10 ins.dia., bears S.15° E. 7 lks.dist. marked 1/4 S 14 B T

A cedar, 12 ins.dia., bears N.88° W. 29 lks.dist. marked 1/4 S 15 B T

Natural obstacles prevent setting post over 10 ins.in the ground.

80.00 Set an iron post, 3 ft.long, 2 ins.in dia., 4 ins.in the

Chains.

ground, with mound of stone around post, 5 ft. base, 22 ins. high, for cor. of secs. 10, 11, 14, and 15, with brass cap marked

T 30 S R 26 E
S 10 | S 11
S 15 | S 14.
1916

from which

A pinon pine, 7 ins. dia., bears N. 13° 15' E. 17 lks. dist., marked T 30 S R 26 E S 11 B T

A cedar, 9 ins. dia., bears S. 62° E. 51 lks. dist. marked T 30 S R 26 E S 14 B T

A cedar, 12 ins. dia., bears S. 30° 30' W. 16 lks. dist., marked T 30 S R 26 E S 15 B T

A pinon pine, 7 ins. dia., bears N. 12° W. 44 lks. dist., marked T 30 S R 26 E S 10 B T

Natural obstacles prevent setting post over 4 ins. in the ground.

Land, very broken, mountainous, and mesa.

Soil, sandy loam.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

S. 89° 53' W. on random line bet. secs. 10 and 15,

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line 28 lks. S. of the cor. of secs. 9, 10, 15, and 16. Thence

S. 89° 55' E. on true line bet. secs. 10 and 15,

Descending abruptly over broken sandstone ledges; through cedar and pinon pine timber.

27.80 Canyon, drains N. 20° E.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, with mound of stone around post, for $\frac{1}{4}$ sec. cor., with brass cap marked

Chains.

$\frac{1}{4}$ S 10 / S 15
1916

from which

A pinon pine, 12 ins. dia., bears N. 36° 15' E. 160 lks. dist., marked $\frac{1}{4}$ S 10 B T

A pinon pine, 8 ins. dia., bears S. 4° E. 158 lks. dist., marked $\frac{1}{4}$ S 15 B T

Natural obstacles prevent setting post over 14 ins. in the ground.

80.00 The cor. of secs. 10, 11, 14, and 15, 350 ft. above canyon.

Land, broken, mountainous; formation sandstone.

Soil, sandy loam, mixed with broken sandstone.

Timber, cedar and pinon pine.

East on true line between secs. 11 and 14,

Over rough, mountainous NW. slope; through cedar and pinon pine timber and scattering sagebrush.

1.13 Intersect Utah-Colorado boundary line 5.27 chs. S. 6° 52' E. of the 82 mile corner on the boundary, heretofore described.

Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground, with mound of stone around post, for closing cor. of secs. 11 and 14, with brass cap marked

T 30 S
R 26 E
C S 11
C S 14
U C
1916

from which

A cedar, 10 ins. dia., bears N. 44° W. 27 lks. dist., marked C C T 30 S R 26 E S 11 B T

A cedar, 9 ins. dia., bears S. 45° 15' W. 27 lks. dist., marked C C T 30 S R 26 E S 14 B T

Land, broken mesa; formation sandstone

Soil, sandy loam.

Chains.

Undergrowth, scattering sagebrush.

Timber, cedar and pinon pine.

At a point 35.02 chs.N.6° 52'W.of the 81 mile corner on the Utah-Colorado boundary, which point is midway between the closing corners on the N.and S.boundaries of sec.14,

Set an iron post 3 ft.long, 1 in.in dia., 20 ins.in the ground, and 6 ins.in a mound of stone 2 ft.base, for ¼ sec.cor.sec.14, with brass cap marked

¼
S 14
U | C
1916

from which

A cedar, 6 ins.dia., bears S.45° W. 9 lks.dist. marked ¼ S 14 B T

N.0° 03'E.between secs.10 and 11,

Descending abruptly, over broken land, sandstone formation; through cedar and pinon pine timber.

8.89 Intersect Utah-Colorado boundary line, 3.69 chs.N.7° 08' W.of the 82 mile corner on the boundary, heretofore described.

Set an iron post, 3 ft.long, 2 ins.in dia., 4 ins.in the ground, with mound of stone around post, for closing corner of secs.10 and 11, with brass cap marked

T 30 S
R 26 E C
S 10 | S 11
U
C C
1916

from which

A pinon pine, 8 ins.dia., bears S.1° E. 95 lks. dist., marked C C T 30 S R 26 E S 11 B T

A cedar, 14 ins.dia., bears S.74° 30'W. 28 lks. dist., marked C C T 30 S R 26 E S 10 B T

Chains.

Natural obstacles prevent setting post over 4 ins. in the ground.

Land, broken; sandstone formation.

Soil, sandy loam, covered with sandstone boulders.

Timber, cedar and pinon pine.

At a point 35.20 chs. N.7° 08'W. of S2 mile corner on the Utah-Colorado boundary,

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. sec. 10, with brass cap marked

¼
S 10 | C
U
1916

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

From the corner of secs. 3, 4, 9, and 10,

East on true line bet. secs. 3 and 10,

Ascending gradually, over broken land, sandstone formation; through cedar and pinon pine timber and undergrowth of sagebrush.

5.50 Trail bears N.70° W., and S.70° E.

35.50 Spur, 70 ft. above sec. cor., projects N.

Descend abruptly.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 8 ins. in the ground, with mound of stone around post, for ¼ sec. cor. with brass cap marked

¼ S 3
S 10
1916

from which

A cedar, 12 ins. dia., bears N.38° E. 6 lks. dist. marked ¼ S 3 B T

A pinon pine, 5 ins. dia., bears S.27° E. 40 lks. dist., marked ¼ S 10 B T

48.00 Ravine, 120 ft. below ¼ sec. cor., drains N.

Ascend abruptly.

Chains.

56.50 Top of spur, 210 ft. above ravine, projects N.

Descend abruptly.

61.70 Ravine, 100 ft. below spur, drains N.

Ascend abruptly.

71.22 Intersect Utah-Colorado boundary line 3.77 chs. S. 7° 08' E. of the 83 mile corner on the boundary, heretofore described.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 3 and 10, with brass cap marked

T 30 S
R 26 E
C S 3
C S 10
U C
1916

from which

A cedar, 10 ins. dia., bears N. 67° 30' W. 230 lks. dist., marked C C T 30 S R 26 E S 3 B T

A cedar, 16 ins. dia., bears S. 63° 30' W. 85 lks. dist., marked C C T 30 S R 26 E S 10 B T

Land, very broken; sandstone formation.

Soil, sandy loam; very rocky.

Undergrowth, sagebrush.

Timber, cedar and pinon pine.

The true point for ¼ sec. cor. on E. bdy. of sec. 3 falls on inaccessible sandstone ledges; therefore at a point 9.66 chs. N. 7° 10' W. of true point, or 46.20 chs. N. 7° 10' W. of the 83 mile corner on the Utah-Colorado boundary

Set a sandstone 18 x 10 x 5 ins., 14 ins. in the ground, for witness corner to ¼ sec. cor. sec. 3, marked W C ¼ S 3 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist.

Impracticable to set iron post at this point.

BOUNDARIES OF T.30 S., R.26 E.

Latitudes, Departures, and Closing Errors.

Lines Designated	True Bearing	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
Utah-Colorado Bdy.	N.0°02'W.	6.08	6.08			
	N.0°06'E.	80.75	80.75	.....	14	.....
	N.0°08'E.	78.86	78.86	.....	19	.....
	N.0°07'W.	42.98	42.98	.....	....1.	.08
	N.7°12'W.	36.98	36.69	.....	.....	4.63
	N.6°52'W.	80.60	80.01	.....	.....	9.64
	N.7°03'W.	79.44	78.83	.....	.....	9.86
	N.7°10'W.	84.22	83.56	.....	.....	10.51
	N.7°01'W.	83.30	82.68	.....	.....	10.18
North Boundary	West	289.80	.....	.....	.....	289.80
West Boundary	South	569.59	.....	569.59	.....	.....
South Boundary	East	334.95	.....	.....	334.95	.....
Convergency						.44
T o t a l s			570.44 569.59	569.59	335.28 335.14	335.14
Errors in lat. and dep.			.85		.14	

This township is, generally, a rough, mountainous, broken mesa. Island Mesa covers most of the SW.portion, and has a general NE.slope into Coyote Wash and Greasewood Canyon. Lisbon Valley covers a small portion of the SW. corner of the township, a rolling valley bottom. Greasewood Canyon in secs.3 and 4, is a flat bottom, profusely covered with greasewood. Several large sagebrush flats are on Island Mesa, where the soil is a red, sandy, clay loam, from 1 to 5 ft.deep, on a sandstone subsoil, cultivable; but most of the land is covered with pinon pine and cedar timber, where the soil is stony.

Several springs and water holes are found throughout the township. Greasewood Canyon is moist, and water comes to the surface occasionally. Water is running in Coyote Wash in sec.6. There is a fairly large spring in NW¼ of sec.7, good pure water; another in N.½ of sec.9; a good clear spring in NW¼ of sec.16; and water holes in Snyder Water Canyon in SW¼ of sec.16 and NW¼ of sec.21; also a seep spring in SW¼ of sec.34.

There is quite a heavy growth of cedar and pinon pine throughout the township.

Copper indications were found in a hill in SW¼ of sec.31, and carnotite indication in the rim of bench in S.½ of sec.32.

There are no settlers in the township. There are no improvements in the township, except some fencing in secs.20, 21, and 29, said to be owned by W.H.Coefield.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, _____, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of _____

_____

_____

_____

_____

_____

_____

of the _____ Meridian, in the State of _____ which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

_____ _____

U. S. Surveyor.

~~CERTIFICATE~~ TRANSITMAN.

FINAL ~~OATH~~ OF UNITED STATES ~~SURVEYOR~~.

I, Howard G. Mason Transitman certify on honor, U. S. ~~Surveyor~~, do ~~solemnly swear~~ that, in pursuan of special instructions received from the U. S. Surveyor General for Utah bearing date of the 3d day of February, 191 6 I have well, faithfully, and trul in my own proper person, and in strict conformity with said instructions, the Manual of Surveyi Instructions, and the laws of the United States, surveyed all those parts or portions of the Sixt Standard Parallel South, through Range No. 26 East; and the South Boundary of Township No.29 South, Range No.26 East

Base and Meridian, in the State of Utah, which are represented i and Index diagram on page 2 of same and on dates shown on said diagr the foregoing field notes, as having been executed by me, and under my direction, and I do furth certify on honor ~~solemnly swear~~ that all the corners of said survey have been established and perpetuated in strict accord ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyo General for Utah and in the specific manner described in the field notes, and tha the foregoing are the original field notes of such survey.

Howard G. Mason
U. S. Surveyor.
U. S. Transitman.

~~Subscribed by said~~, and ~~sworn to before me~~ this 1st day of May, 1917

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 191

The foregoing field notes of the survey of

executed by

under his special instructions dated , 191 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

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. Surveyor General.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, ..., U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of .....

.....

.....

.....

.....

.....

.....

of the ..... Meridian, in the State of .....

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	

Subscribed and certified to before me on the dates of the final service as shown above.

.....

U. S. Surveyor.

FINAL ~~OATH~~ CERTIFICATE OF UNITED STATES SURVEYOR.

I, Thomas C. Rathbone, U. S. Surveyor, do ~~solemnly swear~~ certify on honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 3d day of February, 1916, 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 the retracement of the Utah-Colorado Boundary line from 77 to 85 mile corner and the survey of the subdivisional lines of Township No. 30 South, Range No. 26 East

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and index diagram on page 2 of same as having been executed by me, and under my direction and on the dates shown on said dia and I do further ~~solemnly swear~~ certify on honor 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 U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Thos C Rathbone
May 8, 1917.
U. S. Surveyor.

Subscribed ~~by said~~ Thomas C. Rathbone, ~~and sworn to before me this day of, 191~~

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 8, 1917

The foregoing field notes of the survey of the Sixth Standard Parallel South, through Range No. 26 East; retracement of the Utah-Colorado Boundary line from 78 to 85 mile corners; survey of the South Boundary of Township No. 29 South, Range No. 26 East; and the subdivisional lines of Township No. 30 South, Range No. 26 East of the Salt Lake Base and Meridian, Utah,

executed by Thomas C. Rathbone and Howard G. Mason under ~~his~~ their special instructions dated February 3, 1916, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and surveys they describe, are hereby approved.

C. C. Thoresen
U. S. Surveyor General.

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.

6—2761

U. S. Surveyor General.