Volume

# #

R0434

BOOK A-434 A.

FIELD NOTES

OF THE SURVEY OF THE

NORTH, SOUTH, EAST AND WEST BOUNDARIES AND THE SUBDIVISION OF

T. 43 S., R. 3 E.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Thos. C. Rathbone, U. S. Surveyor.

and

Lyman E. Bolinger, U. S. Transitman.

In the capacity of U. S. Surveyor and Transitman, under instructions dated Feb. 1, *191 6, issued by the United States Surveyor General to govern surveys included in Group No.* 51, *which were approved by the Commissioner of the General Land Office,* April 4, *191 6* and assignment instructions dated Oct. 1, 1917, issued by the Assistant Supervisor of Surveys for Utah.

Survey commenced Sept. 29, *191 7*

Survey completed Nov. 13, *191 8.*

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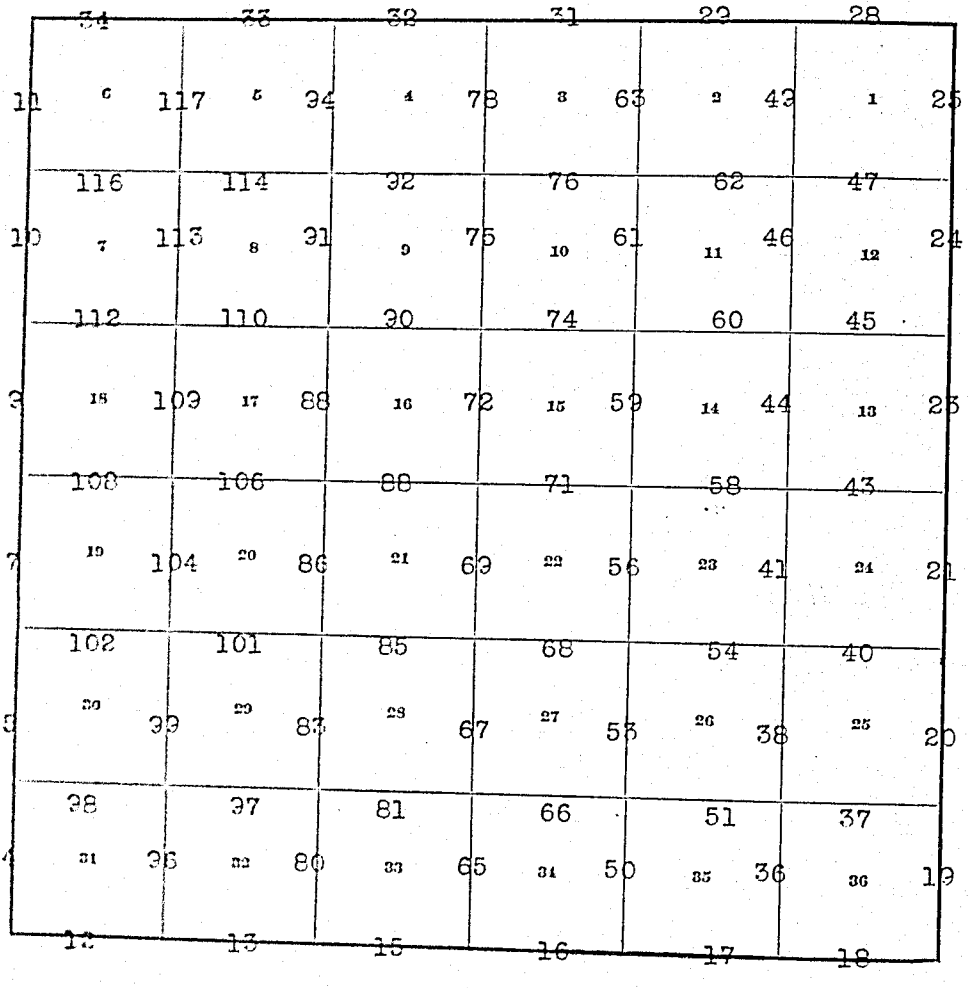
INDEX DIAGRAM.

Township 43 SOUTH ..... *Range* 3 EAST.



Names and Duties of Assistants.

Melvin Lewis	first assistant	
Ira Mace	" "	
Pharo Phelps	second "	
David Gustavson	" "	
Warren Clark	" "	and flagman.
Donald Kimball	flagman.	
Frank Johnson	"	
Barnie Isenhouer	cornerman.	
Verden John	"	

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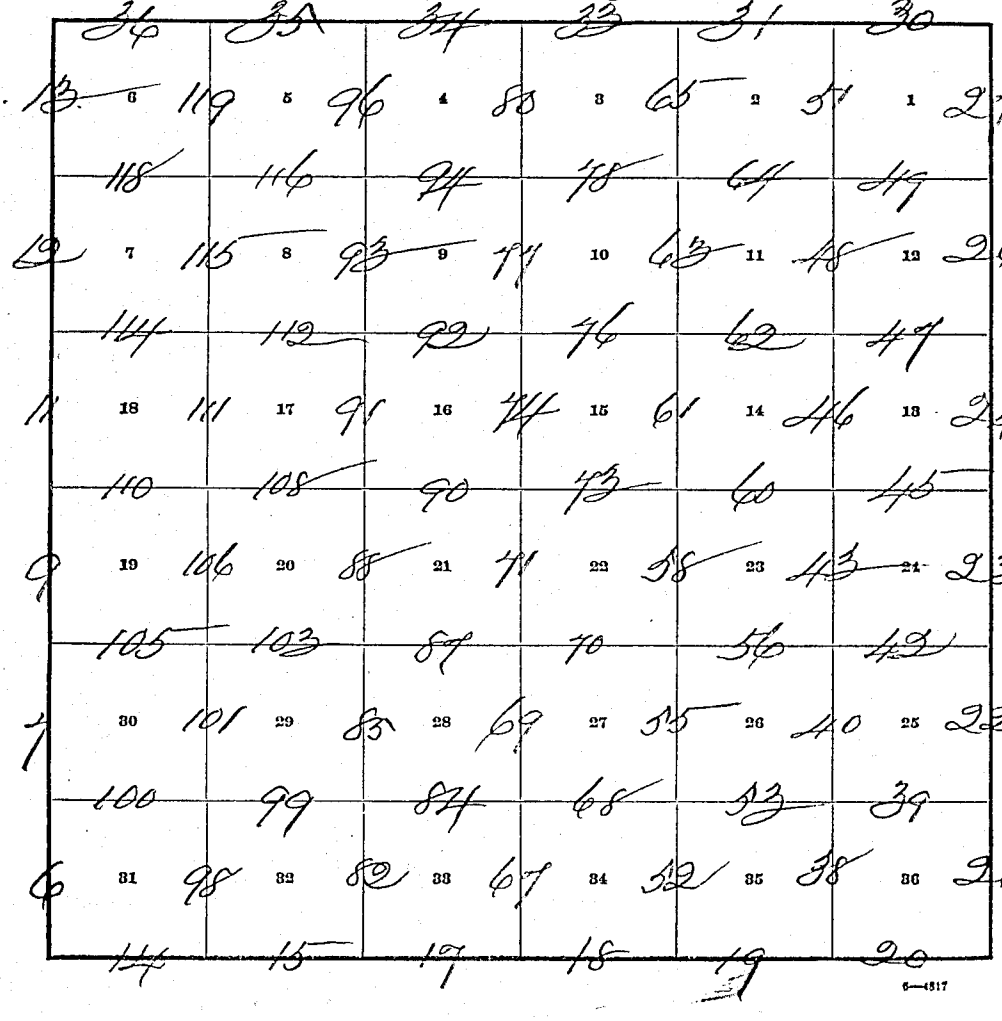
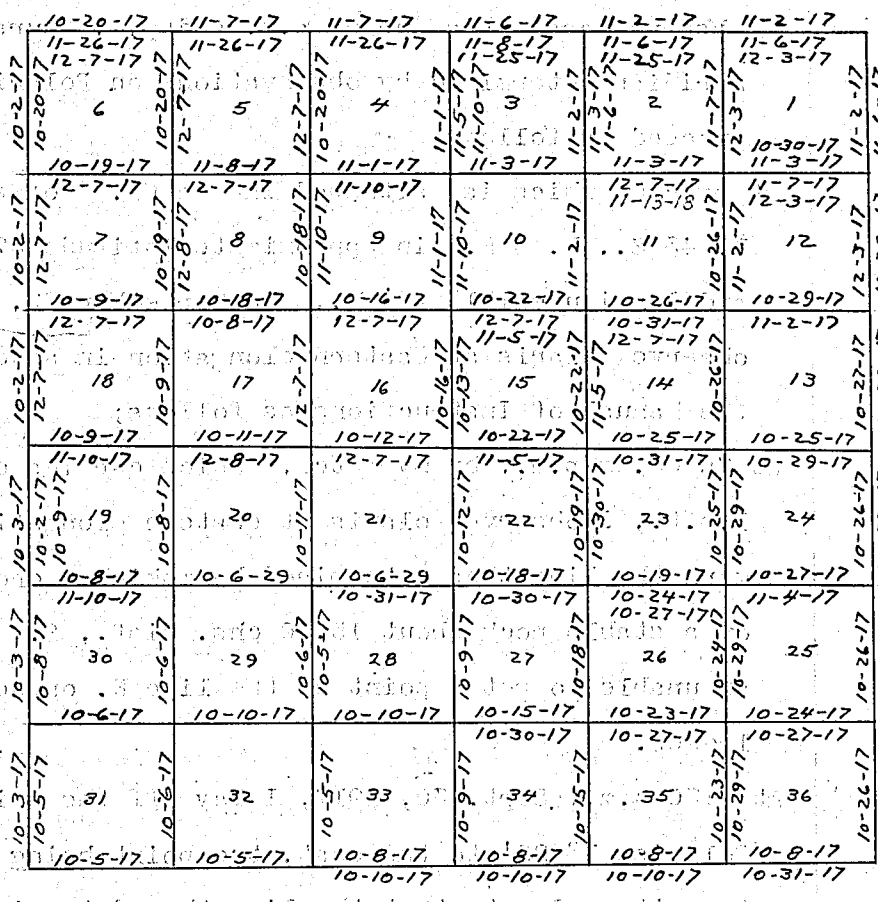
INDEX DIAGRAM.

Township 43 S, Range 3 E



6—4517

Date Diagram.



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

——— Lines along which dates are colored red were surveyed by Lyman E. Bolinger, U.S.Transitman.

——— and green lines by Andrew Nelson, U.S.Transitman.

Survey commenced Sept. 29, 1917, and executed with W. and L.E. Gurley light mountain transit number 20, memo D., with Burt solar attachment and Young and Sons. light mountain transit number 8584, with Smith solar attachment. The horizontal limbs of both transits are provided with two double verniers placed opposite to each other, 180 degrees apart, readin g 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 Assistant Supervisor of Surveys for Utah, Oct. 1, 1917, conditional upon satisfactory field test.

I examine the adjustments of the W. and L.E.Gurley transit and find them correct, then to test the solar apparati,

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;

At my camp which is situated in the NW. ¼ of sec. 29, T. 43 S., R. 3 E., in approximate latitude 37° 04' N., and longitude 111° 40' W., on September 29, 1917, I observe Polaris at Eastern elongation in accordance with the Manual of Instructions as follows;

At 7h 03.2m p.m., by my watch, which carries correct l.m.t., I observe Polaris at eastern elongation, and mark the line thus determined by making a cross mark on a stable rock about 15.00 chs. dist., S. as I am unable to get a point on the line N. on account of ledges.

At 7;30 a.m., Sept. 30, 1917, I lay off the azimuth of Polaris, 1° 25' to the east, the point being S. of the transit. I note that the line thus determined intersects a well defined round bush on top of a hill about two miles south.

Sept. 30, 1917, at 8;00 a.m. apparent time, with the transit at the Polaris station, I set off 37° 04' on the latitude arc. and 2° 42½' S., on the declination arc and determine a meridian with the solar attachment of the W. and L. E. Gurley transit and note that the meridian thus determined agrees with the Polaris meridian.

Note:

At the same time Mr. Lyman E. Bolinger, after testing and finding the adjustments of Young and Sons. transit Number 8584 correct, with the same settings on the latitude and declination arcs, determines a meridian with the solar apparatus of that transit and finds that the meridian thus determined agrees with the Polaris meridian.

At apparant noon I set off 2° 50' S. on the declination arc. of the W. and L.E.Gurley transit and observe the

sun in the meridian, with the resulting latitude of 37° 04' N.

Note;

At the same time and with the same setting on the declination arc of transit number 8584, Mr. Lyman E. Bolinger, observes the sun in the meridian with that transit and finds that the resulting latitude is 37° 04' N.

At 3:30 p.m. apparent time I set off 37° 04' N. on the latitude arc of the Gurley transit and 2° 50' S. on the declination arc and determine a meridian with the solar apparatus and find that the meridian thus determined agrees with the Polaris meridian.

Note:

At the same time and with the same settings on the latitude and declination arcs of transit number 8584, Mr. Lyman E. Bolinger determines a meridian with the solar apparatus of that instrument and notes that the meridian thus determined agrees with the Polaris meridian.

I therefore conclude that the adjustments of both instruments are satisfactory, and that the instruments continued in satisfactory adjustment throughout the course of the survey was evidenced by frequent tests on the Polaris meridian and by daily observations for latitude, whenever possible.

Five-chain tapes of steel, and clinometers for determining slope angles were used in measuring all distances, and the tapes were frequently tested by comparison with a standard one-chain steel tape kept for this purpose exclusively.

The magnetic bearing of the true meridian is N. 15° 30' W.

SURVEY OF THE W. BDY. OF T. 43 S., R. 3 E.

From the cor. of T. 42 and 43 S., R. 2 and 3 E., which

Chains	
	is an iron post, 16 ins. above ground, firmly set in a mound of stone, properly mkd. and witnessed for the cor. of secs. 1, 6, 31 and 36, T. 42 and 43 S., R. 2 and 3 E. Post is 3 ins. dia.
	South on random line setting temporary points at each 40.00 and 80.00 chs.
480.33	Intersect the random S. boundary of T. 43 S., R. 2 E.
	At intersection,
	On open, rolling sandy bench,
	Set an iron post, 3 ft. long, 3 ins. dia., 30 ins. in the ground, for the cor. of T. 43 and 44 S., R. 2 and 3 E., with brass cap mkd.,

T 43 S
R 2 E | R 3 E

S 36	S 31
S 1	S 6

T 44 S

1917

	Dig pits, 24 x 24 x 12 ins., on each line, N. E. and W., of the cor. 4 ft. dist., and S. of the cor. 3 ft. dist.
	Thence,
	North on true line, bet. secs. 31 and 36.
	Over rolling sandy bench land through scattered mountain rush, greasewood, shadscale, oose-root, rabbit-brush and grass undergrowth.
30.90	5.00 chs. E. in a ravine, draining N.E., are pools of good water, in the sandstone.
40.00	On nearly level sandy bench, 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. 31 and 36, with brass cap mkd.,

¼

S 36 | S 31

1917

	Dig pits, 18 x 18 x 12 ins., N. and S. of the cor. 3 ft. dist.

Chains	
	Desc. gradually over gradual NE. slope.
60.90	Rocky ravine, 20 ft. below ½ cor., course SE. Asc. gradually over rocky SW. slope. Enter scattered cedar and pinon.
80.00	Rocky ravine, same as at 60.90 chs., course SW. Impracticable to set cor. here as the gound is unsafe.
	Asc. gradually.
80.33	On narrow bench between ravines, 10 ft. above ravine, Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for the W. C. to the cor. of secs. 25, 30, 31 and 36, with brass cap mkd.,

T 43 S.
R 2 E | R 3 E

S 25	S 30
S 36	S 31

WC
1917

from which

A cedar, 10 ins. dia., bears S. 63½° E., 103 lks. dist., mkd., W C T 43 S R 3 E S 31 B T.

A cedar, 7 ins. dia., bears N. 11° E., 58 lks. dist., mkd., W C T 43 S R 3 E S 30 B T.

No bearing trees available in secs. 25, or 36, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.

Land, rolling sandy bench, except extreme N. portion which is rugged sandstone ledges, general drainage to SW. and NE.

Soil, sandy loam, on S. portion, subsoil same, N. portion rocky, shallow sandy loam, on sandstone bedrock.

Timber, scattered cedar and pinon on N. portion.

Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush and grass. Fair grazing.

North on true line, bet. secs. 25 and 30. From true cor. point. Over rough, rugged sandstone ledges, asc. abruptly through scattered mountain rush, shadscale, oose-root, grease-

Chains	
	wood, rabbit-brush and grass.
0.33	The W.C. to cor. of secs. 25, 30, 31, and 36
0.30.	Ravine, 10 ft. below sec. cor., course SE. Asc. abruptly over rugged sandstone ledges.
8.40	Top of ledges and rim of rocky mesa., 230 ft. above ravine, bears E. and W. Thence over rocky mesa.
14.30	N. rim of mesa, level with S. rim, bears E. and W. Desc. abruptly over sandstone ledges.
25.07	Base of inaccessible sandstone butte, almost round, 4.00 chs. dia., 220 ft. high, offset 1.20 chs. dist., E. thence N. on offset line.
30.07	Offset 1.20 chs. dist. W. to true line at base of sandstone butte, thence N. on true line. Continue desc. of sandstone ledges.
36.40	Steep sandstone ravine, 80 ft. deep, 280 ft. below mesa, course E. Asc. abruptly over sandston e ledges along ravine.
40.00	On bare sandstone between ravines, 90 ft. above ravine. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 25 and 30, with brass cap mkd..,
	¼ S 25 | S 30 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Desc. over sandstone ledges into box ravine.
40.90	Box ravine, 20 ft. below ¼ cor., course E. Asc. abruptly over sandstone ledges, bear with ravine.
53.40	Top of ledges and rim of broken mesa, 180 ft. above ravine, bears E. and W. Thence over rolling, rocky mesa.
58.40	N. rim of mesa, level with S. rim, bears NE. and NW. Desc. abruptly over rocky, ledgy N. slope.
80.00	At base of sandstone ledges, 200 ft. below mesa, bear NE. and SW.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the

Chains	
	ground for the cor. of secs. 19, 24, 25 and 30, with brass cap mkd.,
	T 43 S R 2 E R 3 E S 24 | S 19 S 25 | S 30 1917
	from which
	An x mark on a vertical sandstone wall, bears S. 39½° E., 44 lks. dist., mkd., T 43 S R 3 E S 30 B C.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the sec. cor.
	Land, rough mountainous, with sandstone ledges and rocky narrow mesas, general drainage to the E.
	Soil, shallow, rocky, sandy loam, on sandstone bedrock.
	Timber, none, except a few cedar and pinon trees around the sec. cor. at beginning of mile.
	Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, rabbitbrush and grass. Poor grazing.
	North on true line, bet. secs. 19 and 24.
	Over rolling sandy bench land, desc. gradually through scattered mountain rush, shadscale, oose-root, grease-wood, rabbit-brush, grass and sagebrush undergrowth.
7.40	Sandy ravine, 20 ft. below sec. cor., course NE. Asc. gradually over sandy SE. slope.
20.30	Top of ascent, 30 ft. above ravine, bears NE. and SW. Thence over rolling sandy bench land.
25.30	Ravine, 30 ft. deep, course E. Asc. gradually.
40.00	On sandy S. side of ravine, 30 ft. above ravine,
	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.,
	S 24 | S 19 1917

Chains

Dig pits, 18 x 18 x 12 ins., N. and S. of the cor., 3 ft. dist.

Desc. into ravine over sandstone ledges.

41.00 Steep sandstone ravine, 30 ft. below ½ cor., course E. Asc. over sandstone ledges.

50.50 Rim of sandy bench land and S. rim of Wahweap canyon, 40 ft. above ravine, bears NW. and SE. Desc. abruptly over sand stone ledges, bear with canyon.

57.00 Base of ledges, 140 ft. below bench, bear NW. and SE. Thence over sandy gravelly, level canyon bottom.

67.00 W. bank of Wahweap wash, bears N. 10°W. and S. 10° E. Thence over creek bottom.

80.00 Wahweap creek, 10 ft. below bank, course S. 10° E., small stream of alkali and magnesia water, 10 lks. wide and 3 ins. deep.. Impracticable to set cor. here as it would soon wash out by floods.

81.50 At base of sandstone ledges, level with creek, on north bank of same.

Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in the ground to bedrock, 14 ins. in a mound of stone, 3 ft. base, for the W. C. to the cor. of secs. 13, 18, 19 and 24, with brass cap mkd.,

T 43 S
R 2 E | R 3 E

S 13	S 18
S 24	S 19

W C
1317

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the corr. cor.

Land, S. portion rolling sandy bench, cut by rocky and sandy ravines draining to the E. N. portion Wahweap canyon, sandstone ledges along rim on canyon. Drains S. 10° E. about 10.00 chs. dist. thence S. 60° E.

Soil, on south portion sandy loam, subsoil same, sandstone along ravines, N. portion rocky, sandy gravel,

Chains	
	subsoil same.
	Timber, none.
	Undergrowth, scattered mountain mah., shadscale, sage-root, greasewood, sarcobrush, rabbit-brush and grass.
	Fair grazing.

	North on true line, bet. secs. 13 and 18, from the true cor. point.
	Over rocky, gravely Wahweap creek bottom, through scattered shadscale undergrowth.
10.20	E. or E. bank of Wahweap wash, level with creek, bears N. 40 W. and S. 10° E. Enter scattered mountain mah., greasewood, and grass undergrowth., bears with wash.
11.50	The witness cor. to the cor. of secs. 13, 18, 19 and 24.
17.20	Base of vertical sandstone wall, 10 ft. above creek, bears E. and W. Asc. abruptly.
18.70	Top of sandstone wall and rim of rocky mesa, 100 ft. above creek, bear E. and W. Thence over rocky, broken mesa. Asc. over broken sandstone ledges.
21.50	Top of broken sandstone ledges, 50 ft. above rim of mesa, bear E. and W. Thence over broken, rocky mesa.
22.20	Sandstone spur, level with top of ledges, projects W. about 10.00 chs. dist., Pass. over broken sandstone ledges.
38.70	Rocky ravine, 40 ft. below spur, course W. Thence asc. over rocky S. slope.
40.00	On rocky S. slope, 70 ft. above ravine,
	Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 36 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 17 and 18, with brass cap mkd.,

S 13 | S 18

17 | 17

Raise a mound of stone, 2 ft. base, 1½ ft. high, of the cor.

Chains	
52.20	Leave sandstone, undergrowth becomes very scattered and consists of shadscale, greasewood and rabbit-brush, bear with ravine. Thence over rolling blue clay bench land, draining to the W. and SW. 10 ft. above ¼ cor.
80.00	On gently rolling blue clay bench, 10 ft. above ¼ cor. 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 43 S
R 2 E | R 3 E
S 12 | S 7
S 13 | S 18
1917

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

Land, S. portion gravel creek bottom, sandstone ledges, and rocky, broken mesa, N. portion rolling blue clay bench land. General drainage to the W. and SW.

Soil, S. portion, rocky, gravel and sand, on sandstone bedrock. N. portion blue clay, subsoil same.

Timber, none.

Undergrowth, scattered mountain rush, greasewood, shadscale, rabbit-brush and grass. Poor grazing.

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

Over rolling blue clay bench land, draining to W., through, scattered shadscale and greasewood undergrowth.

40.00	On gentle W. slope of blue clay bench, Set an iron post, 3 ft. long, 1 ins. dia., 26 ins. in the ground for the ¼ cor. of secs. 7 and 12, with brass cap mkd.,

¼
S 12 | S 7
1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west

Chains	
	of the ¼ cor.,
	Continue over rolling clay bench.
80.00	On south side of ravine, level with ¼ cor.,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 1, 6, 7, and 12,
	with brass cap mkd.,

T 43 S
R 2 E | R 3 E
S 1 | S 6
S 12 | S 7
1917

	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling blue clay bench general drainage to the W.
	Soil, blue clay, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale and greasewood. Very poor grazing.

	North, on true line, bet. secs. 1 and 6.
	Over rolling blue clay bench land through scattered shadscale and greasewood undergrowth.
0.90	Ravine, level with sec. cor., course from NE. to S. 70° W.
27.40	Same ravine, course SE. Thence over blue clay hills.
32.40	Blue clay spur, 20 ft. above ravine, projects SW. Desc. gradually.
36.40	Same ravine, 20 ft. below spur, course SW. Asc. gradually.
39.10	Blue clay spur, 10 ft. above ravine, projects about 4.00 chs. dist., S. 70° W. Desc. gradually.
40.00	On gradual NW. slope, 10 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 1 and 6, with brass cap mkd.,

¼
S 1 | S 6
1917

Chains

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

Thence over numerous small and unimportant clay hills on SE. slope of mountain. Asc.

78.70 Rocky clay spur, 270 ft. above ½ cor., projects, about 6.00 chs. dist. N. 70° E. Desc. abruptly over rocky cl steep N. slope.

80.50 Ravine, 50 ft. below spur, course N. 70° E, 2.00 chs. dist. thence SE. Asc.

80.23 The cor. of T. 42 and 43 S., R. 2 and 3 E., 20 ft. above ravine, cor. heretofore described.

Land, rolling blue clay bench on S. portion draining to the W., on N. portion, blue clay, rocky hills on SW. slope of high mountain, draining to the SE. and S.

Soil, blue clay, mixed with rock on N. portion, subsoil same.

Timber, none.

Undergrowth, scattered shadscale and greasewood. Very poor grazing.

SURVEY OF THE SOUTH BOUNDARY OF T. 43 S., R. 3 E.

From the cor. of T. 43 and 44 S., R 2 and 3 E., heretofore described.

East, on true line, bet. secs. 6 and 31.

Over rolling sandy bench land through scattered mountain rush, shadscale, ooze-root, sagebrush, greasewood, yellow-top and grass undergrowth.

15.00 Wash in ravine, 40 ft. below sec. cor., 20 lks. wide, 3 ft. deep, course NE. Asc. gradually.

39.70 Sand ridge, 80 ft. above ravine, bears N. and S. Desc. gradually.

40.00 On gentle E. slope on sandy bench,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 31 and 6, with brass cap mkd.,

Chains.	
	$\frac{1}{4}\frac{S\ 31}{S\ 6}$
	1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Desc. gradual E. slope.
45.80	Wash, 60 ft. below $\frac{1}{4}$ cor., 10 lks. wide, 3 ft. deep, drains E. Thence crossing and recrossing same wash.
50.70	N. point of sandstone butte, 400 ft. high, bears S. 20 lks. dist., and S. point of sandstone butte, 400 ft. high, bears N. 5.00 chs. dist. Leave wash, drains NE. Asc. gradually.
72.70	South point of sandstone butte, 300 ft. high, bears N. about 6.00 chs. dist.
80.00	On gentle N. slope of sandy bench,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins in the ground, for the cor. of secs. 31, 32, 5 and 6, with brass cap mkd.,

T 43 S R 3 E

S 31	S 32
S 6	S 5

T 44 S

	1917
	Dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist. from cor.
	Land, rolling sandy bench, general drainage to the NE.
	Soil, light, dry, sandy loam, subsoil same.
	Timber, none,
	Undergrowth, scattered mountain rush, shadscale, greasewood, yellow-top, oose-root, sagebrush and grass.
	Fair grazing.
	East, on true line, bet. secs. 32 and 5,
	Over rolling sandy bench land, through scattered mountain rush, shadscale, yellow-top, greasewodd, oose-root, sagebrush and grass undergrowth.

Chains	
36.50	Sand ridge, 20 ft. above sec. cor., bears NE. and SW. Desc. gradual SE. slope.
40.00	On SE. slope, 20 ft. below ridge, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 5 and 32, with brass cap mkd.,
	¼ S 32 / S 5 / 1917
	Impracticable to dig pits on account of drifting sand. Desc. gradual E. slope.
44.50	Wash, 20 ft. below ¼ cor., 15 lks. wide, 4 ft. deep, drains NE. South point of Sandstone butte, 300 ft. high bears N. 1.50 chs. dist. from this point.
50.00	Lone sandstone butte, 300 ft. high, bears E. 4.00 chs. dist. from this point.
55.00	Base of inaccessible sandstone wall, 400 ft. high, bears N. and S. Cannot be chained, therefore offset N. a distance of 25.24 chs., thence E. on offset line. Topography on offset line.
55.00	Wash, 10 ft. below wash, 50 ft. wide, 3 ft. deep, drains NE.
65.80	North point of sandstone wall, bears 10 ft. south of offset line.
80.00	Offset S. a distance of 25.24 chs., to true line, and On S. edge of wash, course E., Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 32, 33, 4 and 5, with brass cap mkd.,
	T 43 S R 3 E S 32 | S 33 S 5 | S 4 T 44 S 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the sec. cor.,

Chains

Land, rolling sandy bench, draining to the NE.
Soil, sandy, dry, loam, subsoil same.
Timber, none.
Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, yellow-top, sagebrush and grass. Good grazing.

East, on true line, bet. secs. 33 and 4.
Over rolling sandy bench land through scattered mountain rush, shadscale, oose-root, greasewood, sagebrush, yellow-top and grass undergrowth.

23.40 Wash, 7 lks. wide, 1 ft. deep, 10 ft. below cor., drains N. 70° E.

24.50 Wash, level with wash, 12 lks. wide, 1 ft. deep, drains N. 20° E. Desc. over sandy bench land.

40.00 On gradual E. slope, 100 ft. below sec. cor.,
Set an iron post, 3 ft. long, 1 ins. dia. 26 ins. in the ground for the ¼ cor. of secs. 33 and 4, with brass cap mkd.,

¼ S 33 / S 4
1917

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

57.20 Head of wash, level with cor., 4 lks. wide, 6 ins. deep, drains N. 70° E. Desc. gradually.

73.00 Wash, 30 ft. below ¼ cor., 36 lks. wide, 3 ft. deep, drains NE: Sandstone ledges along wash.

80.00 On E. slope, 30 ft. below ¼ cor.,
Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor, of secs. 33, 34, 3 and 4, with brass cap mkd.,

T 43 S R 3 E
S 33 | S 34
S 4 | S 3
T 44 S
1917

Chains	
	Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling sandy bench, draining NE.
	Soil, light, dry, sandy loam, subsoil same. Some sandstone along washes.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, sagebrush and yellow-top, and grass. Fair grazing.

East, on true line, bet. secs. 34 and 3.

Over rolling sandy bench land through scattered mountain rush, shadscale, oose-root, greasewood, sagebrush and grass undergrowth. Desc. gradually.

28.50 Wash, 8 lks. wide, 2 ft. deep, 10 ft. below sec. cor., drains north. Desc. over gradual NE. slope.

40.00 On gradual N. slope, 90 ft. below sec. cor.,

Set an iron post, 3 ft. long, 1 in. dia., 2[illegible] ins. in the ground, for the ¼ cor. of secs. 34 and 3, with brass cap mkd.,

¼ S 34 / S 3

1917

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

Asc. gradually along gradual N. slope of ridge.

40.80 Sand ridge, 10 ft. above ¼ cor., bears NE. and SW. Desc. gradual SE. slope.

80.00 On gentle E. slope, 90 ft. below ridge.

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

T 43 S R 3 E

S 34	S 35
S 3	S 2

T 44 S

1917

Dig pits, 18 x 18 x 12ins. in each sec. 5½ ft. dist.,

Chains	
	from the sec. cor.
	Land, rolling sandy bench land, draining to the E.
	Soil, sandy, light, dry, loam, subsoil same. Some sandstone along washes.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, sagebrush and grass. Fair grazing.
	East, on true line, bet. secs. 35 and 2.
	Over rolling sandy bench land through scattered mountain rush, shadscale, oose-root, greasewood, sagebrush, yellow-top and grass undergrowth. Desc. gradually over gentle NE. slope.
40.00	On sandy bench, gentle NE. slope, 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. 35 and 2, with brass cap mkd.,
	S 35 / ¼ / S 2
	1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Desc. gradual E. slope.
53.40	Wash, 40 ft. below ¼ cor., 30 lks. wide, 3 ft. deep, drains N. 80° E. Asc. gradually.
80.00	On rolling bench, 10 ft. above wash,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 35, 36, 1 and 2, with brass cap mkd.,
	T 43 S R 3 E S 35 | S 36 S 2 | S 1 T 44 S
	1917
	Dig pits, 18 x 18 x 12 ins. in each sec. 5½ ft. dist. from sec. cor.

Chains	
	Land, rolling sandy bench draining generally NE.
	Soil, sandy, light, dry loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, yellow-top, sagebrush and grass. Fair grazing.
	&
	East, on true line, bet. secs. 36 and 1.
	Over rolling sandy bench land, through scattered mountain rush, shadscale, oose-root, greasewood, yellow-top, sagebrush and grass undergrowth.
29.00	West, brink of Wahweap canyon, level with sec. cor., bears NW. and SE. Desc. abruptly.
30.00	Bottom of Wahweap canyon, 50 ft. below bench, bears NW. and SE. Thence over bearly level canyon bottom.
40.00	In Wahweap canyon, 50 ft. below bench,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 36 and 1, with brass cap mkd.,
	½ S 36 / S 1 / 1917
	Dig pits, 18 x 18 x 12 ins., E: and W. of the cor., 3 ft. dist.
	Continue over canyon bottom.
46.00	Wahweap creek, level with ¼ cor., stream of clear alkali water, 4 lks. wide, 2 ins. deep, course S. 30° E.
47.00	Leave canyon bottom, asc: sandstone ledges, both bear with creek.
66.30	Rim of bench, 50 ft. above ¼ cor., bears N. 30° W. and S. 30° E. Thence over rolling swale draining SW.
80.00	On gentle SW. slope of bench.
	Set an iron post, 3 ft. long, 3 ins. dia., 20 ins. in the ground to bedrock, 4 ins. in a mound of stone, 1 ft. dia., for the cor. of T. 43 and 44 S., R. 3 and 4 E. with brass cap mkd.,

Chains	
	T 43 S R 3 E | R 4 E S 36 | S 31 S 1 | S 6 T 44 S 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, south of the cor.
	Land, West portion, rolling sandy bench, draining NE. East portion, Wahweap canyon, draining to the SE.
	Soil, sandy loam, subsoil same, on West portion, E. portion, sandy, gravel and sandstone, subsoil, sandy.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, sagebrush, yellow-top and grass. Fair grazing.

SURVEY OF THE EAST BDY. OF T. 43 S., R. 3 E.

	From the cor. of T. 43 and 44 S., R. 3 and 4 E., heretofore described.
	North, on true line, bet. secs. 31 and 36.
	Over rolling sandy bench land, through scattered rabbit-brush, sagebrush, greasewood and grass undergrowth.
40.00	On bench, 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. 31 and 36, with brass cap mkd., ¼ S 36 | S 31 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
56.00	Rim of sandstone, 10 ft. below ¼ cor., bears E. and W. Desc. gradually.
62.20	Ravine, 40 ft. below ¼ cor., course SE. Asc. gradually.
80.00	On gradual S. slope, 20 ft. above ravine.

Chains

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in a mound of stone, 4 ft. base, on bedrock, for the cor. of secs. 25, 30, 31 and 36, with brass cap mkd.,

T 43 S
R 3 E | R 4 E

S 25 | S 30

S 36 | S 31

1917

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

Land, rolling sandy bench, with sandstone outcroppings. General SE. drainage.

Soil, sandy loam, sandstone outcrops, subsoil, sandy and rocky.

Timber, none.

Undergrowth, scattered rabbit-brush, greasewood, sagebrush and grass. Poor grazing.

North, on true line, bet. secs. 25 and 30.

Over rough mountainous land, through scattered mountain rush, sagebrush, shadscale, rabbit-brush and grass.

10.35 Base of inaccessible sandstone butte, level with cor., 225 ft. high, impossible to chain over butte, therefore offset W. a distance of 24.38 chs., thence North on offset line, over rocky, broken mountainous land.

40.00 Offset E. a distance of 24.38 chs., to true line, and on edge of steep sandstone ledges, bear E. and W.,

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

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.

Over rocky, broken mountainous land.

Chains	
68.08	On account of sandstone ledges, bearing E. and W., over which it is impracticable to chain, offset west, a distance of 6.00 chs., thence N. on offset line, over broken rocky, south slope.
80.00	Offset East , a distance of 6.00 chs., to true line, On rocky, slope, 40 ft. above ¼ cor. Set an iron post, 3 ft. long, 2 ins. dia., on sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 19, 24, 25 and 30, with brass cap mkd.,

T 43 S
R 3 E | R 4 E

S 24	S 19
S 25	S 30

1917

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

Land, rough mountainous., general SE. drainage.

Soil, rocky, sandy clay loam, on sandstone bedrock.

Timber, none,

Undergrowth, scattered mountain rush, sagebrush, shadscale, sagebrush, rabbit-brush and grass. Poor grazing.

North, on true line, bet. secs. 19 and 24.

Over rough mountainous land, asc. gradually over sandstone through scattered mountain rush, shadscale, greasewood, rabbit-brush and grass undergrowth.

14.53	Base of impassable sandstone ledges, bear E. and W. As it is impracticable to chainover ledges, triangulate as follows, measure a base line, west, 6.00 chs. dist. and set flag, then set a point on top of ledges, on line north, from which point the flag at west end of base, bears S. 24° 41' W. The distance is then, 6.00 x cotan. 24° 41' or 2.17582 = 13.06 chs.
27.59	N. triangulation point at top of sandstone ledges, 150 ft. above sec. cor., bear E. and W. It was impossible to get a longer base for this triangulation.

Chains.

Thence over rolling clay and sand hills.

40.00 On broken, rocky, clay and sand bench, level with top of ledges.

Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground, 10 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 19 and 24, with brass cap mkd.,

S 24 | S 19

1917

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

Thence over nearly level plains.

62.00 Broken sandstone ledges, bear SE. and NW. Desc. into ravine.

72.00 Ravine, 30 ft. below ledges, course SE. Thence over small valley.

80.00 On small valley, almost surrounded by sandstone cliffs, 10 ft. above ravine.

Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground, to bedrock, 12 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 13, 18, 19 and 24, with brass cap mkd.,

T 43 S
R 3 E | R 4 E

S 13 | S 18

S 24 | S 19

1917

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

Land, rough mountainous with numerous sandstone ledges and outcrops. General drainage to SE. and SW.

Soil, rocky, sandy clay loam, on sandstone bedrock.

Timber, none.

Undergrowth, scattered mountain mush, shadscale, greasewood, rabbit-brush and grass. Fair grazing.

Chains	
	North, on true line, bet. secs. 13 and 18.
	Over rough mountainos land, asc. over sandstone ledges through scattered rabbit-brush, greasewood, shadscale and grass undergrowth.
6.30	Top of ledges, 70 ft. above cor., bear NW. and SE.
7.20	Desc. from ledges, bear SW. and SE.
9.50	Ravine, 30 ft. below ledges, course SE. Asc. over rocky south slope.
34.00	Top of small mesa, 70 ft. above ravine, bears NE. and SW. Thence over level top.
36.20	Desc. over sandstone ledges. bear NE. and SW.
40.00	On NW. slope, 10 ft. below mesa,
	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 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Continue descent over gradual NW. slope.
45.00	Small wash, 20 ft. below ¼ cor., 20 lks. wide, 10 ft. deep., drains SE.
53.50	On nearly level plain, 20 ft. above wash, bears NE. and SW., Thence over clay plains with some sandstone outcroppings. Undergrowth becomes very scattered.
80.00	On rolling blue clay bench land, 30 ft. above wash.
	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 44 S R 3 E | R 4 E S 12 | S 7 S 13 | S 18 1917
	Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist., from the cor.

Chains	
	Land, rough mountainous, general drainage to SE. and SW.
	Soil, rocky, sandy, blue clay, on sandstone and clay subsoil.
	Timber. none.
	Undergrowth, scattered rabbit-brush, greasewood, shadscale, and grass. Poor grazing.

	North, on true line, bet. secs. 7 and 12.
	Over rolling blue clay bench land, through scattered shadscale and grass undergrowth.
39.00	Wash, 10 ft. above sec. cor., 20 lks. wide, 3 ft. deep, course SE. Asc. gradually.
40.00	10 ft. above wash, on gentle S. slope of clay bench. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 7 and 12, with brass cap mkd.,
	S 12 | S 7 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of the cor., 3 ft. dist.
	Thence asc. over gentle S. slope of blue and brown clay bench.
58.10	Wash, 10 ft. above ¼ cor., 10 lks. wide, 4 ft. deep, drains SE. Asc. gradually.
80.00	On south bank of wash, course SE. 10 ft. above wash. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 1, 6, 7 and 12, with brass cap mkd.,
	T 43 S R 3 E R 4 E S 1 | S 6 --- S 12 | S 7 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the sec. cor.

Chains	
	Land, rolling blue and brown clay bench, general drainage to the SE.
	Soil, blue and brown clay, mixed with sandstone, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale and grass. Very poor grazing.

	North on true line, bet. secs. 1 and 6.
	Over broken blue clay bench, desc. gradually over sandstone outcroppings through scattered shadscale, rabbit-brush, and grass undergrowth.
1.00	Wash, in ravine, 10 ft. below cor., 10 lks. wide, 2 ft. deep, drains SE. Asc. gradually over S. slope.
3.80	Top of bench, 40 ft. above wash, bears with ravine, thence over nearly level rocky bench.
10.70	Main ravine, 20 ft. below bench, course SE. Asc. gradually over rocky, clay land.
40.00	On rolling bench, 30 ft. above ravine.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 1 and 6, with brass cap mkd.,
	¼ S 1 | S 6 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Continue gradual ascent over rolling bench.
66.50	Leave bench, bears NE. and SW., Asc. abruptly over clay and sandstone ledges, bear with bench.
80.93	Intersect the random N. bdy. of township, 21 lks. W. of temp. cor.
	At intersection, on rocky W. slope of high mountain, 300 ft. above bench.
	Set an iron post, 3 ft. long, 3 ins. dia., 12 ins. in the ground to bedrock, 12 ins. in a mound of stone,

chains

3 ft. base, for the cor. of T. 42 and 43 S., R. 3 and 4 E., with brass cap mkd.,

T 42 S
R 3 E | R 4 E
S 36 | S 31
S 1 | S 6
T 43 S

1917

Raise a mound of stone, 4 ft. base, 2 ft. high, south of the Tp. cor.

Land, south portion, rolling blue clay and sandstone bench, draining to the SE. North portion, steep, rocky and clay mountain side, draining to the W. and SW.

Soil, rocky, sandy clay, subsoil same.

Timber, none.

Undergrowth, scattered shadscale, rabbit-brush and grass. Poor grazing.

SURVEY OF THE NORTH BOUNDARY OF T. 43 S., R. 3 E.

From the cor. of T. 42 and 43 S., R. 2 and 3 E., heretofore described.

East, on random line.

39.60 Set temp. point.

79.60 Set temp. point.

80.00 On account of high sandstone ledges, triangulate as follows. Set a point on line E. and from latter point, observe that the flag previously set at a point 21.81 chs. dist., south of the 80.00 chs. point, bears S. 46° W. The distance is then,

21.81 x cotan. 44° or 1.03553 = 22.58 chs.

102.58 triangulation point.

113.60 Set temp. point.

153.60 Set temp. point. On account of ledges over which it is impractical to chain, offset N. a distance of 12.50 chs. thence east on offset line.

Survey of the North Bdy. of T. 43 S., R. 3 E.

Chains.	
188..26	Offset south 4.90 chs. dist. to a point 7.60 chs. N. of the random line; thence east on offset line.
199.60	Offset south a distance of 7.60 chs. and set temp. point on true line; thence east from offset point 7.60 chs. dist. N. of random line.
228.79	On account of ledges over which it is impossible to chain offset S. a distance of 27.60 chs. to a point 20.00 chs. dist., south of true random line, thence east on offset line,
237.59	Offset N. a dist. of 20.00 chs. to true random line, thence E. on random line,
239.79	Set temp. point. On account of ledges over which it is impossible to chain, measure west a distance of 97 lks. and set a flag for triangulation; also set a flag on line east at top of high spur, and from the latter point measure a base line N. a dist. of 3.46 chs., from which point the flag set on line west, bears S.67° 50' W., the distance is then. 3.46 x tan. 67° 50' or 2.45451= 8.49 chs. Longer base line impossible.
247.31	Triangulation point.
279.60	Set temp. point.
319.60	Set temp. point.
359.30	Set temp. point.
380.20	On account of ledges over which it is impossible to chain offset S. a distance of 1.93 chs.; thence E. on offset line,
399.03	Set temp. point. Offset S. a distance of 5.63 chs.; thence E. on offset line.
400.00	Offset south a distance of 6.66 chs. to a point 14.22 chs. south of random line; thence E. on offset line,
426.72	Offset N. a distance of 14.22 chs. to true random line. Thence E. on random line.
480.00	Set temp. cor. for Tps. 42 and 43 S., Rs. 3 and 4 E. Permanent cor. was afterward set at a point 21 lks. W. of temp. cor., for description of which see page 25 of these notes.

S.67°50'W.

Survey of the North Bdy. of T. 43 S., R. 3 E.

Chains.	
	Thence from the cor. of Tps. 42 and 43 S., Rs. 3 and 4 E., West on true line, bet. secs. 1 and 36,
	Over rough mountainous land; descend abruptly over rocky, clay ledges; through scattered mountain rush, shadscale, greasewood, and grass.
4.90	Swale, 40 ft. below cor., course south. Ascend over rocks.
8.40	Point of spur, 30 ft. above swale, projects S. 70° W. Descend abruptly over sandstone and steep clay ledges.
17.00	Leave steep ledges bearing NE. and SW.; thence over rolling clay hills.
28.90	Main canyon, 300 ft. below spur, course SW. Ascend over blue clay hills.
37.30	Clay spur, 50 ft. above ravine, projects S. Descend gradually.
40.00	In small swale, course S., among rolling clay hills, 30 ft. below spur.
	Set am iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ¼ sec. cor. secs. 1 and 36, with brass cap marked ¼ S 36 S 1 1917
	Raise a mound of stone 2 ft. base, 1½ ft. high North of cor.
	Continue over rolling clay hills.
53.07	Base of high sandstone cliffs, bearing N. and S., over which it is impossible to chain; therefore offset S. a distance of 14.22 chs. to offset point; thence west on offset line.
79.79	Offset point, thence N. 6.66 chs. to offset point, on steep sandstone ledges, bearing NW. and SE. Thence west on offset line.
80.76	Offset N. 5.63 chs. to a point 1.93 chs. S. of true line, thence measure E. a distance of 21 lks. to base of high sandstone ledges, bearing SE. and N. 30 lks. dist.; t[illegible]. It is impossible to set corner at true corner point, or on line, on account of ledges; therefore at

Chains	
	55 lks. west and 1.93 chs. S. of true point, at
80.55	At base of high ledges, 260 ft. above ½ cor.
	Set an iron post, 3 ft. long; 2 ins. dia., on sandstone ledges, 24 ins. in a mound of stone, 4 ft. base, for the W. C. to the cor. of secs. 35, 36, 1 and 2, with brass cap mkd.,

W C
T 42 S R 3 E
S 35 | S 36
S 2 | S 1
T 43 S
1917

	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the sec. cor.
	Land, rugged rough mountainous and rolling blue clay hills. General drainage to the SE.
	Soil, rocky, clay, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood, and grass. Poor grazing.
	From the true cor. point for the secs. 35, 36, 1 and 2.
	West, on true line, bet. secs. 35 and 2.
	Over rough mountainous land, desc. abruptly over sandstone ledges through scattered mountain rush, shadscale, greasewood and grass undergrowth.
.55	The witness cor. to the cor. of secs. 35, 36, 1 and 2, heretofore described, 1.93 chs. dist. S. of true line.
21.20	Rocky ravine, 325 ft. below W. C.; course SE. Asc. abruptly over sandstone ledges and steep clay cliffs.
40.00	Inaccessible, falls on side of ledges, bear N. and S.
40.49	At top of small sandstone ledge, 30 ft. high, bears N. and S. On steep rugged E. slope of mountain, 490 ft. above ravine. Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 3½ ft. base, for the W. C. to the ¼ cor. of secs. 35 and 2,

Chains

with brass cap mkd., ...

$\frac{1}{4}$ S 35 / S 2 W C

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the W. C.

Continue abrupt ascent over steep rocky E. slope of mountain.

47.28 Set flag on rim of rocky mesa, 320 ft. above witness cor. bears N. and S. Thence over rocky mesa, asc. gradually.

65.20 Top of main ridge, 70 ft. above rim, bears N. and S. Thence over rocky, rolling top.

72.00 Leave top, bears N. and S., desc. abruptly over sandstone ledges.

76.80 Rocky ravine, 80 ft. below ridge, course SW. Asc. over rocky SE. slope.

80.00 On top of narrow rocky spur, 90 ft. above ravine, projecting SW. about 10.00 chs. dist.

Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 34, 35, 2 and 3, with brass cap mkd.,

T 42 S R 3 E

S 34	S 35
S 3	S 2

T 43 S

1917

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

Land, rough, rugged mountainous, sandstone ledges throughout mile, general drainage to the SE. and SW.

Soil, sandy, rocky clay., on sandstone bedrock.

Timber none.

Undergrowth, scattered mountain rush, shadscale, greasewood and grass. Poor grazing as it is too rough.

Chains	
	West, on true line, bet. secs. 34 and 3.
	Over rough mountainous land, desc. abruptly over sandstone ledges through scattered mountain rush, shadscale, greasewood and grass undergrowth.
23.00	Rocky ravine, 150 ft. below sec. cor., course S. Asc. abruptly over steep sandstone ledges.
37.90	Rocky sandstone spur, 130 ft. above ravine, projects about 10.00 chs. SW. Desc. gradually over broken sandstone ledges.
40.00	On rocky, broken W. slope of spur, 20 ft. below top, Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, for the ¼ cor. of secs. 34 and 3, with brass cap mkd., ¼ S 34 / S 3 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
41.00	Brink of ledges and rim of canyon, bear NW. and SE. Desc. abruptly over almost impassable sandstone ledges.
56.90	Rocky canyon, 450 ft. below ¼ cor., course NW. Asc. abruptly over sandstone ledges.
72.48	Triangulation point at top of rocky sandstone spur, projects NW. about 10.00 chs. dist. Desc. abruptly over impassable sandstone ledges.
80.00	In bottom of rocky ravine or canyon, 240 ft. below spur, course South., Set an iron post, 3 ft. long, 2 ins. dia., on sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 33, 34, 3 and 4, with brass cap mkd., T 42 S R 3 E / S 33 | S 34 / S 4 | S 3 / T 43 S / 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, extremely rugged, ledgy, mountainous land, general

Chains	
	drainage to the SW. and NW.
	Soil, sandy, rocky clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, grease-wood, and grass. Too rough for grazing.
	West, on true line, bet. secs. 33 and 4.
	Over very rough mountainous land, asc. over sandstone ledges through scattered mountain rush, shadscale, grease-wood and grass undergrowth.
.37	Triangulation point.
2.20	Impossible to chain farther on account of sandstone ledges, 800 ft. high, 20.00 chs. S. to offset point. Thence W. on offset line.
11.00	Base of high mountain, bears NE. and SW. Offset N. a dist. of 20.00 chs. to true line, to a point at top of ledges, bear W. and NE., 750 ft. above sec. cor., Impossible to chain west from this point, therefore offset N. a dist. of 7.60 chs. Set flag, thence west on offset line.
22.50	Top of nearly level bench at top of ledges, bears N. and S. Thence over rolling rocky bench.
40.00	Offset S. a dist. of 7.60 chs. to true line, and at base of sandstone ledges, 50 ft. high, 50 ft. below bench, bear NE. and S. 20° W., on stationary boulder, 30 ft. in dia.
	Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 33 and 4, with brass cap mkd.,
	¼ S 33 / S 4 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	It is impossible to continue west from here, therefore

Chains	
	return to offset point, thence W. on offset line; over rocky, rolling mesa.
51.53	Top of rim of ledges, along canyon, impossible to chain, therefore offset N. a distance of 4.30 chs. to a point 12.50 chs. N. of true line, thence W. on offset line.
80.13	Thence S. to true line. 12.50 chs.; thence E. 19 lks. to
80.00	On small rocky mesa, 50 ft. above cor.. Set an iron post, 3 ft. long, 2 ins. dia., 4 ins. in the ground to bedrock, 20 ins. in a mound of stone, 3½ ft. base, for the cor. of secs. 32, 33, 4 and 5, with brass cap mkd.,

T 42 S R 3 E
S 32 | S 33.
S 5 | S 4
T 43 S
1917

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

Land, rough, rugged mountainous with sandstone ledges throughout, general drainage to the S.

Soil, shallow, sandy loam, on sandstone bedrock.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, greasewood and grass. Too rough for grazing.

West, on true line, bet. secs. 32 and 5.

Over rough mountainous land asc. over sandstone ledges, through scattered mountain rush, greasewood, shadscale, rabbit-brush and grass undergrowth.

33.80	Top of ledges and rim of main high mesa, 150 ft. above sec. cor., bears NE. and SW. Thence over rolling mesa. Grass becomes thicker.
40.00	On rolling mesa. Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground to bedrock, 18 ins. in a mound of stone, for the

Chains	
	¼ cor. of secs. 32 and 5, with brass cap mkd.,
	¼ S 32 / S 5 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high north of the ¼ cor.
	Continue over rolling mesa.
57.21	Triangulation point at top of ledges and rim of mesa, level with ¼ cor., bears N. 20° W., and S. 20° E. Desc. abruptly over sandstone ledges.
73.73	Triangulation point on steep, SE. slope of mountain.
80.00	On steep, rocky SE. slope of mountain, 270 ft. below mesa. Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3½ ft. base, for the cor. of secs. 31, 32, 5 and 6, with brass cap mkd.,
	T 42 S R 3 E S 31 | S 32 S 6 | S 5 T 43 S 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rough mountainous and high rolling mesa, general drainage to the SW. and SE.
	Soil, shallow sandy, rocky loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood, and grass. Good grazing on mesa, balance too rough for grazing.

	West, on true line, bet. secs. 31 and 6,
	Over rough mountainous land, desc. gradually along steep, rocky W. slope through scattered mountain rush, shadscale, greasewood and grass.
5.20	Asc. over sandstone ledges. Bear NE. and SW.

Chains	
10.10	Sandstone spur, 60 ft. above sec. cor., projects SW about 5.00 chs. dist. Desc. abruptly over sandstone ledges, bearing with spur.
36.30	Rocky ravine, 250 ft. below spur, course NW. Asc. over rocky, clay NE. slope.
40.00	On rocky NE. slope, 50 ft. above ravine, Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground to bedrock, 16 ins. in a mound of stone, 3 ft. base, for the ¼ cor. of secs. 31 and 6, with brass cap mkd., $\frac{S\ 31}{S\ 6}$ 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor. Asc. abruptly over ledges.
41.70	Sandstone spur, 40 ft. above cor., projects, about 50 lks. N. to ravine. Desc. over rocky, clay NW. slope.
68.80	Main canyon, 700 ft. below spur, course S. 10° W. Asc. abruptly over rocky, clay, steep E. slope.
77.00	Top of ledges and rim of narrow mesa, 150 ft. above canyon, bears E. and S. Thence across rolling, rocky mesa top.
74.80	Edge of mesa, level with ledges, bears NW. and SW. Desc. abruptly over sandstone ledges.
73.73	The cor. of T. 42 and 43 S., R. 3 and 2 E., heretofore described, 80 ft. below narrow mesa.

Land, rough mountainous, general drainage to the S. and SW.

Soil, rocky, sandy, clay loam, on sandstone bedrock.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, greasewood and grass. Too rough for grazing.

Chains.	
	From the cor. of secs. 35, 36, 1 and 2, heretofore described, on S.bdy.of Tp.
	N. 0° 01' E., on true line, bet. secs. 35 and 36.
	Over rolling sandy bench land, desc. gradually through scattered mountain rush, shadscale, ooze-root, yellow-top and grass undergrowth.
5.60	Ravine, 40 ft. below sec. cor., course E. Asc. gradually.
10.00	Top of ascent, 20 ft. above ravine, bears E. and W., desc. gradually over gentle N. slope.
33.70	North, edge of bench and S. rim of Wahweap canyon, bears NW. and SE. Desc. into Wahweap canyon.
38.65	At base of canyon side, on rolling canyon bottom, 50 ft. below bench,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the W. C. to the cor. cor. of secs. 35 and 36, with brass cap mkd.,
	W. C. S 35 | S 36 1317
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.
	Thence over nearly level canyon bottom.
40.00	Point falls in Wahweap wash, on unsafe ground, wash is 2.50 chs. wide, 4 ft. deep, dry, course E. 2.00 chs. thence S. General drainage SE. Cor.not set.
	Lone rock, 480 ft. high, bears E. ¼ mile dist.
60.00	Wash, 10 ft. above Wahweap wash, 20 lks. wide, 3 ft. deep, drains SE. Thence over rolling sandy canyon bottom, and mouth of valley from the NW.
77.50	Sandy shifting ridge, 30 ft. above wash, bears E. and W. Asc. gradually.
80.00	On sandy SE. slope, 40 ft. above ridge,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 25, 26, 35 and 36, with brass cap mkd.,

Chains	
	T 43 S R 3 E S 26 | S 25 S 35 | S 76
	1317
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the sec. cor.
	Land, S. portion, rolling sandy bench, draining to the E. N. portion, sandy, gravely canyon bottom, draining SE.
	Soil, light, dry, sandy loam, subsoil same, gravel along canyon bottom.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, ooze-root, yellow-top and grass. Fair grazing.

	East, on random line, bet. secs. 25 and 76.
40.00	Set temp. point for ¼ cor.
79.80	Intersect the cor. of secs. 25, 30, 31 and 36, heretofore described, on E.bdy.of Tp.
	Thence,
	West, on true line, bet. secs. 25 and 76.
	Over rolling, rocky, sandy land, desc. gradually through scattered rabbit-brush, shadscale, sagebrush and grass undergrowth.
4.80	Rocky ravine, 40 ft. wide, 20 ft. deep, course S. 20° W. Asc. gradually.
14.00	Top of ascent, 20 ft. above ravine, bears NE. and E. Desc. gradually.
23.50	Rocky ravine, 30 ft. below top of ascent, course S. 20° W. Thence over rolling sandy valley.
34.00	Wash; level with ravine, 15 lks. wide, 7 ft. deep, drains S. Asc. gradually.
39.20	On rolling sandy valley, 10 ft. above wash.
	Set an iron post, 3 ft. long, ¾ in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 25 and 76, with brass

Chains	
	cap mkd., $\frac{S\ 25}{S\ 36}$ 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Desc. over rocky, sandy land.
55.50	Through gap in broken sandstone ledges, line passes over N. slope of sandstone ledges, bearing SW. and SE. Continue descent over sandstone ledges.
69.20	Wash, 100 ft. below ¼ cor., 10 lks. wide, 1 ft. deep, drains S.
70.10	Base of sandstone wall, 100 ft. high, bears N. 20° W. and S. 20° E. Asc. abruptly over sandstone wall.
70.30	Top of sandstone wall and edge of spur, 100 ft. above wash, bears N. 20° W. and S. 20° E. Spur projects S. 20° E. about 10.00 chs. dist. Asc. over top of spur,
72.70	Top of same spur, 40 ft. above sandstone wall, Desc. over SW. slope of spur.
73.80	The cor. of secs. 25, 26, 35 and 36, 70 ft. below spur. Land, rocky, sandy, valley and low bench, with numerous sandstone ledges, general drainage to the S. Soil, rocky, sandy loam, subsoil same. Timber, none. Undergrowth, scattered rabbit-brush, shadscale, sage-brush and grass. Poor grazing.

	N. 0° 01' W., on true line, bet. secs. 25 and 26. Over rocky, sandy mountainous land, asc. abruptly over sandstone ledges, through scattered rabbit-brush, ocea-root, sagebrush, shadscale and grass undergrowth.
4.30	Top of ledges and S. edge of lower bench, 80 ft. above cor., bears W. and SE. Thence over top of bench.
13.00	Rim of valley, level with bench, bears W. and SE. Thence

Chains	
	along ledgy rim of bench.
17.300	Rim of same bench, level with bench, bears NE. and SW. Thence over rolling rocky bench.
23.20	Rim of same bench, bears NW. and SE. Leave bench and desc. abruptly over sandstone ledges along NE. slope of bench.
27.10	Wash, in valley, 100 ft. below bench, 20 lks. wide, 1 ft. deep, drains from N. to E. Thence crossing and re-crossing wash, over valley bottom.
34.50	Sandstone butte, 120 ft. high, bears E. 5.00 chs. dist.,
40.00	On valley bottom, 30 ft. below bench, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 25 and 26, with brass cap mkd., ¼ S 26 | S 25 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
52.10	Sand knoll, 10 ft. above wash, bears NE. and SW. Desc. gradually.
53.10	Leave wash, 10 ft. below knoll, 60 lks. wide, 1 ft. deep, drains from NE. to SW.
56.50	Bottom of sandstone wall, 10 ft. above wash, bears NE. and SW.
58.80	Top of sandstone wall, 130 ft. above wash, bears NE. and SW. Thence asc. over broken East slope of bench.
69.00	Top of gravel and sandstone bench, 190 ft. above wash, bears E. and S. 20° W. Thence over top of bench.
80.00	On gravel and sandstone bench. Set an iron post, 3 ft. long, 2 ins. dia., on sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 23, 24, 25 and 26, with brass cap mkd., T 43 S R 3 E S 23 | S 24 ——— S 26 | S 25 1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the sec. cor.
	Land, rocky, sandy, valley bottom and rocky, gravel bench, general drainage to the S. and SE.
	Soil, on benches, rocky, sandy, gravel loam on sandstone bedrock, on valley bottom, sandy loam, subsoil, same.
	Timber, none.
	Undergrowth, scattered rabbit-brush, oose-root, sagebrush, and grass. Poor grazing.

	East, on random line, bet. secs. 24 and 25.
	From this cor. the line passes over sandstone ledges over which it is impractical to chain, therefore triangulate as follows, set a point on line, E. on spur, and from the latter point, measure a base line, N. a dist. of 20.00 chs., from which point the cor. of secs. bears S. 67° 07' W., the dist. is then,
	20.00 x tan. 67° 07' or 2.36325 = 47.38 chs.
47.38	Triangulation point, set temp. point for W. ¼ cor.
	From this point the line passes over ledges over which it is impracticable to chain, therefore triangulate as follows, set a flag at this point, then set a point on line, east, from which point, measure a base line, North a dist. of 10.00 chs., from which point the flag bears S. 64° 52' W., the dist. is then,
	10.00 x tan. 64° 52' or 2.14288 = 21.47 chs.
68.61	Triangulation point.
72.72	Intersect the cor. of secs. 13, 24, 25 and 30, heretofore described, on E.bdy. of Tp.
	Thence,
	West, on true line, bet. secs. 24 and 25.
	Over rough, ledgy mountainous land, through scattered mountain rush, greasewood, shadscale, ooze-root and grass.
5.00	Rocky ravine, 60 ft. below sec. cor., course SW. Asc.

Chains	
	abruptly over sandstone ledges.
6.00	West rim of rocky ravine, 60 ft. above bottom, bears with ravine.
10.38	Triangulation point. Thence ascending and descending over numerous sandstone ledges.
32.41	Top of ledges, on sandstone spur, 230 ft. above triangulation point, projects SW.
	At this point, on spur,
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the W. C. to the ¼ cor. of secs. 24 and 25, with brass cap mkd.,
	WC ¼ S 24 / S 25 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Thence desc. over sandstone ledges bearing with spur.
32.89½	Point falls on side of ledges, on unsafe ground. Cor. not set.
52.00	Approximate position of rocky canyon, 170 ft. below ¼ W. C. course S. 20° W. Asc. over numerous sandstone ledges, bear with canyon.
77.50	Rim of rocky, gravel bench, bears NE. and SE. 120 ft. above canyon. Thence over gravel, rocky bench.
79.79	The cor. of secs. 23, 24, 25 and 26, level with rim of bench.
	Land, rough mountainous, withnumerous sandstone ledges, general drainage to the S.
	Soil, rocky, sandy, gravely, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, greasewood, shadscale, oose-root and grass. Poor grazing.

	N. 0° 01' W., on true line, bet. secs. 23 and 24.
	Over rolling, rocky gravel bench land, through scattered

Chains	
	mountain rush, shadscale, yellow-top, cose-root and grass undergrowth.
16.40	Rocky ravine, 40 ft. below sec. cor., course E. Asc. gradually.
19.70	Top of sandstone knoll, 110 ft. above ravine, bears E. and W.
24.70	Wash, 70 ft. below knoll, 8 lks. wide, 1 ft. deep, drains E.
28.00	Wash, 6 lks. wide, 1 ft. deep, level with wash, drains E. Thence over rolling clay bench.
40.00	On clay bench, 10 ft. above wash, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 23 and 24, with brass cap mkd.,

S 23 \| S 24

1317

Raise a mound of stone, 2 ft. base, 12 ft. high, west of the cor.

40.10	Fox gulch, 60 ft. below ¼ cor., 60 lks. wide, 50 ft. deep, course S. Asc. over broken sandstone ledges.
50.40	Rocky spur, 70 ft. above gulch, projects S. 60° E.
54.00	Sagebrush bottom of gulch, 80 ft. below spur, 25 lks. wide, 1 ft. deep, drains S. 10° E. Asc.
60.30	Gravel knoll, 40 ft. above wash, bears E. and W. Asc. abruptly over high sandstone ledge.
67.20	Top of ledge, 180 ft. above knoll, bears E. and W. Asc. over broken sandstone ledges on top of bench.
74.80	Small sandstone butte, 60 ft. above bench, bears E. and W. Desc. abruptly from butte.
80.00	On gravel, rocky bench, 70 ft. below butte. Set an iron post, 3 ft. long, 2 ins. dia., on sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 13, 14, 23 and 24, with brass cap mkd.,

T 43 S R 3 E

S 14 \| S 13

S 23 \| S 24

1317

Chains

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

Land, rolling, rocky, gravel benches, with sandstone ledges and box gulches, draining to the SW. and E.

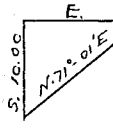
Soil, rocky, sandy, gravel loam, on sandstone bedrock.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, yellow-top, oose-root and grass. Fair grazing.

East, on random line, bet. secs. 17 and 24.

Triangulate from sec. cor. as follows, on account of sandstone ledges, set a point on line, E. and measure a base line, S. from the sec. cor. a dist. of 10.00 chs., from which point the point set on line E. bears N. 71° 01' E. the dist. is then,



10.00 x tan. 71° 01' or 2.90696 = 29.07 chs.

29.07 Triangulation point.

40.00 Set temp. point for ¼ cor.

72.86 Intersect the E. bdy. of the Tp. 18 lks. N. of the cor. of secs. 13, 18, 19 and 24, heretofore described.

Thence,

N. 89° 52' W., on true line, bet. secs. 13 and 24.

Over broken bench land through scattered mountain rush, yellow-top, shadscale and grass undergrowth.

21.50 Edge of bench, level with cor., bears NW. and SE. Desc. over rocky, broken slope, of mesa.

39.33 At base of ledges, on rim of canyon, 160 ft. below bench, Set an iron post, 3 ft. long, 1 in. dia., on sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 13 and 24, with brass cap mkd.,

$\frac{1}{4}$ S 13 / S 24

1917

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

Chains	
40.20	E. rim of box canyon, level with ¼ cor., bears SW. and NE. Desc. abruptly over rocky, NW. slope of canyon.
40.70	Box canyon, 160 ft. below ¼ cor., course SW. Asc. abruptly over high sandstone ledges.
44.70	W. rim of box canyon, 160 ft. above canyon, bears with canyon. Asc. over sandstone ledges.
50.73	Triangulation point, at top rim of canyon, bears NE. and SW.. 60 ft. above lower rim. Desc. abruptly over sandstone ledges over which it is impracticable to chain.
61.30	Approximate bottom of canyon, 220 ft. below ledges, course south. Asc. abruptly over sandstone ledges.
69.20	Lower rim of canyon, 130 ft. above canyon, bear N. and S. Asc. abruptly over sandstone ledges.
73.50	Top rim of ledges and rim of bench, 280 ft. above canyon, bears S. and NW. Thence over top of upper bench.
73.66	The cor. of secs. 13, 14, 23 and 24, 280 ft. above canyon.
	Land, rough mountainous with sandstone ledges throughout mile, general drainage to the SE. and SW.
	Soil, rocky, sandy loam on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, yellow-top, shadscale and grass. Poor grazing.

N. 0°01' W. on true line, bet. secs. 13 and 14.

Over rough broken E. slope of bench, through scattered yellow-top, shadscale and grass undergrowth.

5.00 Sandstone ridge, 40 ft. above sec. cor., bears E. and W. Thence asc. gradually over rugged E. slope of bench, numerous rocky spurs and washes of miror importence, projecting and draining to the E.

25.00 Rim of bench, 60 ft. above ridge, bears E. and W. Thence over rolling clay bench.

40.00 On rolling blue clay bench, 10 ft. above rim of same,

Chains	
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock and 14 ins. in a mound of stone, 2½ ft. base, for the ¼ cor. of secs. 13 and 14, with brass cap mkd.,
	¼ S 14 | S 13 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.
	Thence asc. gradually over rolling blue clay bench land, draining to the SW.
76.00	Blue trail, bears E. and W.
76.50	Wash, 10 ft. above ¼ cor., 12 lks. wide, 1 ft. deep, drains S. 75° W. Asc. gradually.
80.00	On gentle S. slope of blue bench, 20 ft. above wash. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 11, 12, 13 and 14, with brass cap mkd.,
	T 43 S. R 3 E S 11 | S 12 S 14 | S 13 1917
	Dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist. from the cor.
	Land, S. portion, rugged E. breaks of bench, draining E. N. portion rolling blue clay bench, draining SW.
	Soil, S. portion rocky, sandy clay loam, on sandstone bedrock, N. portion, blue clay, subsoil same.
	Timber, none.
	Undergrowth, scattered yellow-top, shadscale and grass. Poor grazing.

	S. 89° 52' E., on random line, bet. secs. 12 and 13.
40.00	Set temp. point for ¼ cor.
79.76	Intersect the E. bdy. of Tp. 5 lks. N. of the cor. of

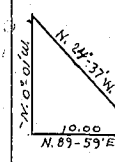
Chains	
	secs. 7, 12, 13 and 18, heretofore described.
	Thence,
	N. 89° 50' W., on true line, bet. secs. 12 and 13.
	Over rolling blue clay bench through scattered shadscale undergrowth.
39.88	On blue clay bench, level with sec. cor.,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 12 and 13, with brass cap mkd.,
	¼ S 12 / S 13 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Continue over blue clay bench.
79.76	The cor. of secs. 11, 12, 13 and 14, .20 ft. above ¼ cor.
	Land, rolling blue clay bench, draining to the SW.
	Soil, blue clay, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale. No grazing.

	N. 0° 01' W., on true line, bet. secs 11 and 12.
	Over rolling blue clay bench land, asc. gradually through scattered shadscale undergrowth.
13.40	Wash, 10 ft. above sec. cor., 12 lks. wide, 1 ft. deep, drains SW. Asc. more abruptly over foothills bearing E. and W.
38.80	Clay spur, 150 ft. above wash, projects S. 10° E. Asc. abruptly over steep foothills.
40.00	On steep S. slope of high gray bluffs, 30 ft. above spur,
	Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in the ground to bedrock, 8 ins. in a mound of stone, 2 ft. base, for the ½ cor. of secs. 11 and 12, with brass cap mkd.,
	½ S 11 | S 12 1917

Chains

Raise a mound of stone, 2 ft. base, 1½ ft. hig h, west of the cor.

41.10 Slope becomes too steep to chain, therefore triangulate as follows to top of high gray bluffs, set a point on line, N. 0° 01' W., at top of ledges, and measure a base line, from the 41.10 chs. point, N. 89° 59' E., a dist. of 10.00 chs., from which point the point on line at top of ledges bears N. 24° 37' W., the dist. is then,



10.00 x tan. 65° 24' or 2.18419 = 21.84 chs.

62.34 Triangulation point at top of high gray bluffs, 670 ft. above ¼ cor., bears SE. and W. Thence over top.

64.70 Top of ledges and N. rim of top of high gray bluffs, bear E. and W., desc. abruptly over ledges to lower bench. Coal veins among ledges of high gray bluffs.

80.00 On narrow bench, on N. slope of high gray bluffs, 330 ft. below top,

Set an iron post, 3 ft. long, 2 ins. dia., 14 ins. in the ground to bedrock, 10 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 1, 2, 11 and 12, with brass cap mkd.,

T 43 S R 3 E

S 2	S 1
S 11	S 12

1917

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

Land, S. portion, rolling blue clay bench, draining to the SW. N. portion, high gray bluffs, sandstone ledges, draining to the N. and S.

Soil, on bench, blue clay, on gray bluffs, rocky, sandy, clay, on sandstone bedrock.

Timber, none.

Undergrowth, scattered shadscale. Poor grazing.

S. 89° 50' E., on random line, bet. secs. 1 and 12.

Chains	Remarks
40.00	Set temp. point for ¼ cor.
72.88	Intersect the E. bdy. of the Tp: 3 lks. S. of the cor. of secs. 1, 6, 7 and 12, heretofore described.
	Thence,
	N. 83° 51' W., on true line, bet. secs. 1 and 12.
	Over rolling blue clay bench land, scattered sandstone outcroppings, through scattered shadscale and grass undergrowth.
32.24	On rolling clay bench, at base of high gray bluffs, 20 ft. above sec. cor.,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 1 and 12, with brass cap mkd.,
	¼ S 1 / S 12 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Thence asc. over foothills, bearing N. 20° W. and S. 20° E. Enter scattered mountain rush, rabbit-brush undergrowth.
42.40	Asc. more abruptly over steep E. slope of high gray bluffs.
61.70	Top of ledges and high gray bluffs, 780 ft. above ¼ cor., project N. 40° E. Desc. abruptly over ledges.
72.88	The cor. of secs. 1, 2, 11 and 12, 330 ft. below ledges.
	Land, E. portion, rolling blue clay bench, with sandstone outcroppings, subsoil same. W. portion, rough, rugged mountainous land, general drainage of mile, SE. and NE.
	Soil, E. portion blue clay mixed with sandstone, subsoil same, W. portion rocky, shallow, sandy, clay loam, On sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, rabbit-brush and grass. Poor grazing.

Subdivision of T. 43 S., R. 3 E.

Chains,	
	North on random line bet. secs. 1 and 2,
40.00	Set temp. point for ¼ sec. cor.
66.10	On account of ledges, offset west a distance of of 3.00 chs.; thence north on offset line.
78.93	Fall 2.44 chs. W. of the W. C. to the cor. of secs. 1, 2, 35, and 36, heretofore described, which is 1.93 chs. S. and 55 lks. west of the true cor. point; therefore at
80.86	After offsetting 3.00 chs. E. to true line, intersect the true N. bdy. of Tp. 1 lk. W. of the true cor. point for cor. of secs. 1, 2, 35, and 36.
	Thence from true cor. point for secs. 1, 2, 35, and 36
	South, on true line, bet. secs. 1 and 2,
	Over rough, rugged, mountainous land; descend abruptly over inaccessible sandstone ledges; through scattered mountain rush, shadscale, rabbit brush and greasewood and grass undergrowth.
1.93	Base of vertical wall, 230 ft. high, bears NW. and E. Offset west 3.00 chs.; thence south on offset line, descending abruptly over sandstone ledges, bearing NW. and SE.
14.76	Offset E. 3.00 chs. to true line; thence south on true line, over sandstone and clay foothills.
20.20	Top of clay sharp spur 420 ft. below true cor. point; spur projects SE. Descend.
26.60	Wash, 110 ft. below spur, 14 lks. wide, 4 ft. deep, drains E. Thence over blue clay bench lands.
33.80	Wash, 20 lks. wide, 3 ft. deep, drains E. Continue over blue clay bench lands.
40.86	On clay bank, 40 lks. west of wash, 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 2 | S 1 (¼) 1917 Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Subdivision of T. 43 S., R. 3 E.

Chains.	
43.90	Ascend abruptly over rocky, clay foothills, bearing E. and W.
55.60	Clay spur, 180 ft. above $\frac{1}{4}$ sec. cor., projects E. Thence descend gradually.
59.00	Rocky wash, 30 ft. below spur, drains from S. to the NE., 40 lks. wide, and 3 ft. deep; thence ascend abruptly along bottom of wash.
60.00	Leave wash, from SW. to north. Ascend abruptly over high sandstone ledges.
74.90	Top of high ledges, 380 ft. above wash, bear E. and W. Thence acend gradually over N. slope.
80.86	The corner of secs. 1, 2, 11, and 12, 20 ft. above ledges.
	Land, rough, rugged, mountainous and rolling lower clay bench or valley; general drainage to the N. S. and E.
	Soil, rocky, sandy clay on the rough mountainous land, on sandstone bedrock; blue clay on the lower bench; subsoil, same, with some sandstone.
	No timber.
	Undergrowth, scattered mountain rush, shadscale, rabbit brush, greasewood, and grass. Poor grazing.

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

N. 0° 01' W. on true line bet. secs. 34 and 35,

Over rolling sandy bench land; through scattered mountain rush, oose-root, sagebrush, shadscale, rabbit brush, and grass undergrowth.

40.00 On sandy bench land, 10 ft. below sec. cor.

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

$$\begin{array}{c} \frac{1}{4} \\ S34 \mid S35 \\ 1917 \end{array}$$

Chains	
	Dig pits, 18 x 18 x 12 ins., N. and S. of the ¼ cor., 3 ft. dist.
43.70	S. rim of box ravine, level with cor., bears E. and W. Desc. abruptly over sandstone ledges.
49.20	Rocky ravine, 100 ft. below bench, course E. Asc. abruptly over steep sandstone ledges.
51.90	N. rim of box ravine, and top of ledges, 100 ft. above ravine, bears with ravine, thence over rolling sandy bench land.
66.40	Edge of bench and S. rim of Wahweap canyon, bears E. and W. Desc. over N. slope of bench.
71.40	Thence over Wahweap canyon bottom, 40 ft. below bench, bears with bench.
80.00	On canyon bottom, near S. side of same, 40 ft. below bench.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 26, 27, 34 and 35, with brass cap mkd.,.

T 43 S R 3 E

S 27	S 26
S 34	S 35

1917

Dig pits, 18 x 18 x 18 ins., in each sec., 5½ ft. dist. from the cor.

Land, rolling sandy bench and Wahweap canyon bottom, general drainage to the E.

Soil, light, dry, sandy loam, subsoil same.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, ooseroot, greasewood, sagebrush, rabbit-brush and grass.

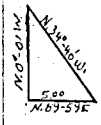
Fair grazing.

	East, on random line, bet. secs. 35 and 26.
40.00	Set temp. point for the ¼ cor.
80.20	Intersect the N. and S. line, 3 lks. north of the cor.

Chains	
	of secs. 25, 26, 35 and 36.
	Thence,
	N. 89° 59' W., on true line, bet. secs. 26 and 35.
	Over rolling sandy land, desc. gradually through scattered mountain rush, nose-root, yellow-top, shadscale and grass undergrowth.
10.00	Valley bottom, 40 ft. below sec. cor., bears NW. and SE. Asc. gradually.
14.00	Sandstone knoll, 20 ft. above valley bottom, bears SE. and NW. Desc. gradually.
18.80	Wash, 20 ft. below knoll, 8 lks. wide, 1 ft. deep, drains SE. Thence asc. gradual E. slope.
30.15	Top of asc. and rim of bench, 80 ft. above wash, bears N. and S. Thence over rolling sandy bench land.
40.10	On sandy bench land, near W. edge of bench,
	Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3 ft. base, for the ¼ cor. of secs. 26 and 35, with brass cap mkd.,
	S 26 ¼ S 35 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
42.30	Rim of bench, level with ¼ cor., bears NW. and SE. Desc. over sandstone ledges bearing with bench.
47.80	Bottom of descent, 50 ft. below bench, bears NW. and SE. Thence over rolling Wahweap canyon bottom.
51.80	Wahweap wash, dry, 50 lks. wide, 4 ft. deep, course SE. Thence asc. gradually.
80.20	The cor. of secs. 26, 27, 34 and 35, 100 ft. above Wahweap wash.
	Land, sandy, rolling bench land and canyon bottom, general drainage to the SE.
	Soil, light, dry sandy loam, with some sandstone. Subsoil rocky sandy.

Chains	
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose-root, yellow-top and grass. Fair grazing.

	N. 6° 01' W., on true line, bet. secs. 26 and 27.
	Over rolling sandy land, desc. gradually through scattered mountain rush, sagebrush, oose-root, yellow-top and grass undergrowth.
22.40	Wahweap wash, 90 ft. below cor., 2.00 chs. wide, 3 ft. deep, course from W. to S. 70° E.. Wash is now dry. Asc. gradually.
32.44	Set flag.
38.90	Foot of vertical wall of white sandstone, over which it is impracticable to chain, therefore, since I cannot see the top from this point , return to the flag at 32.44 chs. and set a point of line, N. 0° 01' W., at top of ledges, and measure a base line, N. 89° 59' E., a dist. of 5.00 chs. from which point the flag at top of ledges, bears N. 34° 40' W. The dist. is then,
	5.00 x tan. 55° 21' or 1.44688 = 7.23 chs.
39.67	Top of sandstone ledges, 170 ft. above Wahweap wash, bear N. 10° W. and S. 10° E. At this point,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the W. C. to the ¼ cor. of secs. 26 and 27, with brass cap mkd.,
	W C ¼ S 27 | S 26 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W.C.
40.00	Point falls on bare sandstone rock, on unsafe ground. Mark cross in rock at true cor. point. Cor. not set. Asc. over steep south slope of bench.
47.50	Ridge, 250 ft. above Wahweap wash, bears NW. and SE.
	Thence along broken E. edge of bench and W. rim of



Chains

box canyon.

58.56 Offset a dist. of 5.00 chs. W. to avoid inaccessible bends and points along E. wall of bench. Thence N. 0° 1' W., on offset line, over rolling bench.

74.94 Offset E. a dist. of 5.00 chs. to true line, to top of sand spur, 40 ft. above bench, projects, E. about 4.00 chs. dist. Thence N. 0° 01' W., on true line.

80.00 On rolling bench, 60 ft. below spur.

Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground, to bedrock, 12 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 22, 23, 26 and 27, with brass cap mkd.,

T 43 S R 3 E

S 22	S 23
S 27	S 26

1317

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

Land, rolling sandy bench land and dry canyon bottom, sandstone ledges on N. portion. General drainage to the SE. and S.

Soil, rocky, sandy loam, some gravel along creek bed.

Subsoil, sandy, rocky.

Timber, none.

Undergrowth, scattered mountain rush, sagebrush, goose-root, yellow-top and grass. Fair grazing.

S. 89° 59' E., on random line, bet. secs. 23 and 26.

On account of high sandstone ledges, triangulate as follows; measure a base line, S. 0° 01' W., a dist. of 10.00 chs., and also set a flag on line, S. 89° 59' E. at top of ledges, which flag bears N. 70° 51' E. from the S. end of base, the dist. is then,

10.00 x tan. 70° 50' or 2.87700 = 28.77 chs.

Chains	
28.77	Triangulation point.
38.17	On account of sandstone ledges over which it is impracticable to chain triangulate as follows, set a point on line S. 89° 59' E. and from this point measure a base line N. 0° 01' E., a dist., of 3.66 chs. From the latter point the angle between the two flags is 71° 46', the dist. is then,
	3.66 x tan. 71° 46' or 2.03556 = 23.38 chs.
	As the 40.00 chs. point falls on side of ledges where it cannot be reached set temp. point for W. 1 cor.
67.49	Triangulation point.
80.06	Intersect the N. and S. line, 8 lks. N. of the cor. of secs. 23, 24, 25 and 26.
	Thence,
	N. 89° 56' W., on true line, bet. secs. 23 and 26.
	Over rolling lower sandy bench land, through scattered sagebrush, oose-root, yellow-top and mountain rush undergrowth.
12.54	On account of high sandstone ledges ahead triangulate from this point. Desc. abruptly over sandstone ledges.
28.00	Approximate bottom of rocky canyon, 140 ft. below triangulation point, course SE. Asc. abruptly over high sandstone ledges. True cor. point inaccessible.
40.03	Point for $\frac{1}{4}$ sec. cor.; cor. not set.
41.89	Top of high sandstone ledges and rim of bench, 500 ft. above canyon, bears NW. and SE. Thence across nearly level bench land.
	At this point,
	Set an ironpost, 3 ft. long, 1 in. dia., 26 ins. in a mound of stone, 4 ft. base, on sandstone bedrock, for the W. C. to the cor. of secs. 23 and 26, with brass capmkd.,
	$\frac{1}{4}$ $\frac{S\ 23}{S\ 26}$ WC
	1917
	Raise a mound of stone, 2 ft. base, 1 ft. high, north of the W.C.

Chains	
51.29	W. rim of high bench and triangulation point, level with ¼ W.C., bears NW. and SE. Desc. abruptly over high sandstone ledges.
72.10	Approximate bottom of canyon, 480 ft. below bench, course S. Asc. abruptly over sandstone ledges.
77.90	Top of ledges and rim of mesa, 130 ft. above canyon, bears N. and S. Thence over rolling mesa.
80.06	The cor. of secs. 22, 23, 26 and 27, 130 ft. above canyom. Land, rough, mountainous, sandstone ledges, and rolling bench land, general drainage to the S. Soil, shallow, sandy, rocky, subsoil rocky. Timber, none. Undergrowth, scattered sagebrush, oose-foot, yellow-top and mountain rush. Poor grazing.

	N. 0° 01' W., on true line, bet. secs. 22 and 23. Over rough mountainous land, through scattered sagebrush, yellow-top, mountain rush, oose, ro ot and grass undergrowth. On account of point of high bench projecting W. over which it is impossible to chain, offset W. a dist. of 22.13 chs., thence N. 0° 01' W., on offset line over broken bench land. Asc. gradually.
9.00	Sandy spur, 20 ft. above bench, projects E. about 3.00 chs. dist. Desc. gradually.
14.00	Ravine, 40 ft. below spur, course E. Asc. gradually.
17.00	Spur, 30 ft. above ravine, projects about 1.00 ch. dist. E. Desc. gradually.
23.45	Wash, 100 ft. below spur, 20 lks. wide, 3 ft. deep, drains SW. Asc. gradually.
26.70	Top ridge, 60 ft. above wash, bears E. and W.
27.00	Rim of ridge and top of white sandstone wall, bearing with ridge, Desc. abruptly.
30.00	Bottom of sandstone wall, 90 ft. below top. Bears same.
31.20	Wash in bottom of canyon, 100 ft. below top of sandstone

Chains	
	ledges. Asc. abruptly over sandstone ledges.
33.60	Top of ledges, 100 ft. above canyon, bear with canyon.
36.67	Offset 29.13 chs. dist., E. to true line, thence N. 0° 01' W. on true line, over broken bench land.
40.00	On broken bench, 10 ft. above top of ledges, Set an iron post, 3 ft. long, 1 in. dia., 13 ins. in the ground to bedrock, 13 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 22 and 23, with brass cap mkd.,

¼

S 22 | S 23

1917

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

65.00	On account of sandstone ledges over which it is impracticable to chain, triangulate as follows, measure a base line, S. 89° 59' W., a dist. of 10.00 chs. and set flag, then from a point on line, N. 0° 01' W., the flag at W. end of base bears S, 54° 59' W. The dist. is then,

S. 54°-59' W. / S. 89°-59' W. 10.00

10.00 x cotan. 55° or .70021 = 7.00 chs.

72.00	Top of ledges and rim of bench, 290 ft. above bench, bears SW. and SE. Thence over broken high bench.
80.00	On high bench, Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in the ground, to bedrock, 14 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 14, 15, 22 and 23, with brass cap mkd.,

T. 43 S. R. 3 E.

S 15 | S 14

S 22 | S 23

1917

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

Land, broken bench and rugged sandstone ledges, general

Chains	
	drainage to the SE. and SW.
	Soil, rocky, sandy clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered sagebrush, yellow-top, mountain mahogany, ocse-root and grass. Fair grazing.
	S. 82° 56' E., on random line, bet. secs. 14 and 23.
40.00	Set temp. point for the ¼ cor.
80.21	Intersect the N. and S. line, 40 lks. S. of the cor. of secs. 13, 14, 23 and 24.
	Thence,
	S. 82° 47' E., on true line, bet. secs. 14 and 23.
	Over rough, broken bench land, through scattered yellow-top, shadscale and grass undergrowth.
0.00	Rim of bench, bears N. 20° W. and S. 20° E. Level with sec. cor., Desc. abruptly over sandstone ledges.
10.50	Gulch, 110 ft. below bench, course S. 10° E. Thence over narrow valley between gulch and canyon.
21.70	Box canyon, 60 ft. below valley, 70 lks. wide, course N. 70° E. Asc. abruptly over sandstone ledges.
36.70	Rim of bench, 150 ft. above canyon, bears with canyon. Thence asc. to higher bench.
71.70	Higher bench, 40 ft. above bench, bears N. and SW. Thence over top of higher bench.
40.10	On higher bench,
	Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 14 and 23, with brass cap mkd.,
	S 14 / S 23 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Continue over rolling, rocky top of bench.
72.00	Clay and sandstone ridge, 70 ft. above bench, bears N.

Chains	
	and S. Desc. into cove.
75.40	Bottom of cove, 40 ft. below ridge, drains S. Asc. gradually.
77.60	Bench, 30 ft. above cove, bears N. and S. Thence over bench.
80.21	The cor. of secs. 14, 15, 22 and 23, level with bench.
	Land, brokem, rocky, benches with sandstone ledges, at numerous places throughout mile. General drainage S.
	Soil, rocky, sandy clay, on rocky sandstone and clay subsoil.
	Timber, none.
	Undergrowth, scattered shadscale, yellow-top and grass. Fair grazing.

	N. 0° 01' W., on true line, bet. secs. 14 and 15.
	Over rolling clay bench land, desc. gradually through scattered shadscale and grass undergrowth.
3.10	Bottom of cove, 30 ft. below sec. cor., drains SE. Asc. gradually.
9.10	Thence over rolling clay bench, 130 ft. above cove, bears with cove.
40.00	On rolling clay bench, 10 ft. above bench,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 14 and 15, with brass cap mkd.,
	¼ S 15 | S 14 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of the cor., 3 ft. dist.
	Continue over rolling clay hills.
80.00	On rolling clay bench, 10 ft above ¼ cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 10, 11, 14 and 15, with brass cap mkd.,

Chains	

T 43 S R 3 E

S 10	S 11
S 15	S 14

1917

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

Land, rolling bench land, clay hills.. General drainage to the S.

Soil, blue clay, subsoil same. Some sandstone outcrops.

Timber, none.

Undergrowth, scattered shadscale and grass. Poor grazing.

N. 89° 47' E., on random line, bet. secs. 11 and 14.

40.00 Set. temp. point for the ¼ cor.

80.09 Intersect the cor. of secs. 11, 12, 13 and 14.

Thence,

S. 89° 47' W., on true line, bet. secs. 11 and 14.

Over rolling blue clay bench land through scattered shadscale undergrowth.

10.00 Wash, 20 ft. below sec. cor., 10 lks. wide, 1 ft. deep, drains SW.

12.40 Wash, level with wash, 14 lks. wide, 1½ ft. deep, drains S. 20° W.

21.80 Wash, level with wash, 8 lks. wide, 2 ft. deep, drains S.

28.60 Wash, level with wash, 20 lks. wide, 3 ft. deep, drains S, 10° E.

40.04½ On blue clay bench, 40 ft. above wash.

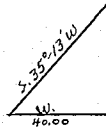
Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 11 and 14, with brass cap mkd.,

¼ S 11
S 14
1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, north

Chains	
	of the cor.
	Asc. gradually over rolling blue clay hills.
46.20	Wash, 10 ft. above ¼ cor., 10 lks. wide, 1 ft. deep, drains S. 10° E. Thence over rolling blue clay hills.
62.00	Wash, level with wash, 10 lks. wide, 5 ft. deep, drains SE.
80.09	The cor. of secs. 10, 11, 14 and 15, 20 ft. above wash.
	Land, rolling blue clay bench and hills. General drainage to the S.
	Soil, blue clay, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale. Poor grazing.

	N. 0° 01' W., on true line, bet. secs. 10 and 11.
	Over rolling blue clay bench through scattered shadscale undergrowth.
20.00	Base, of high gray bluffs, bearing E. and W. Impracticable to chain farther on account of steep slope and sandstone ledges. Therefore triangulate as follows, Return to the sec. cor. and lay out a base line, west a dist. of 40.00 chs. and set flag. Then set a point at top of gray bluffs, N. and from this point the flag at W. end of base bears S. 35° 13' W. The dist. is then,
	40.00 x cotan. 35° 13' or 1.41672 = 56.67 chs.
	Offset 2 lks. W. to true line.
40.00	Inaccessible, falls on side of sandstone ledges.
56.67	On true line, at top of gray bluffs, bear E. and W. 1000 ft. above sec. cor.
	No iron post available, therefore set a sandstone, 28 x 18 x 8 ins., on sandstone bedrock, 21 ins. in a mound of stone, 3 ft. base, for the W. C. to the ¼ cor. of secs. 10 and 11, mkd., W.C. ½ on W. face.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W.C.
	Desc. over rocky, broken bench at top of gray bluffs.
	Enter scattered mountain rush, greasewood and grass undergrowth, bears with gray bluffs.



Chains	
77.40	Rocky spur, 40 ft. below ¼ W.C., projects E. Desc. abruptly over sandstone ledges.
80.00	On rocky E. slope, in ravine, draining E., 50 ft. below spur,
	Set an iron post, 3 ft. long, 2 ins. dia., on sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs., 10, 11, 2 and 3, with brass cap mkd.,

T. 43 S. R. 3 E.

S 3	S 2
S 10	S 11

1917

	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling blue clay bench and rough rugged mountainous land, sandstone ledges, general drainage to the S. and N.
	Soil, on bench, blue clay, subsoil same, balance of mile, rough, rocky, sandy clay. On sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood and grass. Poor grazing.
	N. 89° 47' E., on random line, bet. secs. 2 and 11.
40.00	Set temp. point for ¼ sec. cor.
79.60	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 1, 2, 11 and 12; thence
	S. 89° 45' W., on true line bet. secs. 2 and 11.
	Over rough, broken, ledgy mountainous land, having a general face to the N.; through short scattered undergrowth.
	Abrupt ascent over E. face, over series of sandstone ledges 20 to 50 ft. high, extending N. and SE.
16.90	High spur, 460 ft. above sec. cor., projects N.6 chs. dist. to break off, and brs. S.7 chs. to main ridge, E. and W.
	Abrupt descent over ledges on W. and NW. faces, 350 ft. to
27.40	Gulch, course N.; abrupt ascent over E. slope, 270 ft. to
34.28	Top of high spur, projects N.7 chs. to break off and brs.

Chains	
	S.20°W. about 15 chs. to main ridge bearing E. and W.
	At this point, Set an iron post, 3 ft. long, 1 in. dia.,
	26 ins. in ground, for the witness cor. to ¼ cor. of secs.
	2 and 11, with brass cap mkd.
	$WC\frac{1}{4}\ \frac{S2}{S11}\ 1918$
	Raise a mound of stone, 2ft. base, 1½ft. high, N. of cor.
	Descend abruptly over ledgy W. & NW. slopes.
39.80	True point for ¼ sec. cor., falls on steep NW. face, among
	ledges and boulders, where cor. could not be prepetuated.
50.75	Canyon, 460 ft. below last spur, course N.20°E. to NE.
	Asc. along draw from the W., over huge boulders.
55.40	Draw from S.80°W., course NE.;thence over SE. & S. slopes.
66.05	Draw, 30ft. deep, course S.80°E.; thence over NE & N. slopes.
70.40	Draw, 30ft. deep, course NE. for 2 chs.,thence to S.80°E.
	Continue ascent
79.60	The cor. of secs. 2, 3, 10 and 11, 560ft. above canyon.
	Land, rough mountainous, with sandstone ledges throughout
	mile; general face and drainage to N.
	Soil, very shallow sandy clay mixed with rock; sandstone
	ledges and boulders.
	Undergrowth, short scattered shadscale & grass. No timber.
	North., on random line, bet. secs. 2 and 3.
40.00	Set temp, point for the ¼ cor.
81.03	Intersect the N. bdy. of the Tp. 14 lks. E. of the cor.
	of secs. 34, 35, 2 and 3, heretofore described.
	Thence,
	S. 0° 06' E., on true line, bet. secs. 2 and 3.
	Over rough mountainous land, desc. abruptly over sand-
	stone ledges, through scattered mountainrush, shadscale,
	greasewood, yellow-top and grass undergrowth.
4.20	Rocky ravine, 90 ft. below sec. cor., course SW. Asc.
	over broken sandstone ledges.
17.30	Sandstone spur, 90 ft. above ravine, projects W. Desc.
	gradually.

Chains	
19.00	Head of rocky ravine, 30 ft. below spur, course W. Asc. over sandstone ledges.
29.90	Rocky spur, 60 ft. above head of ravine, projects W. Desc. over sandstone ledges.
33.40	Rocky ravine, 50 ft. below spur, course NW. Asc. over sandstone ledges.
41.03	On sandstone spur, projects NW., 80 ft. above ravine. Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 31 ft. base, for the ¼ cor. of secs. 2 and 3, with brass cap mkd.,
	S 3 | S 2
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Asc. over sandstone ledges.
50.20	Sandstone spur, 100 ft. above ¼ cor., projects E. Desc. abruptly over sandstone ledges.
57.00	Rocky canyon, 170 ft. below spur, course E. Asc. over sandstone ledges.
62.80	Rocky spur, 40 ft. above canyon, projects E. Desc. abruptly over sandstone ledges.
69.50	Rocky canyon, 170 ft. below spur, course E. Asc. abruptly over sandstone ledges.
74.70	Sandstone spur, 170 ft. above canyon, projects E. Desc. over broken sandstone ledges.
81.03	The cor. of secs. 10, 11, 2 and 3, 30 ft. below spur. Land, rough mountainous, with sandstone ledges throughout mile, general drainage to the E. and W. Soil, shallow rocky, sandy clay, on sandstone bedrock. Timber, none. Undergrowth, scattered mountain rush, shadscale, yellow-top, greasewood and grass. Fair grazing.

Chains	
	From the cor. of secs. 33, 34, 3 and 4, heretofore described, on S.bdy. of Tp.
	N. 0° 02' W., on true line, bet. secs. 33 and 34.
	Over rolling sandy bench land, desc. gradually through scattered mountain rush, shadscale, greasewood, yellow-top and grass undergrowth.
13.50	Wash, in bottom of swale, 30 ft. below sec. cor., 20 lks. wide, 3 ft. deep, drains N. 70° E. Asc. abruptly.
15.80	Clay knoll, 40 ft. above wash, bears E. and W. Desc. gradually.
33.00	Wash, 14 lks. wide, 2 ft. deep, 30 ft. below knoll, drains E. Asc. gradually.
40.00	On sandy bench land, 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. 33 and 34, with brass cap mkd.,
	S 33 | S 34 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of the cor., 3 ft. dist.
	Asc. gradually over S. slope.
65.00	Flat sand ridge, 40 ft. above ¼ cor., bears E. and W. Desc. gradual N. slope of ridge.
78.00	Rim of bench and S. rim of Walnut canyon, bears E. and W. 20 ft. below ridge. Desc. abruptly over sandstone ledges.
80.00	At foot of sandstone ledges, 60 ft. below bench, bears N. 80° W., and S. 80° E.
	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 43 S R 3 E S 28 | S 27 S 33 | S 34 1917

Chains

from which,

A cross mark on sandstone ledges, bears S. 45° E., 3 lks. dist., mkd., B C T 43 S R 3 E S 34.

A cross mark on sandstone ledges bears S. 45° W., 3 lks. dist., mkd., T 43 S R 3 E S 33 B C.

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

Land, rolling sandy bench, general drainage to the E.

Soil, light, dry, sandy loam, subsoil same.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, greasewood, yellow-top and grass. Good grazing.

F. on random line, bet. secs. 27 and 34.

40.00 Set temp. point for the ¼ sec. cor.

79.67 Intersect the N. and S. line 9 lks. W. of the cor. of secs. 26, 27, 34 and 35.

Thence,

N. 82° 56' W., on true line, bet. secs. 27 and 34.

Over rolling sandy land, through scattered mountain rush, greasewood, goose-root, shadscale, rabbit-brush and grass undergrowth.

39.33½ On sandy N. edge of bench lands, level with sec. cor. Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in the mound of stone, 3½ ft. base, for the ¼ cor. of secs. 27 and 34, with brass cap mkd.,

¼ S 27 / S 34 1917

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

39.87 The cor. of secs. 27, 28, 33 and 34, level with ¼ cor. Land, rolling sandy edge of bench, draining to the N.

Chains	
	Soil, light, dry, sandy, loam, subsoil, rocky, sandy.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood, oose-root, rabbit-brush and grass. Fair grazing.

	N. 0° 02' W., on true line, bet. secs. 27 and 28.
	Over Wahweap canyon bottom, desc. gradually through scattered mountain rush, oose-root, shadscale, yellow-top and grass undergrowth.
5.30	Thence across level canyon bottom, 10 ft. below sec. cor.
27.20	Wash, 5 lks. wide, 4 ft. deep, 20 ft. below sec. cor., drains NE.
33.20	Wahweap creek bed, 1.60 chs. wide, 4 ft. deep, dry except for a few small water holes, course from S. 66° W. to S. 66° E.
35.50	Base of sandstone ledges, forming the E. or N. edge of canyon bottom, bears E. and W. Asc. abruptly over sandstone ledge.
37.00	Top of sandstone ledge and rim of bench, 100 ft. above Wahweap creek, bears E. and W. Thence over rolling sandy bench.
40.00	On sandy bench, 100 ft. above Wahweap creek.
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 27 and 28, with brass cap mkd.,
	¼ S 28 | S 27 1317
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.
	Continue over rolling bench land.
80.00	On rolling bench, 10 ft. above ¼ cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in the ground th bedrock, 16 ins. in a mound of stone, 3 ft.

Chains	
	base, for the cor. of secs. 21, 22, 27 and 28, with brass cap mkd.,
	T 43 S R 3 E S 21 | S 22 S 28 | S 27 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling sandy canyon bottom and bench, general drainage to the SE.
	Soil, light, dry sandy, subsoil, sandy, rocky.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, yellow-top, oose-root and grass. Fair grazing.

	S. 89° 56' E., on random line, bet. secs. 22 and 27.
40.00	Set temp. point for the ¼ cor.
50.82	On account of sandstone ledges, offset S. a dist. of 5.06 chs. thence on offset line, S. 89° 56' E.
77.85	Offset N. a dist. of 5.06 chs., to trueline, thence S. 89° 56' E., on true random line.
79.35	Intersect the N. and S. line 15 lks. S. of the cor. of secs. 22, 23, 26 and 27.
	Thence,
	S. 89° 58' W., on true line, bet. secs. 22 and 27.
	Over rough mountainous land through scattered shadscale, yellow-top and grass undergrowth.
2.10	Rim of box canyon, level with sec. cor., bears NE. and SW. Desc. abruptly over sandstone ledges over which it is impracticable to chain, therefore offset 5.06 chs. S. thence S. 89° 58' W., on offset line, over broken bench land.
29.13	Offset N. a dist., of 5.06 chs., to true line, thence S. 89° 58' W., on true line over rolling and broken bench land.

Chains	
39.97½	On E. slope of sand ridge, 80 ft. above sec. cor. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 22 and 27, with brass cap mkd.,
	½ S 22 / S 27 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Asc. gradually over E. slope of ridge.
41.50	Sand ridge, 10 ft. above ½ cor., bears NE. and SE. Desc. gradual W. slope of ridge.
48.00	Wash, 100 ft. below ridge, 20 lks. wide, 4 ft. deep, drains S. Asc.
51.00	Point of white sandstone spur, 40 ft. above wash, projects SW. about 4.00 chs. dist., desc. over rocky NW. slope.
56.00	Rocky ravine, 40 ft. below spur, course south. Asc. rocky E. slope.
70.00	S. edge of white sandstone butte, 230 ft. above ravine, bears N. and S. Desc. abruptly from butte.
73.00	Leave butte, bears N. and S. 230 ft. below top, thence over broken bench.
79.95	The cor. of secs. 21, 22, 27 and 28, 230 ft. below butte. Land, broken bench land, with high sandstone butte and box canyon. General drainage to the S.
	Soil, shallow, rocky sandy, on rocky sandy subsoil.
	Timber, none.
	Undergrowth, scatered shadscale, yellow-top and grass. Fair grazing.
	N. 0° 02' W., on true line, bet. secs. 21 and 22. Over broken sandy bench land, through scattered yellow-top, oose-root, shadscale and grass, undergrowth.
9.90	Asc. sandy, rocky spur, bears NE. and SW.
17.90	Sandy spur, 150 ft. above bench, projects SW. Desc.

Chains	
19.22	Base of sandstone ledge projecting W. from sandstone bu[tte]. impossible to chain over ledges. therefore offset, W. 1.00 chs. dist., thence N. 0° 02' W., on offset line.
28.80	Sandstone butte on true line, 100 ft. high, continue on offset line.
28.92	Offset E. 1.00 ch. dist. to true line, thence N. 0° 02' W., on true line. 30 ft. below sand spur. Desc. into lower bench.
40.00	On N. slope of sandstone butte, 70 ft. below offset point. Set an iron post, 3 ft. long, 1 ins. dia., 10 ins. in the ground to bedrock, 16 ins. in a mound of stone, 2½ ft. base, for the ¼ cor. of secs. 21 and 22, with brass cap mkd. ¼ S 21 | S 22 1317 No more stone available for mound, therefore dig pits, 18 x 18 x 12 ins., N. and S. of the cor., 3 ft. dist. Continue desc.
45.00	Rolling bench at base of descent, 30 ft. below ¼ cor., bears NE. and SW. Thence across broken bench.
51.50	Wash, 50 ft. below ¼ cor., 8 lks. wide, 6 ins. deep, drains E.
58.90	Wash, level with wash, 8 lks. wide, 6 ins. deep, drains SE. Asc. gradually.
73.50	Rim of ravine, 10 ft. above wash, bears E. and W. Desc. over sandstone ledges.
73.70	Wash, in rocky ravine, 40 ft. below rim, 14 lks. wide, 1 ft. deep, drains E. Asc. over sandstone ledges.
80.00	Falls on steep sandstone bank, bearing E. and W. Impossible to set cor.
80.62	On broken bench, on N. edge of rocky ravine, 50 ft. above wash, Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground to bedrock, 12 ins. in a mound of stone 2 ft. base, for the W. C. to the cor. of secs. 15, 16, 21

chains

and 22, with brass cap mkd.

T 43 S R 3 E

S 16	S 15
S 21	S 22

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.

Land, broken bench land, general drainage to the S. and E.

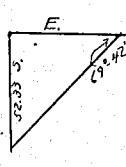
Soil, sandy clay. Subsoil same, rocky.

Timber, none.

Undergrowth, scattered yellow top, oose-root, shadscale and grass. Fair grazing.

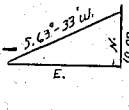
From true point for cor. of secs. 15, 16, 21, and 22, N. 89° 58' E., on random line, bet. secs. 15 and 22.

On account of ledges over which it is impracticable to chain, triangulate as follows, set a point on line, E. from which point the flag previously set 52.33 chs. S. of the sec. cor., makes an angle of 69° 42' with the sec cor., the dist. is then,



52.33 x cotan 69° 42' or .36931 = 19.36 chs.

19.36 Triangulation point. On account of ledges over which it is impracticable to chain triangulate from triangulation point as follows, set a point on line E. at top of ledges, from which point measure a base line, N. a dist. of 10.00 chs., from which point the W. triangulation point bears S. 63° 33' W. The dist. is then,



10.00 x tan. 63° 33' or 2.01008 = 20.10 chs.

39.46 Triangulation point. Offset N. a dist. of 2½ lks. to true random line. Thence N. 89° 58' E.

40.00 Set temp. point for ¼ sec. cor.

79.80 Intersect the N. and S. line, 16 lks. N. of the cor. of secs. 14, 15, 22 and 23.

Thence,

N. 89° 55' W., on true line, bet. secs. 15 and 22.

Over broken bench land through scattered mountain rush,

Chains	
	shadscale, yellow-top and grass undergrowth.
5.40	Wash, 120 ft. below sec. cor., 20 lks. wide, 4 ft. deep, in rocky gulch, course SE. Asc.
18.40	Top of N. slope of sandstone butte, 40 ft. above wash, projects N. desc. gradually.
39.90	On broken bench, 30 ft. below N. slope of butte, Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the ¼ cor. of secs. 15 and 22, with brass cap mkd.,

¼ S 15
S 22
1917

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

40.34	Triangulation point at rim of upper bench, level with ¼ cor. Desc. abruptly over sandstone ledges.
60.44	Triangulation point on lower bench, 180 ft. below ¼ cor., thence over broken sandstone ledges, desc.
69.80	Approximate bottom of rocky canyon, 290 ft. below ¼ cor., course SE. Asc. abruptly over sandstone ledges.
79.80	Point for cor. secs. 15, 16, 21 and 22, 110 ft. above canyon. Land, rough mountainous with numerous sandstone ledges, general drainage to the SE. Soil shallow sandy clay, on rocky subsoil. Timber, none. Undergrowth, scattered mountain rush, shadscale, yellow-top and grass. Poor grazing.

N. 0° 02' W., on true line, bet. secs. 15 and 16.
From the true cor. point.
Over rough, broken bench land, asc. over low sandstone ledges, through scattered shadscale, yellow-top, white sagebrush undergrowth.

.62	The witness cor. of secs. 15, 16, 21 and 22, 20 ft.

chains	
	above true point.
4.10	Sandy spur, 50 ft. above true cor. point, projects SE. about 10.00 chs. dist. Desc. gradually.
12.30	Top of vertical white sandstone wall, 10 ft. below spur, bears NW. and SE. Desc. abruptly.
13.00	Base of sandstone wall, 50 ft. below top, bears same as top. Enter wash, 20 lks. wide, 2 ft. deep, drains from N. to SE. Thence up wash bottom.
18.00	Leave wash, drains from NW. to S. Asc. abruptly over white sandstone ledges, bearing NW. and SE.
26.20	Rocky spur, 90 ft. above wash, projects W. about 2.00 chs. dist. Thence over broken bench.
33.70	Rocky gulch, 80 ft. below spur, course W. Asc. abruptly.
39.20	Top of broken W. point of high bench, 100 ft. above gulch, projects SW. Desc. gradually along broken top of higher bench.
40.00	On broken W. point of bench, Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone, 26 ins. in a mound of stone, 4 ft. base, for the $\frac{1}{4}$ cor. of secs. 15 and 16, with brass cap mkd., $\frac{1}{4}$ S 16 | S 15 1917 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of the cor.
42.20	Vertical edge of broken bench, 20 ft. below $\frac{1}{4}$ cor., bears NE. and SW. Desc. abruptly over sandstone ledges.
44.00	Wash, in box canyon, 130 ft. below bench, 20 lks. wide, 3 ft. deep, drains from NW. to SW. Asc. abruptly over sandstone wall.
47.80	Top of sandstone wall, 130 ft. above wash, bears N. 70° W. and S. 70° E. Thence over broken bench.
53.00	Asc. abruptly over sandstone ledges, bears NE. and SW.
54.60	Top of ledges, 50 ft. above top of sandstone wall,

Chains	
	bear NE. and SW. Thence over broken clay bench, covered with brown sandstone.
64.60	Asc. gradual S. slope of low ridge.
67.30	Low ridge, 30 ft. above bench, bears E. and W. Thence desc. gradually over rolling bench.
80.00	On rolling bench, 20 ft. below ridge, Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 9, 10, 15 and 16, with brass cap mkd.,

T 43 S R 3 E

S 9 | S 10

S 16 | S 15

1917

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

Land, broken benches, cut by box canyons draining SW. and SE.

Soil, rocky, sandy clay, subsoil, rocky clay.

Timber, none.

Undergrowth, scattered shadscale, yellow-top, white sagebrush. Very little grazing.

S. 89° 55' E., on random line, bet. secs. 10 and 15.

40.00	Settemp. point for the ¼ sec. cor.
79.99	Intersect the N. and S. line, 5 lks. S. of the cor. of secs. 10, 11, 14 and 15,
	Thence,
	N. 89° 57' W., on true line, bet. secs. 10 and 15. Over rolling clay bench land, with numerous sandstone outcroppings through scattered shadscale undergrowth.
13.00	Enter scattered white sagebrush undergrowth, bears N. and S.
39.99½	On rolling clay bench, 10 ft. above sec. cor. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 10 and 15, with brass cap mkd.,

Chains	
	$\frac{1}{4}$ S. 10 / S 15 / 1917
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, north of the cor.
	Continue over rolling clay bench.
79.99	The cor. of secs. 9, 10, 15 and 16, level with $\frac{1}{4}$ cor.
	Land, rolling blue clay bench, general drainage to the S.
	Soil blue clay, mixed with brown sandstone, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale and white sagebrush.
	No grazing.
	N. 0° 02' W., on true line, bet. secs. 9 and 10.
	Over rolling blue clay hills, asc. gradually through scattered white sagebrush, shadscale, greasewood and grass undergrowth.
40.00	On small clay spur, 20 ft. above sec. cor., projects W. about 50 lks. dist. to ravine.
	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground to bedrock, 10 ins. in a mound of stone, 2 ft. base, for the $\frac{1}{4}$ cor. of secs. 9 and 10, with brass cap mkd.,
	$\frac{1}{4}$ / S 9 | S 10 / 1917
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of the cor.
	Desc. gradually.
41.00	Clay ravine, 10 ft. below $\frac{1}{4}$ cor., course SW. Asc. over clay foothills of high gray bluffs.
45.00	Base of steep clay S. slope and sandstone ledges, bear S. 70° W. and N. 70° E. Impracticable to chain farther, therefore triangulate as follows, set a point on line, N. 0° 02' W., at top of ledges, and set flag, then

Chains

from the 45.00 chs. point measure a base line, N. 89° 58' E., a dist. of 16.00 chs. and set flag. From the point at top of ledges the flag at E. end of base line bears S. 28° 10' E. The dist. is then,

16.00 x cotan. 28° 08' or 1.87021 = 29.93 chs.

74.30 Triangulation point at top of high gray ledges, 680 ft. above ¼ cor., bears S. 65° W. and N. 65° E. Thence over rocky top of ledges.

80.00 On rocky top of high gray bluffs, 680 ft. above ¼ cor. Set an iron post, 3 ft. long, 2 ins. dia., 3 ins. in the ground to bedrock, 21 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 3, 4, 8 and 10, with brass cap mkd.,

T 43 S R 3 E

S 4	S 3
S 9	S 10

1917

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

Land, S. portion rolling blue clay bench, N. portion rough, rugged mountainous, with sandstone ledges, general drainage tothe NW. and S.

Soil, on bench, blue clay with sandstone, subsoil same, N. portion, shallow sandy clay, on sandstone bedrock.

Timber, none.

Undergrowth, scattered sagebrush, shadscale, greasewood, and grass. No grazing.

S. 89° 57' E., on random line, bet. secs. 3 and 10.

8.30 Line passes over ledges over which it is impossible to chain, therefore triangulate as follows, set a point on line, S. 89° 57' E. and set flag. Then from the 8.30 chs. point, measure a base line N. 0° 03' E., a distance of 10.65 chs., from which point the flag set on line, bears S. 60° 54' E. the dist. is then,

Chains	
	10.65 x tan. 60° 57' or 1.80034 = 19.17 chs.
28.07	Triangulation point.
38.11	Impracticable to chain farther, therefore set. temp. point for the ¼ sec. cor., It is impossible to chain or triangulate E. from this point, on account of sandstone ledges, therefore return to the W. triangulation point and set a point on line, S.89° 57' E., at top of high gray bluffs and from the latter point measure a base, S. 0° 03' W., a distance of 16.54 chs. It is impossible to get a longer base on account of ledges. From the S. end of base the angle between the N. end of base and the flag at the 8.90 chs. point is 74° 00', the dist. is then,
	16.54 x tan. 74° 00' or 3.48741 = 57.68 chs.
66.58	Triangulation point.
80.15	Intersect the N. and S. line, 19 lks. N. of the cor. of secs. 2, 3, 10 and 11.
	Thence,
	N. 89° 43' W., on true line, bet. secs. 3 and 10.
	Over rough mountainous land, asc. through scattered shadscale, yellow-top, mountain rush, greasewood and grass undergrowth.
4.50	Narrow top of ridge, 80 ft. above sec. cor., bears N. and S. Desc. gradually over broken sandstone ledges.
13.55	Triangulation point and top of high sandstone ledges, 20 ft. below ridge, bear NE. and SW. Desc. abruptly over inaccessible sandstone ledges.
40.07½	Point falls on side of sandstone ledges, sloping S., impracticable to set cor.
42.04	On steep S. slope of ledges, bearing E. and W., 320 ft. below ridge,
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 3½ ft. base, for the W.C. to the ¼ cor. of secs. 3 and 10, with brass cap mkd.,

Chains	
	$\frac{1}{4}$ S 3 WC S 10 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, w. north of the W.C.
	Thence asc. abruptly over steep SE. and S. slope of high ledges.
52.08	Triangulation point, thence asc. abruptly over steep SE. slope of ledges.
71.25	Triangulation point at top of gray bluffs, 220 ft. above $\frac{1}{4}$ W.C., bear S. 60°W., and N. 60° E. Desc. abruptly over sandstone ledges.
80.15	The cor. of secs. 3, 4, 9 and 10, 130 ft. below gray bluffs.
	Land, extermely rugged, mountainous land, with sandstone ledges throughout mile, general drainage to the S.
	Soil, shallow, rocky sandy, on sandstone bedrock.
	Timber, none.
	Undergtowth, scattered shadscale, yellow-top, greasewood, mountain rush and grass. Too rough for grazing.
	———
	N. 0° 06' W., on random line, bet. secs. 3 and 4.
13.83	On account of ledges, offset W. a dist. of 2.17 chs.
	Thence N. 0° 06' W., on offset line.
40.00	Offset E. a dist. of 2.17 chs. to true line, and set temp.point for $\frac{1}{4}$ sec. cor. Thence offset W. a dist. of 4.20 chs., on account of ledges thence N. 0° 06' W. on offset line,
46.46.	On account of ledges offset W. a dist. of 90 lks., thence N. 0° 06' W., on offset line, 5.10 chs. W. of true random line.
75.60	Offset E. a dist. of 2.04 chs., thence N. 0° 06' W., on offset line.
79.34	Offset E. a dist. of 3.06 chs. to true line, thence N. 0° 06' W., on true line.
81.15	Intersect the N. bdy. of Tp. 12 lks. W. of the cor. of

Chains	
	secs. 3, 4, 33 and 34, heretofore described.
	Thence,
	S. 0° 01' E., on true line, bet. secs. 3 and 4.
	Over rough mountainous land through scattered shadscale, greasewood, yellow-top, mountain rush and grass undergrowth. Along W. edge of rocky wash in bottom of canyon.
1.81	Base of ledges, in wash, course from N. to SW. Ledges bear with wash which is 30 lks. wide, 2 ft. deep.
	To offset point 3.06 chs. W. of true line, thence S. 0° 01' E. on offset line.
2.70	Same wash, course S. 20° W.
5.55	Offset point, thence W. to offset point 5.10 chs. W. of true line. The extreme offset point falls in same wash, course S. 20° W. Thence S. 0° 01' E., on offset line over nearly level canyon bottom.
14.85	Leave canyon bottom, bears E. and W., asc. abruptly over steep, rocky N. slope of spur.
25.35	Steep rocky spur, 360 ft. above canyon bottom, projects about 8.00 chs. dist. W. Desc. abruptly over sandstone boulders and broken sandstone ledges.
34.69	Offset point, thence E. 90 lks. to base of sandstone cliffs, 150 ft. high, project W. about 50 lks. from the main top of high gray bluffs. Thence S. 0° 01' E., on offset line.
41.15	Offset E. a dist. of 4.20 chs to true line, Point falls on N. edge of bottom of rocky ravine, At this point 390 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., on sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the $\frac{1}{4}$ cor. of secs. 3 and 4, with brass cap mkd.,
	$\frac{1}{4}$ S 4 | S 3 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the $\frac{1}{4}$ cor.
	Thence on account of sandstone ledges, offset W. a dist.

Chains	
	of 2.17 chs. to offset point, thence S. 0° 01' E., on offset line, Desc. gradually.
42.30	Rocky ravine, 10 ft. below ¼ cor., course N. 70° W. Asc. abruptly over steep, rocky and clay N. slope.
61.66	Rocky spur, on offset line, 350 ft. above ravine, projects W. Desc. over sandstone boulders and broken sandstone ledges along base of high sandstone ledges, 1.00 ch. dist. to the E. Bear N. and S.
67.32	To offset point, thence E. 2.17 chs. to true line, at base of high sandstone projection, 150 ft. high, projects W. about 2.00 chs. dist., thence desc. over rocky, W. slope of high mountain on true line.
75.85	Rocky ravine, 60 ft. below spur, course W. Asc. abruptly over sandstone ledges.
80.70	Top of ledges and rim of top of high gray bluffs at this point, 60 ft. above ravine, bears E and W.
81.15	The cor. of secs. 3, 4, 9 and 10, 60 ft. above ravine. Land, very rough, rugged mountainous land, general drainage to the W. and S. Soil, shallow, sandy clay, on sandstone bedrock. Timber, none. Undergrowth, scattered shadscale, greasewood, mountain rush, yellow-top and grass undergrowth. Too rough for grazing except in narrow canyon bottom.
	From the cor. of secs. 4, 5, 32 and 33, heretofore described, on S. bdy. of Tp. N. 0° 03' W., on true line, bet. secs. 32 and 33. Over rolling sandy bench land, desc. gradually through scattered mountain rush, shadscale, oose-root, sagebrush and grass undergrowth.
5.30	Wash, in ravine, 30 ft. below sec. cor., 10 lks. wide, 1 ft. deep, course M. 80° E.
19.90	Wash, level with wash, 10 lks. wide, 1 ft. deep, drains N. 60° E. Thence asc. gradually.

Chains	
23.10	Sand ridge, 30 ft. above wash, bears NE. and SW. Desc. gradually over rolling sandy bench land.
40.00	On rolling sandy bench, 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. 32 and 33, with brass cap mkd., $\frac{1}{4}$ S 32 | S 33 1917 Dig pits, 18 x 18 x12 ins., N. and S. of the $\frac{1}{4}$ cor. 3 ft. dist. Continue over rolling sandy bench land.
45.00	Flat gravel ridge, 20 ft. above $\frac{1}{4}$ cor., bears N. 70° E. and S. 70° W. Desc. gradually.
52.70	Wash, 30 ft. below ridge, 50 lks. wide, 3 ft. deep, drains N. 80° E. Thence asc. gradually over gradual SE. slope.
80.00	On rolling sandy bench land, 10 ft. above wash, Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 28, 29, 32 and 33, with brass cap mkd., T 43 S R 3 E S 29 | S 28 / S 32 | S 33 1917 Dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist. from the cor.

Land, rolling sandy bench land, a few outcroppings of gravel, general drainage to the E.

Soil, sandy mixed with some gravel, subsoil same.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, oose-root, sagebrush and grass. Good grazing.

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

Chains	
40.00	Set temp. ¼ cor.
78.92	On account of ledges offset N. a dist. of 2.00 chs.
79.92	Intersect the N. and S. line, 265 lks. N. of the cor. of secs. 27, 28, 33 and 34.
	Thence,
	N. 89° 59' W., on true line, bet. secs. 28 and 33.
	Over rolling sandy land, asc. over sandstone rim of ledges along S. side of Wahweap canyon, through scatteredmountain rush, shadscale, greasewood, sagebrush, yellow-top and grass. It is impossible to chain W. fromthe sec. cor. on account of it being at the base of sandstone wall, therefore offset N. a dist. of 2.00 chs.
	Thence N. 89° 59' W., on offset line,
73.00	Top of S. rim of Wahweap canyon and rim of bench, on offset line, 60 ft. above sec. cor., bears N. 80° W., and S. 80° E. Thence offset S. a dist. of 2.00 chs. to true line, thence N. 89° 59' W., on true line, over rolling sandy bench land.
39.96	On rolling sandy bench land, 70 ft. above sec. cor., Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the ¼ cor. of secs. 28 and 33, with brass cap mkd.,

¼ S 28 / S 33

1917

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

Continue over nearly level sandy bench.

47.00	Bottom of sandstone gorge, 40 lks. wide and 250 ft. deep, course N. 10° E. Thence over rolling bench.
79.92	The cor. of secs. 28, 29, 32 and 33, 250 ft. above gorge.

Land, rolling sandy bench, cut by deep sandstone gorge draining to the N.

Soil, sandy, on sandstone and sandy subsoil.

Chains	
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, grease-wood, sagebrush, yellow-top and grass. Good grazing.
	N. 0° 03 ' W., on true line, bet. secs. 28 and 29.
	Over rolling sandy bench land through scattered mountain rush, shadscale, oose-root, sagebrush, yellow-top and grass undergrowth.
12.20	Sand ridge, 60 ft. above sec. cor., bears E. and W. Desc. gradually.
16.40	S. rim of Wahweap canyon and N. rim of bench land, 30 ft. below ridge, bears N. 80° W. and S. 80° E. Desc. abruptly over steep sandstone ledges.
32.30	Bottom of descent and edge of rolling canyon bottom, 120 ft. below bench, bears N. 80° W. and S. 80° E. Thence desc. gradually over rolling canyon bottom.
37.30	Wahweap wash, 130 ft. below bench, 60 lks. wide, 3 ft. deep; small stream clear alkali water, 6 lks. wide, 2 ins. deep, course S. 66° E. Asc. gradually.
40.00	On Wahweap canyon bottom, on N. side of Wahweap wash, 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. 28 and 29, with brass cap mkd.,
	$\frac{1}{4}$ S 29 | S 28 1917
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of the $\frac{1}{4}$ cor.
	Thence over rolling canyon bottom.
44.00	Wash, level with $\frac{1}{4}$ cor., 50 lks. wide, 1 ft. deep, drains S. 20° E. into Wahweap wash.
55.00	Leave rolling canyon bottom, bears NW. and SE. Asc. over sandy, gravel S. slope.
58.20	Gravel spur, 70 ft. above Wahweap wash, projects W.

Chains	
	Thence over broken west breaks of bench.
60.00	Through break in sandstone ledges, 2.00 chs. wide, 30 ft. deep, bear E. and W.
62.00	Sandstone spur, 50 ft. above spur, projects W. Asc. over rocky W. breaks of bench.
66.80	West projection of bench, 80 ft. above spur, Projects W. Desc. over sandstone ledges.
68.30	Gravel spur, 20 ft. below bench, projects SW. Desc. over gravel NW. slope.
70.00	Rocky gulch, 20 ft. below spur, course W. Asc.
72.30	Gap in sandstone spur, 30 ft. above gulch, projects W. Desc. over rocky N. slope.
75.00	Rocky gulch, 100 ft. below spur, course W. Asc. abruptly over sandstone ledges.
76.20	Rocky sandstone spur, 90 ft. above gulch, projects W. Desc. abruptly over sandstone ledges.
79.44	On rocky S. foot of sandstone spur, 75 ft. below spur. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the W. C. to the cor. of secs. 20, 21, 28 and 29, with brass cap mkd.,

W C
T 43 S. R 3 E
S 20 | S 21
S 29 | S 28
1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W.C.

Asc. abruptly over sandstone ledges.

80.00	Point falls on rocky point of spur, 40 ft. above W.C., projects W. Impracticable to set cor. at true point on account of ground being unsafe.

Land, rolling canyon bottom and rough, rocky W. breaks of bench. General drainage to the W. and SE.

Soil, sandy, rocky and gravel loam, on rocky sunsoil.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, goose-

Chains	
	root, sagebrush, yellow-top and grass. Fair grazing.
	S. 89° 59' E., on random line, bet. secs. 21 and 28.
	From true cor. point, offset S. a dist. of 3.88 chs., on account of sandstone ledges along side of spur, thence S. 89° 59' E. on offset line.
14.99	Offset N. a dist. of 3.88 chs. to true line, thence S. 89° 59' E., on random line.
40.00	Set temp. point. for the ¼ cor.
79.88	Intersect the N. and S. line, 3 lks. S. of the cor. of secs. 21, 22, 27 and 28.
	Thence,
	West, on true line, bet. secs. 21 and 28.
	Over broken bench land through scattered oose-root, mountain rush, yellow-top and grass undergrowth.
6.90	Wash; 10 ft. below sec. cor., 8 lks. wide, 3 ft. deep, drains S.
8.90	Wash, level with wash, 6 lks. wide, 3 ft. deep, drains S. Thence over rolling bench land.
36.00	Wash, level with wash, 26 lks. wide, 6 ins. deep, drains S.
39.94	On rolling bench land, 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. 21 and 28, with brass cap mkd.,
	S 21 ¼ S 28 1917
	Dug pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Thence continue over rolling bench land.
56.30	Wash, level with ¼ cor., 8 lks. wide, 6 ins. deep, drains SE.
64.89	Offset point, thence S. to offset point, to avoid sandstone

Chains

ledges along S. side of spur, projecting W. Desc.

72.82 Offset N. a dis t. of 3.88 chs to the cor. of secs. 20, 21, 28 and 29, 100 ft. below ¼ cor.

Land, broken, and rolling bench, except W. end of mile which is broken, rocky W. breaks of bench. General drainage to the S. and W.

Soil, rocky, sandy loam, on sandy subsoil, mixed with clay.

Timber, none.

Undergrowth, scattered oose-root, yellow-top, mountain rush and grass. Fair grazing.

N. 0° 03' W., on true line, bet. secs. 20 and 21.

From the true cor. point.

Over rough mountainous land, desc. gradually through scattered yellow-top and shadscale undergrowth.

1.40 Wash, 10 ft. below true cor. point, 10 lks. wide, 2 ft. deep, drains from N. to S. 70° W. Thence crossing and recrossing wash.

12.60 Leave wash, drains from NW. to S. Asc. abruptly over sandstone ledges along E. side of wash.

17.00 Top of sandstone ledges and W. rim of bench, 100 ft. above wash, bears N. 10° W. and S. 10° E. Asc. gradually over broken sandstone ledges.

24.90 Clay spur, 40 ft. above bench, projects W. Thence asc. gradually over broken sandstone ledges.

40.00 On S. slope of rocky, clay spur, 40 ft. above spur, Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 20 and 21, with brass cap mkd.,

¼

S 20 | S 21

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.

Asc. gradually along S. slope of spur.

Chains	
40.80	Clay spur, 10 ft. above ½ cor., projects W. desc. gradually.
44.60	Head of wash, 10 ft. below spur, 12 lks. wide, 4 ft. deep, drains W.
49.00	On account of sandstone ledges ahead, over which it is impracticable to chain, triangulate as follows, set a flag on line, N. 0° 03' W. at top of ledges, and measure a base line, N. 56° 07' E. a dist. of 12.80 chs., from which point the angle between the flags at top and bottom of ledges is 68° 47', the dist. is then, log.12.80 + log.sin. 68° 47' + colog.sin. 55° 03' = 1.107210 + 9.969518 + 0.086370 = 1.163098 = antilog. = 14.56 chs.
60.00	Approximate bottom of box gulch, 50 ft. below triangulation point, course SW. Asc. abruptly over sandstone ledges.
63.56	Top of rim of sandstone ledges and lower rim of upper bench, 200 ft. above gulch, bears NE. and SW. Thence from triangulation point, asc. gradually over broken sandstone ledges.
66.20	Sandstone rim, 30 ft. above ledges, bears N. 20° E. and S. 20° W.
69.20	Sandstone rim, level with rim, bears N. 20° W. and S. 20° E. Asc. gradually over broken sandstone ledges.
73.40	Spur, 20 ft. above rim of sandstone, projects SW. Desc. gradually.
80.00	On gradual NW. slope of spur, 20 ft. below top. Set an iron post, 3 ft. long, 2 ins. dia., 18ins. in the ground to bedrock, 6 ins. in a mound of stone, 1½ ft. base, for the cor. of secs. 16, 17, 20 and 21, with brass cap mkd.,

T 43 S R 3 E

S 17	S 16
S 20	S 21

1917

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

Land, rough rocky mountain ous and broken bench, general

Chains	
	drainage to the W. and S.
	Soil, sandy, rocky clay, on clay and sandstone subsoil.
	Timber, none.
	Undergrowth, scattered yellow-top and shadscale. Very poor grazing.
	East, on random line, bet. secs. 16 and 21.
5.42	On account of ledges, offset N. a dist. of 3.33 chs. thence E. on offset line.
40.00	Point falls on inaccessible sandstone ledges, on true line, therefore continue on offset line,
40.52	Offset S. a dist. of 3.33 chs. to true line and set temp. point for witness 1/ cor. thence E. on true random line.
70.44	On account of inaccessible sandstone butte, offset S. a dist. of 1.08 chs. thence E. on offset line.
72.88	Offset N. a dist. of 1.08 chs. to true line, and intersect point for cor. secs. 15, 16, 21 and 22.
	Thence,
	W. on true line, bet. secs. 16 and 21.
	Over broken bench land, desc. abruptly over sandstone ledges through scattered yellow-top, ooseyroot, shadscale and grass undergrowth.
	On account of sandstone ledges over which it is impracticable to chain offset South 1.08 chains; thence W. on offset line.
2.20	Rocky ravine, 40 ft. below sec. cor., course from S. 70° W. to S. 20° E. Asc. over rolling clay hills.
2.50	Sandstone butte on true line, 130 ft. high, bears E. and W.
3.44	Offset point, thence W. 1.08 chs. on true line, over broken clay hills.
16.20	Wash, in bottom of ravine, 50 ft. below clay hills, course SE. 8 lks. wide, 6 ins. deep. Asc. clay hills.
17.24	Low clay hill, 30 ft. above ravine, bears NE. and SW. Thence over clay hills.
37.34	At base of in accessible sandstone and clay ledges, 160 ft. high.

Chains	
	Set an ironpost, 3 ft. long, 1 in. dia., 14 ins. in the ground to bedrock, 12 ins. in a mound of stone, 2 ft. base, for the W. C. to the ¼ cor. of secs. 16 and 21, with brass cap mkd.,
	WC ¼ S 16 / S 21 / 1917
	Raise a mound of stone, a 2 ft. base, 1½ ft. high, north of the W. C.
	Thence North 3.93 chains, thence W. on offset line.
39.93	Point for ¼ sec. cor.; cor. not set.
54.60	Wash, 30 ft. below ¼ W. C., 10 lks. wide, 1 ft. deep, drains from the NW. to NE. Thence along S. edge of wash.
55.10	Sandstone ledges, bears NE. and SW. Asc. abruptly over sandstone ledge.
56.60	Top of sandstone ledge, 40 ft. above wash, bears NE. and SW. Thence over broken sandstone on clay bench.
74.46	Offset S. 3.93 chs. thence W. on true line, over bench land.
72.88	The cor. of secs. 16, 17, 20 and 21, level with bench.
	Land, broken bench, general drainage to the SE. and S.
	Soil, rocky, sandy clay, on rocky clay subsoil.
	Timber, none.
	Undergrowth, scattered ooze-root, yellow-top, shadscale and grass. Poor grazing.
	N. 0° 03' W., on true line, bet. secs. 16 and 17.
	Over rolling blue clay bench land with sandstone outcroppings through scattered shadscale and yellow-top undergrowth.
22.50	Leave sandstone outcroppings, bear E. and W. Thence over rolling blue clay bench land, asc. gradually.
40.00	On rolling blue clay bench, 20 ft. above sec. cor.,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 16 and 17, with brass cap mkd.,

Chains	
	S 17 | S 16 — 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of the cor., 3 ft. dist.
80.00	On rolling blue clay bench land, with few sandstone outcroppings around cor., 20 ft. above ¼ cor.
	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 43 S R 13 E S 8 | S 9 S 17 | S 16 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling blue clay bench, with some sandstone outcrops, general drainage to the S.
	Soil, blue clay, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale and yellow-top. No grazing.
	East, on random line, bet. secs. 9 and 16.
40.00	Set temp. point for the ¼ cor.
79.87	Intersect the N. and S. line, 17 lks. N. of the cor. of secs. 9, 10, 15 and 16.
	Thence,
	N. 89° 53' W., on true line, bet. secs. 9 and 16.
	Over broken yellow and blue clay bench land, desc. gradually through scattered shadscale and yellow-top undergrowth.
3.00	Desc. more abruptly over broken sandstone ledges, bear N. and S.
11.00	Wash in bottom of ravine, 80 ft. below sec. cor., 20 lks. wide, 3 ft. deep, drains S. Asc. abruptly over broken

Chains	
	sandston e ledges.
12.30	Top of ledges, 70 ft. above wash, bear N. and S. Thence asc. gradually over rolling bench.
24.50	Low ridge, 100 ft. above wash, bears N. and S. Desc. gradual W. slope of ridge.
39.93½	On broken bench land, 60 ft. below ridge, Set an iron post, 3 ft. long, 1 in. dia., on sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 9 and 16, with brass cap mkd., ¼ S 9 / S 16 / 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Desc. from ¼ cor. into ravine.
41.50	Wash in bottom of ravine, 40 ft. below ¼ cor., 20 lks. wide, 3 ft. deep, drains S. Asc. gradually over rolling clay bench land.
60.00	Trail, bears SW. and NE. The old trail from Wahweap creek to Warm creek, invisible in numerous places.
72.87	The cor. of secs. 8, 9, 16 and 17, 30 ft. above wash. Land, broken blue and yellow clay bench, with sandstone outcroppings, draining to the S. Soil, clay, mixed with sandstone, subsoil same. Timber, none. Undergrowth, scattered shadscale and yellow top, no grazing.
	N. 0° 03' W., on true line, bet. secs. 8 and 9. Over rough mountainous land, asc. over foot of rocky E. slope of mountain through scattered mountain rush, shadscale, greasewood, yellow-top and grass undergrowth.
40.00	On rocky E. slope of high mountain, 180 ft. above sec. cor., Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 3½ ft.

chains	
	base, for the ¼ cor. of secs. 8 and 9, with brass cap mkd.,
	¼ S 8 | S 9 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Continue asc. over rocky E. slope of high mountain.
70.00	Rocky ravine, 120 ft. above ¼ cor., course E. Asc. abruptly over sandstone boulders and broken sandstone ledges.
80.00	On N. side of rocky ravine, on rocky E. slope of high mountain, 50 ft. above ravine.
	Set an iron post, 3 ft. long, 2 ins. dia., 16 ins. in the ground to bedrock, 8 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 4, 5, 8 and 9, with brass cap mkd.,
	T. 43 S. R. 3 E. S 5 | S 4 S 8 | S 9 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rocky, broken E. slope of high mountain, draining to the E.
	Soil, rocky, sandy clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered, mountain rush, shadscale, greasewood, yellow-top and grass. Good grazing.
	S. 89° 53' E., on random line, bet. secs. 4 and 9.
40.00	Set temp. point for ¼ cor.
41.37	Asc. over foot of steep slope of mountain with high sandstone ledges, impossible to chain, therefore triangulate as follows, note that the cor. of secs.

Chains	
	3, 4, 9 and 10 bears N. 89° 59' E. Offset S. a dist. of 8 lks. to a point 9 lks. S. of W. of the cor. of secs. 3, 4, 9 and 10, and from this point observe that a flag previously set at a point 19.50 chs. N. and 2.23 chs. W. of the cor. of secs 3, 4, 9 and 10 bears N. 61° 48' E., the dist. of triangulation is then, 19.59 x tan. 61° 48' or 1.86499 = 36.54 chs.
80.14	Intersect the N. and S. line, after offsetting 8 lks. N. at triangulation point and continuing on line, S. 89° 53' E., 7 lks. S. of the cor. of secs. 3, 4, 9 and 10.
	Thence,
	N. 89° 56' W., on true line, bet. secs. 4 and 9.
	Over rough mountainous land, through scattered mountain rush, shadscale, greasewood, yellow-top and grass undergrowth.
.30	Rim of top, and top of high sandstone ledges, level with sec. cor., bear N. 30 lks. thence E. and SW. Desc. abruptly over high sandstone ledges.
31.00	Foot of steep descent, 480 ft. below sec. cor., bears NE. and SW. Thence desc. gradually over W. slope.
38.77	Triangulation point.
40.07	On gradual rocky W. slope of high mountain, 570 ft. below sec. cor.,
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the ¼ cor. of secs. 4 and 9, with brass cap mkd.,
	¼ S 4 / S 9 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Desc. abruptly into ravine.
40.60	Ravine, 20 ft. below ¼ cor., course SW. Asc. abruptly.
44.40	Rocky spur, 30 ft. above ravine, projects SE. about 2.00

N.61-48E
E

chains

chs. dist. Desc. abruptly.

45.50 Rocky ravine, 30 ft. below spur, course SE. Asc. over rocky, E. slope of high mountain, strewn with sandstone boulders.

80.14 The cor. of secs. 4, 5, 8 and 9, 300. ft. above ravine.

Land, rough mountainous, with numerous sandstone ledges, general drainage to the E. W. and S.

Soil, shallow rocky, sandy clay, on rocky, clay subsoil, and sandstone bedrock.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, greasewood, yellow-top and grass. Good grazing except on E. portion where it is too rough for grazing.

N. 0° 01' W., on random line, bet. secs. 4 and 5.

40.00 Set temp. point for ¼ cor.

58.72 On account of ledges, triangulate as follows, set a point on line, N. 0° 03' W., across canyon and from this point measure a base line, S. 89° 57' W., 10.00 chs. dist., from which point the angle between the E. end of base line and the flag on line S. is 59° 10', the dist is then,

10.00 x tan. 59° 10' or 1.67530 = 16.75 chs.

75.47 Triangulation point.

81.06 Intersect the N. bdy. of Tp. 16 lks. E. of the cor., of secs. 4, 5, 32 and 33, heretofore described.

Thence,

S. 0° 08' E., on true line, bet. secs. 4 and 5,

Over rough mouhtainous land, asc. gradually through scattered mountain rush, shadscale, greasewood, yellow-top, rabbit-brush and grass undergrowth.

1.70 Top of bench, 10 ft. above sec. cor., bears S. 60°E and S. 60° W. Desc. abruptly over sandstone ledges.

5.59 Triangulation point on sandstone ledges, bearing SE. and NW.

Chains	
	Desc. abruptly.
19.10	Approximate bottom of canyon, 210 ft. below bench, course S. 60° E. Asc. abruptly over sandstone ledges.
22.34	Triangulation point, continue abrupt ascent over sandstone ledges.
27.70	Top of high gray bluffs and narrow bench, 260 ft. above canyon, bears E. and W. Desc. abruptly over sandstone ledges, from sharp narrow bench.
32.90	Narrow bench, 80 ft. below bench, bears E. and W. Thence over nearly level bench.
37.90	Edge of bench, bears E. and W. Desc. abruptly over steep sandstone ledges.
41.06	On steep, rocky, SE. slope of high gray bluffs, 180 ft. below top,
	Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3 ft. base, for the ¼ cor. of secs. 4 and 5, with brass cap mkd.,
	$\frac{\frac{1}{4}}{S\ 5 \mid S\ 4}$
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Continue abrupt descent over high sandstone ledges, bear W. and SE.
56.80	Rocky canyon, 450 ft. below ¼ cor., course SE. Asc. abruptly over sandstone ledges.
61.60	Top of ledges, and rim of flat spur, 110 ft. above canyon. Thence over top of spur, projects E.
67.50	Rim of spur, bears E. and W., desc. abruptly over sandstone ledges.
70.30	Rocky canyon, 80 ft. below spur, course E. Asc. over sandstone ledges, bear with canyon.
77.30	Thence over steep, rocky E. slope of high gray bluffs to the W. Asc. gradually.

Chains	
81.06	The cor. of secs. 4, 5, 8 and 9, 30 ft. above canyon. Land, extremely rough, mountainous land, with sandstone ledges throughout mile, general drainage to the SE. Soil, shallow, rocky sandy, on sandstone bedrock. Timber, none. Undergrowth, scattered mountain rush. shadscale, greasewood, yellow-top, rabbit-brush and grass. Too rough for grazing.
	From the cor. of secs. 5, 6, 31 and 32, heretofore described, on S. bdy. of Tp. N. 0° 03' W., on true line, bet. secs. 31 and 32. Over broken sandy bench land, desc. gradually through scattered mountain rush, shadscale, greasewood, goose-root and grass undergrowth.
4.00	Ravine, 20 ft. below sec. cor., course NE. Base of sandstone butte, 320 ft. high, impossible to climb butte, therefore offset W. a dist. of 11.00 chs., thence N. 0° 03' W., on offset line, along W. side of butte which bears N. and S. Asc. gradually.
40.00	Offset 6.89 chs. E. to base of sandstone butte, bears N. 20° E. and S. 20° W. Impossible to get to true line, therefore continue N. 0° 03' W., on this offset line.
47.80	Point for $\frac{1}{4}$ sec. cor.; cor. not set. Offset E. a dist. of 4.11 chs. to true line and at base of sandstone butte, 320 ft. high, 60 ft. above ravine, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the W.C. $\frac{1}{4}$ of secs. 31 and 32, with brass cap mkd.,

$\frac{1}{4}$

S 31 | S 32

W C

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, West of the cor.

On side of sandstone butte, cross mark on side of sandstone bears S. 62¼° E., 310 lks. dist., mkd., W.C. $\frac{1}{4}$ S 32 B 0.

Chains	
	Thence desc. gradually over rolling sandy bench land.
80.00	On gradual N. slope of sandy bench, 20 ft. below ¼ cor. 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 43 S R 3 E

S 30	S 29
S 31	S 32

1917

Dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist. from the cor.

Land, rolling and broken sandy bench, with high sandstone butte, surrounded by inaccessible sandstone walls, general drainage to the NE. and N.

Soil, sandy loam, subsoil same.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, greasewood, oose-root and grass. Good grazing.

East, on random line, bet. secs. 29 and 32.

40.00	Set temp. point for ¼ cor.
80.00	Intersect the N. and S. line, 5 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 sandy bench land, through scattered mountain rush, shadscale, greasewood, sagebrush, yellow-top oose-root and grass undergrowth.

40.00	On rolling sandy bench land, 20 ft. above sec. cor., 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.,

¼ S 29 / S 32

1917

Dig pits, 18 x 18 x 12 ins., E. and W. of the cor.,

Chains

3 ft. dist.

Continue over rolling sandy bench land, asc. gradually.

80.00 The cor. of secs. 29, 30, 31 and 32, 30 ft. above ¼ cor.

Land, rolling sandy bench land, draining to the NE.

Soil, light, dry, sandy, subsoil same.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, greasewood, sagebrush, oose-root, yellow-top and grass. Fair grazing.

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

40.00 Set temp. point for the ¼ cor.

51.99 On account of high sandstone ledges over which it is impossible to chain, offset S. a distance of 10.65 chs., thence W. on offset line.

80.00 Offset N. a distance of 10.65 chs. and intersect the W. bdy of the Tp. 7 lks. N. of the true point for cor. of secs. 25, 30, 31 and 36, and 26 lks. S. of the W. C. of secs. 25, 30, 31 and 36, heretofore described.

Thence, from true cor. point.

N. 89° 57' E., on true line, bet. secs. 30 and 31.

Over rough mountainous land, asc. abruptly over inaccessible sandstone walls, through scattered cedar and pinon timber and scattered mountain rush, shadscale, greasewood, yellow-top, oose-root, sagebrush and grass undergrowth.

Cannot chain over the sandstone ledges, 2.00 chs. E. of the cor., bear N. and S., therefore, S.10.65 chs. to offset point, thence N. 89° 57' E., on offset line. over rolling and broken bench land, along S. base of high sandstone wall, bears E. and W.

28.01 Thence N. 10.65 chs. to true line, at base of sandstone wall, 380 ft. high, bears NE. and SW. Thence N. 89° 57' E., on true line over rolling sandy bench land.

40.00 On sandy rocky low spur, level with sec. cor., projects S. about 2.00 chs. dist.,

Chains	
	Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in the ground, to bedrock, 6 ins. in a mound of stone, 1 ft. base, for the ¼ cor. of secs. 30 and 31, with brass cap mkd.,
	¼ S 30 / S 31 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.,
	Desc. abruptly over sandstone ledges.
45.00	Rocky ravine, 50 ft. below ¼ cor., course NE. Asc. abruptly over sandstone ledges.
50.00	Top of ledges, 40 ft. above ravine, bear with ravine, thence asc. gradually over rolling sandy bench land.
80.00	The cor. of secs. 29, 30, 31 and 32, 60 ft. above ravine.
	Land, rolling sandy bench and rough sandstone wall, around mesa, about 400 ft. above bench. General drainage to the NE.
	Soil, rocky, shallow sandy, on sandstone bedrock, on west portion of mile, sandy, light dry, loam on east portion of mile, subsoil same.
	Timber, none, except a few cedar and pinon around the extreme W. portion of mile.
	Undergrowth, scattered mountain rush, shadscale, greasewood, yellow-top, oose-root, sagebrush and grass. Fair grazing.
	N. 0° 03' W., on true line, bet. secs. 29 and 30.
	Over rolling sandy bench land, desc. gradually through scattered mountain rush, shadscale, oose-root, rabbitbrush, sagebrush and grass undergrowth.
36.40	S. rim of sandstone gorge, 20 ft. below sec. cor., bears E. and SW. Desc. abruptly over sandstone ledges.
37.10	Bottom of sandstone gorge, 140 ft. below rim, course from SW. to E. Asc. abruptly over sandstone ledges.

Chains	
39.58	Narrow rocky point, between gorge and rocky canyon, 130 ft. above gorge, projects 1.00 ch. E. Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the ¼ W. C. to the ¼ cor. of secs. 29 and 30, with brass cap mkd., WC ¼ | S 30 | S 29 | 1917. Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.
	Thence desc. abruptly into rocky ravine, or canyon.
40.00	Point falls on unsafe ground in rocky canyon, 40 ft. below ¼ W. C., course SE. to gorge. Asc. abruptly over sandstone ledges. Cor. not set.
43.00	To p of ledges and rim of bench, 50 ft. above canyon, bears with canyon, thence over rolling sandy bench land.
58.30	S. or W. rim of Wahweap canyon, 50 ft. above canyon, bears NW. and SE. Thence leave bench and desc. abruptly over steep sandstone ledges, bear with canyon.
66.40	Bottom of ledges, 130 ft. below bench, bear NW. and SE. Thence over nearly level canyon bottom.
67.30	Wahweap wash, dry, 130 ft. below bench, 2.50 chs. wide, 3 ft. deep, course SE. Thence over nearly level canyon bottom, sandy land.
80.00	On nearly level canyon bottom, 10 ft. above wahweap wash, 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 43 S R 3 E | S 19 | S 20 | S 30 | S 29 | 1917. Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.

Chains	
	Land, rolling sandy bench and canyon bottom, general drainage to the SE. and E., bench is cut by narrow, sandstone gorge draining to the E.
	Soil, light, dry, sandy loam, subsoil same, Sandstone ledges, along gorge and S. edge of Wahweap canyon.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose-root, rabbit-brush and grass. Good grazing.
	S. 89° 58' E., on random line, bet. secs. 20 and 29.
40.00	Set temp. point for ¼ sec. cor.
79.94	Intersect the N. and S. line, 8 lks. S. of true cor. point of secs. 20, 21, 28 and 29.
	Thence, from true cor. point.
	S. 89° 59' W., on true line, bet. secs. 20 and 29.
	Over rough mountainous land, desc. gradually through scattered oose-root, yellow-top, shadscale and grass undergrowth.
2.00	Wash, in bottom of box canyon, 10 ft. below cor., 14 lks. wide, 3 ft. deep, course S. 70° W. Asc. abruptly over sandstone ledges.
3.60	Rocky, clay spur, 60 ft. above wash, projects S. Asc.
7.60	W. rim of box canyon, 80 ft. above wash, bears NE. and SW. Asc. over broken sandstone ledges.
12.60	Broken spur, 50 ft. above rim, projects SW. Desc. gradually over broken sandstone ledges.
21.40	N. slope of sandstone butte, 100 ft. high, 20 ft. below spur, bears N. and S. Thence over broken bench.
22.00	Desc. abruptly into box gulch, over sandstone ledges, bear N. and S.
23.30	Bottom of box gulch, 40 ft. below bench, course S. Asc. abruptly over sandstone ledges.
29.80	W. rim of gulch, 60 ft. above gulch, bears N. and S. Thence over broken bench.
31.80	E. rim of gulch, bears N. and S. Desc. abruptly over

chains	
	sandstone ledges.
39.60	Gulch, 100 ft. below bench, course S. Asc. abruptly over sandstone ledges.
39.97	In bottom of gulch, on E. slope, level with bottom of same,
	Set an iron post, 3 ft. long, 1 in. dia., 14 ins. in the ground to bedrock, 12 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 20 and 29, with brass cap mkd.,
	¼ S 20 / S 29
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Asc. abruptly over sandstone ledges.
45.40	Top of ledges and edge of bench, 100 ft. above ¼ cor., bears N. and S. Thence over rocky, broken bench.
52.80	Desc. abruptly over sandstone ledges, bear NE. and SW.
58.00	Rocky gulch, mouth about 3.00 chs. S. 100 ft. below bench, course SW. Asc. over sandstone ledges.
60.80	S. point of sandstone spur, 40 ft. above gulch, projects about 2.00 chs. S. Desc. into Wahweap canyon.
61.40	Thence across Wahweap canyon over rolling sandy land.
63.80	Wire Grass Spring bears S. about 4.00 chs. dist. Stream of alkaline water, 8 lks. wide, 4 ins. deep, flows SE. into Wahweap creek.
79.94	The cor. of secs. 19, 20, 29 and 30, 40 ft. below spur. Land, broken benches cut by box gulches draining to S.
	Soil, rocky, sandy, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered oose-root, yellow-top, shadscale and grass. Poor grazing.
	S. 89° 57' W., on random line, bet. secs. 19 and 30.

Chains	
40.00	Set temp. point for ¼ cor.
80.05	Intersect the W. bdy. of the Tp. 4 lks. N. of the cor. of secs. 19, 24, 25 and 30, heretofore described. Thence, N. 89° 55' E. on true line, bet. secs. 19 and 30. Over rough mountainous land, asc. abruptly over sandstone ledges through scattered rabbit-brush, greasewood, sage-brush, mountain rush and grass undergrowth.
3.10	Top of ledges projecting N. about 10.00 chs. dist. from the mesa to the south, 60 ft. above cor. Thence over rocky N. slope of bench.
18.70	Desc. abruptly from ledges, bear NW. and SE.
23.10	Bottom of ledges, 40 ft. below point of mesa, bear NW. and SE. Thence desc. gradually over rolling E. slope of bench.
40.05	On gentle E. slope of sandy bench, 20 ft. below bottom of ledges. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 19 and 30, with brass cap mkd., ¼ S 19 / S 30 1917 Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist. Continue gradual descent over rolling E. slope of sandy bench.
56.70	Edge of bench and W. rim of Wahweap canyon, 30 ft. below ¼ cor., bears N. and S. Desc. abruptly over mouth of box canyon.
62.10	Bottom of box canyon, 150 ft. below bench, course NE. Asc. abruptly over point of sandstone ledges.
63.00	Point of sandstone ledges, 70 ft. above canyon, projects N. about 2.00 chs. dist. Thence desc. into Wahweap canyon, over sandstone ledges.

Chains	
64.10	Base of ledges and edge of Wahweap canyon bottom, 70 ft. below point of sandstone ledges, bear NW. and SE. Thence desc. gradually over rolling sandy canyon bottom. Enter yellow-top undergrowth bears with canyon.
72.30	Wahweap wash, 20 ft. below bottom of ledges., dry, 2.50 chs. wide, 4 ft. deep, course SE. Asc. gradually.
80.05	The cor. of secs. 19, 20, 29 and 30, 10 ft. above Wahweap wash.
	Land, rough sandstone ledges, rolling sandy bench and canyon bottom, general drainage to the NE. and SE.
	Soil, deep, sandy loam, on sandy subsoil, except along ledges, where the soil is shallow and sandy on sandstone bedrock. Some gravel along Wahweap wash.
	Timber, none.
	Undergrowth, scattered rabbit-brush, greasewood, sagebrush, yellow-top and grass. Fair grazing.

	N. 0° 03' W., on true line, bet. secs. 19 and 20.
	Over rolling sandy canyon bottom through scattered rabbit-brush, greasewood, shadscale, yellow-top, sagebrush and grass undergrowth.
22.00	Leave canyon bottom, bears NW. and SE. ase. abruptly over sandstone ledges.
25.30	Top of sandstone ledges, and rim of Wahweap canyon, 30 ft. a sec. cor., bear NW. and SE. Thence over rocky broken bench.
40.00.	Point falls on unsafe ground, in rocky sandstone gulch, 50 ft. below bench, course SW. Asc. abruptly over sandstone ledges. Cor. not set.
40.74	On narrow sandstone spur between gulches, 60 ft. above gulch, projects SW.
	Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the W. C. to the $\frac{1}{4}$ cor. of secs. 19 and 20, with

Chains	
	brass cap mkd.,
	$\frac{1}{4}$
	S 19 | S 20
	W C
	1917
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of the W.C.
	Desc. abruptly over sandstone ledges.
42.40	Sandstone gulch, 40 ft. below $\frac{1}{4}$ W. C., course SW. Asc. over bare sandstone ledges.
47.70	Sandstone spur, 50 ft. above gulch, projects SW. Desc. abruptly over sandstone ledges.
54.40	Rocky sandstone ravine, 150 ft. below spur, course SW. Asc. over steep sandstone ledges.
73.50	Top of sandstone ledges and rim of rocky, broken bench, 410 ft. above ravine, bears W. and E. about 2.00 chs. dist. thence NE. Thence over rocky, broken bench.
80.00	On rocky, E. slope of bench, level with top of ledges, Set an iron post, 3 ft. long, 2 ins. dia., 4 ins. in the ground to bedrock, 20 ins. in a mound of stone, $3\frac{1}{2}$ ft. base, for the cor. of secs. 17, 18, 19 and 20, with brass cap mkd.,
	T 43 S R 3 E
	S 18 | S 17
	S 19 | S 20
	1917
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of the cor.
	Land, rolling sandy canyon bottom and rough, broken, bare sandstone bench, general drainage to the SW. and SE.
	Soil, in canyon bottom, deep sandy loam, mixed with gravel, sandy subsoil. Sandstone bench, bare sandstone.
	Timber, none.
	Undergrowth, scattered greasewood, rabbit-brush, shad-scale, yellow-top, sagebrush and grass. No grazing except in canyon bottom, Undergrowth very scattered elsewhere.

Chains

N. 89° 59' E., on random line, bet. secs. 17 and 20.
Impracticable to chain E. from this cor. on account of box gulch and rough rugged sandstone points projecting S. from bench, therefore triangulate as follows, set a point E. on point of bench, and from this point measure a base line, N. a dist. of 20.00 chs. from which point the cor. of secs. 17, 18, 19 and 20, bears S. 65° 34' W. The dist. is then,

20.00 x tan. 65° 34' or 2.20108 = 44.02 chs.

44.02 Triangulation point, set point for temp. ¼ W.C., 1½ lks. N. of triangulation point, thence N. 89° 59' E.

46.66 Impracticable to chain farther E. therefore on account of ledges, triangulate as follows, set a point on line, N. 89° 59' E. from which point measure a base line, N. 0° 01' W., a dist. of 10.00 chs. from which point the angle between the S. end of base and W. triangulation point is 64° 50', the dist. is then,

10.00 x tan. 64° 50' or 2.12832 = 21.28 chs.

67.94 Triangulation point, thence N. 89° 59' E., on random line.

69.94 Impracticable to chain farther E. therefore, on account of ledges, triangulate as follows, measure a base line N. 0° 01' W. a dist. of 5.00 chs., and set a point on line, N. 89° 59' E., from which point the angle between N. and S. end of base line is 26° 59', the dist. is then,

5.00 x cotan. 26° 59' or 1.96402 = 9.82 chs.

79.76 Triangulation point.

80.04 Intersect the N. and S. line, 5 lks. N. of the cor. of secs. 16. 17, 20 and 21.

Thence,

N. 89° 59' W., on true line, bet. secs. 17 and 20.
Over rough mountainous land, through scattered shadscale, yellow-top and grass undergrowth.

.28 Rim of box canyon, level with sec. cor., and triangulation point, bear N. and S. Thence desc. abruptly over

Chains	
	sandstone ledges, over which it is impracticable to chain.
5.00	Approximate bottom of box canyon, 250 ft. below sec. cor., course S. Thence asc. abruptly over sandstone ledges.
10.10	Triangulation point at W. rim of box canyon, 250 ft. above canyon bottom, bears N. and S. about 1.00 chs. dist., where it breaks to bottom of canyon, 250 ft. below. Thence across gravel point of bench.
12.10	W. edge of point of bench, bears S. about 1.00 ch. dist. Desc. abruptly over sandstone ledges, along rugged south breaks of bench. Triangulation point.
33.38	Triangulation point at rim of bench, 260 ft. above bottom of ledges, bears N. and S. about 2.00 chs. dist. Thence across gravel point of bench.
36.02	Triangulation point. At this point on gravel point of bench, since true $\frac{1}{4}$ cor. point is inaccessible., Set a sandstone 28 x 20 x 10 ins., on bare sandstone bedrock, 21 ins. in a mound of stone, 3 ft. base, for the W. C. to the $\frac{1}{4}$ cor. of secs. 17 and 20, mkd. W C $\frac{1}{4}$ on N. face. No iron post was available for this cor. Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
36.50	Rim of point and top of high sandstone wall, bears N. and S. about 2.00 chs. dist. Thence desc. abruptly over sandstone ledges along rugged S. breaks of bench, projecting S. Impracticable to chain.
40.02	Point for $\frac{1}{4}$ sec. cor.; cor. not set.
72.00	Approximate bottom of box canyon, 320 ft. below bench, course S. Asc. abruptly over sandstone ledges.
77.50	Top of high sandstone ledges at W. rim of box canyon, 300 ft. above canyon, bears N. and S. Asc. gradually over broken sandstone ledges.
80.04	The cor. of secs. 17, 18, 19 and 20, 310 ft. above canyon. Land, rough, rugged, mountainous land, general drainage to the S. Soil, shallow, sandy, gravel and clay, on sandstone bedrock.

Chains

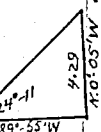
Timber, none.

Undergrowth, scattered shadscale, yellow-top and grass.

Too rough for grazing.

S. 89° 55' W., on random line, bet. secs. 18 and 19.

16.30 Top of ledges over which it is impossible to chain, therefore triangulate as follows, measure a base line N. 0° 05' W., a dist. of 4.29 chs. and set flag, then set a point on line, across canyon, S. 89° 55' W., from which the angle between the two ends of base is 24° 11', the dist. is then,



4.29 x cotan. 24° 11' or 2.22683 = 9.55 chs.

25.85 Triangulation point.

40.00 Set temp. point for ¼ cor.

79.97 Intersect the W. bdy. of the Tp. 5 lks. S. of true cor. point of secs. 13, 18, 19 and 24, heretofore described.

Thence, from true cor. point.

N. 89° 57' E. on true line, bet. secs. 18 and 19.

Over rolling Wahweap canyon bottom through scattered mountain rush, shadscale, yellow-top and grass undergrowth.

20.30 Asc. abruptly over sandstone ledges, bear S. 10° W. and N. 10° E.

25.10 Top of ledges and narrow neck of bench, 80 ft. above Wahweap creek, bears N. 10° E. and S. 10° W. Desc. abruptly over sandstone ledges.

39.97 Point falls on unsafe ground in ravine, 140 ft. below top of ledges, course S. 20° E. Asc. gradually Cor. not set.

40.37 On gradual SW. slope of spur, 10 ft. above ravine, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the W. C. to the ¼ cor. of secs. 18 and 19, with brass cap mkd.,

WC ¼ S 18 / S 19 / 1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, north

Chains	
	of the W. C.
	Asc. gradually.
41.10	Low spur, 10 ft. above ¼ W.C., projects S. about 2.00 chs. dist. Desc. gradually.
46.80	Ravine, 20 ft. below spur, course S. Asc. abruptly over vertical white sandstone wall.
51.20	Top of sandstone wall, 340 ft. above ravine, bears N. and S. Thence over rocky, gravel bench.
54.10	Triangulation at E. rim of bench and top of sandstone wall, bears N. and S. Desc. abruptly over sandstone wall.
60.00	Approximate bottom of canyon, 310 ft. below bench, course S. 10° W. Asc. abruptly over sandstone wall.
63.67	Triangulation point at top of sandstone wall, 330 ft. above canyon, bears N. 20° E. and S. 20° W. Thence over broken rocky bench.
77.10	Desc. over sandstone ledges, bear N. and S.
79.97	The cor. of secs. 17, 18, 19 and 20, 30 ft. below bench.
	Land, rough mountainous with box canyons draining to the S.
	Soil, sandy, rocky shallow gravel. On sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, yellow-top and grass. Poor grazing.
	N. 0° 03' W. on true line, bet. secs. 17 and 18.
	Over rocky broken bench land, asc. over broken sandstone through scattered mountain rush, sagebrush, shadscale, rabbit-brush and grass undergrowth.
16.70	Leave sandstone, bears E. and W. thence over rolling blue clay bench with few sandstone outcroppings. Asc.
40.00	On blue clay bench, 70 ft. above sec. cor.,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 17 and 18, with brass cap mkd.,

Chains

$\frac{1}{4}$

S 18 | S 17

1917

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

Continue ascent over blue clay hills. Asc. more abruptly.

78.70 Main clay and sandstone spur, 330 ft. above ¼ cor., projects W. about 20.00 chs. dist. Desc. abrupt N. clay slope.

80.00 On N. steep clay slope of spur, 60 ft. below top, Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 7, 8, 17 and 18, with brass cap mkd.,

T 43 S R 3 E

S 7 | S 8

S 18 | S 17

1917

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

Land, broken rocky and blue clay bench and steep clay and sandstone foot hills, general drainage to the SW.

Soil, rocky clay, on clay and sandstone sobsoil.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, rabbit-brush sagebrush and grass. Poor grazing.

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

On account of sandstone and clay steep ledges, it is impracticable to chain E. from the sec. cor., therefore triangulate as follows, set a point on line, S. 89° 59' E., at top of ledges, then offset N. to a point E. of the sec. cor., and observe that the ¼ cor. of secs. 17 and 18, bears S. 24° 59' W. The dist. is then,

40.00 x tan. 24° 59' or .46595 + (3 lks.) = 18.67 chs.

Chains	
18.67	Triangulation point, offset back S. to random line thence S. 89° 59' E., on random line.
37.23	Brink of mountain, impracticable to chain over sandstone ledges, therefore triangulate as follows, note that the cor. of secs. 8, 9, 16 and 17 bears S. 89° 50' E. the falling therefore on random line, is 11 lks. N. Offset S. a dist. of 12. lks. to a point W. of the sec. cor., and from this point observe that the ¼ cor. of secs. 16 and 17 bears S. 47° 00' E. The dist. is then, 40.00 x tan. 47° 00' or 1.07237 - (3 lks.) = 42.86 chs.
80.09	On true random line, intersect the N. and S. line, 11 lks. dist., N. of the cor. of secs. 8, 9, 16 and 17, Thence,
	N. 89° 54' W., on true line, bet. secs. 8 and 17. Over rough clay and sandstone foothills, asc. through scattered shadscale, rabbit-brush and grass undergrowth.
19.40	Asc. abruptly over sandstone ledges, bear S. W. and N. 80° E. Enter mountain rush, and yellow-top undergrowth, bears with ledges.
23.00	Base of high sandstone ledges over which it is impossible to chain, Asc. abruptly, main ledges bear N. 20 E. and S. 20° W.
40.04½	Point for ¼ sec. cor.; cor. not set.
42.86	Triangulation point on brink of mountain, 620 ft. above sec. cor., bears N. and S. The true point for ¼ sec. cor., falls on inaccessible ledges.
43.16	On gradual E. slope of mountain, 620 ft. above sec. cor. Set a sandstone, 30 x 20 x 20 ins., on bare sandstone bedrock, 15 ins. in a mound of stone, 3 ft. base, for the W. C. ¼ cor. of secs. 8 and 17, mkd., W C ¼ on N. face. There was no iron post, available for this cor.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the W.C.
	Thence asc. gradually over rocky E. slope of mountain.
55.30	Main ridge, 80 ft. above W. C., bears N. and S. Desc.

Chains

61.42 Trianngulation point on top of ledges and rim of mountain, 50 ft. below ridge, bears N. and S. Desc. abruptly over rugged, ledgy, W. slope of mountain.

80.09 The cor. of secs. 7, 8, 17 and 18, 620 ft. below rim of mountain.

Land, broken foothills and rugged, mountainous land. General drainage to the S. and SW.

Soil, shallow, rocky, sandy clay, on sandstone bedrock.

Timber, none.

Undergrowth, scattered shadscale, rabbit-brush, mountain rush, yellow-top and grass. Too rough for grazing except on E. portion of mile.

S. 89° 57' W., on random line, bet. secs. 7 and 18.

40.00 Set temp. point for the ¼ cor.

79.84 Intersect the W. bdy. of the Tp. 5 lks. N. of the cor. of secs. 7, 12, 13 and 18, heretofore described.

Thence,

N. 89° 55' E., on true line, bet. secs. 7 and 18.

Over rolling blue clay bench land through scattered shadscale undergrowth.

36.00 Asc. gradually over blue clay foothills.

39.84 On S. slope of clay foothills, 50 ft. above sec. cor., Set an ironpost, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 7 and 18, with brass cap mkd.,

¼ S 7
S 18
1917

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

Desc. over blue clay hills along base of high mountain, bears E. and W.

58.60 Clay and sandstone ravine, 50 ft. below ¼ cor., course ST. Asc. abruptly over steep clay and sandstone slope.

Chains	
	Enter scattered mountain rush, greasewood and grass under-growth, bears NW. and SE.
63.17	Set triangulation flag 2½ lks. N. of line, on clay and sandstone spur, projects SW. 170 ft. above ravine. Asc. over rocky, clay W. slope.
74.50	Clay and sandstone spur, 60 ft. above spur, projects S. Desc. abruptly over steep E. slope of spur.
77.20	Rocky clay ravine, 80 ft. below spur, course SW. Asc. gradually over clay NW. slope.
79.84	The cor. of secs. 7, 8, 17 and 18, 40 ft. above ravine. Land, rolling blue clay bench and steep clay and sandstone foothills, general drainage to the SW. Soil, rocky, clay on foothills, on rocky clay subsoil. Blue clay on bench, subsoil same. Timber, none. Undergrowth, scattered mountain rush, shadscale, greasewood and grass. Poor grazing.
	N. 0° 03' W., on true line, bet. secs. 7 and 8. Over rough mountainous land, asc. abruptly through scattered mountain rush, shadscale, greasewood and grass undergrowth. It is impossible to chain N. from this cor. on account of high, steep sandstone and clay ledges, therefore triangulate to top of mountain as follows, set a point N. at top of ledges, from which point the flag previously set. a dist. of 16.67 chs. W. of the cor. of secs. 7, 8, 17 and 18, bears S. 26° 56' W. The dist. is then, 16.67 x cotan. 26° 56' or 1.96827 = 32.81 chs.
32.81	Triangulation point at top of high mountain, 620 ft. above sec. cor., bears S. 40° W. and N. 40° E. Thence over rocky top of mountain. Offset W. 3 lks. dist.
33.40	Desc. abruptly over sandstone ledges, bear S. 40° W. and N. 40° E.

S. 26° 56' W. 16.67

Chains

40.00 On rocky steep NW. slope of mountain, 130 ft. below top. Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the ¼ cor. of secs. 7 and 8, with brass cap mkd.,

¼

S 7 | S 8

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.

Continue abrupt desc. over rocky, shale N. slope.

57.70 Rocky ravine, 130 ft. below ¼ cor., course NE. Asc.

59.40 Rocky, shale spur, 130 ft. above ravine, projects NE. Desc. abruptly over steep rocky NW. slope.

80.00 On rocky broken flat at base of spur, 200 ft. below spur; Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 5, 6, 7 and 8, with brass cap mkd.,

T 43 S R 3 E

S 6 | S 5

S 7 | S 8

1917

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

Land, rough, rugged mountainous, with sandstone ledges throughout mile, general drainage to the NW. and SW.

Soil, shallow, rocky, sandy, clay and shale, on sandstone bedrock.

Timber, none.

Undergrowth, scattered shadscale, mountainrush, greasewood and grass. Too rough for grazing.

S. 89° 54' E., on random line, bet. secs. 5 and 8.

Chains	
40.00	Set temp. point for the ¼ cor.
79.91	Intersect the N. and S. line, 8 lks. S. of the cor. of secs. 4, 5, 8 and 9.
	Thence,
	N. 89° 57' W., on true line, bet. secs. 5 and 8.
	Over rough mountainous land, asc. abruptly over sandstone ledges through scattered mountain rush, shadscale, greasewood, and grass undergrowth.
9.00	Rim of ledges, 80 ft. above sec. cor., bear N. and S. Thence asc. abruptly over SE. slope of spur.
14.30	Sandstone spur, 250 ft. above sec. cor., projects NE. Desc. over broken sandstone ledges.
22.30	Rocky ravine, 60 ft. below spur, course NE. Asc. over sandstone ledges.
31.60	Rocky wash, 80 ft. above ravine, 20 lks. wide, 2 ft. deep, drains NE. Asc. abruptly over low broken sandstone ledges.
39.35½	On rocky E. slope of mountain, 40 ft. above wash, Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3½ ft. base, for the ¼ cor. of secs. 5 and 8, with brass cap mkd., $\frac{1}{4}\ \frac{S\ 5.}{S\ 8}\ 1917$
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Thence over narrow E. slope of bench. Asc.
44.40	Asc. abruptly over high sandstone ledges, bear N. and S.
51.20	Narrow top of ridge, 250 ft. above ¼ cor., bears N. and S. Top is only 10 lks. wide, thence desc. abruptly over sandstone ledges.
60.50	Bottom of high sandstone ledges, thence over broken, rocky flat, bears NW. and S. 220 ft. below ridge. Desc. gradually over broken sandstone boulders.

Chains	
79.40	Rocky ravine, 320 ft, below ridge, course NW. Asc. over low sandstone ledges.
79.91	The cor. of secs. 5, 6, 7 and 8, 30 ft. above ravine.
	Land, rough, rugged, mountainous, general drainage to the NE. and NW.
	Soil, shallow, rocky, sandy clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood and grass. Too rough for grazing.

	S. 89° 55' W., on random line, bet. secs. 6 and 7.
40.00	Point falls on sandstone and clay, steep slopeon unsafe ground.
43.27	Set temp. point for the ¼ W.C.
79.65	Intersect the West bdy. of the Tp. 28 lks. S. of the cor. of secs. 1, 6, 7 and 12, heretofore described.
	Thence,
	S. 89° 53' E., on true line, bet. secs. 6 and 7.
	Over rolling blue clay bench land, through scattered shadscale undergrowth.
4.10	Leave rolling bench, bears N. and S. Asc. abruptly over steep clay W. slope of spur.
13.70	Clay spur, 100 ft. above sec. cor., projects about 2.00 chs. dist. N. Desc. into ravine,
16.50	Clay and sandstone ravine, 50 ft. below spur, course NW. Asc. abruptly over steep sandstone and clay ledges,
36.64	On Rocky NW. slope, 300 ft. above ravine,
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 3½ ft. base, for the W. C. to the ¼ cor. of secs. 6 and 7, with brass cap mkd.,
	¼ S 6. / S 7 — WC 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the W.C.

Chains	
39.65	Point for $\frac{1}{4}$ sec. cor.; cor. not set. Asc. abruptly over steep sandstone and clay NW. slope of mountain.
55.40	Rim of sandstone ledges, 270 ft. above $\frac{1}{4}$ W. C., bears SE. and NW. Asc. gradually.
60.00	Sandstone spur, 40 ft. above rim of ledges, projects NW. Desc. over rocky NE. slope of spur.
79.55	The cor. of secs. 5, 6, 7 and 8; 80 ft. below spur.
	Land, blue clay bench and foothills and rugged, rocky mountainous land, general drainage to the NW.
	Soil, rocky, sandy, clay, on sandstone bedrock, except extreme W. portion of mile which is on clay subsoil.
	Timber, none.
	Undergrowth, scattered shadscale. No grazing.
	N. 0° 08' W., on random line, bet. secs. 5 and 6.
40.00	Settemp. point for $\frac{1}{4}$ sec. cor.
81.07	Intersect the N. bdy. of the Tp. 5 lks. W. of the cor. of secs. 5, 6, 31 and 32, heretofore described.
	Thence,
	S. 0° 06' E., on true line, bet. secs. 5 and 6,
	Over rough mountainous land, desc. abruptly over sandstone ledges, through scattered shadscale, greasewood, mountain rush and grass.
5.90	Rocky ravine, 180 ft. below sec. cor., course W. Asc. abruptly over sandstone ledges.
21.81	Set. flag 24½ lks. E. of line.
22.30	Rocky spur, 200 ft. above ravine, projects NW. Desc. abruptly over sandstone ledges.
39.80	Rocky ravine, 230 ft. below spur, course SW. Asc. abruptly over sandstone ledges.
41.07	On rocky, steep, NW. slope, 60 ft. above ravine, Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2 ft. base, for the $\frac{1}{4}$ cor. of secs. 5 and 6, with brass cap mkd.,

chains

S 6 | S 5

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.

Continue abrupt ascent.

51.80 Rocky spur, 320 ft. above ravine, projects W. Desc. abruptly over sandstone ledges.

65.70 Thence desc. gradually over W. slope of rolling, rocky flat, bears E. and W.

80.60 Rocky ravine, 330 ft. below spur, course from SE. to N. 70° W. Asc. abruptly.

81.07 The cor. of secs. 5, 6, 7 and 8, 40 ft. above ravine.

Land, rough, rocky, mountainous, general drainage to the W. and SW.

Soil, shallow, rocky, sandy, clay, on sandstone bedrock.

Timber, none.

Undergrowth, scattered shadscale, greasewood, mountain rush and grass. Too rough for grazing.

Latitudes, Departures and Closing Errors.

T. 43 S., R. 3 E.

Line designated	Course	Dist. Chs.	Latitudes		Departures	
			N.Chs.	S.Chs.	E.Chs.	W.Chs.
West Boundary	South	480.33	.....	480.33	.....	.....
South "	East.	480.00	.....	.....	480.00	.....
East "	North	480.33	480.33	.....	.....	.....
North "	West.	479.79	.....	.....	.....	479.79
Convergency						.55
Totals			480.33	480.33	480.00	480.34
						480.00
Error in Lat.						
Error in Dep.						.34

General Description of T. 43 S., R. 3 E.

The land embraced on the area of this township varies from rolling sand and clay benches to very rugged, rough mountainous land. South of Wahweap canyon the land is a rolling sandy bench cut by a few deep box gulches and in the SW. part of township are numerous sandstone buttes, 400 ft. high, which are inaccessible. Wahweap canyon cuts through the south part of the township from the NW. to the E. and SE. This canyon is from ¼ to ½ mile in width and is from 100 to 200 feet deep, being boxrdered by a sandstone wall on both sides which is inaccessible on most of the north side of the canyon.

North of the canyon for aboub two miles, are numerous deep box gulches, and inaccessible sandstone buttes and it is impossible to get over the ledges except in a few places. These box gulches drain south and head in a broken blue clay bench, from ½ to 1½ miles in width extending across the N. central part of the township from E. to W. This bench is about 600 feet above lower Wahweap canyon, and is at the base of the high gray bluffs that project from the north into this township about 2 miles distance. These gray bluffs are 1000 feet above the clay bench and are inaccessible except in a few places.

The rock or sandstone butte in the center of sec. 36 is known as Lone Rock, and is about 480 ft. high, in the bottom of Wahweap canyon.

There is no timber in the township except a very few cedar and pinons in box gulches.

The township is covered with a scattered growth of shadscale, mountain rush, oose-root, greasewood, yellow-top and grass, varying from a good scattered growth on the sandy benches to very scattered shadscale on the clay bench. The most of the township affords a fair rate of grazing.

There are numerous indications of coal and small horizontal

veins of bituminous coal can be found most anywhere in the township around the sandstone ledges, the coal indications become more numerous and of a better nature toward the NE. part of the township. No other minerals were found.

There is water in Wahweap canyon at numerous places along the bottom of the canyon in Wahweap wash. This water usually seeps out of the bottom of the wash and flows a little distance then disappears. The water at Wire Grass spring in NW. ¼ sec. 29 is the largest supply but is poor drinking water being heavily charged with, magnesia, gypsum and alkali as is also the water at other places along Wahweap wash. The spring in the N. ½ sec. 36 is the best water in the township and carries only a small amount of the above mentioned minerals.

No settlers in the township and no improvements except a short fence, brush, in sec. 29.

Locations of water in T. 43 S., R. 3 E.

N. ½ sec. 36, spring in box canyon.
W. ½ sec. 31, tanks in sandstone.
NW. ¼ sec. 29, Wire Grass spring, in Wahweap canyon.
Seeps in Wahweap wash, in secs. 19, 30, 29, 28, 27, 26, 35 and 36.

4—680

BOOK A-434

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—2761

CERTIFICATE

~~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 First 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 North, South, East, West Boundaries and the Subdivision of T. 43 S., R. 3 E.

of the Salt Lake Base and Meridian, in the State of Utah which are represented in and index diagram on page 1 of same, and on the dates shown on said di 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.

Thos. C. Rathbone
U. S. Surveyor.

Dated Apr. 21 1918

~~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.

6—2764

U. S. Surveyor General.

4—GSO

BOOK A-434

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—2761

CERTIFICATE

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

I, Lyman E. Bolinger, 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 first 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 North, South, East and West Boundaries and Subdivision of T. 43 S., R. 3 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in and index diagram on page 1 of same, and on the dates shown on said diagr the foregoing field notes, as having been executed by me, and under my direction; and I do further certify on honor ~~solemnly swear~~ 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.

Lyman E. Bolinger

U. S. ~~Surveyor~~, Transitman

Dated March 28, 1918

~~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, December 12 1918

The foregoing field notes of the survey of north, south, east, and west boundaries and subdivision of Township No. 43 South, Range No. 3 East of the Salt Lake Base and Meridian, Utah,

executed by Thos. C. Rathbone and Lyman E. Bolinger under ~~his~~ special instructions dated February 1, 1916, 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.

6—2761

U. S. Surveyor General.

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Page

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Page

4—679

BOOK A-434

B.

FIELD NOTES

RETRACEMENT

OF THE ~~SURVEY~~ OF THE

UTAH-ARIZONA STATE BOUNDARY FROM THE 136th TO THE 140TH MILE POST

AND THE SURVEY OF THE EAST BOUNDARY, WEST BOUNDARY AND THE SUB-

DIVISION OF THE FRACTIONAL T. 44 S., R. 3 E.

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

Lyman E. Bolinger,

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* February 1, *1916, issued by the United States Surveyor General to govern surveys included in Group No.* 51, *which were approved by the Commissioner of the General Land Office,* April 4, *1916,* and under assignment instructions dated Oct. 1, 1917, issued by the Asst. Supervisor of Surveys for Utah.

Survey commenced Oct. 4, *1917*

Survey completed Nov. 12, *1917*

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Examination Record

A Plat F.B.B. Notes F.B.B.

Computations F.B.B.

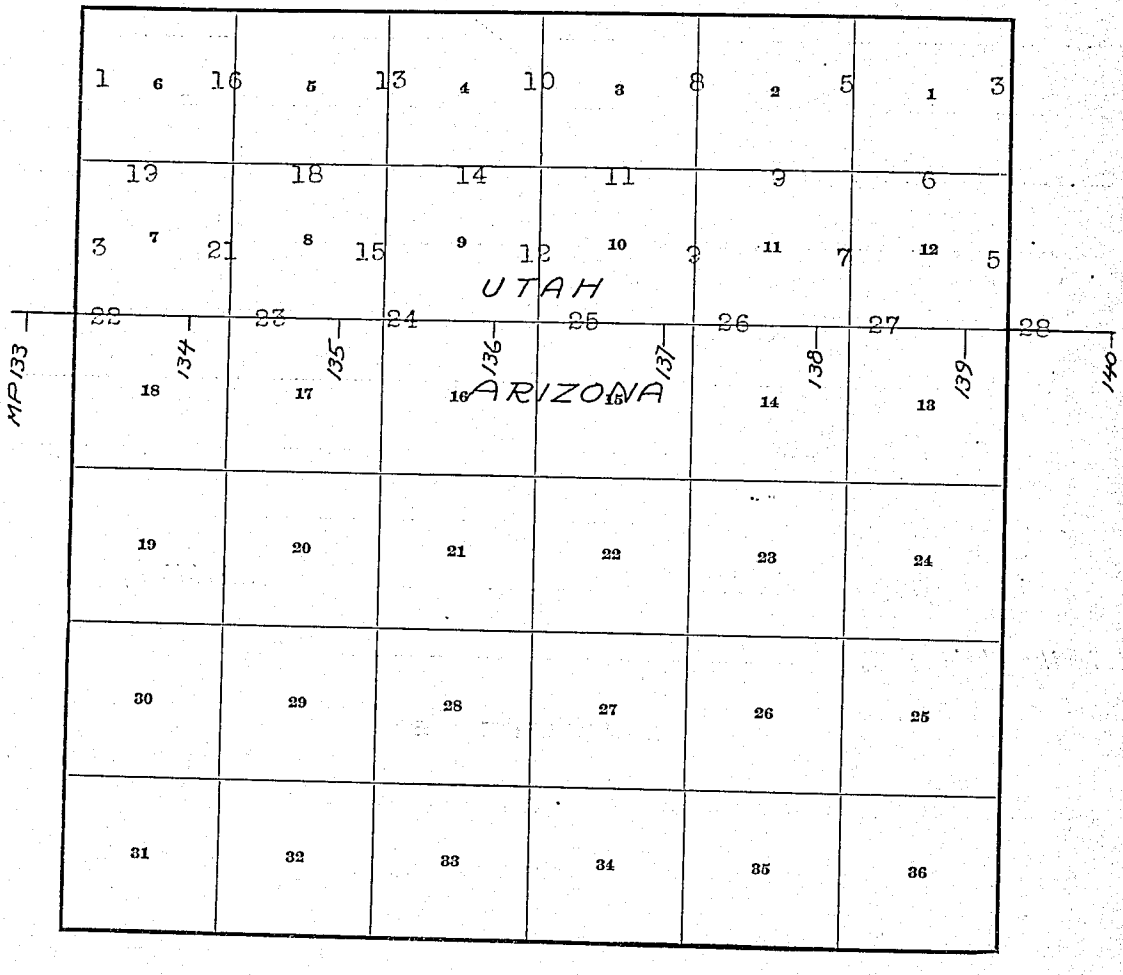
Comparing

Plat V.I.F. Notes F.B.B.

BOOK A-434

INDEX DIAGRAM.

Fractional Township 44 S., Range 3 E.



Names and Duties of Assistants.

6-151

Melvin Lewis, first assistant.
Ira Mace, second "
Pharo Phelps, " "
Frank Johnson, flagman.
Barnie Isenhouer, cornerman.

BOOK A-434

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INDEX DIAGRAM.

Township 44 S, Range 3 E

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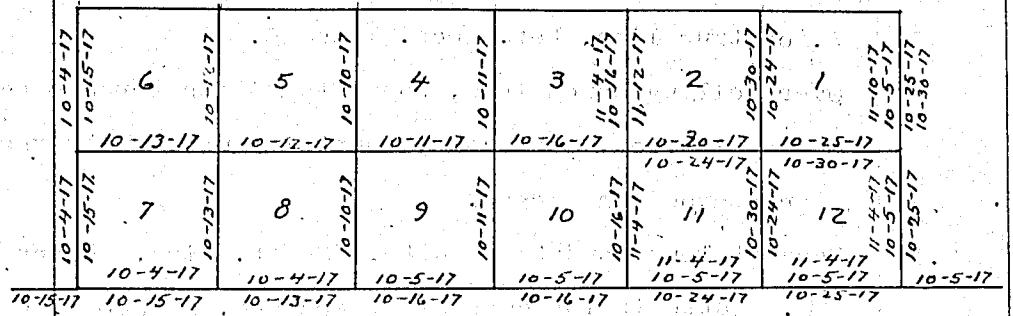
30	29	28	27	26	25
31	32	33	34	35	36

Utah-Arizona Boundary Line
1 Retracement pages 152-158

6—4817



——— Lines along which dates are colored red were surveyed by Lyman E. Bolinger, U. S. Transitman.

Survey commenced October 4, 1917, and executed with Young and Sons. light mountain transit number 8584, with Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, 180 degrees apart, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was approved for use on this survey by the Assistant Supervisor of Surveys for Utah, Oct. 1, 1917, conditional on satisfactory field test.

For the test of this instrument see the field notes of the survey of T. 43 S., R. 3 E., Utah.

Five-chain tapes of steel, and clinometers for determining slope angles were used in measureing all distances, and the tapes were frequently tested by comparison with a standard one-chain steel tape kept for this purpose exclusively.

Survey of the West Bdy. of T. 44 S., R. 3 E.

From the cor. of townships 43 and 44 S., R. 2 and 3 E., which is an iron post, 3 ins. dia., firmly set, 12 ins.

Chains	
	above ground, properly marked and witnessed.
	S. on true line, bet. secs. 1 and 6.
	Over rolling bench land, sandy formation through scattered ooze root, shadscale, mountain rush, white sagebrush, greasewood and grass.
9.14	Base of lone sandstone butte, 320 ft. high, bears E. and W. Butte is inaccessible therefore, offset E. a dist. of 3.60 chs., thence S. on offset line.
15.74	S. base of same butte, offset W. a dist. of 3.60 chs. to true line, thence S. on true line.
40.00	On rolling sandy bench, 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. 1 and 6, with brass cap mkd.,

¼

S 1 | S 6

1917

No stone available for mound, therefore dig pits, 18 x 18 x 12 ins. N. and S. of the cor., 3 ft. dist. Thence desc. gradually into ravine.

42.10	Ravine, 20 ft. below ¼ cor., drains NE. Asc. gradually over rolling sand hills.
80.00	On rolling sand bench, 10 ft. above ravine, Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 1, 6, 7 and 12, with brass cap mkd.,

T 44 S
R 2 E | R 3 E

S 1 | S 6

S 12 | S 7

1917

Dig pits. 18 x 18 x 12 ins., in each sec. 5½ ft. dist.,

Land, rolling sand bench, draining NE.

Soil, light, dry, sandy loam, subsoil same.

Timber, none.

Undergrowth, mountain rush, shadscale, greasewood, ooze

Chains	
	root, white sagebrush and scattered grass. Fair grazing.
	S. on true line, bet. secs. 7 and 12.
	Over rolling sandy bench, desc. gradually through scattered greasewood, oose root, mountain rush, white sagebrush, rabbit-brush and grass.
3.10	Ravine, 20 ft. below sec. cor., course NE. Thence over rolling sand hills, draining NE.
20.79	Intersect the Utah-Arizona state line, a distance of 27.85 chs. N. 89° 49' E. of the 133 mile post.
	At intersection, 20 ft. above ravine,
	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for the closing cor. of T. 44 S., R. 2 and 3 E., with brass cap mkd.,

UTAH
CC
T 44 S
R 2 E | R 3 E
S 12 | S 7
133 M
ARIZ
1917

	Dig pits, 30 x 24 x 12 ins., crosswise on each line, E. and W., 4 ft., and N. 8 ft. dist.
	Land, rolling sandy bench, draining NE.
	Soil, light, dry, sandy loam, on sandy subsoil.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose root, greasewood, white sagebrush and grass. Fair grazing.

Survey of the East Boundary T.44 S.R.3 E.

	From the cor. of Tps. 43. & 44 S.Rs. 3. & 4. E. heretofore desc, S. on true line, bet. secs. 1 and 6. From Tp. cor.
	Over rolling bench land, desc. gradually through scattered white sagebrush, shadscale, greasewood, mountain rush, rabbit-brush and grass undergrowth.
20.40	Edge of bench land and Tahweap canyon, 10 ft. below sec.

Chains	
	bears NW. and SE. Thence desc. abruptly into Wahweap canyon.
40.00	In bottom of Wahweap canyon, 100 ft. below bench, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 1 and 6, with brass cap mkd.,

¼

S 1 | S 6

1317

Dig pits, 18 x 18 x 12 ins., N. and S. of the cor. 3 ft. dist.

52.60	Wahweap creek, 10 ft. below ¼ cor., course SE., small stream of alkali water, 4 lks. wide, 2 ins. deep. Asc. abruptly over red sandstone ledges.
67.50	S. rim of Wahweap canyon, 200 ft. above creek, bears SE. and NW. Thence over rolling sand bench.
80.00	On rolling sand bench, 220 ft. above Wahweap creek. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 1, 6, 7 and 12, with brass cap mkd.,

T 44 S

R 3 E R 4 E

S 1 | S 6

S 12 | S 7

1317

Dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist. from the sec. cor.

Land, rolling sandy bench, except along Wahweap canyon, which is sandy, rocky and gravely, general drainage S. and NE. to Wahweap creek draining SE.

Soil, light, dry, sandy loam, on some subsoil, on benches, along creek mixed with gravel and sandstone.

Timber, none.

Undergrowth, scattered mountain rush, shadescale, white sagebrush, greasewood and rabbit-brush and scanty grass. Fair grazing on benches.

Chains	
	S, on true line, bet. secs. 7 and 12.
	Over rolling sandy bench land, asc. gradually through scattered mountain rush, shadscale, greasewood, rabbit-brush, oose root, white sagebrush and grass undergrowth.
20.02	Intersect the Utah-Arizona state boundary, 27.14 chs. dist., E. of the 139 th mile post, heretofore described, At intersection, 30 ft. above sec. cor., Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for the closing cor. of T. 44 S., R 3 and 4 E., with brass cap mkd., UTAH C C T 44 S R 3 E | R 4 E S. 12 | S 7 139 M ARIZ. 1917
	No stone available for mound, impracticable to dig pits on account of drifting sand.
	Land, rolling sandy bench, draining to the NE.
	Soil, light, dry sandy loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood, rabbit-brush, oose root, whitesagebrush and grass.
	Fair grazing.

	Subdivision of T. 44 S., R. 3 E.
	From the cor. of secs. 35, 36, 1 and 2, heretofore described.
	S. 0°01' E., on true line, bet. secs. 1 and 2.
	Over rolling sandy bench land, asc. gradually through scattered greasewood, oose-root, rabbit-brush, mountain rush, shadscale and grass.
29.30	Base of sand hill, 10 ft. above sec. cor., bears E. and W. Thence asc. over sandy land.
35.30	Top of sand hill, 110 ft. above sec. cor., bears E. and W. Desc. gradually over S. slope.

Chains

40.00 On gentle S. slope of sand hill, 30 ft. below top,
Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 1 and 2, with brass cap mkd.,

S 2 | ¼ | S 1

1917

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

Thence on nearly level sandy bench land.

80.00 On rolling sandy bench, level with ¼ cor.
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 44 S R 3 E
S 2 | S 1
S 11 | S 12

1917

No stone available, therefore dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist. from sec. cor.
Land, rolling sandy bench land, draining N. and S.
Soil, light, dry, sandy loam, on sandy subsoil. A few outcrops of sandstone along middle portion of mile.
Timber, none.
Undergrowth, scattered ooze-root, mountain rush, shadscale, greasewood, rabbit-brush and grass. Fair grazing.

E. on random line, bet. secs. 1 and 12.

40.00 Set temp. point for the ¼ sec. cor.

80.04 Intersect the E. bdy. of the Tp. 14 lks. N. of the cor. of secs. 1, 6, 7 and 12, heretofore described.

Thence,

N. 89° 54' W., on true line, bet. secs. 1 and 12.
Over rolling sandy bench land through scattered mountain rush, shadscale, ooze-root, greasewood, rabbit-brush

Chains

white sagebrush and grass, undergrowth.

40.02 On rolling sandy bench, 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. 1 and 12, with brass cap mkd.,

S 1
¼
S 12
1917

No stone available for mound, therefore dig pits, 18 x 18 x 12 ins., 3 ft. dist., E. and W. of the cor.

Thence over rolling sandy land, draining NW.

44.00 Ledgy sandstone ravine, 30 ft. deep, 3.00 chs. wide, course NE.

80.04 The cor. of secs. 1, 2, 11 and 12, 40 ft. above ravine.

Land, rolling sandy bench land, draining E. and W. into ledgy ravine draining NE.

Soil, sandy, light, dry, loam, subsoil same. Sandstone along ravine.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, greasewood, white sagebrush, rabbit-brush, oose-root and grass.

Fair grazing.

S. 0° 01' E., on true line, bet. secs. 11 and 12.

Over rolling sandy bench land through scattered mountain rush, shadscale, oose-root, greasewood, white sagebrush, rabbit-brush and grass undergrowth.

20.14 Intersect the Utah-Arizona state boundary, 27.27 chs. dist., E. of the 138th mile post, heretofore described.

At intersection, level with sec. cor.,

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the closing cor. of secs. 11 and 12, with brass cap mkd.,

UTAH
C C
T 44 S R 3 E
S 11 | S 12
138 M
ARIZ
1917

Chains.

No stone available for mound, therefore dig pits, 24 x 18 x 12 ins. crosswise on each line, E. and W., 3 ft., and N. of cor., 7 ft. dist.

Land, rolling sandy bench, draining NE.

Soil, light, dry, sandy loam, subsoil same.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, greasewood, oose-root, white sagebrush, rabbit-brush and grass. Good grazing.

S.0°01' E., on true line bet. secs. 2 and 3, from the cor. of secs. 34, 35, 2 and 3, heretofore described.

Over rolling sand hills and bench land through scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush, white sagebrush and grass undergrowth.

40.00 On rolling sandy bench, 20 ft. above sec. cor., Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 2 and 3, with brass cap mkd.,

¼

S 3 | S 2

1917

Dig pits, 18 x 18 x 12 ins., N. and S. of the cor., 3 ft. dist.

80.00 On rolling sandy bench, level with ¼ cor. Set an iron post, 3 ft. long, 2 ins. dia., 20 ins. in the ground, to bedrock, 4 ins. in gravel, no stone available, for the cor. of secs. 2, 3, 10 and 11, with brass cap mkd.,

T 44 S R 3 E

S 3 | S 2

S 10 | S 11

1917

Dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist., from the sec. cor.

Chains	
	Land, rolling sandy bench land, draining E. and NW.
	Soil, light, dry, sandy loam, subsoil same.
	Timber; nnne.
	Undergrowth, scattered mountain rush, shadscale, oose-root, rabbit-brush, greasewood, and grass.
	E. on random line, bet. secs. 2 and 11.
40.00	Set temp. point for the ¼ sec. cor.
80.00	Intersect the N. and S. line, 14 lks. S. of the cor. of secs. 1, 2, 11 and 12.
	Thence,
	S. 89° 54' W., on true line, bet. secs. 2 and 11.
	Over rolling sandy bench land through scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush and grass undergrowth.
40.00	On gentle NE. slope, 10 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. 2 and 11, with brass cap mkd.,
	¼ S 2 / S 11 / 1917
	Dig pits, 18 x 18 x 12 ins. E. and W. of the ¼ cor., 3 ft. dist.
	Asc. gradual SE. slope.
80.00	The cor. of secs. 2, 3, 10 and 11, 30 ft. above ¼ cor.
	Land, rolling sandy bench, general drainage NE.
	Soil, light, dry, sandy loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, rabbit-brush, oose-root, greasewood and grass. Fair grazing.
	S. 0° 01' E., on true line, bet.secs. 10 and 11.
	Over rolling sandy bench land, desc. gradually through scattered mountain rush, shadscale, rabbit-brush, oose-

Chains	
	root, greasewood and grass undergrowth.
20.25	Intersect the Utah-Arizona state boundary line, 27.10 chs. N. 89° 54' E., of the 137th mile post, heretofore describe At intersection, 40 ft. below sec. cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the closing corner of secs. 10 and 11, with brass cap mkd.,
	UTAH C.C T 44 S R 3 E S 10 | S 11 137 M ARIZ 1917
	Dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. of the cor. 3 ft. dist., and N. of cor. 7 ft. dist.
	Land, rolling sandy bench, draining generally NE.
	Soil, light, sandy loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush, and grass. Fair grazing.
	From the cor. of secs. 33, 34, 3 and 4, heretofore described.
	S. 0° 02' E., on true line, bet. secs. 3 and 4.
	Over rolling sandy bench land through scattered mountain rush, shadscale, greasewood, oose-root, rabbit-brush and grass, undergrowth.
40.00	On sandy bench sloping gradually to the SE., 10 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. 3 and 4, with brass cap mkd.,
	¼ S 4 | S 3 1917

Chains	
	Dig pits, 18 x 18 x 12 ins., N. and S. of the cor., 3 ft. dist.
56.70	Ravine, 20 ft. below ¼ cor., course NE. Asc. gradually.
80.00	30 ft. above ravine, on gradual NW. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 26 ins. in the ground, for the cor. of secs. 3 and 4,9 and 10, with brass cap,mkd.,

T 44 S R 3 E

S 4	S 3
S 9	S 10

1917

Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist. from sec. cor.

Land, rolling sandy bench, general drainage NE.

Soil, light, dry, sandy loam, subsoil same.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush and grass. Fair grazing.

	E. on random line, bet. secs. 3 and 10.
40.00	Set temp. point for the ¼ sec. cor.
80.00	Intersect the N. and S. line, 7 lks. N. of the cor. of secs. 2, 3, 10 and 11.
	Thence,
	N. 89° 57' W., on true line, bet. secs. 3 and 10.
	Over rolling sandy bench land through scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush and grass undergrowth.
40.00	On gradual NW. slope, 20 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. 3 and 10, with brass cap mkd.,

S 3

¼

S 10

1917

Subdivision of Fractional T. 44 S., R. 3 E.

Chains	
..	Dig pits, 18 x 18 x 12 ins. E. and W. of the ¼ sec. cor. 3 ft. dist.
80.00	The cor. of secs. 3, 4, 9 and 10, 20 ft. below ¼ cor.
	Land, rolling sandy bench draining NW.
	Soil, light, dry, sandy loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose-root, rabbit-brush greasewood and grass. Fair grazing.

S. 0° 02 ' E., on true line, bet. secs. 9 and 10.

Over rolling sandy bench land through scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush and grass undergrowth.

20.55 Intersect the Utah-Arizona state boundary line, 27.14 chs. dist., N. 89° 50' E., of the 136th Mile post, heretofore described.

At intersection, 20 ft. above sec. cor.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the closing cor. of secs. 9 and 10, with brass cap mkd.,

UTAH
C C
T 44 S R 3 E
S 9 | S 10

136 M
ARIZ
1917

Dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. of the cor, 3 ft. dist., and N. of the cor. 7 ft. dist.

Land, rolling sandy bench, general drainage to NW.

Soil, light, dry, sandy loam, subsoil same.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, oose-root, rabbit-brush, greasewood and grass. Fair Grazing.

Chains	
	From the cor. of secs. 32, 33, 4 and 5, heretofore described.
	S. 0° 03' E., on true line, bet. secs. 4 and 5.
	Over rough mountainous land, asc. abruptly over sandstone ledges, through scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush and grass undergrowth.
	It is impracticable to chain over the sheer sandstone wall, south of sec. cor., bearing NE. and SW., therefore, offset 18.10 chs. E. thence S. 0° 03' E., on offset line.
25.00	Bare sandstone spur, 100 ft. above offset point, projects about 10.00 chs. dist., E. Desc. abruptly over sandstone wall, 140 ft. high.
25.30	Base of sandstone wall, 140 ft. below spur, bears E. and W.
25.40	Sandy ravine, 140 ft. below spur, course E. Thence over rolling sandy bench land at E. base of sandstone ledges bearing N. and S.
40.00	Point is in ledges, impracticable to get to point of True ¼ cor., or get on true line. Continue on offset line, S. 0° 03' E.
47.54	Offset W. a distance of 18.10 chs. to true line, then measure N. 0° 03' W., a distance of 10 lks., and at
47.44	At base of sandstone ledges, bearing NE. and SW., 40 ft. above ravine.
	Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the W. C. to the ¼ cor. of secs. 4 and 5, with brass cap mkd.,
	W C ¼ S 5 | S 4 1917.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.
	Thence, S. 0° 03' E., on true line, over broken sandstone

Chains	
	ledges bearing NE. and SW.
59.50	Ravine, 110 ft. below ¼ cor., course SE. Thence over rolling sandy bench land.
80.00	On rolling sandy bench land, 30 ft. above ravine. 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 44 S R 3 E

S 5	S 4
S 8	S 9

1917

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

Land, N. portion sheer sandstone walls, 400 ft. high, and broken sandstone ledges, S. portion rolling sandy bench. General drainage E. and SE.

Soil, sandy loam on S. portion of mile, rocky, sandy, shallow loam on sandstone bedrock. S. portion on sandy subsoil.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush and grass.

E. on random line, bet. secs. 4 and 9.

40.00 Set temp. point for the ¼ sec. cor.

80.03 Intersect the N. and S. line 11 lks. N. of the cor. of secs. 3, 4, 9 and 10.

Thence,

N. 89° 55' W., on true line, bet. secs. 4 and 9.

Over rolling bench land, sandy soil, desc. gradually through scattered mountain rush, oose-root, shadscale, rabbit-brush, sagebrush and grass undergrowth.

12.60 Ravine, 40 ft. below sec. cor., course NE. Asc. gradually.

Thence over rolling sandy bench land.

40.01½ On bench land, 20 ft. above ravine.

Subdivision of Fractional T. 44 S., R. 3 E.

Chains	
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 4 and 9, with brass cap mkd.,
	¼ S 4 / S 9 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor. 3 ft. dist.
65.20	Ravine, 30 ft. below ¼ cor., course NE. Asc. gradual SE. slope. Enter greasewood Undergrowth, bears N. and S.
68.60	Sandy low divide between ravines, 30 ft. above ravine, bears NE. and SW. Desc. gradual NW slope.
70.70	Ravine, 30 ft. below divide, course NE. Thence asc. gradually over rolling sandy bench land.
80.03	The cor. of secs. 4, 5, 8 and 9, 20 ft. above ravine.
	Land, rolling sandy bench land, general drainage NE.
	Soil, light, dry, sandy loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush, sagebrush and grass. Fair grazing.
	S. 0° 03' E., on true line, bet. secs. 8 and 9.
	Over rolling sandy bench lands through scattered mountain rush, shadscale, grease wood, rabbit-brush, oose-root, sagebrush and grass undergrowth.
17.30	Ravine, 30 ft. below sec. cor., course NE. Asc. gradual NW. slope.
20.53	Intersect the Utah-Arizona state boundary line, 27.17 chs. E. of the 135th mile post, heretofore described.
	At intersection, 30 ft. above ravine.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the closing cor. of secs. 8 and 9, with brass cap mkd.,

Chains

UTAH
C C
T 44 S | R 3 E
S 8 | S 9

135 M

ARIZ

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of the cor.

Land, rolling sandy bench, general drainage NE.

Soil, light, dry, sandy loam, sunsoil, same and rocky.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush, sagebrush and grass.

Fair grazing.

From the cor. of secs. 31, 32, 5 and 6, heretofore described.

S. 0° 03' E., on true line, bet. secs. 5 and 6.

Over rolling sandy bench land asc. gradually through scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush, sagebrush and grass, undergrowth.

17.50 Low sand ridge, 30 ft. above sec. cor., bears E. and W. Desc. gradually over sandy land.

27.40 Ravine, 30 ft. below ridge, course NE. Asc. gradually over rolling sand hills.

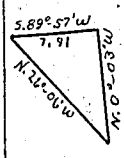
39.20 Near foot of sandstone ledges, 400 ft. high, 10 ft. above ravine,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the W. C. to the ¼ cor. of secs. 5 and 6, with brass cap mkd.,

¼
S 6 | S 5
W C
1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.

Chains	
40.00	Ravine, 10 ft. below W.C., course NW. about 4.00 chs. dist., thence NE. Impractical to set ¼ cor. in ravine as it is unsafe ground.
43.09	Base of vertical sandstone bluffs, 400 ft. high, bear E. and W. It is impossible to ascend bluffs or chain over them, therefore, triangulate as follows, set a point on line, at top of ledges, and measure a base line, from the 43.09 chs. point, S.89°57'W. a dist. of 7.31 chs. and set flag. Then make detour and go to point at top of ledges, from which point the flag at W. end of base bears N. 26° 03' W. The distance is then,
	7.91 x cotan. 26° 03' or 2.04577 = 16.18 chs.
59.27	Triangulation point at top of sandstone bluffs, 400 ft. above ¼ W.C., bears E. and W. Thence over rocky mesa.
80.00	On rolling, rocky mesa, 440 ft. above ¼ W.C.,



Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the ground to bedrock, 6 ins. in a mound of stone, 1½ ft. base, for the cor. of secs. 5, 6, 7 and 8, with brass cap mkd.,

T 44 S R 3 E

S 6	S 5
S 7	S 8

1917

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

Land, rolling sandy bench on N. portion, S. portion, high sandstone bluffs and rocky mesa, general drainage NE. and NW.

Soil, on bench, light; dry, sandy loam, subsoil same, on mesa, rocky, shallow sandy clay, on sandstone bedrock.

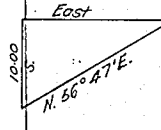
Timber, none.

Undergrowth, scattered mountain rush, shadscale, ooseroot, greasewood, rabbit-brush, sagebrush and grass.

Fair grazing.

Chains	
	E. on random line, bet. secs. 5 and 8.
34.13	Rim of ledges, over which it is impracticable to chain, therefore, set point for temp. ¼ W.C., and triangulate as follows; measure a base line S. from temp point, 10.00 chs. dist. and set flag, then set a point at base of ledges, E. from which point the angle between flags is 35° 18'. The distance is then,
	10.00 x cotan. 35° 18' or 1.41235 = 14.12 chs.
48.25	Triangulation point.
80.03	Intersect the N. and S. line, 7 lks. N. of the cor. of secs. 4, 5, 8 and 9.
	Thence,
	N. 89° 57' W., on true line, bet. secs. 5 and 8.
	Over rolling sandy bench land, through scattered mountain rush, shadscale, oose-root, greasewood, rabbit-brush, sagebrush and grass undergrowth.
31.78	Triangulation point at base of sandstone ledges, 30 ft. above sec. cor., bear N. and S. Asc. abruptly over sandstone ledges over which it is impracticable to chain.
40.01½	Point falls on side of ledges, on unsafe ground.
45.90	Triangulation point at top of ledges, 420 ft. above sec. cor., bear N. and S. At this point,
	No iron post available, therefore set a gray sandstone, 20 x 12 x 3 ins., 15 ins. in a mound of stone, 3 ft. base, on sandstone bedrock, for the W. C. to the ¼ cor. of secs. 5 and 8, mkd., W C ¼ on N. face.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of the W. C.
	Thence over rocky, rolling mesa.
80.03	The cor. of secs. 5, 6, 7 and 8, 10 ft. above ¼ W.C.
	Land, E. portion, rolling sandy bench, draining NE.
	W. portion, rocky rolling mesa, breaking to lower bench with sandstone ledges, 400 ft. below mesa, general drainage to NE. and W.
	Soil, on lower bench, sandy, light, dry, loam, subsoil

Chains.	
	same, W. portion, high broken and rolling rocky mesa, rocky sandy clay soil, on sandstone bed rock.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose root, greasewood, rabbit brush, sagebrush and grass.
	Good grazing.
	West on random line, bet.secs.6 and 7,
3.54	Offset S.9.80 chs.; thence West on offset line. Top of ledges, impracticable to chain, therefore triangulate as follows: Set a flag at the offset point then set a point on offset line at base of ledges, from which point measure a base line S.10.00 chs., from which point the flag at top of ledges bears N.56° 47' E. The distance is then,
	10.00 x tan. 56° 47' or 1.52719= 15.27
18.81	Triangulation point on offset line. Continue on offset.
40.00	Offset N. a distance of 8.50 chs., it is impossible to get to true line, therefore measure E. a distance of 8.00 chs., thence N.1.30 chs. to true line and set temp. point for W.C.$\frac{1}{4}$ cor., Thence from 40.00 chs.point 1.30 chs.S.of line, offset S. a distance of 28.50 chs. to a point 29.80 chs.S.of line, and continue W.on offset line.
51.24	Offset N. a distance of 29.80 chs.to true line; thence W. on true random line.
80.04	Intersect the W.bdy.of Tp. 7 lks.N.of the cor.of secs.1, 6,7, and 12, heretofore described. Thence
	N.89° 57' E. on true line bet.secs.6 and 7,
	Over rolling sandy bench land; descend gradually through scattered mountain rush, sagebrush and grass undergrowth.
9.00	Ravine, 20 ft.below sec.cor., course NE. Asc.gradually.
28.80	Base of high sandstone ledges, 400 ft.high, bears N. and

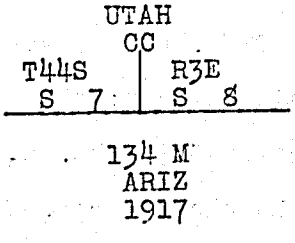


Subdivision of Fractional T. 44 S., R. 3 E.

Chains.	
	S. The top of ledges is inaccessible, therefore offset S. 29.80 chs. to offset point; thence continue N. 89° 57' E. on offset line.
40.04	Point for ¼ sec. cor. 1.30 chs. N.
	Offset N. a distance of 28.50 chs. to base of sandstone ledges, 400 ft. high, bearing S. 10° W. and N. 70° E. Impossible to get to true line here on account of ledges; therefore N. 89° 57' E. on offset line.
43.00	Offset N. a distance of 1.30 chs. to true line, and at base of sandstone ledges, on sandstone shelf, bearing N. 60° E., and S. 70° W. 30 ft. above sec. cor.
	Set an iron post 3 ft. long, 1 in. dia., on bare sandstone 26 ins. in a mound of stone 4 ft. base, for the W.C. to the ¼ cor. of secs. 6 and 7, with brass cap mkd.
	W C ¼ S 6 / S 7 — 1917
	Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	It is impossible to continue E. from this point, on account of high sandstone ledges; therefore return to point 1.30 chs. S. of the 40.04 chs. point and thence S. to offset point which is 9.80 chs. S. of 40.04 chs. point; thence N. 89° 57' E. on offset line.
61.23	Triangulation point at base of sandstone ledges, bearing NW. and SE., level with W.C. ¼ cor.
	Ascend abruptly over sandstone ledges.
76.50	Triangulation point at top of ledges bearing NE. and SW., 400 ft. above W.C. ¼ cor.
	Offset point, thence N. 9.80 chs. to true line.
	Thence N. 89° 57' E. on true line, over rocky upper mesa.
80.04	The cor. of secs. 5, 6, 7, and 8, level with top of ledges.
	Land, rolling sandy bench, high sandstone ledges and rocky, rolling upper mesa. General drainage SW. and NE.
	Soil, on bench, sandy, light, dry loam, subsoil same.
	Balance, shallow, rocky, sandy clay loam, on sandstone bed rock.

Subdivision of Fractional T. 44 S , R. 3 E.

Chains.	
	No timber.
	Undergrowth, scattered mountain rush, shadscale, oose root, greasewood, rabbit brush, sagebrush, and grass.
	Fair grazing.
	S. 0° 03' E. on true line bet.secs.7 and 8,
	Over broken, rocky mesa; descend gradually through scattered mountain rush and shadscale undergrowth.
2.20	Head of box ravine, 10 ft.below sec.cor., course SW. Ascend gradually.
20.65	Intersect the Utah-Arizona state boundary 29.40 chs.E. of the true point for the 134th mile cor., hereinafter described.
	At intersection, on rocky mesa, 10 ft.above ravine,
	Set an iron post, 3 ft.long, 2 ins.dia., 16 ins.in the ground, to bed rock, 8 ins.in a mound of stone, 2 ft. base, for the closing cor.of secs.7 and 8, with brass cap mkd.



	Raise a mound of stone, 2 ft.base, 1½ ft.high N.of the C.C.
	Land, broken, rocky mesa; general drainage S.W.
	Soil, shallow, sandy clay loam, mixed with rocks and gravel.
	No timber,
	Undergrowth, scattered mountain rush and shadscale.
	Poor grazing.

Retracement of the Utah-Arizona State Boundary and the Establishment of ¼ Corners on the South Boundary T. 44 S. R. 3 E.

Chains.	
	From the 133d mile post, on the boundary, which is an iron post, 2 ins. dia., 2½ ft. above ground, firmly set, mkd. and witnessed as described by the surveyor general. East, retracing the 134th mile.
53.80	Offset S. a distance of 8.31 chs. Thence E. on offset line,
81.01	Fall 5.80 chs. N. of the W.C. for the 134 mile cor., which is a cwoss (X) mark on a bare sandstone boulder, 30 x 24 ins., 2 ft. above ground, mkd. and witnessed as described by the surveyor general; equivalent to a falling of 26 lks. S. of the point 14.37 chs. N. of W.C.
	Thence from a point 14.37 chs. N. of the W.C.
	S. 89° 49' W. on true line,
	Over rolling sandy bench land; descending gradually through scattered shadscale, greasewood, oak, mountain rush, sagebrush, and grass undergrowth.
2.57	Point for 134 mile cor.; cor. not set.
8.10	Rocky ravine, 40 ft. below true cor. point, course S. 30° W. Along this ravine are pools of water in the sandstone known as the "Blue Pools", which contain good clear water; 430 ft. below W.C.
9.86	Base of sandstone ledges, 40 ft. above ravine, bearing N. and S. Impossible to chain farther; therefore at this point which is a distance of 3.30 chs. N. 89° 49' E. of a point 40.00 chs. W. of the closing cor. of secs. 7 and 8. On bare sandstone shelf, at base of ledges, 400 ft. high bearing N. and S., or at
13.17	Set a gray sandstone boulder 30 x 24 x 24 ins. on bed rock, 24 ins. in a mound of stone 5 ft. base, for the W.C. to the ¼ cor. on S. bdy. of Sec. 7, mkd. WC¼ on N. face. Raise a mound of stone 2 ft. base, 1½ ft. high N. of the W.C.
	Offset S. a distance of 8.31 chs.; thence S. 89° 49' W. on offset line over broken, rocky bench land.
	On offset line 13.17 chs., point 8.31 chs. S. of true cor. point for ¼ sec. cor. Sec. 7. Cor. Not set.
27.21	Offset N. 8.31 chs. to true line; thence S. 89°

Chains	
	49' W., on true line. Over rolling sandy, bench land.
27.70	Spur, level with offset point, and ¼ W.C. projects SW. Thence desc. gradually.
29.80	Ravine, 20 ft. below spur, course NW. Asc. gradually.
53.16	The closing cor. of T. 44 S., R. 2 and 3 E., 20 ft. above ravine. Thence over rolling sandy bench.
81.01	The 133rd. mile post, heretofore described, level with closing cor.
	Land, rolling lower sandy bench, and high rocky mesa, breaking to lower bench with sandstone walls 400 ft. high. General drainage, SW. and NW.
	Soil, on lower bench, light, dry, sandy loam, subsoil same, upper mesa, shallow rocky sandy clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, oak, mountain rush, sagebrush and grass. Fair grazing.

	From true point for the 134th mile post, continue E. retracing the 135th mile.
21.57	Offset N. a distance of 14.37 chs. to true line, thence E. on true line.
82.26	Fall 1 lk. N. of the 135th mile post, which is a sandstone, 24 x 16 x 3 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor-general.
	Thence,
	West on true line,
	Over rocky E. slope of mesa, asc. through scattered mountain rush, shadscale, sagebrush and grass undergrowth:
12.84½	Point midway bet. the closing cor. of sec. 7 and 8, and closing cor. of secs. 8 and 9, on steep, rocky E. slope, on bare sandstone,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of sec. 8, with brass cap mkd.,

Chains	
	¼ S 6
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of the cor.
	Thence asc. abruptly over sandstone ledges, bearing N. and S.
27.10	Top of ledges and E. edge of mesa, 320 ft. above ¼ cor., bear N. and S. Thence over rolling rocky mesa.
52.66	The closing cor. of secs. 7 and 8, heretofore described. Level with top of ledges.
60.63	Offset S. a distance of 14.77 chs., on account of ledges bearing NE. and SW. Thence W. on offset line.
82.26	To true point for 134th mile, cor. level with closing cor.
	Land, E. portion sandy lower bench, and rocky mesa's E. slope, and upper rocky mesa. General drainage to the W. and NE.
	Soil, on mesa, rocky, sandy clay on sandstone bedrock, on lower bench, light, dry sandy loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, sagebrush and grass. Fair grazing.

	E. retracing the 136th mile.
80.07	Intersect the 136th mile post, which is an iron post, 2 ins. dia., 3 ft. above ground, firmly set, mkd. and witnessed as described by the surveyor-general.
	Thence,
	West, on true line.
	Over rolling sandy bench land, through scattered mountain rush, shadscale, oose-root, greasewood, sagebrush and grass undergrowth.
12.88	Point midway between the closing corner of secs. 8 and 9, and 9 and 10, level with cor.,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of sec. 9, with brass cap

Chains	
	mkd.,
	¼ S 9 / 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Continue over rolling sandy bench land.
52.90	The closing cor. of secs. 8 and 9, level with ¼ cor.
70.80	Ravine, 20 ft. below closing cor., course NE. Asc. gradually.
80.07	The cor. for the 135 mile, 20 ft. above ravine. From this cor. a lone, sandstone butte, 370 ft. high, bears SW. about 10.00 chs. dist. Butte is about round and 8.00 chs. in dia., at base sloping up to a pointed top.
	Land, rolling sandy bench draining generally to the NE.
	Soil, light, dry, sandy loam, with some sandstone outcrops. Subsoil sandy loam.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, sagebrush and grass. Fair grazing.

	E., retracing the 137th mile.
80.00	Fall 24 lks. S. of the 137th mile post, which is an iron post, 3 ft. above ground, firmly set., mkd. and witnessed as described by the surveyor-general. Post is 2 ins. dia.
	Thence,
	S. 89° 50' W., on true line.
	Over rolling sandy bench land through scattered mountain rush, shadscale, oose-root, greasewood, sagebrush and grass undergrowth. Desc. gradually.
12.88	Point midway between the closing cor. of secs. 9 and 10 and the closing cor. of secs. 10 and 11, 10 ft. below cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of sec. 10, with brass cap mkd.,
	¼ S 10 / 1917

Chains	
	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Desc. gradually.
52.86	The closing cor. of secs. 9 and 10, 10 ft. below ¼ cor.
	Desc. gradual NW. slope.
80.00	The 136th mile post, 20 ft. below closing cor.
	Land, rolling sandy bench, general drainage to NW.
	Soil, light, dry, sandy loam, subsoil same.
	Timberm none.
	Undergrowth, scattered mountain rush, shadscale, oose-root, greasewood, sagebrush and grass. Fair grazing.

E. retracing the 138th mile.

72.90	Fell 14 lks. S. of the 138th mile post, which is an iron post, 3 ft. above ground, 2 ins. dia., firmly set, mkd. and witnessed as described by the surveyor-general.
	Thence,
	S. 89° 54' W., on true line.
	Over rolling sandy bench land, through scattered mountain rush, rabbit-brush, greasewood, oose-root, shadscale and grass, undergrowth.
12.76½	Point midway between the closing cor. of secs. 10 and 11, and the closing cor. of secs. 11 and 12, level with cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of sec. 11, with brass cap mkd.,

¼ S 11

1917

	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Thence over nearly level sandy bench land.
52.80	The closing cor. of secs. 10 and 11, level with ¼ cor.
60.00	Asc. gradually over E. slope.
64.00	Top of ascent, 40 ft. above closing cor., thence over rolling bench land.

Retracement of the Utah-Arizona State Bdy. and the Establishme nt of ¼ corners. on S. bdy. of T. 44 S., R. 3 E.

Chains.	
79.90	The 137th mile post, 40 ft. above closing cor.
	Land, rolling sandy bench land, draining to the E. and NE.
	Soil, light, dry, sandy loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, rabbit-brush, oose-root, greasewood, shadscale and grass. Fair grazing.
	E. retracing the 139th mile.
80.26	Intersect the 139th mile post, which is a sandstone, 30 x 24 x 3 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor-general.
	Thence,
	West, on true line.
	Over rolling sandy bench land, through scattered mountain rush, shadscale, oose-root, greasewood and sagebrush and grass undergrowth.
12.92½	Point midway between the closing cor. of secs. 11 and 12, and the closing cor. of T. 44 S., R. 3 and 4 E., 10 ft. below cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins in the ground, for the ¼ cor. of secs. 12, with brass cap mkd., ¼ S 12 / 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Thence desc. gradual W. slope.
31.90	Bottom of box gulch, 70 ft. deep and 4.00 chs. wide, 90 ft. below ¼ cor., course NE.
52.99	The closing cor. of secs. 11 and 12, 80 ft. above gulch.
80.26	The 138th mile post, level with closing cor.
	Land, rolling sandy, clay bench land, general drainage NE.
	Soil, dry, sandy, clay loam, subsoil sane. Sandstone ledges along gulch.

Chains	
	Timber, none.
	Undergroath, scattered mountain rush, shadscale, oose-root, greasewood, sagebrush and grass. Fair grazing.

	E. retracing the 140th mile.
80.05	Intersect the 140th mile post, which is a sandstone 15 x 10 x 8 ins. above ground, firmly set., mkd. and witnessed as described by the surveyor general.
	Thence,
	West, on true line,
	Over rolling sandy, clay bench land through scattered shadscale, oose-root, greasewood, sagebrush and grass undergrowth.
20.00	Dry gulch, 30 ft. below cor., course NE. Asc. gradually.
22.50	Ridge, 30 ft. above gulch, bears N. and S. Desc. gradually.
34.50	Box gulch, 40 ft. below ridge, course N. Asc. gradually.
52.91	The closing cor. of T. 44 S., R 3 and 4 E. level with rim of gulch. Desc. gradually.
80.05	The 139th mile post, 20 ft. below closing cor.
	Land, rolling sandy clay bench, draining N. and NE.
	Soil, light, dry, sandy clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, oose-root, greasewood, sagebrush and grass. Fair grazing.

T. 44 S., R. 3 E.

Latitudes, Departures and Closing Errors.

Line Designated.	Course	Dist. Chs.	Latitudes N.Chs.	Latitudes S.Chs.	Departures E.Chs.	Departures W.Chs.
North Boundary	East	480.00	.....	.....	480.00	.....
East boundary	South	100,02	.....	100.02	.....	.....
South Boundary	West	27.14	.....	.....	.....	27.14
" "	West	80.26	.....	.....	.....	80.26
" "	S.89°54'W	79.30	.....	.14	.....	79.30
" "	S.89°50'W	80.00	.....	.23	.....	80.00
" "	West	80.07	.....	.....	.....	80.07
" "	West	79.69	.....	.....	.....	79.69
" "	S.89°43'W	53.16	.....	.17	.....	53.16
West Boundary	North	100.73	100.73	.....	.....	.....
Convergency					.11	
Totals			100.73	100.56	480.11	480.22
			100.56			480.11
Error in lat.	.....	.....	0.23			
Error in dep.	.....	.....				0.11

General Description of T. 44 S., R. 3 E.

The land embraced in the area of this township is generally rolling sand plain, except in the southwest part of the township where there is a rocky mesa, breaking to the sandy plains below with vertical sandstone walls, about 400ft. high. This broken mesa is inaccessible except in a few places where it may be reached by making use of cracks in the side of the cliffs. At several places in this part of the township there are sandstone buttes which stand out alone from the sand plains to a height of 400 ft., and are inaccessible. The drainage is generally NE. into Wahweap creek which drains SE. and cuts through the NE. corner of the township.

The soil on the sandy plains is a light, dry, sandy loam, being mostly sand except toward the East part of the township where it is mixed with some clay. The subsoil is of about the same composition being mixed slightly with gravel in some places. There are red sandstone ledges

along the sides of Wahweap canyon and sand, gravel and sandstone along the creek bottom. Also some sandstone along the ravines and gulches. The soil on the upper mesa is very shallow, rocky, sandy loam, on sandstone bedrock only a few inches below the surface of the ground.

Scattered growths of mountain rush, shadscale, rabbitbrush, ooze-root, greasewood, sagebrush and scanty grass occur throughout the township affording a fair rate of grazing for stock. There is no timber on the township.

There are a few small pools of water in the sandstone alc some of the ravines, which is of a good quality but depends on rainfall to fill them up and cannot be depended upon. The small stream of water in Wahweap creek carries a large percentage of gypsum, alkali and magnesia and is good only for stock.

No settlers were found in the township and no improvements were encountered.

Locations of Water in T. 44 S., R. 3 E.

Sec. 7, small pools in the sandstone along ravine.

E. ½ sec. 8, "" " " " " "

E. ½ sec. 1, small stream in Wahweap creek.

4—GSO

BOOK A-434

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—2761

CERTIFICATE

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

I, Lyman E. Bolinger, 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 first 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~~ retraced all those parts or portions of the Utah-Arizona State Boundary, and surveyed the East boundary, the West boundary, south boundary and subdivision of T. 44 S., R. 3 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 certify on honor ~~solemnly swear~~ 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.

Lyman E. Bolinger
U. S. ~~Surveyor~~ Transitman.

Dated Feb. 28, 1918

~~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, Nov. 26, 1918.

The foregoing field notes of the ~~survey of~~ retracement of the Utah-Arizona State boundary from the 133d to the 140th mile posts, and the survey of the east and west boundaries and subdivision of fractional Township No. 44 South, Range No. 3 East of the Salt Lake Base and Meridian, Utah,

executed by Lyman E. Bolinger

under ~~his~~ special instructions dated February 1, 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.

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.

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Page

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Page

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BOOK A-434

C.

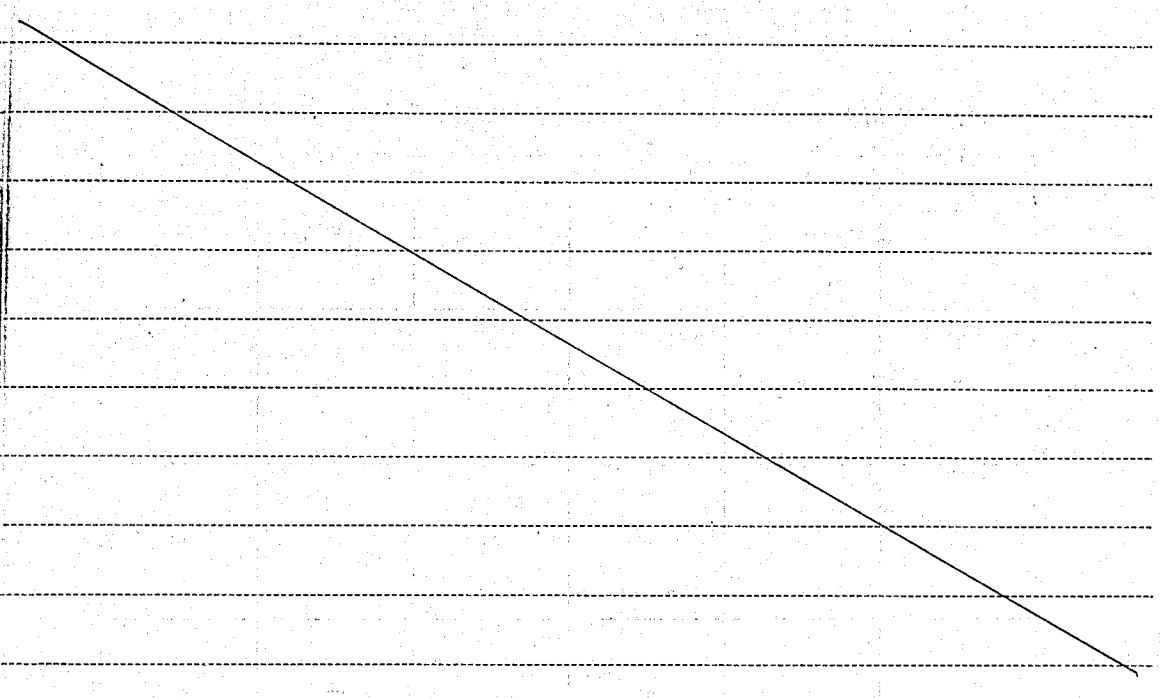
U. S. Surveyor General's Office
MAR 28 1918
SALT LAKE CITY, UTAH.

FIELD NOTES

OF THE SURVEY OF THE

EAST AND NORTH BOUNDARIES AND THE

SUBDIVISION OF T. 42 S., R. 3 E.



Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Thos. C. Rathbone, U. S. Surveyor.

and

Lyman E. Bolinger, U. S. Transitman.

and Transitman

In the capacity of U. S. Surveyor, under instructions dated February 1, *1916, issued by the United States Surveyor General to govern surveys included in Group No.* 151, *which were approved by the Commissioner of the General Land Office,* April 4, *1916* and assignment instructions dated Oct. 1, 1917, issued by the Assistant Supervisor of Surveys for Utah.

Survey commenced November 6, *1917*

Survey completed December, 5, *1917*

6—151

Descriptions Received

Plat F.B.J. Notes K.F.B.

Computations F.B.J.

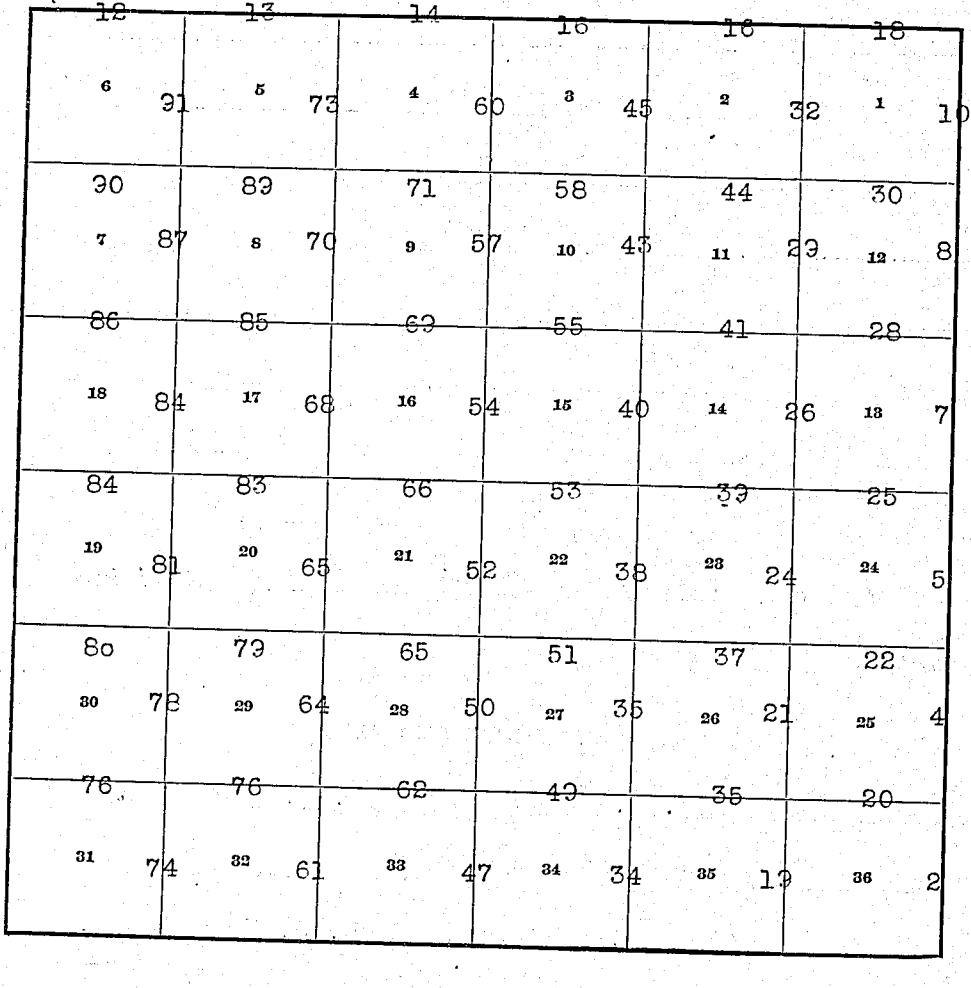
Comparing

Plat V.I.F. Notes K.F.B.

BOOK A-434

INDEX DIAGRAM.

Township 42 SOUTH *Range* 3 EAST.



Names and Duties of Assistants.

C—151

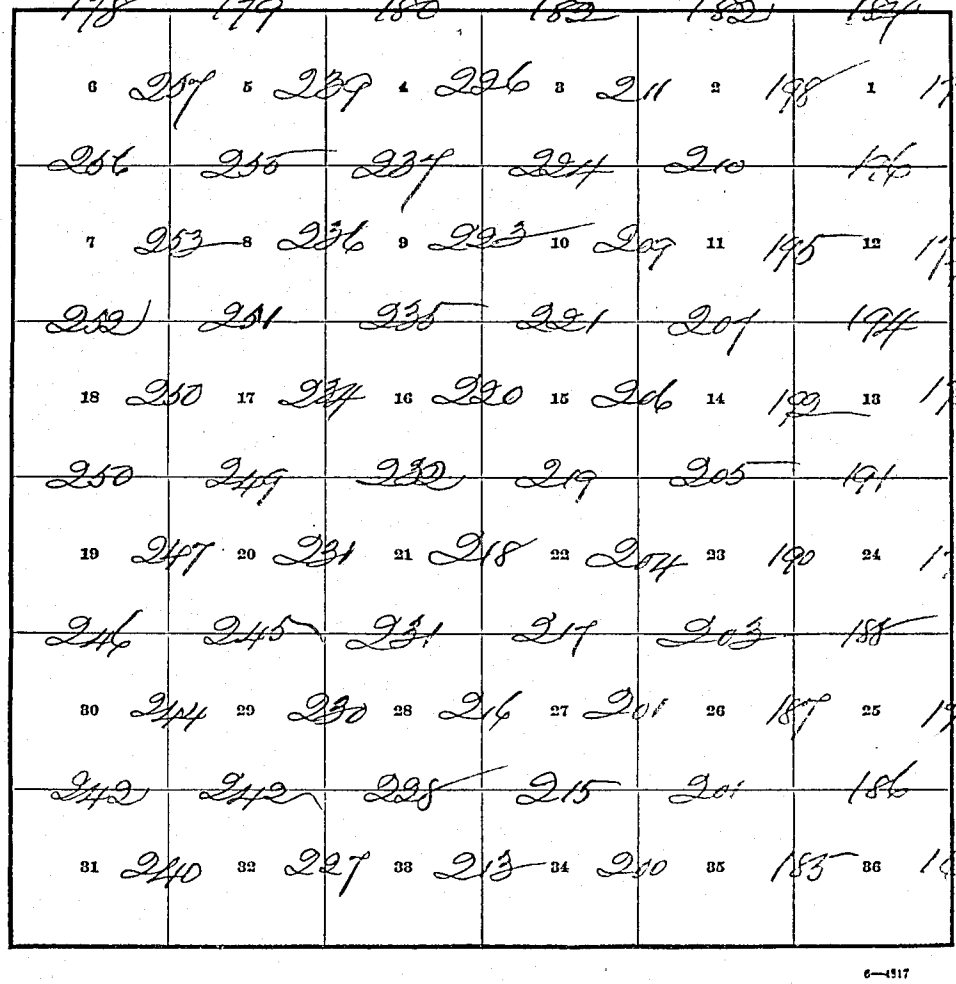
Melvin Lewis,	first assistant.
Ira Mace,	" "
David Gustavson,	second "
Pharo Phelps,	" "
Donald Kimball,	flagman.
Barnie Isenhouer,	"
Verden John,	cornerman.
Frank Johnson,	"

BOOK A-434

4—679 b

INDEX DIAGRAM.

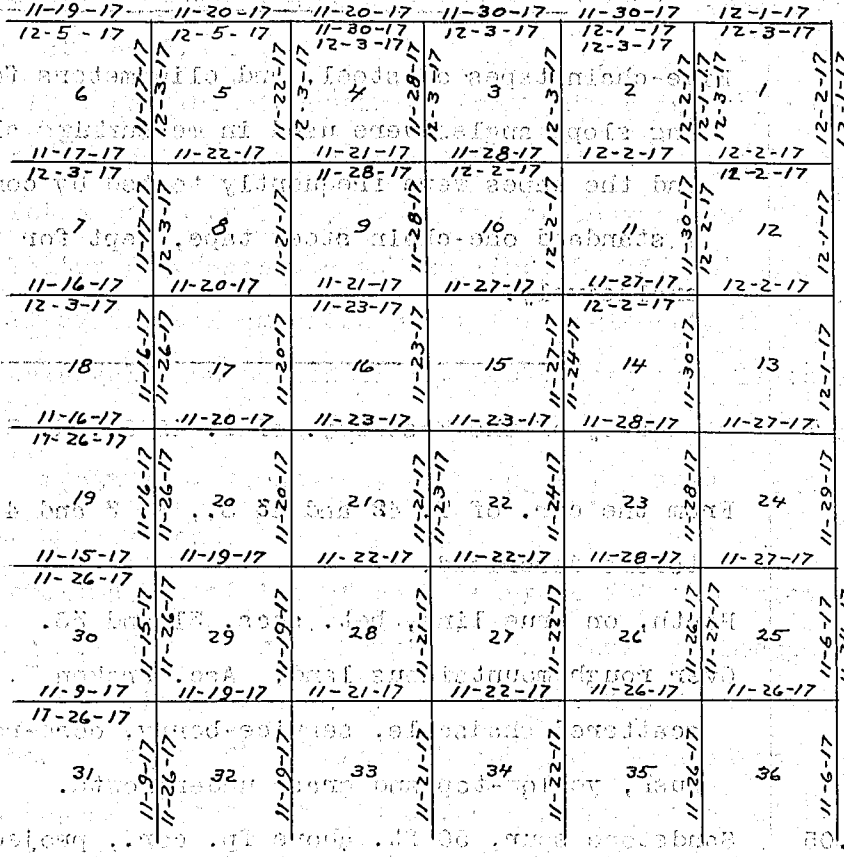
Township 42 S, Range 3 E



6—4517

Survey of the East Bdy. of T. 42 S., R. 3 E.

DATE DIAGRAM.



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

_ _ _ _ Lines along which dates are colored red were surveyed by Lyman E. Bolinger, U.S.Transitman.

Survey commenced Nov. 6, 1917, and executed with W. and L. E. Gurley light mountain transit No. 20, memo D, with Burt solar attachment and Young and Sons light mountain transit No. 8584, with Smith solar attachment. For complete description of instruments and tests of same see the field notes of T. 43 S., R. 3 E., Utah.

The instruments were approved for use on this survey by the Assistant Supervisor of Surveys for Utah, Oct. 1, 1917, conditional upon satisfactory field test.

That the instruments remained in good adjustment throughout the survey was evidenced by frequent tests on a Polaris

Chains

meridian and by daily noon observations for latitude.

Five-chain tapes of steel, and clinometers for determining slope angles were used in measuring all distances and the tapes were frequently tested by comparison with a standard one-chain steel tape, kept for this purpose exclusively.

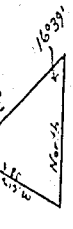
Survey of the East Bdy. of T. 42 S., R. 3 E.

From the cor. of T. 42 and 43 S., R. 3 and 4 E., heretofore described.

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

Over rough mountainous land, Asc. broken W. slope through scattered shadscale, service-berry, oose-root, mountain rush, yellow-top and grass undergrowth.

9.05 Sandstone spur, 50 ft. above Tp, cor., projects SW. It is impossible to chain farther N., therefore, on account of sandstone ledges, triangulate as follows, set a flag on line, N. at top of spur, and then from the 9.05 chs. point, measure a base line, N. 42° 15' W. 13.80 chs. from which point the angle bet. the two triangulation points is 121° 06', the dist. is then,



log.13.80 + log.sin. 121° 06' + colog.sin. 16° 39' =
1.139879 + 9.932609 + 0.542838 = 1.615326 = antilog.
= 41.24 chs.

30.00 Approximate bottom of ravine, 180 ft. below spur, course SW. Asc. abruptly over sandstone ledges.

40.00 Point is inaccessible, falls on sandstone ledges, bear NE. and SW. Asc.

50.29 Triangulation point at top of high spur, 650 ft. above ravine, projects SW. At this point,

Set a sandstone, 18 x 10 x 5 ins., on bare sandstone bedrock, 14 ins. in a mound of stone, 3 ft. base, for the ¼ W. C. of secs. 31 and 36, mkd., W.C ¼ on W. face.

Chains

No iron post was available for this cor.

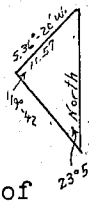
Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.

It is impossible to chain N. from this point, therefore, on account of sandstone ledges, triangulate as follows, set a point on line, N. at top of ledges, and from the latter point measure a base line, S. 36° 20' W., a dist. of 11.57 chs., from which point the angle bet. the N. and S. triangulation points is 119° 42', the dist. is then,

log. 11.57 + log.sin. 119° 42' + colog.sin. 23° 58' =

1.063333 + 9.938836 + 0.391255 = 1.393434 = antilog.

= 24.74 chs.



65.00 Approximate position of rocky canyon, 230 ft. below spur, course SW . Asc. abruptly over sandstone ledges,

75.03 Triangulation point at top of ledges, 310 ft. above canyon, bear NW. and SE. Asc. abruptly over sandstone ledges.

80.00 On top of ledges, 100 ft. above triangulation point, Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone bedrock, 24 ins. in a mound of stone, 5 ft. base, for the cor. of secs. 25, 30, 31 and 36, with brass cap mkd.,

T 42 S
R 3 E | R 4 E

S 25 | S 30

S 36 | S 31

1917

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

Land, rough mountainous, with sandstone ledges throughout mile, general drainage to the SW.

Soil, shallow sandy, clay on sandstone bedrock.

Timber, none.

Undergrowth, scattered shadscale, service-berry, oose-root, mountain rush, yellow-top and grass. Too rough for grazing.

Chains	
	North, on true line, bet. secs. 25 and 30.
	Over rough mountainous land, asc. over sandstone ledges through scattered shadscale, service-berry, oose-root, mountain rush, yellow-top and grass undergrowth.
14.10	Top of ledges and rim of high mesa, 230 ft. above sec. cor., bears N. 70° E. and S. 70° W. Thence over rolling mesa top.
27.20	Desc. gradually.
33.58	On high mesa, 220 ft. above sec. cor.,
	Set an iron post, 3 ft. long, 1 in. dia., on sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the W. C. to the ¼ cor. of secs. 25 and 30, with brass cap mkd.,
	W C ¼ S. 25 | S 30. 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W.C.
	It is impossible to chain N. from W. C., on account of steep sandstone ledges, therefore triangulate as follows, set a point on line, N. and as it is impossible to get a base line at the 33.58 chs. point, run the following traverse, on account of ledges, from the 33.58 chs. point, S. 85° 30' W., 6.30 chs. dist., thence, west, 13.07 chs. dist., thence, N. 52° E., to a point which is 13.68 chs. W. and 3.94 chs. N. of the 33.58 chs. point. From this traverse point observe that the point on line N. bears N. 30° 30' E. The dist. is then,
	3.94 +(13.68 x cotan. 30° 30' or 1.69766) = 37.35
33.70	Rim of mesa, level with sec. cor., bears E. and W., desc. abruptly over sandstone ledges.
40.00	Point falls on sandstone ledges, where it is inaccessible.
70.33	Triangulation point on rocky spur, 300 ft. below ¼ W.C., projects NE. Desc. abruptly over clay and sandstone

Chains	
	steep ledges.
80.00	On rocky W. clay slope, 200 ft. below spur,
	Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the cor. of secs. 19, 24, 25 and 30, with brass cap mkd.,

T 42 S
R 3 E | R 4 E
S 24 | S 19
S 25 | S 30
1917

	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land , S. portion, rolling and broken mountainous land, N. portioh very rough, rugged sandstone ledges and clay steep slopes, general drainage to the SW.
	Soil, mostly rocks and clay, on sandstone bedrock, shallow sandy clay loam on high mesa, on sandstone bedrock,
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, service-berry, oose-root, yellow-top and grass. Good grazing on mesa, balance too rough.
	North, on true line, bet. secs. 19 and 24.
	Over rough mountainous land, desc. abruptly over sandstone and clay steep slope through scattered shadscale, yellow-top and grass undergrowth.
8.00	Wash, 50 ft. below sec. cor., 15 lks. wide, 2 ft. deep, drains NE. Asc. gradually.
10.40	Desc. abruptly over rocky, clay steep N. slope.
36.80	Wash, in main canyon, 350 ft. below sec. cor., 20 lks. wide, 3 ft. deep, drains E. to Warm creek.
39.10	Trail, bears E. and W.
40.00	On small clay flat, on N. side of wash, 10 ft. above wash. Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the

Chains

ground to bedrock, 18 ins. in a mound of stone, 3 ft. base, for the ¼ cor. of secs. 19 and 24, with brass cap mkd., ¼

S 24 | S 19

1917

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

It is impossible to chain N. from the ¼ cor., therefore triangulate as follows, set a point on line, N., then measure a base line, W. from the ¼ cor. a dist. of 17.49 chs., from the point online, N. the west end of base line, bears S. 30° 05' W. The dist. is then,

17.49 x cotan. 30° 05' or 1.72625 = 30.19 chs.

70.19 Top of ledges and top of sandstone spur, 660 ft. above ¼ cor., projects E. Triangulation point. Thence over rocky broken top of spur.

72.20 Desc. abruptly over sandstone ledges, along steep N. slope of spur.

80.00 On steep N. slope of spur, 280 ft. below top,

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

T 42 S
R 3 E | R 4 E

S 13 | S 18

S 24 | S 19

1917

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

Land, rough mountainous, general drainage to the E.

Soil, shallow, sandy clay, on sandstone bedrock.

Timber, none.

Undergrowth, scattered shadscale, yellow-top and grass.

Fair grazing.

Chains	
	North, on true line, bet. secs. 13 and 18.
	Over rough mountainous land, desc. abruptly over sandstone ledges, through scattered mountain rush, yellow-top, shadscale and grass undergrowth.
19.10	S. rim of Warm creek, bears S. 70° E. and N. 70° W. Desc. abruptly over sandstone and clay ledges.
26.20	Warm creek, dry, 300 ft. below sec. cor., 60 ft. wide, 6 ft. deep, course S. 70° E. Asc. gradually.
33.30	Asc. more abruptly.
37.00	Thence over small bench, bears with creek. Asc. gradually.
40.00	On narrow bench, 60 ft. above creek,
	Set an iron post, 3 ft. long, 1 in. dia., on sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the $\frac{1}{4}$ cor. of secs. 13 and 18, with brass cap mkd.,
	$\frac{1}{4}$ S 13 | S 18 1917
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of the cor.
	It is impracticable to chain N. from the $\frac{1}{4}$ cor., on account of steep sandstone ledges and slide rock, therefore triangulate as follows, measure a base line, W. a dist. of 20.00 chs. and set a point on line, N. from which point the W. end of base, bears S. 30° 59' W. The dist. is then,
	20.00 x cotan. 30° 59' or 1.66538 = 33.31 chs.
73.31	Triangulation point at top of rocky spur, 530 ft. above $\frac{1}{4}$ cor., projects SW. At this point,
	Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the W. C. to the cor. of secs. 7, 12, 13 and 18, with brass cap mkd.,
	W C T 42 S. R 3 E. R 4 E S 12 | S 7 S 13 | S 18 1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
80.00	Falls on inaccessible sandstone and burned rock, on steep N. slope. Rock have appearance of having been burned.
	Land, rough mountainous, general drainage to the SW. and E.
	Soil, mostly rock, except in Warm creek canyon, sandy, clay, on sandstone and clay subsoil.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, yellow-top and grass. Good grazing in Warm canyon.

North, on true line, bet. secs. 7 and 12, from the W.C. Over rough mountainous land, desc. abruptly, over steep rocky N. slope, through scattered shadscale undergrowth. It is impracticable to chain N. from the W.C., therefore triangulate as follows, from a point 10 lks. N. of the W.C. or 6.59 chs. S. of the true cor. point, measure a base line, N. 34° 44' E., a dist. of 15.18 chs., also set a flag on line, N. Observe that the angle between the N. and S. triangulation points is 97° 38'. The distance is then,

log. 15.18 + log.sin. 97° 38' + colog.sin. 47° 38' = 1.181272 + 9.996134 + 0.131445 = 1.308851 = antilog. = 20.36 chs.

10.00	Approximate bottom of rocky ravine, 240 ft. below W.C., course W. Asc. abruptly over burned sandstone ledges.
13.77	Triangulation point and top of rocky spur, 320 ft. above ravine, projects W. Desc. abruptly over rocky N. slope.
15.40	Rocky canyon, 90 ft. below spur, course W. Asc. abruptly.
24.70	Rocky spur, 50 ft. above canyon, projects W. Desc. abruptly, over rocky N. slope.
38.20	Wash, in box canyon, 310 ft. below spur, 6 lks. wide, 2 ft. deep, drains W. Asc. abruptly.
40.00	Inaccessible, falls on ledges, along steep S. slope of can-

Chains	
	yon.
42.43	On N. rim of box canyon, 150 ft. above wash, Set an iron post, 3 ft. long, 1 in. dia., 4 ins. in the ground to bedrock, 22 ins. in a mound of stone, 4 ft. base, for the W.C. to the $\frac{1}{4}$ cor. of secs. 7 and 12, with brass cap mkd., $\frac{1}{4}$ S 12 | S 7 W C. 1917 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of the cor.
	Asc. abruptly from $\frac{1}{4}$ W. C.
57.30	Rocky spur, 340 ft. above $\frac{1}{4}$ W. C., projects SW. Desc. abruptly over sandstone ledges.
65.10	Rocky wash, in box canyon, 300 ft. below spur, 30 lks. wide, 4 ft. deep, drains W. Asc. abruptly over loose slide rock.
80.00	On rocky SW. slope of spur, 280 ft. above wash, Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in the ground to bedrock, 16 ins. in a mound of stone, 3 ft. base, for the cor. of secs. 1, 6, 7 and 12, with brass cap mkd., T 42 S R 3 E | R 4 E. S 1 | S 6 S 12 | S 7 1917 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of the cor.
	Land, very rough mountainous land, with sandstone ledges and burned sandstone slide rock throughout mile. General drainage to the W.
	Soil, very shallow, sandy clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale. No grazing.

Chains	
	North, on true line, bet. secs. 1 and 6.
	Over rough mountainous land, asc. abruptly through scattered shadscale, mountain rush, yellow-top and grass undergrowth.
3.80	Rocky spur, 40 ft. above sec. cor., projects NW. Desc. abruptly over steep rocky NE. slope.
12.70	Rocky box canyon, 470 ft. below spur, course W. Asc.
17.70	Rocky spur, 130 ft. above canyon, projects W. Desc. abruptly over steep rocky N. slope.
34.30	Rocky box canyon, 400 ft. below spur, course SW. Asc. abruptly over steep rocky S. slope.
40.00	On sharp rocky spur, projects W., 220 ft. above canyon, Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the $\frac{1}{4}$ cor., of secs. 1 and 6, with brass cap mkd., $\frac{1}{4}$ / S 1 | S 6 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the $\frac{1}{4}$ cor.
	Thence desc. abruptly over steep, rocky N. slope.
49.20	Rocky canyon, 310 ft. below $\frac{1}{4}$ cor., course W. Asc. abruptly over steep, sandstone ledges and slide rock.
58.50	Rocky spur, 180 ft. above canyon, projects W. Desc. abruptly.
63.20	Rocky ravine, 70 ft. below spur, course W. Asc. abruptly over steep sandstone ledges and slide rock.
74.90	Main spur, 360 ft. above ravine, projects W. Desc. over rocky N. slope.
84.00	Set temp. Tp. cor. Later moved 56 lks. N. and on rocky spur, projecting N. 70° W., 80 ft. below spur,
84.56	Set an iron post, 3 ft. long, 3 ins. dia., 8 ins. in the ground to bedrock, 16 ins. in a mound of stone, 4 ft. base, for the cor. of T. 41 and 42 S., R. 3 and 4 E., with brass cap mkd.,

Chains	
	T 41 S R 3 E R 4 E S 36 | S 31 S 1 | S 6 T 42 S 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, south of the cor.
	Land, rough mountainous, general drainage to the W.
	Soil, very shallow sandy, rocky clay on sandstone bedrock, mostly sandstone on surface.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, yellow-top and grass. No grazing, too rough.
	From the temp. Tp. cor. of T. 41 and 42 S., R. 3 and 4 E., West, on random line, setting temp. points every 40.00 chs.
78.33	Line passes over sandstone ledges, over which it is impracticable to chain, therefore tri angulate as follows, set a point on line W. at top of ledges, and also measure a base line from the 78.33 chs. point, N. a distance of 20.00 chs., from which point the point W. bears S. 61° 05' W., the dist. is then,
	20.00 x tan. 61° 05' or 1.81025 = 36.21 chs.
114.54	Triangulation point.
304.73	Line passes over ledges impracticable to chain, therefore triangulate as follows, set flag at this point and then set a point on line W., and from the latter point measure a base line, S. a dist. of 17.30 chs., from which point the flag E. on line bears N. 41° 15' E. The dist. is then,
	17.30 x tan. 41° 15' or .87698 = 15.17 chs.
319.90	Triangulation point.
478.90	Intersect the W. bdy. of the TP. 56 lks. S. of the cor. of T. 41 and 42 S., R. 2 and 3 E., heretofore described.
	Thence,

Chains	
	From the cor. of T. 41 and 42 S., R. 2 and 3 E.,
	East, on true line, bet. secs. 6 and 31.
	Over broken mesa land, desc. gradually through scattered rabbit-brush, yellow-top, oose-root, shadscale, mountain rush, sagebrush, service-berry and grass undergrowth.
14.00	Wash, 50 ft. below Tp. cor., 20 lks. wide, 3 ft. deep, drains N. Asc. gradually over mesa land.
34.10	W. rim of box canyon, 20 ft. above wash, bears N. and S. Desc. over sandstone ledges.
38.10	Wash in bottom of canyon, 50 ft. below mesa, 20 lks. wide, 2 ft. deep, drains N. Asc. over sandstone ledges.
38.90	On west slope, 20 ft. above wash,
	Set an iron post, 3 ft. long, 1 in. dia., 4 ins. in the ground to bedrock, 22 ins. in a mound of stone, 3½ ft. base, for the ¼ cor. of secs. 6 and 31, with brass cap mkd.,
	¼ S 31 / S 6 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Asc. over sandstone ledges.
41.10	E. rim of canyon, 30 ft. above ¼ cor., bears N. and S. Thence over broken mesa land.
45.90	W. rim of ravine, bears N. and S. Desc. into ravine.
47.80	Wash in bottom of ravine, 20 ft. below mesa, 10 lks. wide, 2 ft. deep, drains N.
50.90	Wash, level with wash, 5 lks. wide, 1 ft. deep, drains NW. Asc.
53.40	E. rim of ravine, 20 ft. above wash, bears N. and S. Thence over rolling mesa land.
78.90	On table land, 20 ft. above wash,
	Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3 ft. base, for the cor. of secs. 5, 6, 31 and 32, with brass cap mkd.,

Chains	
	T. 41 S. R. 3 E. S 31 | S 32 S 6 | S 5 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, broken mesa, general drainage to the N.
	Soil, shallow sandy, rocky, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered rabbit-brush, yellow-top, oose-root, shadscale, mountain rush, sagebrush, service-berry and grass. Good grazing.
	East, on true line, bet. secs. 5 and 32.
	Over rolling mesa land, through scattered oose-root, yellow-top, service-berry, rabbit-brush, greasewood and grass undergrowth.
13.70	Spring of good clear water bears N. about ¼ mile dist.
	Small stream of water, 3 lks. wide, 2 ins. deep. Course SE.
18.70	Desc. over point of ledges, bears NW. and SW.
20.00	Base of ledges, 20 ft. below top, bears same as top, thence over rolling mesa land;
23.50	Trail leading N. thence NW. to spring, known as Tibbet spring.
27.30	Main trail to Tibbet spring, bears NW. and SE.
40.00	At head of box canyon, draining N. to Tibbet canyon, on mesa,
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 5 and 32, with brass cap mkd., ¼ S 32 S 5 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.

Chains	
58.50	Leave mesa land, desc. over sandstone ledges, bear NW. and SE., into box canyon.
63.60	Wash in box canyon, 180 ft. below mesa, 30 lks. wide, 3 ft. deep, course N. into Tibbet canyon, Asc. abruptly over gray sandstone ledges.
72.70	Point of sandstone spur, 110 ft. above wash, projects N. Desc. over sandstone ledges.
79.80	Plumb pin off of sandstone ledges, 50 ft. high, bears NW. and SE. Desc. abruptly into Tibbet canyon.
80.00	On steep rocky E. slope of Tibbet canyon, 70 ft. below spur.

Set an iron post, 3 ft. long, 2 ins. dia, 6 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3 ft. base; for the cor. of secs. 4, 5, 32 and 33, with brass cap mkd.,

T 41 S R 3 E

S 32	S 33
S 5	S 4

T 42 S

1917

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

Land, broken mesa, cut by box canyons draining to the N. and SE.

Soil, shallow, sandy, and rocky, on sandstone bedrock.

Timber, none.

Undergrowth, scattered oose-root, yellow-top, service-berry, rabbit-brush, greasewood and grass. Good grazing.

East, on true line, bet. secs. 4 and 33,

Over rough muntainous land, desc. abruptly over sandstone ledges, through scattered sagebrush, service-berry, mountain rush, oose-root, shadscale, yellow-top and grass undergrowth.

6.60	Wash in bottom of Tibbet canyon, 170 ft. below sec. cor.,

Chains	
	25 lks. wide, .4 ft. deep, drains S. Asc. abruptly over sandstone ledges over which it is impracticable chain, therefore return to
.10	Triangulation point.
15.27	Triangulation point, on E. rim of canyon, 170 ft. above creek, bears N. and S. Thence over rocky, broken mesa land.
40.00	On rocky mesa, level with triangulation point. Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the $\frac{1}{4}$ cor. of secs. 4 and 33, with brass cap mkd., $\frac{1}{4}$ S 33 / S 4 1917. Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Continue over rolling mesa, with sandstone outcroppings.
80.00	On rolling mesa, level with $\frac{1}{4}$ cor., Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 33, 34, 3 and 4, with brass cap mkd., T 41 S R 3 E / S 33 | S 34 / S 4 | S 3 / T 42 S 1917. Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the sec. cor.
	Land, W. portion, rough mountainous, E. portion rolling and broken sandstone mesa, general drainage to the S. Soil shallow, sandy, rocky, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered, sagebrush, service-berry, mountain rush, goose-root, shadscale, yellow-top and grass. Good grazing.

Chains

East, on true line, bet. secs. 34 and 35.

Over rolling sandy bench or mesa land, through scattered mountain rush, shadscale, rabbit-brush, greasewood, yellow-top and grass undergrowth.

40.00 On rolling sandy mesa, level with sec. cor.,

Set an iron post, 3 ft. long, 1 ins. dia., 26 ins. in the ground for the ¼ cor. of secs. 3 and 34, with brass cap mkd.,

¼
S 34
S 3
1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.

Continue over rolling mesa land.

80.00 On rolling mesa, 10 ft. above ¼ cor.,

Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground to bedrock, 12 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 34, 35, 2 and 3, with brass cap mkd.,

T 41 S R 3 E
S 34 | S 35
S 3 | S 2
T 42 S
1917

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

Land, rolling mesa, draining to the S.

Soil, shallow sandy, with sandstone outcroppings, on sandstone bedrock.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, rabbit-brush, greasewood, yellow-top and grass. Good grazing.

East, on true line, bet. secs. 2 and 35.

Over rolling mesa land, through scattered mountain rush, shadscale, rabbit-brush, greasewood, yellow-top and grass undergrowth.

Chains	
40.00	On rolling mesa, 20 ft. above sec. cor., Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 2 and 35, with brass cap mkd., ¼ S 35 / S. 2 / 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Continue over rolling mesa.
41.50	Edge of mesa and rim of Warm Creek canyon, level with ¼ cor., bears NW. and SE. Desc. abruptly over sandstone ledges.
45.46	It is impracticable to chain farther E. on account of the sandstone ledges, becoming too high. Triangulation point. Desc. abruptly over series of high sandstone ledges, bear NW. and SE.
80.00	On spur, 880 ft. below mesa, projects NW., Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 1, 2, 35 and 36, with brass cap mkd., T 41 S R 3 E / S 35 | S 36 / S 2 | S 1 / T 42 S / 1917 Raise a mund of stone, 2 ft. base, 1½ ft. high, west of the sec. cor.
	Land, W. portion rolling mesa, general drainage to the S. and NW.
	Soil, shallow sandy, with sandstone outcroppings, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, rabbitbrush, greasewood, yellow-top and grass. Good grazing on mesa, balance too rough.

Chains	
	East, on true line, bet. secs. 1 and 36.
	Over rough mountainous land, desc. into Warm creek, through scattered mountain rush, greasewood, shadscale, rabbit-brush and grass undergrowth.
1.67	Triangulation point.
12.50	Warm creek, dry, 130 ft. below sec. cor., course SE.
17.00	Mouth of small canyon, level with Warm creek, course from NE. to SW. into Warm creek. Asc. over sandstone ledges.
24.20	Sandstone spur, 80 ft. above canyon, projects S. about 10.00 chs. dist. to Warm creek. Desc. abruptly over sandstone ledges.
31.60	Warm creek, course NE. 80 ft. below spur. Asc. gradually.
35.00	Sandy spur, 30 ft. above creek, projects N. about 10.00 chs. dist. to Warm creek. Desc.
40.00	On E. slope, 20 ft. below spur, Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the $\frac{1}{4}$ cor. of secs. 1 and 36, with brass cap mkd., $\frac{1}{4}$ S 36 / S 1 / 1917. Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the $\frac{1}{4}$ cor.
	Desc. into Warm creek, over sandstone ledge.
41.00	Warm creek, 10 ft. below $\frac{1}{4}$ cor., course S. Asc. over sandstone ledges.
49.10	Sandstone spur, 220 ft. above creek, projects SW. Desc. abruptly over sandstone and shale ledges.
59.00	Rocky box canyon, 100 ft. below spur, course SW. Asc. abruptly over steep high sandstone and shale ledges.
77.60	Top of high ledges, 510 ft. above canyon, bear NE. and SW. Asc.
80.00	The cor. of T. 41 and 42 S., R. 3 and 4 E., 560 ft. above canyon; see page 10 of these notes for description of Tp. cor. Intersect the East bdy. of Tp. 56 lks. N. of the temporary Tp. cor.

Chains	
	Land, rough mountainous, with sandstone and shale ledges, general drainage to the S. and SW.
	Soil, very shallow sandy rocky clay, on sandstone and shale bedrock, mostly bare sandstone and shale.
	Timber, none.
	Undergrowth, scattered mountain rush, greasewood, shadscale, rabbit-brush and grass. Too rough for grazing except in W arm canyon, where the grazing is fair.

SUBDIVISION OF T. 42 S., R. 3 E.

	From the true cor: point for the cor: of secs. 35, 36, 1 and 2, heretofore described, (on S.bdy. of Tp.)
	N. 0° 01' W., on true line, bet: secs. 35 and 36.
	Over very rugged, rough mountainous land, asc. abruptly over sandstone ledges, through scattered shadscale, mountain rush and grass undergrowth.
5.00	Sandstone spur, 220 ft. above true cor: point, projects SW. Desc. abruptly over sandstone ledges, bear with spur.
28.00	Rocky box canyon, 350 ft. below spur, course SW. Asc. abruptly over sandstone ledges, bear with canyon.
40.00	Falls on side of sandstone ledges, where cor. cannot be set. Continue abrupt ascent.
58.70	Top of ledges and rim of high mesa, 700 ft. above canyon, bears E. and W. Thence over rolling mesa top. Enter rabbit-brush, sagebrush and greasewood undergrowth bears with mesa.
59.05	On mesa top,

Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 5 ft. base, for the W. C. to the $\frac{1}{4}$ cor. of secs. 35 and 36, with brass cap mkd.,

$\frac{1}{4}$

S 35 | S 36

W C

1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.
	Thence over rolling mesa top.
80.00	On rolling mesa, level with W. ¼ cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 25, 26, 35 and 36, with brass cap mkd.,

T 42 S R 3 E

S 26	S 25
S 35	S 36

1917

Dig pits, 18 x 18 x 12 ins. in each sec. 5½ ft. dist. from the sec. cor.

Land, S. portion, very rugged, rough mountainous land, with high sandstone ledges, N. portion rolling sandy bench land. General drainage to the SW.

Soil, mostly sandstone on S. portion, N. portion, light, dry, sandy loam, on sandstone bedrock.

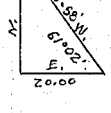
Timber, none.

Undergrowth, scattered shadscale, mountain rush, rabbit-brush, greasewood, sagebrush and grass. Good grazing on mesa, balance too rough.

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

40.00	Set temp. point for ¼ cor.
80.00	Intersect the E. bdy. of the Tp. 24 lks. N. of the cor. of secs. 25, 30, 31 and 36, heretofore described.
	Thence,
	N. 89° 50' W., on true line, bet. secs. 25 and 36.
	Over rough mountainous land, desc. over sandstone ledges through scattered shadscale, oose-ro ot, yellow-top, service-berry, mountain rush and grass undergrowth.
16.00	Rocky hollow, 50 ft. below cor., drains S. Asc. abruptly over sandstone ledges.
31.60	Top of ledges and rim of mesa, 250 ft. above hollow, bears NE. and S. Thence over rolling mesa top.

Chains	
40.00	On rolling mesa, level with top of ledges, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 25 and 36, with brass cap mkd.,
	¼ S 25 / S 36 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Continue over rolling mesa top. Desc. gradually.
80.00	The cor. of secs. 25, 26, 35 and 36, 10 ft. below ¼ cor. Land, E. portion, rough mountainous, with sandstone ledges, W. portion rolling mesa, general drainage to the N. and S.
	Soil, on E. portion, shallow sandy, clay loam, on sandstone bedrock, W. portion, light, dry, sandy loam, subsoil s same.
	Timber, none.
	Undergrowth, scattered shadscale, oose-root, yellow-top, service-berry, mountain rush and grass. Good grazing on mesa, balance too rough.
	N. 0° 01' W., on true line, bet. secs. 25 and 26.
	Over rolling mesa land, through scattered shadscale, oose-root, yellow-top, service-berry, mountain rush and grass undergrowth.
20.35	Rim of mesa and top of sandstone ledges, level with sec. cor., bear E. and W. Desc. abruptly over sandstone ledges over which it is impracticable to chain, therefore triangulate as follows, set a point on line N. and measure a base line, from the 20.35 chs. point, E. a dist. of 20.00 chs., from which point the point on line north bears N. 28° 58' W., The dist. is then,
	20.00 x tan. 61° 02' or 1.80653 = 36.13 chs.
40.00	Falls on inaccessible sandstone ledges where cor. cannot be set.



Chains

57.08 Triangulation point on sharp spur, 490 ft. below mesa, projects NW. Offset 1 lk. dist. W. and at this point, Set an iron post, 3 ft. long, 1 in. dia., 4 ins. in the ground to bedrock, 22 ins. in a mound of stone, 4 ft. base, for the W. C. to the ¼ cor. of secs. 25 and 26, with brass cap mkd.,

¼

S 26 | S 25

W C

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.

Desc. abruptly over rocky, steep NE. slope., N. 0° 01' W.

73.60 Rocky wash, 390 ft. below ¼ W. C., 20 lks. wide, 4 ft. deep, drains NW. Asc. over sandstone ledges.

80.00 On SW. slope of spur, 70 ft. above wash,

Set an ironpost, 3 ft. long, 2 ins. dia., on bare sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 23, 24, 25 and 26, with brass cap mkd.,

T 42 S R 3 E

S 23 | S 24

S 26 | S 25

1917

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

Land, S. portion rolling mesa, N. portion very rough mountainous land, general drainage to the NW.

Soil, sandy loam on mesa, subsoil same, shallow sandy, rocky loam on sandston e bedrock on balance of mile.

Timber, none.

Undergrowth, scattered shadscale, oose-root, yellow-top, service-berry, mountain rush and grass. Good grazing on mesa, balance too rough.

S. 89° 50' E., on random line, bet. secs. 24 and 25.

Subdivision of T. 42 S., R. 3 E.

Chains	
40.00	Set temp. point for ¼ cor.
80.02	Intersect the E. bdy. of the Tp., 9 lks. N. of the cor. of secs. 19, 24, 25 and 30, heretofore described. Thence,
	N. 89° 46' W., on true line, bet. secs. 24 and 25.
	Over rough mountainous land, desc. gradually through scattered shadscale, mountain rush, yellow-top, sage-brush and grass undergrowth.
2.00	Wash, 30 ft. below sec. cor., 20 lks. wide, 3 ft. deep, drains N. Asc. over sandstone ledges and boulders.
24.60	Sandstone spur, 410 ft. above wash, projects NW. Thence over rocky top of spur.
37.00	W. edge of spur, level with E. edge, bears NW. and SE. Desc. abruptly over sandstone ledges.
40.01	On SW. slope of spur, 80 ft. below spur, Set an iron post, 3 ft. long, 1 in. dia., on bare sand-stone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 24 and 25, with brass cap mkd.,
	$\frac{\frac{1}{4}}{\frac{S\ 24}{S\ 25}}$
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Continue abrupt descent over sandstone ledges, bearing with spur.
54.00	Wash, 130 ft. below ¼ cor., 14 lks. wide, 2 ft. deep, drains N.
58.00	Wash, level with wash, 14 lks. wide, 1 ft. deep, drains N. Asc. over sandstone ledges.
78.40	Rocky spur, 290 ft. above wash, projects NW. Desc. over loose sandstone.
80.02	The cor. of secs. 23, 24, 25 and 26, 30 ft. below spur.
	Land, rough mountainous general N. drainage.
	Soil, shallow, sandy, rocky clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, yellow-top,

Chains	
	sagebrush and grass. Most too rough for grazing.
	N. 0° 01' W., on true line, bet. secs. 23 and 24.
	Over rough mountain cus land, asc. gradually over broken sandstone ledges through scattered mountain rush, grease shadscale, rabbit-brush, sagebrush and grass undergrowt
7.10	Rocky spur, 30 ft. above sec. cor., projects NW. Desc. abruptly over sandstone and shale ledges.
22.00	Rocky box canyon, 320 ft. below spur, course E. Asc. abruptly over sandstone and shale ledges, bear with canyon.
40.00	On rocky S. slope, 520 ft. above canyon, Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2 f base, for the ¼ cor. of secs. 23 and 24, with brass cap mkd.,

¼
S 23 | S 24
1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.

Continue ascent over sandstone ledges.

42.30	Sandstone and clay spur, 80 ft. above ¼ cor., projects NE. Thence ascending and descending along steep, ledgy E. slope of mountain, to top of mesa.
80.00	On steep rocky S. slope of point of mesa, projecting E., 230 ft. above spur,

Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3 ft. base, for the cor. of secs. 13, 14, 23 and 24, with brass cap mkd.,

T 42 S., R 3 E.

S 14 | S 13
S 23 | S 24
1217

Raise a mound of stone, 2 ft. base, 1½ ft. high, west

Chains	
	of the cor.
	Land, very rough mountainous, with sandstone and shale ledges throughout mile, general drainage to the E.
	Soil, mostly sandy, rocky, clay and shale, on sandstone and shale bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, greasewood, shadscale, rabbit-brush, sagebrush and grass. Too rough for grazing.
	S. 89° 46' E., on random line, bet. secs. 13 and 24.
25.10	Set temp. point for ¼ W. C. Offset 7.77 chs. S. on account of sandstone ledges over which it is impracticable to chain, thence S. 89° 46' E., on offset line.
79.38	Offset N. a dist. of 7.77 chs. to random line, and intersect the E.bdy. of Tp. 14 lks. S. of the cor. of secs. 13, 18, 19 and 24, heretofore described.
	Thence,
	N. 89° 52' W., on true line, bet. secs. 13 and 24,
	Over rough mountainous land, sandstone ledges through scattered shadscale, sagebrush, greasewood, yellow-top, service-berry, mountain rush and grass undergrowth.
	From sec. cor., S. 7.77 chs. to offset point, thence N. 89° 52' W., on offset line, along top of sharp spur, projecting E.
40.00	Impossible to get to true line on account of sandstone ledges on N. slope of spur.
54.88	N. 7.77 chs. to true line, on top of sharp spur, 320 ft. above sec. cor., projects S. about 8.00 chs. dist. thence E.
	Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the W. C. to the ¼ cor. of secs. 13 and 24, with brass cap mkd.,

$$\frac{1}{4}\ \frac{S\ 13\ WC}{S\ 24}$$

1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, nort of the ¼ W. C.
	Asc. abruptly over sandstone ledges.
79.38	The cor. of secs. 13, 14, 23 and 24, 210 ft. above ¼ W.C
	Land, very rough mountainous, with sandstone and shale ledges throughout mile, general drainage to the NE. an SE.
	Soil, shallow, sandy , rocky, clay, mixed with much sand and shale, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, sagebrush, grease-wood, yellow-top, service-berry, mountain rush and grass. Too rough for grazing.
	N. 0° 01' W., on true line, bet. secs. 13 and 14.
	Over rough mountainous land, asc. abruptly over sandstone ledges through scattered shadscale, sagebrush, grease-wood, yellow-top, service-berry, mountain rush and grass undergrowth.
5.40	Top of ledges and rim of mesa, 100 ft. above sec. cor., bears NE. and SW. Thence over rolling mesa top.
13.28	Rim of mesa and top of sandstone ledges, bear E. and W. Desc. abruptly over sandstone ledges, over which it is impracticable to chain, therefore triangulate as follows set a point on line, N. 0° 01' W., and measure a base line from the 13.28 chs. point, N. 89° 59' E., a dist. 10.00 chs. from which point the angle between the two points on line is 69° 48', the dist. is then,
	10.00 x tan. 69° 48' or 2.71732 = 27.18 chs.
40.00	On ledgy E. slope of mountain, 540 ft. below mesa,
	Set an iron post, 3 ft. long, 1 in. dia., on sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the 4 cor. of secs. 13 and 14, with brass cap mkd.,

¼

S 14 | S 13

1317

Subdivision of T. 42 S., R. 3 E.

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the 4 cor.
	Desc. abruptly over sandstone ledges, along E. side of wash, course N.
46.46	Triangulation point. Thence desc. abruptly over sandstone ledges over which it is impracticable to chain, therefore, triangulate as follows, set a point on line, N. 0° 01' W., in canyon, and from the latter point measure a base line, N. 89° 59' E., a dist. of 10.00, from which point the angle bet. the two points on line is, 60° 19', the dist. is then,
	10.00 x tan. 60° 19', or 1.75437 = 17.54 chs.
64.00	Triangulation point.
74.30	Wash, dry, in Tibbet canyon, 420 ft. below ½ cor., 40 lks. wide, 3 ft. deep, drains NE. Thence asc. S. slope of canyon.
80.00	On SE. slope of spur, at base of sandstone ledges, 70 ft. above wash,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 11, 12, 13 and 14, with brass cap mkd.,

T 42 S R 3 E

S 11	S 12
S 14	S 13

1917.

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

Land, rough mountainous, general drainage to the N. and E.

Soil, rocky, sandy clay, on sandstone bedrock.

Timber, none.

Undergrowth, scattered shadscale, sagebrush, greasewood, yellow-top, service-berry, mountain rush and grass.

Most too rough for grazing except in canyon, where it is fair.

Chains	
	S. 89° 52' E., on random line, bet. secs. 12 and 13.
	On account of spur ahead, over which it is impracticable to chain, offset S. a dist. of 4.28 chs., thence S. 89° 52' E., on offset line,
34.35	Offset N. a dist. of 4.28 chs. to random line, thence S. 89° 52' E., on random line.
40.00	Set temp. point for ¼ cor.
62.56	On account of sandstone ledges, offset S. a dist. of 6.69 chs., thence S. 89° 52' E. on offset line.
79.96	Intersect the E. bdy. of Tp. 3 lks. S. of the W. C. of secs. 7, 12, 13 and 18 heretofore described.
	Thence, from the W. C.,
	N. 89° 53' W., on offset line, bet. secs. 12 and 13,
	Over rough mountainous land, desc. abruptly over sandstone and shale ledges, through scattered shadscale, mountain rush, greasewood, rabbit-brush, yellow-top, sagebrush and grass undergrowth.
17.40	Offset point, thence N. to true line 6.69 chs. on top of spur 80 ft. below W. C., 60 ft. above true cor. point, projects about 2.00 chs. dist. SW. Desc. abruptly into box canyon, on true line.
19.20	Box canyon, 80 ft. below spur, course SW. Asc. abruptly.
23.00	Sharp spur, 80 ft. above canyon, projects about 2.00 chs. dist. SW. Desc. abruptly into Warm creek.
35.20	Warm creek wash, dry, 190 ft. below spur, 1.00 ch. wide, 4 ft. deep, course S. 20° W. Thence over canyon bottom.
39.98	On canyon bottom, 10 ft. above wash,
	Set an iron post, 3 ft. long, 1 in. dia., 14 ins. in the ground to bedrock, 12 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 12 and 13, with brass cap mkd.,
	¼ S 12 / S 13 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.

Chains	
45.01	Offset point at base of sandstone and shale spur, 20 ft. above ¼ cor., projects 3.00 chs. dist., SE. Thence S. 4.28 chs. to offset point thence N. 89° 53' W., on offset line, along S. rim of ledges along N. edge of Tibbet wash.
72.30	Tibbet wash at bend, in Tibbet canyon, dry, level with ¼ cor., 30 lks. wide, 3 ft. deep, course from SW. to SE. Thence asc. gradually along N. edge of wash.
73.96	Offset point, N. 4.28 chs. to true line, the cor. of secs. 11, 12, 13 and 14, 60 ft. above wash.
	Land, rough mountainous and canyon bottoms, general drainage to the SE. and S.
	Soil, rocky, sandy, clay and shale, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, greasewood, rabbit-brush, yellow-top, sagebrush and grass.
	Good grazing in canyons, balance too rough.

	N. 0° 01' W., on true line, bet. secs. 11 and 12.
	Over rough mountain ous land, asc. abruptly over sandstone and shale ledges, through scattered shadscale, mountain rush, greasewood, rabbit-brush, yellow-top, sagebrush, and grass undergrowth.
	Line passes over ledges over which it is impossible to chain, therefore triangulate as follows, set a point on line, N. 0° 01' W., at top of ledges, then measure S. 0° 01' E. from the sec. cor., 5.00 chs. dist. from which point measure a base line, N. 89° 59' E., a dist. of 20.00, chs. from which point the angle bet. the two points on line is 60° 20'. the dist. is then,
	20.00 x tan. 60° 20' or 1.75556 = 35.11 chs. - 5 chs. =
30.11	Triangulation point at top of ledges and rim of high mesa, 1030 ft. above sec. cor., bears E. and W. Thence over rocky broken mesa top.
40.00	On rocky mesa, level with top of ledges.

Chains

Set an iron post, 3 ft. long, 1 in. dia., on bare sandsto
bedrock, 26 ins. in the mound of stone, 4 ft. base,
for the ¼ cor. of secs. 11 and 12, with brass cap mkd.,

¼

S 11 | S 12

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west
of the ¼ cor.

Thence asc. gradually over rocky mesa.

80.00 On rocky mesa, 20 ft. above ¼ cor.;

Set an iron post, 3 ft. long, 2 ins. dia., on bare sand-
stone bedrock, 24 ins. in a mound of stone, 4 ft. base,
for the cor. of secs. 1, 2, 11 and 12, with brass cap
mkd.,

T 42 S R 3 E

S 2 | S 1

S 11 | S 12

1917

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

Land, S. portion, very rough mountainous with sandstone
and shale ledges throughout, N. portion rocky, broken
mesa, general drainage to the SE.

Soil, shallow, sandy, rocky clay and shale, on sandstone
bedrock.

Timber, none.

Undergrowth, scattered shadscale, mountain rush, grease-
wood, rabbit-brush, yellow-top, sagebrush and grass.

Good grazing on mesa, balance too rough.

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

6.84 Top of ledges over which it is impossible to chain, there-
fore triangulate as follows, set a flag on line, E.
and measure a base line S. 20.00 chs. dist. from the
6.84 chs. point, from which point the point E. bears

Chains	
	N. 54° 07' E., the dist. is then,
	20.00 x tan. 54° 07' or 1.38229 = 27.65 chs.
34.49	Triangulation point, offset S. a dist. of 6 lks. thence S. 89° 53' E., on random line.
80.01	Intersect the E. bdy. of the Tp. 23 lks. S. of the cor. of secs. 1, 6, 7 and 12, heretofore described.
	Thence,
	S. 89° 57' W., on true line, bet. secs. 1 and 12.
	Over rough mountainous land, desc. abruptly over sandstone and shale ledges through scattered shadscale, greasewood, mountain rush, yellow-top, sagebrush and grass undergrowth.
6.20	Rocky spur, 40 ft. below cor., projects about 20.00 chs. dist., SW. Desc. abruptly over sandstone and shale ledges.
20.50	Wash in box canyon, 410 ft. below spur, 30 lks. wide, 3 ft. deep, drains SW. Asc. abruptly over ledges.
26.40	Sharp spur, 140 ft. above wash, projects SW. about 5 chs. dist. Desc. abruptly over sandstone and shale ledges.
36.70	Warm Creek wash, dry, 270 ft. below spur, 1.00 ch. wide, 4 ft. deep, course S. Asc. gradually.
40.00	In Warm Creek canyon bottom, 10 ft. above wash,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 1 and 12, with brass cap mkd.,
	¼ S 1 / S 12 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Asc. abruptly over sandstone and shale ledges.
45.52	Triangulation point, impossible to chain farther on account of high sandstone and shale ledges, bear with canyon.
73.17	Triangulation point at top of ledges and rim of high mesa,

Subdivision of T. 42 S., R. 3 E.

Chains	
	bears N. 20° W., and S. 1020 ft. above ¼ cor., thence over rocky, broken mesa top.
80.01	The cor. of secs. 1, 2, 11 and 12, level with top of ledges.
	Land, Extreme W. portion rocky mesa, balance rugged, rough mountainous, with sandstone and shale ledges, general drainage to the E. W. and S.
	Soil, shallow, sandy, rocky, clay and shale, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, yellow-top, sagebrush and grass. Good grazing in canyon bottom and mesa top, balance too rough.
	N. 0° 01' W., random line, bet. secs. 1 and 2
10.37	Impossible to chain farther on account of sandstone ledge therefore triangulate as follows, set flag here and set point on line, N. 0° 01' W., and from the latter point measure a base line, S. 89° 59' W., a dist. of 10.00 chs., impossible to get longer base on account of ledge from the W. end of base the angle bet. the N. and S. po on line is 72° 43', the dist. is then,
	10.00 x tan. 72° 43' or 3.21392 = 32.14 chs.
40.00	Point falls in sandstone ledges where cor. cannot be set.
42.51	Triangulation point.
42.14	Set temp. point for ¼ W. C.
84.60	Intersect the N. bdy. of the Tp. 16 lks. E. of the cor. of secs. 1, 2, 35 and 36, heretofore described.
	Thence,
	S. 0° 08' E., on true line, bet. secs. 1 and 2.
	Over very rough mountainous land, asc. abruptly over sandstone and shale ledges through scattered mountain rush, shadscale, greasewood, rabbit-brush, sagebrush and grass undergrowth.

Subdivision of T. 42 S., R. 3 E.

Chains	
13.40	Sandstone spur, 320 ft. above sec. cor., projects S. 70° E. Desc. abruptly over sandstone ledges.
30.60	Bottom of desc. in rocky swale, 320 ft. below spur, drains E. Asc. over sandstone ledges.
39.00	Sandstone spur, 60 ft. above swale, projects E. Desc. gradually.
42.46	On S. slope of spur, 30 ft. below top. Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 3½ ft. base, for the W. C. to the ¼ cor. of secs. 1 and 2, with brass cap mkd.,

¼

S 2 | S 1

W C

1917

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

Desc. abruptly over sandstone ledges.

44.60	Point on side of ledges, cor. cannot be set.
45.20	Rocky box canyon, 90 ft. below ¼ W. C., course E. Asc. abruptly over high sandstone ledges.
74.23	Triangulation point at top of ledges and rim of mesa, 860 ft. above canyon, bears NW. and SE. Thence over rocky, broken mesa.
84.60	The cor. of secs. 1, 2, 11 and 12, level with top of ledges.

Land, Extreme S. portion rocky, broken mesa, balance of mile, very rugged, E. breaks of high mesa, general drainage to the E.

Soil, shallow sandy, rocky clay and shale on sandstone bedrock.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, greasewood, rabbit-brush, sagebrush and grass. Good grazing on mesa, balance too rough.

Chains	
	From the cor. of secs. 2, 3, 34 and 35, heretofore described, on S.bdy. of Tp.
	N. 0° 01' W., on true line, bet. secs. 34 and 35.
	Over rough mountainous land, asc. abruptly over sandstone ledges, through scattered mountain rush, greasewood, shadscale, rabbit-brush and grass undergrowth.
17.00	Top of ledges and rim of mesa, 200 ft. above sec. cor., bears NW. and S. 30° E. Enter scattered sagebrush undergrowth, bears with mesa. Thence over rolling mesa top.
40.00	On rolling mesa, 20 ft. above top of ledges.
	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground to bed rock, 10 ins. in a mound of stone 2 ft. base, for the ¼ cor. of secs. 34 and 35, with brass cap mkd.,

¼

S 34 | S 35

1917

	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.
	Contimue over rolling mesa top.
80.00	On rolling mesa, level with ¼ cor.,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs., 26, 27, 34 and 35, with brass cap mkd.,

T 42 S R 3 E

S 27 | S 26

S 34 | S 35

1917

	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, S. portion, rough, sandstone breaks of high mesa, N. portion rolling mesa, general drainage to the SW.
	Soil, shallow sandy, rocky on S. portion on sandstone bedrock, N. portion, sandy loam, mixed with some sandstone outcroppings. Subsoil same.
	Timber, none.

Subdivision of T. 42 S., R. 3 E.

Chains	
	Undergrowth, scattered mountain rush, greasewood, shadscale, rabbit-brush and grass and sagebrush. Good grazing.
	East, on random line, bet. secs. 26 and 35.
40.00	Set temp. point for ¼ cor.
80.02	Intersect the N. and S. line, 30 lks. N. of the cor. of secs. 25, 26, 35 and 36.
	Thence,
	N. 89° 47' W., on true line, bet. secs. 26 and 35.
	Over rolling mesa land, desc. gradually through scattered shadscale, yellow-top, mountain rush, greasewood, service-berry, rabbit-brush, sagebrush and grass undergrowth.
40.01	On rolling mesa, 20 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. 26 and 35, with brass cap mkd.,
	¼ S 26 / S 35 / 1917
	Dig pits, 18x 18 x 12 ins., E. and W. of the ¼ cor., 3 ft. dist.
	Asc. gradually over rolling mesa.
54.30	Cattle trail, bears NW. and SE.
80.02	The cor. of secs. 26, 27, 34 and 35, 20 ft. above ¼ cor.
	Land, rolling sandy bench or mesa land, general drainage to the SE.
	Soil, light brown sandy clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, yellow-top, mountain rush, greasewood, service-berry, rabbit-brush, sagebrush and grass. Good grazing.
	N. 0° 01' W., on true line, bet. secs. 26 and 27.

Chains	
	Over rolling sandy bench land, desc. gradually through scattered mountain rush, greasewood, rabbit-brush, shadscale, sagebrush and grass undergrowth.
40.00	On rolling mesa, 20 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground to bedrock, 16 ins. in a mound of stone, 2½ ft. base, for the ¼ cor., of secs. 26 and 27, with brass cap mkd.,
	¼
	S 27 | S 26
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.
	Thence over rocky mesa.
44.20	Rim of mesa and top of sandstone ledges, level with ¼ cor., bear N. 20° W. and S. 20° E. Desc. abruptly.
45.45	Set flag on top of sandstone ledges, bear with mesa, 30 ft. below mesa. Desc. abruptly over sandstone ledges, impracticable to chain farther, therefore offset W. 5.00 chs. dist., thence N. 0° 01' W., on offset line over rolling mesa.
59.20	Offset E. 5.00 chs. dist. to true line, at rim of mesa and top of sandstone ledges, bear S. 60° W. and N. 60° E. Thence over rolling mesa top.
80.00	On rolling mesa, 10 ft. above ¼ cor.,
	Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 22, 23, 26 and 27, with brass cap mkd.,
	T 42 S R 3 E
	S 22 | S 23
	S 27 | S 26
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling mesa top, general drainage to the N. and E.

Subdivision of T. 42 S., R. 3 E.

Chains	
	Soil, shallow light, dry, sandy clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, greasewood, rabbit-brush, shadscale, sagebrush and grass. Good grazing.
	S. 89° 47' E., on random line, bet. secs. 23 and 26.
40.00	Set temp. point for $\frac{1}{4}$ cor.
80.20	Intersect the N. and S. line, 12 lks. S. of the cor. of secs. 23, 24, 25 and 26.
	Thence,
	N. 89° 52' W., on true line, bet. secs. 23 and 26.
	Over rough-mountainous land, desc. abruptly over sandstone ledges through scattered mountain rush, greasewood, shadscale, rabbit-brush, yellow-top, sagebrush and grass undergrowth.
8.70	Rocky ravine, 120 ft. below sec. cor., course NW. Asc. abruptly over sandstone ledges.
13.60	Rocky spur, 50 ft. above ravine, projects NW. about 8.00 chs. dist. Desc. abruptly over sandstone ledges.
19.60	Rocky canyon, 150 ft. below spur, course N. Asc. abruptly over high sandstone ledges.
34.20	Set flag on rocky spur, 13 lks. N. of line, 250 ft. above canyon, projects N. Desc. abruptly over sandstone ledges and boulders.
40.10	On rocky NW. slope of mountain, 150 ft. below spur, Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2 ft. base, for the $\frac{1}{4}$ cor. of secs. 23 and 26, with brass cap mkd.,
	$\frac{1}{4}$ $\frac{S\ 23}{S\ 26}$ 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the $\frac{1}{4}$ cor.
	Continue abrupt descent over sandstone ledges.
50.90	Fork of Warm creek, dry, 100 ft. below $\frac{1}{4}$ cor., course NE.

Chains	
	Asc. abruptly over sandstone ledges.
75.70	Top of sandstone ledges and rim of mesa, 850 ft. above creek, bears N. 30° W., and S. 30° E. Thence asc. gradually over rocky mesa.
80.20	The cor. of secs. 22, 23, 26 and 27, 10 ft. above ledges. Land, rough mountainous, general drainage to the NE. Soil, shallow, sandy, rocky clay on sandstone bedrock. Timber, none. Undergrowth, scattered mountain rush, greasewood, shadscale rabbit-brush, sagebrush, yellow-top and grass. Too rough for grazing.
	N. 0° 01' W., on true line, bet. secs. 22 and 23. Over rolling mesa, through scattered mountain rush, greasewood, shadscale, rabbit-brush, sagebeush, yellow-top and grass undergrowth.
3.00	Rim of mesa and top of sandstone ledges, level with sec. cor bear NW. and SE. Desc. abruptly over sandstone ledges over which it is impracticable to chain, therefore triangulate as follows, set a point N. on spur, from which point the flag 46.00 chs. dist. E. of the cor. of secs. 22, 23, 26 and 27, makes an angle of 50°38' with sec. cor., the dist. is then, 46.00 x cotan. 50° 38' or .82044 = 37.74 chs.
37.74	Triangulation point on sandstone spur, 180 ft. below sec.cor., projects E. about 10.00 chs. dist. thence SE. Offset 1½ lks. W. thence N. 0° 01' W. Desc.
40.00	On N. slope, 30 ft. below spur, Set a sandstone 24 x 18 x 4 ins., 12 ins. in the ground to bedrock, 6 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 22 and 23, mkd., ¼ on W. face. No ironpost, was available for this cor. Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Desc. abruptly over sandstone ledges and boulders.
47.60	Rocky canyon, 100 ft. below ¼ cor., course SE. Asc.

Chains	
	abruptly over sandston e ledges.
58.10	Top of sandstone ledges and rim of mesa, 370 ft. above canyon, bears E. and W. Thence over rolling mesa land.
80.00	On gentle E. slope of mesa, 20 ft. above top of ledges, Set an iron post, 3 ft. long, 2 ins. dia., 14 ins. in the ground to bedrock, 10 ins. in a mound of stone, 1½ ft. base, for the cor. of secs. 14, 15, 22 and 23, with brass cap mkd.,

T 42 S R 3 E

S 15	S 14
S 22	S 23

1917

	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the sec. cor.
	Land, S. portion rough mountainous, with sandstone ledges, N. portion rolling sandy bench, general drainage to the SE. and N.
	Soil, on S. portion, shallow, rocky, sandy clay, on sandstone bedrock. N. portion light, dry, sandy clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, greasewood, shadscale, rabbit-brush, sagebrush, yellow-top and grass.
	S. 89° 52' E., on random line, bet. secs. 14 and 23.
40.00	Set temp. point for ¼ cor.
80.20	Intersect the N. and S. line, 5 lks. S. of the cor. of secs. 13, 14, 23 and 24.
	Thence,
	N. 89° 54' W., on true line, bet. secs. 14 and 23.
	Over rough mountainous land, asc. abruptly over sandstone ledges, through scattered shadscale, mountain rush, greasewood, yellow-top, sagebrush, rabbit-brush and grass undergrowth.
5.00	Top of ledges and rim of mesa, 100 ft. above sec. cor.,

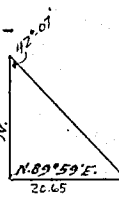
Chains	
	bears S. and NE. Thence over rolling mesa top.
40.10	On rolling mesa, 20 ft. above ledges.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 14 and 23, with brass cap mkd.,
	¼ S 14 / S 23 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Asc. gradually over gentle NE. slope of mesa.
80.20	The cor. of secs. 14, 15, 22 and 23, 20 ft. above ¼ cor.
	Land, Extreme E. portion rough mountainous, balance rolling mesa, general drainage to the NE. and E.
	Soil, On mesa light, dry, sandy clay loam, subsoil same, on E. portion shallow, rocky sandy clay on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, greasewood, yellow-top, sagebrush, rabbit-brush and grass. Good grazing.

	N. 0° 01' W., on true line, bet. secs. 14 and 15.
	Over rolling mesa land, through scattered mountain rush, shadscale, greasewood, rabbit-brush, yellow-top, sagebrush and grass undergrowth.
22.10	Desc. gradually.
32.00	Top of high sandstone ledges, and rim of mesa, 30 ft. below sec. cor., bears E. and W. Desc. abruptly over high sandstone ledges.
40.00	On steep, rocky N. slope of mountain, 250 ft. below mesa.
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 14 and 15, with brass cap mkd.,

Chains	
	$\frac{1}{4}$ S 15 | S 14 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.
	Continue abrupt descent over sandstone ledges.
65.90	Tibbet canyon, 450 ft. below ¼ cor., course N. 40° E. This is the W. fork of Tibbet canyon, dry at this place. Asc. abruptly over SE. slope, over sandstone and shale ledges.
80.00	On S. slope of spur, 180 ft. above canyon, Set an iron post, 3 ft. long, 2 ins. dia., 14 ins. in the ground to bedrock, 10 ins. in a mound of stone, 1½ ft. base, for the cor. of secs. 10, 11, 14 and 15, with brass cap mkd.,
	T 42 S R 3 E S 10 | S 11 S 15 | S 14 1917.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, S. portion rolling mesa, N. portion very rough, ledgy mountainous, general drainage to the N. and E. Soil, on mesa, light, dry, sandy, clay loam, subsoil same, on balance of mile, shallow, sandy, rocky clay and shale, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood, rabbit-brush, yellow-top, sagebrush and grass. Good grazing on mesa, balance too rough.
	S. 89° 54' E., on random line, bet. secs. 11 and 14.
20.65	Set flag 3½ lks. N. of line.
40.00	Set temp. point for ¼ cor.
80.15	Intersect the N. and S. line, 10 lks. N. of the cor. of

Chains	
	secs. 11, 12, 13 and 14.
	Thence,
	N. 89° 50' W. on true line, bet. secs. 11 and 14.
	Over rough mountainous land, asc. abruptly over sandstone and clay ledges through scattered shadscale and greasewood undergrowth.
2.70	Sandstone spur, 140 ft. above sec. cor., projects S. about 2.00 chs. dist. Desc. abruptly over sandstone ledges. Enter scattered mountain rush, yellow-top, rabbit-brush, sagebrush and grass undergrowth.
9.20	Rocky box canyon, 100 ft. below spur, course S. Asc. abruptly over sandstone ledges.
25.70	Sandstone spur, 350 ft. above canyon, projects SE. Desc. abruptly over sandstone ledges.
40.07½	On rocky SW. slope, 250 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground to bedrock, 10 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 11 and 14, with brass cap mkd.,
	¼ S 11 / S 14 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Continue abrupt descent over sandstone ledges.
68.10	Main Tibbet canyon, 150 ft. below ¼ cor., course SE. There is a small seep spring of alkali water about 5 chs. dist. SE. in bottom of canyon, stream about 2 lks. wide and 1 in. deep, flows about 4.00 chs. then disappears. Very poor water.
	Asc. abruptly over sandstone ledges.
77.20	Top of sandstone ledges and rim of spur, 180 ft. above canyon, bears NW. and S. Thence along S. slope of spur,
80.15	The cor. of secs. 10, 11, 14 and 15, 180 ft. above canyon. Land, very rough, rugged mountainous, general drainage to the SE.

Chains	
	Soil, shallow, sandy, rocky clay and shale, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, yellow-top, rabbit-brush, sagebrush and grass. No grazing except in canyon bottom.
	———————
	N. 0° 01' W., on true line, bet. secs. 10 and 11.
	Over rough mountainous land, asc. gradually through scattered shadscale, greasewood, mountain rush, yellow-top, rabbit-brush, sagebrush and grass undergrowth.
.60	Top of sandstone spur, 20 ft. above sec. cor., projects N. 70° E., 2.00 chs. dist. thence NE. Desc. abruptly over sandstone and shale ledges over which it is impracticable to chain, therefore triangulate as follows, set a point N. from which point the flag set 20.65 chs. N. 89° 59' E. of cor. of secs. 10, 11, 14 and 15, makes an angle of 42° 07' with the sec. cor., the dist. is then,
	20.65 x cotan. 42° 07' or 1.10607 = 22.84 chs.
12.00	Approximate bottom of Tibbet canyon, 190 ft. below spur, course SE. Asc. abruptly over sandstone ledges.
22.84	Triangulation point on sandstone spur, 210 ft. above canyon, projects about 3.00 chs. dist. SE. Thence asc. gradually over numerous small ravines and spurs, draining and projecting E. to main canyon draining E. Over very steep E. slope of spur, over sandstone and shale ledges. Offset 1 lk. west thence N. 0° 01' W.
40.00	On rocky, steep E. slope of spur, 30 ft. above spur, Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 10 and 11, with brass cap mkd.,



$\frac{1}{4}$

S 10 | S 11

1917

Subdivision of T. 42 S., R. 3 E.

Chains	
	Raise a mound of stone, 2 ft base, 1½ ft. high, west of the ¼ cor.
	Continue abrupt asc. over sandstone ledges.
60.90	Sandstone spur, 220 ft. above ¼ cor., projects E. about 4.00 chs. dist. Thence along NE. slope of spur. Desc. over sandstone ledges.
80.00	On steep rocky NE. slope, 80 ft. below spur,
	Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 2, 3, 10 and 11, with brass cap mkd.,

T 42 S R 3 E

S 3	S 2
S 10	S 11

1917

	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, very rough, ledgy mountainous, general drainage to the E. and SE.
	Soil, shallow, sandy, rocky, clay and shale, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, yellow-top, rabbit-brush, sagebrush and grass. Too rough for grazing except in canyon bottom.
	S. 89° 50' E., on random line, bet. secs. 2 and 11.
27.36	Set flag 8½ lks. N. of line.
40.00	Set temp. point for ¼ cor.
80.21	Intersect the N. and S. line, 23 lks. S. of the cor. of secs. 1, 2, 11 and 12.
	Thence,
	West, on true line, bet. secs. 2 and 11.
	Over rocky mesa land, asc. gradually through scattered mountain rush, shadscale, greasewood, rabbit-brush, juniper, sagebrush, yellow-top and grass undergrowth.

chains	
3.00	Desc. gradually, over rocky W. slope of mesa, 10 ft. above sec. cor.
22.10	Top of sandstone ledges and rim of mesa, 20 ft. below top of mesa, bears NE. and SW. Desc. abruptly over sandstone ledges.
39.65	On narrow sandstone bench, 280 ft. below rim of mesa, Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 3½ ft. base for the W.C. to the ¼ cor. of secs. 2 and 11, with brass cap mkd., WC ¼ S 2 / S 11 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the W. C.
40.10½	Point falls in deep crack in sandstone ledges, where cor. would be on unsafe ground. Cor. not set.
	Thence desc. gradually over sandstone bench.
52.80	Desc. abruptly over sandstone ledges, bear NE. and SW.
53.70	Sandstone spur, 80 ft. below ¼ cor., projects S. 70° W. Desc. abruptly over sandstone ledges.
76.40	Rocky sandstone canyon, 290 ft. below spur, course S. Asc. abruptly over sandstone ledges.
80.21	The cor. of secs. 2, 3, 10 and 11, 120 ft. above canyon.

Land, E. portion rolling rocky mesa, W. portion rough, ledgy mountainous, general drainage to the S. and SW.

Soil, shallow, sandy, clay loam, on sandstone bedrock.

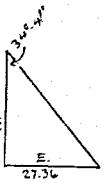
Timber, none.

Undergrowth, scattered mountain rush, shadscale, greasewood, rabbit-brush, juniper, sagebrush, yellow-top and grass.

Good grazing on mesa, balance too rough.

N. 0° 01' W., on random line, bet. secs. 2 and 3.

It is impracticable to chain N. from this cor. therefore, triangulate as follows, set a point on line N. at top of

Chains	
	 ledges, from which point the flag set 27.36 chs. dist. E. of the cor. of secs. 2, 3, 10 and 11, makes an angle of 34° 41' with the sec. cor., the dist. is then, 27.36 x cotan. 34° 41' or 1.44508 = 39.54 chs.
40.00	Point falls too close to rim of ledges to be safe, for ¼ cor. Cor. not set.
41.00	Set temp. point 1 lk. west of this line, for ¼ cor., thence N. 0° 01' W., from temp. point.
84.39	Intersect the N. bdy. of the Tp. 23 lks. E. of the cor. of secs. 2, 3, 34 and 35, heretofore described.
	Thence,
	S. 0° 11' E., on true line, bet. secs. 2 and 3.
	Over rolling mesa land, desc gradually through scattered mountain rush, greasewood, shadscale, rabbit-brush, sagebrush, yellow-top and grass undergrowth.
43.39	On rolling mesa, 20 ft. below sec. cor. Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the W. C. to the ¼ cor. of secs. 2 and 3, with brass cap mkd.,

¼

S 3 | S 2

W C
1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.

44.39	Point falls in ledges, impracticable to set cor.
44.85	Triangulation point on rim of mesa and top of high sandstone ledges over which it is impracticable to chain, bear E. and W. Desc. abruptly.
78.40	Approximate bottom of rocky box canyon, 650 ft. below mesa, course S. 20° E. Asc. abruptly over sandstone ledges.
84.39	The cor. of secs. 2, 3, 10 and 11, 110 ft. above canyon. Land, N. portion rolling bench or mesa, S. portion rough, ledgy mountainous, general drainage to the S.

BOOK A·434

4—679 b

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6—4217

Chains	
	Soil, on mesa, light, dry sandy clay loam, subsoil same and rocky. S. portion, shallow, sandy, rocky clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood, rabbit-brush, sagebrush, yellow-top and grass.
	Good grazing on mesa, balance too rough.
	From the cor. of secs. 3, 4, 33 and 34, hereto fore described, on S. bdy. of Tp.
	N. 0° 02' W., on true line, bet. secs. 33 and 34.
	Over rough mountainous land, asc. abruptly over sandstone ledges through scattered shadscale, mountain rush, greasewood, rabbit-brush, sagebrush and grass undergrowth.
	It is impossible to chain N. from this cor. or triangulate, therefore to get line above ledges proceed as follows, offset W. a dist. of 2.20 chs. to base of impassable sandstone ledges, bear N. and S., thence S. a dist. of 20.00 chs. thence W. a dist. of 8.80 chs. thence N. a dist. of 20.00 chs. to a point 11.00 chs. dist. W. of the sec. cor., thence N. 0° 02' W., on offset line, offset point is 750 ft. above sec. cor., over rough mountainous land, asc. over sandstone ledges.
11.00	Sandstone spur, 760 ft. above sec. cor., projects E. Desc. abruptly over sandstone and shale ledges.
24.50	Rocky canyon, 250 ft. below spur, course E. Asc. abruptly over snadstone and shale ledges.
30.81	Offset E. a dist. of 11.00 chs. to true line, thence N. 0° 02' W., on true line. Asc. abruptly over ledges.
36.62	Set flag on top of sandstone spur, 200 ft. above canyon, projects E. Desc. abruptly.
40.00	On N. slope of spur, 140 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 33 and 34, with brass cap mkd.,

Chains	
	$\frac{1}{4}$ S 33 | S 34 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the $\frac{1}{4}$ cor.,
	Desc. abruptly from $\frac{1}{4}$ cor.
45.00	Elbow of main canyon, 50 ft. below $\frac{1}{4}$ cor., course from NE. to SE. Asc. abruptly over steep clay and sandstone ledges.
48.30	Sandstone and shale spur, 170 ft. above canyon, projects E. about 5.00 chs. dist. Desc. abruptly.
53.90	Rocky canyon, 80 ft. below spur, course from NW. to S. 20° E. to main canyon. Asc. abruptly over high sandstone ledges, bear NW. and SE.
70.40	Asc. gradually along W. slope of flat sandstone spur, projects S.
80.00	On rocky W. slope, 300 ft. above canyon, Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3½ ft. base, for the cor. of secs. 27, 28, 33 and 34, with brass cap mkd., T 42 S R 3 E S 28 | S 27 S 33 | S 34 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, extremely rough, rugged mountainous with almost impassable sandstone and shale ledges throughout mile.
	General drainage E. and E.
	Soil, shallow, sandy, rocky clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, greasewood, rabbit-brush, sagebrush and grass. Too rough for grazing.

Chains	
	East, on random line, bet. secs. 27 and 34.
	It is impossible to chain E. from this cor. therefore on account of sandstone ledges, triangulate as follows, set a point on line, E. at top of sandstone ledges from which point the flag set 43.38 chs. S. 0° 02' E., of the cor. of secs. 27, 28, 33 and 34, bears S. 28° 29' W., the dist. is then,
	43.38 x tan. 28° 29' or .54258 + (2 lks.) = 23.56 chs.
23.56	Triangulation point.
40.00	Set temp. point for ¼ cor.
80.17	Intersect the N. and S. line, 9 lks. S. of the cor. of secs. 26, 27, 34 and 35,
	Thence,
	S. 89° 56' W., on true line, bet. secs. 27 and 34.
	Over rolling mesa top, through scattered shadscale, sage-brush, greasewood, mountain rush, yellow-top, rabbit-brush and grass undergrowth.
40.08½	On gradual SW. slope of mesa, 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.,
	¼ S 27 / S 34 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Desc. gradually.
56.61	Triangulation point at top of sandstone ledges and rim of mesa, 20 ft. below ¼ cor., bears NW. and SE. Desc. abruptly over high sandstone ledges.
72.60	Approximate top of flat sandstone spur, 220 ft. below mesa, projects S. Desc. over sandstone ledges.
80.17	The cor. of secs. 27, 28, 33 and 34, 60 ft. below spur.
	Land, E. portion, rolling mesa, W. portion, rough, ledgy mountainous land, general drainage to the S. and SW.
	Soil, on mesa, sandy, light, dry, clay loam, subsoil

Chains	
	same. rocky. W. portion, shallow sandy, rocky clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, sagebrush, greasewood, mountain rush, yellow-top, rabbit-brush and grass.
	Good grazing on mesa, balance too rough.

	N. 0° 02' W., on true line, bet. secs. 27 and 28.
	Over rough mountainous land, asc. abruptly over sandstone ledges through scattered shadscale, mountain rush, greasewood, rabbit-brush, yellow-top, sagebrush and grass undergrowth.
7.90	Top of sandstone ledges and rim of mesa, 280 ft. above sec. cor., bears NW. and SE. Thence over rolling mesa top.
22.80	Set flag, 1 lk. E. of line.
40.00	On rolling mesa, 20 ft. above ledges,
	Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in the ground to bedrock, 6 ins. in a mound of stone, 1 ft. base, for the ¼ cor. of secs. 27 and 28, with brass cap mkd.,
	¼ S 28 | S 27 1917
	No stone left for mound, therefore dig pits, 18 x 18 x 12 ins., N. and S. of the cor., 3 ft. dist.
	Asc, gradually over mesa top.
53.10	Low ridge, 30 ft. above ¼ cor., bears E. and W. Desc. abruptly over sandstone ledges.
58.00	Bottom of ledges, 60 ft. below ridge, bear E. and W., thence over rolling mesa top.
80.00	On mesa, 70 ft. below ridge,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 21, 22, 27 and 28, with brass cap mkd.,

Chains	
	T 42 S R 3 E S 21 | S 22 S 28 | S 27 1917
	Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist. from the cor.
	Land, rolling mesa, general drainage to the N. and S.
	Soil, light, dry, sandy clay loam, subsoil same, some sandstone outcroppings.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, greasewood, rabbit-brush, yellow-top, sgaebrush and grass. Good grazing.

	N. 89° 56' E., on random line, bet, secs. 22 and 27.
40.00	Set temp. point for ¼ cor.
80.28	Intersect the N. and S. line, 3 lks. S. of the cor. of secs. 22, 23, 26 and 27,
	Thence,
	S. 89° 55' W., on true line, bet. secs. 22 and 27.
	Over rolling mesa land, through scattered shadscale, mountain-rush, sagebrush, greasewood, yellow-top, rabbit-brush and grass undergrowth.
40.14	On rolling 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. 22 and 27, with brass cap mkd.,
	¼ S 22 S 27 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the ¼ cor., 3 ft. dist.
	Continue over rolling mesa.
80.28	The cor. of secs. 21, 22, 27 and 28, 20 ft. below ¼ cor.
	Land, rolling mesa, general drainage to the E. and N.

Chains	
	Soil, light, dry, sandy clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, sagebrush, greasewood, yellow-top, rabbit-brush and grass. Good grazing.
	N. 0° 02' W., on true line, bet. secs. 21 and 22.
	Over rolling mesa land; through scattered mountain rush, shadscale, sagebrush, rabbit-brush, greasewood, yellow-top and grass undergrowth, also scattered juniper.
40.00	On rolling mesa, 20 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. 21 and 22, with brass cap mkd.,
	¼ S 21 | S 22 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of the ¼ cor., 3 ft. dist.
	Thence over rolling sandy bench or mesa land.
62.50	Top of sandstone ledges and rim of mesa, 10 ft. below ¼ cor., bears NE. and SW. Desc. abruptly over sandstone ledges, bear with mesa.
76.00	Rocky ravine, near head, 290 ft. below mesa, course NW. Asc. gradually, over sandstone boulders.
80.00	At W. base of large sandstone boulder, on SW. slope, 30 ft. above ravine,
	Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground to bedrock, 12 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 15, 16, 21 and 22, with brass cap mkd.,
	T 42 S R 3 E S 16 | S 15 S 21 | S 22 1917
	Raise a mound of stone, 1½ ft. high W. of cor.

Chains

Land, S. portion rolling mesatop, N. portion rough, ledgy mountainous, general drainage to the N. and NW.

Soil, on mesa, light, dry, sandy, clay loam, subsoil same.

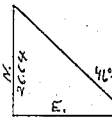
Balance of mile, shallow, sandy, clay, on sandstone bedrock.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, sagebrush, rabbit-brush, grease-wood, yellow-top, juniper and grass. Good grazing on mesa, balance too rough.

N. 89° 55' E., on random line, bet. secs. 15 and 22.

It is impracticable to chain E. from this cor. on account of high sandstone ledges, therefore triangulate as follows, set a point on line, E. at top of ledges, from which point the angle bet. the cor. of secs. 15, 16, 21 and 22, and the flag set at 26.64 chs. dist. north of this cor., is 46° 49', the dist. is then,



26.64 x cotan. 46° 49' or .93852 = 25.00 chs.

25.00 Triangulation point, offset N. a dist. of 3½ lks. thence N. 89° 55' E., on random line.

40.00 Set temp. point for ¼ cor.

80.23 Intersect the N. and S. line, 7 lks. N. of the cor. of secs. 14, 15, 22 and 23.

Thence,

S. 89° 58' W., on true line, bet. secs. 15 and 22.

Over rolling mesa top, through scattered mountain rush, shadscale, greasewood, sagebrush, yellow-top, juniper, rabbit-brush and grass undergrowth.

40.11½ On rolling mesa, gentle NW. slope, 20 ft. below sec. cor., Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the ¼ cor. of secs. 15 and 22, with brass cap mkd.,

¼ S 15
S 22

1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Desc. gradually over broken, rocky NW. slope,
41.20	Rim of mesa, and top of sandstone ledges, 20 ft. below ¼ cor., bear NE. and S. 60° W. Thence along rim of mesa.
55.23	Triangulation point on point of mesa, 40 ft. above ¼ cor., projects N. 50 lks. dist. Desc. abruptly over high sandstone ledges over which it is impracticable to chain.
62.00	Approximate top of sandstone spur, 330 ft. below mesa, projects NW. Desc. abruptly over sandstone ledges.
80.23	The cor. of secs. 15, 16, 21 and 22, 80 ft. below spur.
	Land, E. portion, rolling mesa, W. portion, rough, ledgy, mountainous, general drainage to the NW.
	Soil, on mesa, sandy, light, dry, clay loam, subsoil same, on balance of mile, shallow, sandy, rocky clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, sagebrush, greasewood, juniper, yellow-top, rabbit-brush and grass. Good grazing on mesa, balance too rough.
	N. 0° 02' W., on true line, bet. secs. 15 and 16.
	Over rough mountainous land, asc. over broken sandstone ledges, through scattered shadscale, greasewood, mountain rush, rabbit-brush, yellow-top, sagebrush and grass undergrowth.
5.00	Sandstone spur, 30 ft. above cor., projects NW. Desc. abruptly over sandstone ledges, and shale steep NE. slope
26.64	Set flag 1½ lks. E. of line, on sandstone spur, 150 ft. below spur, projects NE. about 5.00 chs. dist. Desc. abruptly over sandstone and shale ledges.
30.50	W. fork of Tibbet canyon, 200 ft. below spur, course N. 40° E. Asc. abruptly over sandstone and shale ledges.
39.50	On steep rocky S. slope of mountain, 220 ft. above canyon,

Chains	
	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground, to bedrock, 10 ins. in a mound of stone, 2 ft. base, for the W. C. to the ¼ cor. of secs. 15 and 16, with brass cap mkd.,

W C
¼
S 16 | S 15
1917

	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.
	Asc. abruptly over sandstone ledges, bear NE. and SW.
40.00	Falls in sandstone ledges where cor. cannot be set.
62.60	Top of ledges and rim of mesa, 470 ft. above ¼ W. C., bears NE. and SW. Thence asc. gradually over rocky, broken mesa.
80.00	On rocky SE. slope of mesa, 40 ft. above ledges,
	Set an iron post, 3 ft. long, 2 ins. in dia., on bare sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 9, 10, 15 and 16, with brass cap mkd.,

T 42 S R 3 E
S 9 | S 10
S 16 | S 15
1917

	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rough mountainous and rocky broken mesa, general drainage to the NE. and SE.
	Soil, shallow, sandy, rocky, clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, rabbit-brush, yellow-top, sagebrush and grass,
	Good grass but too rough for grazing except N. portion.

N. 89° 58' E., on random line, bet. secs. 10 and 15.

Chains	
6.00	On account of sandstone ledges, offset N. a dist. of 5.00 chs. thence N. 89° 58' E., on offset line.
17.55	Offset S. 5.00 chs. dist. to true random line, thence N. 89° 58' E., on random line.
35.41	Set temp. point for ¼ W. C.
40.00	Point falls on sandstone ledges, cannot be reached.
80.26	Intersect the N. and S. line, 14 lks. S. of the cor. of secs. 10, 11, 14 and 15.
	Thence,
	S. 89° 52' W., on true line, bet. secs. 10 and 15.
	Over rough mountainous land, asc. abruptly over sandstone and shale ledges through scattered shadscale, greasewood, mountain rush, rabbit-brush, yellow-top, sagebrush and juniper undergrowth.
1.60	Sandstone spur, 10 ft. above sec. cor., projects N. 60° E
	Desc. over sandstone and shale ledges.
6.50	Rocky ravine, 40 ft. below spur, course N. Asc. abruptly over high sandstone and shale ledges, on steep NE. slope
40.13	Point is on inaccessible sandstone ledges.
44.85	At top of sandstone ledge, 150 ft. high, bears NW. and SE 630 ft. above ravine,
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2 ft. base, for the W. C. to the ¼ cor. of secs. 10 and 15, with brass cap mkd.,
	¼ S 10 / S 15 W C 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the W. C.
	Continue abrupt ascent over sandstone ledges, bear NW. and SE.
47.30	Top of ledges and rim of mesa, 120 ft. above ¼ W. C., bears NW. and SE. Thence over rocky, broken mesa top.
62.71	Top of ledges and rim of mesa, level with mesa, bears NW. and SE., N. 5.00 chs. to offset point, thence S. 89° 52' W

Chains	
	on offset line, over rocky rim of mesa.
	5.00 chs.
74.26	Thence S. to true line, thence S. 89° 52' W., on true line, over rocky, broken mesa, asc. over broken sandstone ledges.
80.26	The cor. of secs. 9, 10, 15 and 16, 40 ft. above offset point.
	Land, rough mountainous and broken mesa, general drainage to the N. and NE.
	Soil, shallow, sandy, rocky, clay loam, on sandstone and shale bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, rabbit-brush, yellow-top, sagebrush and juniper. Too rough for grazing.

	N. 0° 02' W., on true line, bet. secs. 9 and 10.
	Over broken mesa land, asc. gradually through scattered shadscale, greasewood, mountain rush, juniper, yellow-top, rabbit-brushand grass undergrowth.
12.00	Top of ascent, 30 ft. above sec. cor., desc. gradually over rolling mesa top.
31.70	Rim of mesa, and top of sandstone ledges, 20 ft. below top of ascent, bear E. and W. Desc. abruptly over sandstone ledges.
40.00	On narrow rocky bench, 210 ft. below mesa,
	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground to bedrock, 10 ins. in a mound of stone, 1½ ft. base, for the ¼ cor. of secs. 9 and 10, with brass cap mkd.,
	¼
	S 9 | S 10
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the Cor.
	Desc. abruptly over high sandstone ledges.

Subdivision of T. 42 S., R. 3 E.

Chains	
56.00	Rocky box canyon, 310 ft. below ¼ cor., course NE. Asc. abruptly over high sandstone ledges, bear with canyon.
67.50	Sandstone spur, 350 ft. above canyon, projects NE. about 10.00 chs. dist. Desc. over sandstone ledges.
69.00	Rocky ravine, 80 ft. below spur, course N. 70° E. Asc. over sandstone ledges, bear with ravine.
77.00	Sandstone spur, 50 ft. above ravine, projects NE. about 10.00 chs. dist. Desc. gradually over broken sandst ledges.
80.00	On rocky NE. slope, 30 ft. below spur,
	Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground to bedrock, 12 ins. in a mound of stone, 1½ ft. base, for the cor. of secs. 3, 4, 9 and 10, with brass cap mkd.,
	T 42 S R 3 E S 4 | S 3 S 9 | S 10 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the sec. cor.
	Land, S. portion rolling and broken mesa, N. portion very rough, ledgy mountainous, general drainage to the SE., N. and E.
	Soil, shallow, sandy, rocky, clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, juniper, yellow-top, rabbit-brush and grass. Good grazing on mesa, balance too rough.
	N. 89° 52' E., on random line, bet. secs. 3 and 10.
23.78	Set flag 7 lks. dist. S. of line.
40.00	Set temp point for ¼ cor.
80.31	Intersect the N. and S. line, 14 lks. N. of the cor. of secs. 2, 3, 10 and 11.

Chains	
	Thence,
	S. 89° 58' W., on true line, bet. secs. 3 and 10.
	Over rough mountainous land, asc. abruptly over sandstone ledges, through scattered shadscale, greasewood, mountain rush, yellow-top, sagebrush, rabbit-brush and grass undergrowth.
9.60	Rocky sandstone spur, 230 ft. above sec. cor., projects S. Desc. abruptly over sandstone ledges.
27.60	Rocky sandstone canyon, 220 ft. below spur, course S. Asc. abruptly over sandstone ledges.
40.15½	On top of flat sandstone spur, 80 ft. above canyon, projects S.
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 3 ft. base, for the ¼ cor. of secs. 3 and 10, with brass cap mkd.,
	¼ S 3 / S 10 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Desc. over sandstone ledges, bear NW. and SE.
69.80	Tibbet canyon, 280 ft. below ¼ cor., course SE. Asc. abruptly over sandstone ledges.
74.50	Old coal mine, bears NW. about 5.00 chs. dist., and another old mine, about 15.00 chs. dist. NW. Both are shafts about 100 ft. long in the side of the canyon, and are in good coal, of a bituminous variety.
80.31	The cor. of secs. 3, 4, 9 and 10, 230 ft. above canyon.
	Land, rough mountainous, general drainage to the S. and SE.
	Soil, shallow, sandy, rocky, clay and shale., on sandstone and shale bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, yellow-top, sagebrush, rabbit-brush and grass.
	Too rough for grazing.

Chains

N. 0° 02' W., on random line, bet. secs. 3 and 4,

Line passes over ledges to the N. over which it is impos-
sible to chain, therefore triangulate as follows, set
a point N. across canyon, and from the latter point
the flag set 23.78 chs. dist. E. of the cor. of secs.
3, 4, 9 and 10, makes an angle of 47° 32' with the sec.
cor., the dist. is then,

23.78 x cotan. 47° 32' or .91526 = 27.26 chs.

27.26 Triangulation point, offset 1½ lks. W. thence N. 0° 02'
W. on random line.

40.00 Set temp. point for ¼ cor. From this point the line pass
over high sandstone ledges over which it is impracticabl
to chain, therefore triangulate as follows, set a point
N. at top of ledges, and from the latter point measure a
base line 10.00 chs. dist. W., from which point the angl
between the E. end of base and ¼ cor., is 62° 51', the
dist. is then,

10.00 x tan. 62° 51' or 1.94997 = 19.50 chs.

53.50 Triangulation point. Offset 1 lk. west thence N. 0° 02' W.

84.26 Inter sect the N. bdy. of the Tp. 7 lks. E. of the cor.
of secs. 3, 4, 33 and 34, heretofore described.

Thence,

S. 0° 05' E., on true line, bet. secs. 3 and 4.

Over rolling mesa, land, desc. gradually through scattered
shadscale, greasewood, mountain rush, sagebrush, rabbit-
brush, juniper, yellow-top and grass undergrowth.

24.76 Triangulation point and top of ledges, at rim of mesa,
bears E. and W. 30 ft. below sec. cor., desc. abruptly
over high sandstone ledges, bear with mesa.

44.26 Triangulation point on flat sandstone spur, 470 ft. below
mesa,

Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the
ground to bedrock, 14 ins. in a mound of stone, 2½ ft.
base, for the ¼ cor. of secs. 3 and 4, with brass cap
mkd.,

Subdivision of T. 42 S., R. 3 E.

Chains	
	$\frac{1}{4}$ S 4 | S 3 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.
	Thence desc. gradually over rocky W. edge of spur.
57.00	Triangulation point on sandstone spur, and edge of Tibbet canyon, 40 ft. below ¼ cor. bears NW. and SE. Desc. abruptly over sandstone ledges.
71.30	Approximate bottom of Tibbet canyon, 240 ft. below spur, course SE. Asc. abruptly over sandstone and shale ledges.
84.26	The cor. of secs. 3, 4, 9 and 10, 210 ft. above canyon.
	Land, N. portion, rolling mesa, S. portion very rough, ledgy, mountainous, general drainage to the SE.
	Soil, on mesa, light, dry, sandy, clay loam, subsoil same, balance of mile, shallow, sandy, rocky clay and shale on sandstone and shale bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, sagebrush, rabbit-brush, juniper, yellow-top and grass. Good grazing on mesa, balance too rough.

	From the cor. of secs. 4, 5, 32 and 33, heretofore described, on S.bdy.of Tp.
	N. 0° 02' W., on true line, bet. secs. 32 and 33.
	Over rough mountainous land, asc. abruptly over sandstone ledges through scattered shadscale, mountain rush, greasewood, rabbit-brush, yellow-top, juniper, sagebrush and grass undergrowth.
21.80	Top of ledges and rim of mesa, 220 ft. above sec. cor., bears E. and W. Thence over rolling mesa top.
40.00	On rolling mesa, 10 ft. above ledges,
	Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground to bedrock, 16 ins. in mound of stone, 3 ft. base, for the ¼ cor. of secs. 32 and 33, with brass cap mkd.,

Chains

$\frac{1}{4}$

S 32 | S 33

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the $\frac{1}{4}$ cor.

Asc. gradually over rolling mesa top.

80.00 On rolling mesa 20 ft. above $\frac{1}{4}$ cor.,

Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3½ ft. base, for the cor. of secs. 28, 29, 32 and 33, with brass cap mkd.,

T 42 S R 3 E

S 29 | S 28

S 32 | S 33

1917

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

Land, S. portion, rough, ledgy mountainous land, N. portion rolling mesa, general drainage to the S. and SW.

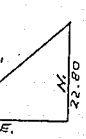
Soil, shallow, sandy, clay loam, with sandstone outcroppings, on sandstone bedrock.

Timber, none.

Undergrowth, scattered shadscale, mountain rush, greasewood, sagebrush, rabbit-brush, yellow-top, juniper and grass.

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

40.00 Set temp. point for $\frac{1}{4}$ cor. It is impracticable to chain farther E. on account of sandstone ledges, therefore triangulate as follows, cannot see triangulation flag from this point, therefore measure W. 3.33 chs. dist. and from this point offset N. 3 lks. dist. to a point W. of the sec. cor. of secs. 27, 28, 33 and 34, from which point the flag, 22.80 chs. N. of the sec. cor. makes an angle of 27° 46' with the sec. cor., the dist.



Chains	
	is then,
	22.80 x cotan. 27° 46' or 1.89935 = 43.32 chs.
79.99	On true random line, intersect the N. and S. line, 3 lks. S. of the cor. of secs. 27, 28, 33 and 34.
	Thence,
	S. 89° 59' W., on true line, bet. secs. 28 and 33.
	Over rough mountainous land, desc. abruptly over sandstone ledges through scattered shadscale, greasewood, mountain rush, yellow-top, juniper, sagebrush, rabbitbrush and grass undergrowth.
3.00	Head of small rocky ravine, 50 ft. below sec. cor., course SW. Continue abrupt descent over high sandstone ledges.
24.00	Approximate bottom of rocky canyon, 270 ft. below sec. cor., course SE. Asc. abruptly over sandstone ledges, bear with canyon.
39.99½	On narrow bench, 410 ft. above canyon, bears N. and S. Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 28 and 33, with brass cap mkd.,
	¼ S 28 / S 33 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Asc. abruptly over sandstone ledges, bear N. and S.
43.32	Triangulation point at top of ledges and rim of mesa, 80 ft. above ¼ cor., bears N. and S. Thence over rolling mesa top.
79.99	The cor. of secs. 28, 29, 32 and 33, 10 ft. above ledges.
	Land, E. portion, rough, sandstone ledgy, mountainous, W. portion rolling mesa top, general drainage to the SE.
	Soil, shallow, sandy, clay loam, mixed with much sandstone on E. portion, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain

Chains

rush, yellow-top, juniper, sagebrush, rabbit-brush and grass. Good grazing on mesa, balance too rough.

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

Over rolling mesa land, sandstone outcroppings, through scattered shadscale, greasewood, mountain rush, rabbit-brush, juniper, sagebrush and grass undergrowth.

40.00 On rolling mesa top, 20 ft. above 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.

1917

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

Desc. gradually over rolling mesa.

55.00 Leave sandstone outcroppings, bear E. and W.

80.00 On rolling mesa, N. slope, 10 ft. below ¼ 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 42 S R 3 E

S 20	S 21
S 29	S 28

1917

Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist. from the cor.

Land, rolling mesa top, general drainage to the N. and SW.

Soil, light, dry, sandy clay loam, subsoil, same, some sandstone outcroppings on S. portion of mile.

Timber, none.

Undergrowth, scattered shadscale, greasewood, mountain rush, rabbit-brush, juniper, sagebrush and grass.

Chains	
	Good grazing.
	N. 89° 59' E., on random line, bet. secs. 21 and 28.
40.00	Set temp. point for ¼ cor.
72.35	Intersect the N. and S. line, 3 lks. N. of the cor. of secs. 21, 22, 27 and 28.
	Thence,
	West, on true line, bet. secs. 21 and 28.
	Over rolling mesa land, Asc. gradually through scattered mountain rush, shadscale, greasewood, rabbit-brush, sagebrush and grass undergrowth.
39.37½	On rolling mesa, gentle NE. slope, 20 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 21 and 28, with brass cap mkd.,
	¼ S 21 / S 28 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Continue gradual ascent over gentle SE. slope.
72.35	The cor. of secs. 20, 21, 28 and 29, 30 ft. above ¼ cor.
	Land, rolling mesa top, general drainage to the NE. and SE.
	Soil, light, sandy, clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood, rabbit-brush, sagebrush and grass. Good grazing.
	N. 0° 05' W., on true line, bet. secs. 20 and 21.
	Over rolling sandy mesa top, through scattered shadscale, mountain rush, juniper, rabbit-brush, greasewood, yellow-top and grass undergrowth.
40.00	On rolling 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. 20 and 21, with brass

Chains	
	cap mkd.,
	$\frac{1}{4}$
	S 20 | S 21
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Continue over rolling mesa.
70.00	Cattle trail, bears W. and S. 35° E.
80.00	On rolling mesa, level with ¼ cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground to bedrock, 12 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 16, 17, 20 and 21, with brass cap mkd.,
	T 42 S R 3 E
	S 17 | S 16
	S 20 | S 21
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling mesa, general drainage to the SW. and NE.
	Soil, sandy, clayloam, subsoil same and rocky. Some sandstone outcroppings.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, juniper, rabbit-brush, greasewood, yellow-top and grass. Good grazing.
	East, on random line, bet. secs. 16 and 21.
40.00	Set temp. point for ¼ cor.
57.19	It is impracticable to chain farther on account of rough sandstone ledges, therefore triangulate as follows, offset S. a dist. of 5 lks. to a point W. of the cor. of secs. 15, 16, 21 and 22, and from this point the flag 17.50 chs. dist. S. 0° 02' E., of the sec. cor., makes an angle of 37° 35' with the sec. cor.

Chains	
	the dist. is then,
	17.50 x cotan. 37° 35' or 1.23331 - (1 lk.) = 22.73 chs.
79.32	On true random line, intersect the N. and S. line, 5 lks. N. of the cor. of secs. 15, 16, 21 and 22.
	Thence,
	N. 83° 58' W., on true line, bet. secs. 16 and 21.
	Over rough mountainous land, desc. abruptly over sandstone ledges, through scattered shadscale, greasewood, mountain rush, juniper, rabbit-brush, yellow-top and grass undergrowth.
11.00	Approximate bottom of rocky canyon, 230 ft. below sec. cor., course NW. Asc. abruptly over sandstone ledges.
22.73	Triangulation point at top of sandstone spur, 270 ft. above canyon, projects N. Desc. abruptly over sandstone ledges, bear N. and S.
39.36	On rocky W. slope, 120 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground for the ¼ cor. of secs. 16 and 21, with brass cap mkd.,
	$\frac{1}{4}$ S 16 / S 21 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Continue descent over broken sandstone ledges.
45.00	Main sandstone canyon, 10 ft. below ¼ cor., course NE. Asc. abruptly over sandstone ledges, bear with canyon.
57.80	Top of high ledges and rim of mesa, 300 ft. above canyon, bears N. and S. Thence asc. gradually over broken sandstone ledges.
60.80	Top of broken ledges, 330 ft. above canyon, bear N. and S. Thence over rolling mesa top.
79.32	The cor. of secs. 16, 17, 20 and 21, level with top of broken ledges.
	Land, W. portion rolling mesa, balance rough, ledgy, mountainous, general drainage to the NE. and NW.

Chains

Soil, rocky, sandy, clay loam, on sandstone bedrock.

Timber, none.

Undergrowth, scattered shadscale, greasewood, mountain rush, juniper, rabbit-brush, yellow-top and grass. Good grazing on W. portion, balance too rough.

N. 0° 03' W., on true line, bet. secs. 16 and 17.

Over broken mesa top, through scattered shadscale, greasewood, mountain rush, yellow-top, juniper, rabbit-brush and grass undergrowth.

40.00 On rolling mesa, 20 ft. above sec. cor.,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 16 and 17, with brass cap mkd.,

¼

S. 17 | S 16

1917

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

Thence asc. gradually over rolling mesa land.

50.00 Top of ascent, 20 ft. above ¼ cor., thence desc. gradually over gentle NE. slope of mesa.

80.00 On gentle NE. slope of mesa, 20 ft. below top of ascent,

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 42 S R 3 E

S 8 | S 9

S 17 | S 16

1917

Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist. from the sec. cor.

Land, rolling and broken mesa top, general drainage to the E.

Soil, light, sandy, clay loam, on sandstone bedrock toward the S. end of mile, balance on clay, sandy loam subsoil.

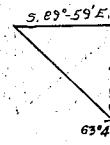
Chains	
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, yellow-top, juniper, rabbit-brush and grass. Good grazing.
	S. 89° 58' E., on random line, bet. secs. 9 and 16.
40.00	Set temp. point for ¼ cor.
79.32	Intersect the N. and S. line, 3 lks. S. of the cor. of secs. 9, 10, 15 and 16,
	Thence,
	N. 89° 59' W., on true line, bet. secs. 9 and 16.
	Over broken mesa land through scattered yellow-top, juniper, mountain rush, shadscale, rabbit-brush, greasewood, and grass undergrowth.
10.40	Top of sandstone ledge, level with sec. cor., 15 ft. high bears N. and SW. Desc. abruptly.
11.40	Bottom of same ledges, 15 ft. below top, thence over rolling mesa top.
25.60	Base of sandstone ledges, bears N. and S. Asc. abruptly.
25.20	Top of same ledges, 15 ft. above bottom, thence over rolling mesa land.
39.36	On rolling mesa, level with top of ledge. Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in the ground to bedrock, 6 ins. in a mound of stone, 1½ ft. base, for the ¼ cor. of secs. 9 and 16, with brass cap mkd.,
	¼ S 9 / S 16 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Thence over rolling mesa land.
79.32	The cor. of secs. 8, 9, 16 and 17, level with ¼ cor.
	Land, rolling and broken mesa, general drainage to the S.

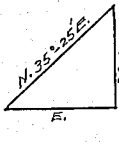
Chains	
	Soil, light, sandy, clay loam, on sandstone and clay. Bare sandstone bedrock innumerous places.
	Timber, none.
	Undergrowth, scattered yellow-top, juniper, mountain rush, shadscale, rabbit-brush, greasewo od and grass. Good grazing.

	N. 0° 03' W., on true line, bet. secs. 8 and 9.
	Over broken mesa land, asc. gradually through scattered shadscale, mountain rush, yellow-top, juniper, rabbit-brush, service-berry and grass undergrowth.
29.00	Top of low ridge, 40 ft. above sec. cor., bears N. 60° W. and S. 60° E. Desc. gradually.
36.00	Top of ledges, 10 ft. below ridge, bears E. and W. Desc. abruptly over ledges.
37.00	Wash, 20 lks. wide, 3 ft. deep, 20 ft. below ledges, drains E. Thence asc. gradually.
40.00	On gradual NE. slope, 10 ft. above wash,
	Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3½ ft. base, for the ¼ cor. of secs. 8 and 9, with brass cap mkd.,
	1/4 S 8 | S 9 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Desc. gradually over N. slope.
61.00	Small wash, 10 ft. below ¼ cor., 15 lks. wide, 2 ft. deep, drains NW. Thence over rolling mesa.
70.00	Cattle trail to Tibbet spring, bears NW. and SE.
80.00	On gentle N. slope of mesa, 10 ft. above wash,
	Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3½ ft. base, for the cor. of secs. 4, 5, 8 and 9,

Subdivision of T. 42 S., R. 3 E.

Chains	
	with brass cap mkd.,
	T. 42 S R 3 E S 5 | S 4 S 8 | S 9 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling and broken mesa, general drainage to the E. and N.
	Soil, shallow, sandy, rocky clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, yellow-top, juniper, rabbit-brush, service-berry and grass.
	Good grazing.
	S. 89° 59' E., on random line, bet. secs. 4 and 9.
2.00	Line passes over breaks of mesa, sandstone ledges, over which it is impracticable to chain, therefore triangulate as follows, set a point on line, S. 89° 59' E., from which point measure a base line S. 0° 01' W. a dist. of 20.00 chs. from which point the N. end of base line, makes an angle of 63° 42' with the 2.00 chs. point, the dist. is then,
	20.00 x tan. 63° 42'. or 2.02335 = 40.47 chs.
42.47.	Triangulation point.
42.48	Set temp. point for ¼ cor, W.C.
51.71	Rim of ledges over which it is impracticable to chain, therefore triangulate as follows, observe that the cor. of secs. 3, 4, 9 and 10 bears S. 89° 38' E., corresponding to a falling of 19 lks. on E. course from this point, and that the ¼ cor. of secs. 3 and 4, bears N. 35° 25' E. The dist. is then,
	39.81 x tan. 35°25'. or .71110 + (6 lks.) = 28.37 chs.
80.04	On random course, intersect the N. and S. line, 18 lks. N. of the cor. of secs. 3, 4, 9 and 10.





Chains	
	Thence,
	N. 89° 51' W., on true line, bet. secs. 4 and 9.
	Over rough mountainous land, asc. abruptly over high sandstone ledges, bear NW. and SE. through scattered shadscale, service-berry, greasewood, mountain rush, rabbit-brush, juniper and grass undergrowth.
28.33	Top of ledges and rim of high mesa, 270 ft. above sec. cor., bears NW. and SE. Thiangulation point. Thence over rocky, broken N. slope of mesa.
37.56	On rocky N. slope of mesa, near N. rim of mesa, 40 ft. above triangulation point,
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, $3\frac{1}{2}$ ft. base, for the W.C. to the $\frac{1}{4}$ cor. of secs. 4 and 9, with brass cap mkd.
	$WC\frac{1}{4}$ $\frac{S\ 4}{S\ 9}$ 1917
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, north of the W. C.
37.57	Triangulation point, thence desc. abruptly over sandstone ledges along rugged N. breaks of high mesa.
40.02	Point falls in sandstone ledges where cor. cannot be set.
78.04	Triangulation point on rim of mesa and top of sandstone ledges bear N. and S. Thence over rocky mesa top.
80.04	The cor. of secs. 4, 5, 8, and 9, 20 ft. above $\frac{1}{4}$ W. C.
	Land, rough, broken, sandstone ledges and broken mesa rim, general drainage to the NE.
	Soil, shallow, sandy, rocky, clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, service-berry, greasewood, mountain rush, rabbit-brush, juniper and grass.
	Too rough for grazing.

Chains	
	N. 0° 03' W., on random line, bet. secs. 4 and 5.
11.04	Top of ledges over which it is impracticable to chain, then triangulate as follows, set a point on line, N. 0° 03' W. across canyon, and from the latter point measure a base line S. 89° 57' W., a dist. of 20.00 chs. from which point the angle between the two points on line is 59° 37', the dist. is then,
	20.00 x tan. 59° 37' or 1.70560 = 34.11 chs.
40.00	Set temp. point for ¼ cor.
45.15	Triangulation point.
84.01	Intersect the N. bdy. of the Tp. 23 lks. E. of the cor. of secs. 4, 5, 32 and 33, heretofore described.
	Thence,
	S. 0° 13' E., on true line, bet. secs. 4 and 5.
	Over rough mountainous land, asc. abruptly over sandstone ledges, bear NW. and SE, through scattered shadscale, mountain rush, service-berry, greasewood, juniper, rabbit-brush and grass undergrowth.
5.70	Top of ledges and rim of Tibbet canyon, 110 ft. above sec. cor., bears NW. and SE. Thence along rocky NE. rim of mesa.
38.86	Triangulation point on rim of mesa and box canyon, level with top of ledges, bears SE. and SW. Desc. abruptly over sandstone ledges.
44.01	On steep, rocky S. slope of canyon, 100 ft. below mesa, Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 3½ ft. base, for the ¼ cor. of secs. 4 and 5, with brass cap mkd.,
	¼ S 5 | S 4 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.
	Slope becomes too steep, and rough to chain. Desc. abruptly

Chains	
	over high sandstone ledges, bear E. and W.,
62.00	Approximate bottom of box canyon, 230 ft. below ¼ cor., course N. 70° E. Asc. abruptly over high sandstone ledges, bear with canyon.
72.97	Triangulation point on S. rim of box canyon, 310 ft. abov canyon, bears W. and E. Thence asc. gradually over rocky N. slope of mesa.
84.01	The cor. of secs. 4, 5, 8 and 9, 330 ft. above canyon. Land, rough mountainous and broken, rocky mesa, general drainage to the E.
	Soil, shallow, sandy, rocky clay loam, on sandstone bed-rock.
	Timber, none.
	Undergrowth, scattered shadscale, service-berry, mountain rush, rabbit-brush, greasewood, juniper and grass.
	Too rough for grazing on most of mile, balance, on mesa good grazing.
	From the cor. of secs. 5, 6, 31 and 32, on S. bdy. of Tp. heretofo described N. 0° 03' W., on true line, bet. secs. 31 and 32.
	Over rough mountainous land, asc. abruptly over steep, sandstone ledges, along S. slope of ridge, through scattered greasewood, shadscale, mountain rush, sage-brush, yellow-top and grass undergrowth.
9.10	Rocky sandstone ridge, 300 ft. above sec. cor., bears E. and W. Desc. abruptly over high sandstone ledges, bear with ridge.
28.90	Rocky sandstone canyon, 530 ft. below ridge, course NW. Asc. abruptly over sandstone ledges, bear E. and NW.
34.80	Sandstone spur, 80 ft. above canyon, projects W. about 5.00 chs. dist., desc. abruptly over sandstone ledges. bear E. and W.
40.00	On rocky, N. slope of spur, 60 ft. below top, Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the ¼ cor. of secs. 31 and 32, with

Subdivision of T. 42 S., R. 3 E.

Chains	
	brass cap mkd.,
	$\frac{1}{4}$
	S 31 | S 32
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the $\frac{1}{4}$ cor.
	Desc.
40.30	Rocky ravine, 10 ft. below $\frac{1}{4}$ cor., course NW. Asc. abruptly over sandstone ledges, bear with ravine.
53.80	Sandstone spur, 300 ft. above ravine, projects W. Desc. abruptly over sandstone ledges.
67.90	Sandstone ravine, 280 ft. below spur, course W. Asc. abruptly over sandstone ledges.
77.00	Sandstone spur, 250 ft. above ravine, projects W. about 1.00 ch. dist. then drops off to the west very abruptly. Desc. abruptly over sandstone ledges, bear E. and W.
80.00	On rocky N. slope, 60 ft. below spur,
	Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3½ ft. base, for the cor. of secs. 29,30, 31 and 32, with brass cap mkd.,
	T 42 S R 3 E
	S 30 | S 29
	S 31 | S 32
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rough mountainous, with sandstone ledges throughout mile, general drainage to the W.
	Soil, shallow, sandy clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered greasewood, shadscale, mountain rush, sagebrush, yellow-top and grass. Too rough for grazing.

Chains	
	East, on random line, bet. secs. 29 and 32.
40.00	Set temp. point for ¼ cor.
79.93	Intersect the N. and S. line, 20 lks. N. of the cor. of secs. 28, 29, 32 and 33.
	Thence,
	N. 89° 51' W., on true line, bet. secs. 29 and 32.
	Over rolling mesa top, through scattered mountain rush, juniper, shadscale, rabbit-brush, greasewood, yellow-top and grass undergrowth.
39.96½	On rolling mesa, level with sec. cor.,
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 3½ ft. base, for the ¼ cor. of secs. 29 and 32, with brass cap mkd.,
	¼ S 29 / S 32 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Continue over the rolling mesa top.
47.30	Rim of mesa and edge of steep canyon, level with ¼ cor., bears NW. and SE. Desc. abruptly over high sandstone ledges.
79.93	The cor. of secs. 29, 30, 31 and 32, 420 ft. below mesa.
	Land, E. portion, rolling mesa, W. portion rough mountainous, with sandstone ledges, general drainage to the W.
	Soil, shallow, sandy clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, juniper, shadscale, rabbit-brush, greasewood, yellow-top and grass. Good grazing on mesa, balance of mile too rough.

	West, on random line, bet. secs. 31 and 30.
32.60	Set temp. point for ¼ W. C.
40.00	Falls on unsafe ground.

Chains	
79.65	Intersect the W. bdy. of the Tp. 61 lks. S. of the W. C., of secs. 25, 30, 31 & 36, a 2-in. iron post recently established under Gn. 49, or 21 lks. S. of true cor. point.
	Thence, from true cor. point,
	S. 89° 51' E., on true line, bet. secs. 30 and 31.
	Over rough mountainous land, asc. abruptly over sandstone ledges, bear N. and S., through scattered greasewood, mountain rush, shadscale, yellow-top and grass undergrowth.
5.00	Sandstone spur, 120 ft. above true cor. point, projects S. about ½ mile dist. Desc. abruptly over high sandstone ledges.
39.65	Main canyon, 380 ft. below spur, course S. 20° W. Impracticable to set cor. as it would soon wash out. Asc. gradually.
40.05	On gentle W. slope, 10 ft. above canyon,
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the W. C. to the ¼ cor. of secs. 30 and 31, with brass cap mkd.,
	WC ¼ S 30 / S 31 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the W. C.
	Thence asc. abruptly over sandstone ledges, bear with canyon.
53.10	Thence along face of spur, 180 ft. above ¼ W. C., projects N. Asc. gradually.
57.00	Desc. abruptly from spur, over sandstone ledges, bear with spur.
64.60	Rocky canyon; 80 ft. below spur, course N. 20° W. Asc. abruptly over high sandstone ledges, bear E. and W.
79.65	The cor. of secs. 29, 30, 31 and 32, 200 ft. above canyon.
	Land, rough mountainous, with sandstone ledges throughout

Chains	
	mile, general drainage to the W. and S. Soil, shallow, sandy, clay, on sandstone ledges. Timber, none. Undergrowth, scattered greasewood, shadscale, yellow-top mountain rush and grass. Too rough for grazing.
	N. 0° 03' W., on true line, bet. secs. 29 and 30. Over rough mountainous land, desc. abruptly over ledgy N. slope through scattered shadscale, greasewood, yello top, mountain rush, and grass undergrowth.
3.70	Rocky ravine, 150 ft. below cor., course W. Asc. abrup ly over sandstone ledges, bear E. and W.
9.60	Sandstone spur, 130 ft. above ravine, projects W. Desc. abruptly over sandstone ledges, bear with spur.
16.80	Sandstone ravine, 220 ft. below spur, course S. 20° W. about 50 lks. thence W. Asc. steep, ledgy S. slope of spur.
22.90	Sandstone, spur, 180 ft. above ravine, projects W. Desc. abruptly over steep ledgy N. slope.
32.10	Sandstone ravine, 310 ft. below spur, course N. 80° W. Asc. abruptly over sandstone ledges, bear E. and W.
40.00	On steep rocky S. slope, 100 ft. above ravine, Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 29 and 30, with brass cap mkd. ¼ S 30 | S 29 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor. Asc. abruptly over S. slope.
44.90	Sandstone spur, 130 ft. above ¼ cor., projects W. Desc. abruptly over steep, ledgy N. slope of spur.
63.50	Sandstone ravine, 260 ft. below spur, course SW. Asc. abruptly over steep, ledgy SE. slope.

Chains	
80.00	On steep rocky SE. slope, 740 ft. above ravine. Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the cor. of secs. 19, 20, 29 and 30, with brass cap mkd.,

T 42 S R 3 E

S 19	S 20
S 30	S 29

1917

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

Land, rough mountainous, with sandstone ledges throughout mile, general drainage W. and S.

Soil, shallow, sandy, rocky clay, on sandstone bedrock.

Timber, none.

Undergrowth, scattered shadscale, greasewood, yellow-top, mountain rush and grass. Good grazing grass but most too rough, for grazing.

S. 83° 51' E., on random line, bet. secs. 20 and 29.

40.00 Set temp. point for ¼ cor.

80.02 Intersect the N. and S. line, 10 lks. S. of the cor. of secs. 20, 21, 28 and 29.

Thence,

N. 89° 55' W., on true line, bet. secs. 20 and 29.

Over rolling sandy mesa top, through scattered mountain rush, greasewood, juniper, shadscale, rabbit-brush, yellow-top and grass undergrowth.

40.01 On rolling mesa on E. rim of canyon, level with sec. cor. Set an iron post, 3 ft. long, 1 in. dia., 4 ins. in the ground to bedrock, 22 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 20 and 29, with brass cap mkd.,

S 20

S 29

1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Desc. gradually over rocky mesa.
44.20	Rim of mesa, and E. rim of canyon, 20 ft. below ¼ cor., bears NW. and SE. Desc. abruptly over high sandstone ledges, bear with mesa.
64.20	Rocky canyon, 320 ft. below mesa, course SW. Asc. abruptly over sandstone ledges on steep SE. slope.
70.80	Sandstone spur, 100 ft. above rocky canyon, projects S. about 10.00 chs. dist. Desc. abruptly.
73.80	Rocky ravine, 70 ft. below spur, course S. Asc. steep ledgy SE. slope.
80.02	The cor. of secs. 19, 20, 29 and 30, 160 ft. above ravine Land, E. portion, rolling mesa, W. portion rough mountainous, general drainage to the S. and SW.
	Soil, on mesa, sandy, clay loam, on clay loam subsoil, balance of mile, shallow, sandy, rocky, clay on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, greasewood, juniper, shadscale, rabbit-brush, yellow-top and grass. Good grazing on mesa, balance too rough.
	N. 89° 51' W., on random line, bet. secs. 19 and 30.
40.00	Set temp. point for ¼ cor.
79.56	Intersect the W. bdy. of the Tp. 3 lks. S. of the cor. of secs. 19, 24, 25 and 30, a 2-in. iron post, recently established under Gr. 49. Thence
	S. 89° 50' E., on true line, bet. secs. 19 and 30.
	Over rough mountainous land, asc. gradually over rocky, sandstone N. slope, through scattered shadscale, greasewood, mountain rush, yellow-top, rabbit-brush and grass undergrowth.
4.40	Top of ascent, 10 ft. above cor., thence desc. into rocky ravine.

Chains	
7.50	Rocky ravine, 40 ft. below top of ascent, course NE. Thence desc. gradually over broken narrow sandstone bench, bears N. and SW.
19.60	Desc. abruptly over sandstone ledges, bear N. and S.
39.56	On rocky E. slope, 220 ft. below ravine, Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for the ¼ cor. of secs. 19 and 30, with brass cap mkd., ¼ S 19 S 30 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Desc. abruptly to canyon bottom.
42.30	Main canyon, 100 ft. below ¼ cor., course S. Asc. abruptly over ledgy SW. slope.
74.00	Top of ledges and rim of narrow bench, 350 ft. above canyon, bears N. and S. Thence over rocky, top of bench.
77.40	E. rim of narrow bench, bears N. and S. Desc. abruptly over sandstone ledges, bear with narrow bench.
79.56	The cor. of secs. 19, 20, 29 and 30, 80 ft. below bench.
	Land, rough mountainous, general drainage to the NE. and S.
	Soil, shallow, sandy, clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, yellow-top, rabbit-brush and grass. Fair grazing.

N. 0° 03' W., on true line, bet. secs. 19 and 20.

Over rough mountainous land, asc. abruptly over sandstone ledges through scattered shadscale, greasewood, mountain rush, yellow-top, rabbit-brush and grass undergrowth.

11.70	Top of ledges and E. edge of flat spur, bears N. 20° E., and S. 20° W. 170 ft. above sec. cor. Thence over

Chains	
.	rocky top of spur.
19.60	W. edge of spur, level with E. edge, projects S. 20° W. Desc. abruptly over sandstone ledges, bear N.20° E., and S. 20° W.
40.00	In rocky ravine, 270 ft. below spur, course W. Impracticable to set cor. in ravine. Asc. abruptly.
40.36	On S. slope, 10 ft. above ravine, Set an iron post, 3 ft. long, 1 in. dia., on sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the W. C. to the ¼ cor. of secs. 19 and 20, with brass cap mkd.,

¼

S 19 | S 20

W C

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.

Asc. abruptly over sandstone ledges, bear with ravine.

50.10	Sandstone spur, 170 ft. above ¼ W. C., projects W. Desc. abruptly over sandstone ledges, bear with spur.
57.80	Rocky ravine, 120 ft. below spur, course S. 70° W. Asc. abruptly over sandstone ledges, bear E. and W.
62.80	S. rim of mesa and top of sandstone ledges, 160 ft. above ravine, bears E. and W. Thence over rolling mesa top, asc. gradually.
80.00	On rolling mesa, 20 ft. above ledges. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 17, 18, 19 and 20, with brass cap mkd.,

T 42 S R 3 E

S 18	S 17
S 19	S 20

1917

Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist. from the cor.

Land, S. portion, rough mountainous, with sandstone ledges,

Chains	
	general drainage to the W. and SW., balance rolling mesa.
	Soil, on S. portion, shallow, rocky, sandy, clay, on sandstone bedrock, N. portion, rolling mesa top, sandy, clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, yellow-top, rabbit-brush and grass. Good grazing.

	S. 89° 55' E., on random line, bet. secs. 17 and 20.
40.00	Set temp.point for ¼ cor.
80.00	Intersect the N. and S. line, 15 lks. S. of the cor. of secs. 16, 17, 80 and 21.
	Thence,
	S. 89° 59' W., on true line, bet. secs. 17 and 20.
	Over rolling mesa land, through scattered shadscale, greasewood, mountain rush, rabbit-brush, yellow-top and grass undergrowth.
15.00	Cattle trail, bears NW. and SE.
40.00	On rolling mesa top, 20 ft. above sec. cor.,
	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.,
	¼ S 17 / S 20 / 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the ¼ cor., 3 ft.dist.
	Asc. gradually, over rolling E. slope.
50.00	Desc. gradually over gradual W. slope, 10 ft.above ¼ cor.
80.00	The cor. of secs. 17, 18, 19 and 20, 30 ft. below top of ascent.
	Land rolling mesa, general drainage to the E. and W.
	Soil, sandy, clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain

Chains	
	rush, rabbit-brush, yellow-top and grass. Good grazing.
	N. 89° 50' W., on random line, bet. secs. 18 and 19.
40.00	Set temp. point for ¼ cor.
79.48	Intersect the W. bdy. of the Tp. 2 lks. S. of the cor. of secs. 13, 18, 19 and 24, a 2-in. iron post recently established under Group 49. Thence
	S. 89° 49' E., on true line, bet. secs. 18 and 19.
	Over rolling mesa top through scattered shadscale, greasewood, mountain rush, rabbit-brush, yellow-top and grass undergrowth. Desc. gradually over SE. slope.
27.30	Head of canyon, 50 ft. below sec. cor., course S. Asc. gradually over rolling SW. slope of mesa.
39.48	On gradual SW. slope of mesa, 40 ft. above canyon. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 18 and 19, with brass cap mkd.,
	¼ S 18 / S 19 / 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Asc. gradually.
60.00	Top of ascent, 20 ft. above ¼ cor., desc. gradual SE. slope
79.48	The cor. of secs. 17, 18, 19 and 20, 10 ft. below top of ascent.
	Land, rolling mesa top, general drainage to the SW. and SE.
	Soil, sandy, clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, mountainrush, greasewood, rabbit-brush, yellow-top and grass. Good grazing.
	N. 0° 03' W., on true line, bet. secs. 17 and 18.

Chains	
	Over rolling mesa top, asc. gradually through scattered shadscale, greasewood, mountain rush, yellow-top, rabbit-brush and grass undergrowth.
14.10	Small broken sandstone ledge, 20 ft. above sec. cor., bears E. and W. Desc. gradually.
40.00	On gradual N. slope of mesa, 20 ft. below ledge.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 17 and 18, with brass cap mkd.,
	$\frac{1}{4}$ S 18 | S 17 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.
	Thence over nearly level mesa top.
80.00	On mesa top, level with ¼ cor.,
	Set an iron post, 3 ft. long, 2 ins. dia., 18 ins in the ground to bedrock, 6 ins. in a mound of stone, 1½ ft. base, for the cor. of secs. 7, 8, 17 and 18, with brass cap mkd.,
	T 42 S R 3 E S 7 | S 8 S 18 | S 17 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling mesa top, with sandstone outcroppings, general drainage to the N. and S.
	Soil, sandy, clay loam, on sandy clay subsoil and sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, yellow-top, rabbit-brush and grass. Good grazing.

N. 89° 59' E., on random line, bet. secs. 8 and 17.

Chains	
40.00	Set temp. point for ¼ cor.
80.12	Intersect the N. and S. line, 9 lks. N. of the cor. of secs. 8, 9, 16 and 17.
	Thence,
	N.89° 57' W., on true line, bet. secs. 8 and 17.
	Over rolling mesa top, desc. gradually through scattered mountain rush, shadscale, greasewood, rabbit-brush, juniper and grass undergrowth.
40.06	On gentle NW. slope, 10 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 17, with brass cap mkd.,
	¼ S 8 / S 17 / 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the ¼ cor., 3 ft. dist.
	Thence over nearly level mesa top.
80.12	The cor. of secs. 7, 8, 17 and 18, level with ¼ cor.
	Land, rolling mesa, general drainage to the N. and S.
	Soil, sandy, clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood, rabbit-brush, juniper and grass. Good grazing.
	N. 89° 49' W., on random line, bet. secs. 7 and 18.
40.00	Set temp. point for ¼ cor.
79.43	Intersect the W. bdy. of the Tp. 3 lks. N. of the cor. of secs. 7, 12, 13 and 18, a 2-in. iron post recently established under Group 49. Thence
	S. 89° 50' E., on true line, bet. secs. 7 and 18.
	Over broken mesa land, desc. gradually through scattered mountain rush, shadscale, greasewood, rabbit-brush, juniper, oose-root, sagebrush and grass undergrowth.
7.40	Wash, 20 ft. below cor., 8 lks. wide, 6 ins. deep, drains N. Asc. gradual W. slope.

Subdivision of T. 42 S., R. 3 E.

Chains	
10.90	Top of sandstone ledges, 40 ft. above wash. bear N. 20° W. and S. 20° E. Asc.
15.50	Sandstone and clay low ridge, 90 ft. above wash, bears N. and S. Desc. gradual E. slope of ridge.
39.43	On gentle E. slope, 60 ft. below ridge, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 7 and 18, with brass cap mkd., ¼ S 7 / S 18 / 1917
	No stone available for mound, therefore dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist. Desc. gradually over gradual E. slope.
43.40	Wash, 20 ft. below ¼ cor., 6 lks. wide, 6 ins. deep, drains N. 25° E. Thence over rolling mesa, draining N.
51.40	Wash, level with wash, 8 lks. wide, 6 ins. deep, drains N. Desc. gradually.
63.40	Wash, 20 ft. above wash, 6 lks. wide, 6 ins. deep, drains N. 20° E. Asc. gradually.
69.20	Top of sandstone ledges, 4 ft. high, 20 ft. above wash, bears NE. and SW. Desc. gradually.
72.60	Head of wash, 10 ft. below ledge, 3 lks. wide, 6 ins. deep, drains N. Asc. gradually.
79.43	The cor. of secs. 7, 8, 17 and 18, 10 ft. above wash. Land, rolling and broken mesa, general drainage to the N.
	Soil, sandy, clay loam, mixed with sandstone, on sandy, rocky, clay subsoil.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood, rabbit-brush, juniper, oose-root, sagebrush and grass. Good grazing.

N. 0° 03' W., on true line, bet. secs. 7 and 8.

Subdivision of T. 42 S., R. 3 E.

Chains	
	Over rolling mesa top, through scattered shadscale, mountain rush, greasewood, rabbit-brush, juniper, sagebrush, yellow-top and grass undergrowth.
6.80	Desc. over broken sandstone ledges, bear NE. and SW.
18.60	Ravine, 40 ft. below sec. cor., course NE. Asc. gradually.
25.50	Wash, 10 ft. above ravine, 6 lks. wide, 1 ft. deep, drains NE. Asc. graduallly.
27.50	Top of ascent, bears NE. and SW., 10 ft. above wash. Desc. gradually.
39.20	Wash, in ravine, 20 lks. wide, 2 ft. deep, 40 ft. below top of ascent, drains N. 70° E. Asc. gradually.
40.00	On gradual S. slope, 5 ft. above wash, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 7 and 8, with brass cap mkd.,

½

S 7 | S 8

1917

No stone available for mound, therefore dig pits, 18 x 18 x 12 ins., N. and S. of the cor., 3 ft. dist. Asc. gradually from ¼ cor.

57.60	Asc. more abruptly over sandstone ledges, bear E. and W.
70.00	Top of sandstone ledges, 90 ft. above ¼ cor., bear E. and W. Thence over rolling mesa top, asc. gradually.
80.00	On gradual S. slope, of mesa, 20 ft. above ledges, Set an iron post, 3 ft. long, 2 ins. dia., 16 ins. in the ground to bedrock, 8 ins. in a mound of stone, 1½ ft. base, for the cor. of secs. 5, 6, 7, and 8, with brass cap mkd.,

T 42 S R 3 E

S 6 | S 5

S 7 | S 8

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west

Chains	
	of the cor.
	Land, rolling and broken mesa, general drainage to the NE.
	Soil, sandy, clay loam, mixed with sandstone, on sandstone and clay subsoil.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, greasewood, rabbit-brush, juniper, sagebrush, yellow-top and grass. Good grazing.
	S. 89° 57' E., on random line, bet. secs. 5 and 8.
40.00	Set temp. point for ¼ cor.
80.30	Intersect the N. and S. line, 8 lks. N. of the cor. of secs. 4, 5, 8 and 9,
	Thence,
	N. 89° 54' W., on true line, bet. secs. 5 and 8.
	Over broken mesa land, desc. gradually through scattered juniper, oose-root, mountain rush, yellow-top, service-berry, shadscale, greasewood and grass undergrowth.
26.70	E. rim of box canyon, 60 ft. below sec. cor., bears N. 70° E., and S. 50° W. Desc. abruptly over sandstone ledges.
34.00	Wash in bottom of box canyon, 170 ft. below rim, 50 lks wide, 3 ft. deep, course NE. Asc. abruptly over steep sandstone ledges.
38.30	W. rim of box canyon, 160 ft. above wash, bears NE. and SW. Thence asc. gradually over rolling mesa top.
40.15	On gradual E. slope, 10 ft. above W. rim of canyon,
	Set an ironpost, 3 ft. long, 1 in. dia., 16 ins. in the ground to bedrock, 10 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 5 and 8, with brass cap mkd.,
	¼ S 5 / S 8 1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, near of the cor.
	Asc. gradually.
43.10	Cattle trail, bears N. and S.
53.00	Base of sandstone ledges, 20 ft. above ¼ cor., bear N. and S. Asc. abruptly over ledges.
53.50	Top of ledges, 30 ft. above base, bear N. and S. Thence over rolling table land.
80.30	The cor. of secs. 5, 6, 7, and 8, 20 ft. above ledges.
	Land, rolling and broken mesa top, general drainage to the NE.
	Soil, sandy, clay loam, mixed with sandstone, and on rocky, clay subsoil.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, greasewood, juniper, coose-root, yellow-top, service-berry and grass. Good grazing.
	N. 89° 50' W., on random line, bet. secs. 6 and 7.
40.00	Set temp. point for ¼ cor.
79.21	Intersect the W. bdy. of the Tp. at the cor. of secs. 1, 6, 7 and 12, a 2-in iron post recently established under Group 49. Thence
	S. 89° 50' E., on true line, bet. secs. 6 and 7.
	Over rolling mesa land, through scattered shadscale, mountain rush, greasewood, rabbit-brush, juniper, sage brush, yellow-top and grass undergrowth.
39.21	On gradual N. slope, 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. 6 and 7, with brass cap mkd.,

¼ S 6 / S 7

1217

Subdivision of T. 42 S., R. 3 E.

Chains	
	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Desc: gradually over W. slope.
57.20	Wash, 30 ft. below ¼ cor., 15 lks. wide, 2 ft. deep, drains N. 20° W. Asc. abruptly over steep W. slope of bench, over broken sandstone ledges.
64.10	W. rim of bench, 30 ft. above wash, bears N. and S. Thence over top of rolling bench,
69.30	E. rim of bench, level with W. rim, bears N. and S. Desc. abruptly over sandstone ledges, bear with bench.
72.40	Base of ledges, 30 ft. below bench, bear N. and S. Thence over rolling mesa.
79.21	The cor. of secs. 5, 6, 7 and 8, level with base of ledges.
	Land, rolling and broken mesa and bench, general drainage to the N. and NE.
	Soil, sandy, clay loam, mixed with some sandstone, on sandy, rocky, clay subsoil.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, rabbit-brush, juniper, sagebrush, yellow-top and grass. Good grazing.

	N. 0° 03' W., on random line, bet. secs. 5 and 6.
40.00	Set temp. point for ¼ cor.
83.34	Intersect the N. bdy. of Tp. 7 lks. E. of the cor. of secs. 5, 6, 31 and 32, heretofore described.
	Thence,
	S. 0° 06' E., on true line, bet. secs. 5 and 6.
	Over broken mesa land, desc. gradually through scattered shadscale, yellow-top, oose-root, sagebrush, greasewood, mountain rush and grass undergrowth.
11.20	Head of wash, 30 ft. below cor., 6 lks. wide, 6 ins. deep, drains E. Asc. gradually over N. slope.
28.50	Top of ascent, 30 ft. above wash, bears E. and W. Desc. gradual S. slope.

Chains	
34.20	Ravine, 40 ft. below top of ascent, course E. Asc. gradually over broken sandstone ledges.
37.90	Top of ledges, 40 ft. above ravine, bear E. and W. Thence over rolling table land.
43.94	On rolling table land, level with top of ledges. Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base for the ¼ cor. of secs. 5 and 6, with brass cap mkd.,

¼

S 6 | S 5

1917

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

Continue over rolling bench land.

83.94	The cor. of secs. 5, 6, 7, and 8, level with ¼ cor. Land, rolling and broken mesa, general drainage to the E. Soil, sandy, clay loam, mixed with sandstone, on sandstone and clay subsoil. Timber, none. Undergrowth, scattered shadscale, yellow-top, oose-root, sagebrush, greasewood, mountain rush, and grass. Good grazing.

Latitudes, Departures and Closing Errors,

T. 42 S., R. 3 E.

Line Designated	Course	Dist. Chs.	Latitudes N.Chs.	Latitudes S.Chs.	Departures E.Chs.	Departures W.Chs.
North Boundary	East.	478.90	.....	.....	478.90	.....
East Boundary	South.	484.56	.....	484.56	.....	.....
South Boundary	West.	479.79	.....	.....	.....	479.79
West Boundary	North.	483.76	483.76	.....	.....	.....
Convergency.			..		.55	
Totals			483.76	484.56	479.45	479.79
				483.76		479.45
Error in lat.				.80		
Error in dep.						.34

General Description of T. 42 S., R. 3 E.

The land embraced in the area of this township is high open rolling and broken mesa cut by Warm and Tibbet canyons and tributaries in the E. and N. ½ of the township, which are from 800 to 1400 feet deep and from ¼ to 2 miles wide at the top rim. The descent from the mesa to the bottom of canyons is very steep and over high sandstone and blue shale ledges, impassable to stock except in a few places. The south part of the township breaks from the mesa to steep, sandstone canyons about 1000 to 1200 feet below the mesa. The township cannot be reached from the S. with pack horses except by going around to the east and going up the trail in the bottom of Warm canyon. This trail follows the bottom of Warm canyon, and forks at Tibbet canyon, one branch going up Warm canyon and the other up Tibbet canyon. The one in Warm canyon continues through the township north and is a good trail. The one going up Tibbet canyon is also a good trail and forks about the middle of sec. 4, one branch going on up Tibbet canyon to Tibbet spring in sec. 32 T. 41 S., R. 3 E., and the

other branch W. up the fork of Tibbet canyon, and comes out on the top of mesa in the N. ½ of sec. 8., from which place it branches in different directions to cattle trails running SE. on the mesa and the other one toward the W. to Nipple spring in the Topnship west of this township.

The drainage is generallly NE. into Tibbet and Warm canyo draining SE., and SW. to a steep sandstone canyon drain ing S. The high mesa is mostly nearly level being mor broken toward the NW. part of the township.

The soil on the mesa is usually deep, light, brown, sandy clay loam, on subsoil of the same nature except near th rim of mesa, where it is in sandstone bedrock, only a few inches beneath the surface of the ground. The soil, in the canyons, and along sides of same, runs more to dark clay and shale, is shallow and on sandstone bedrock. The sandstone is usually gray in color. Toward the NE. corner of the township, on the E. side of Warm creek, the sandstone has the appearance of havin been under high heat, and resembles over-burned brick bats.

Scattered growths of shadscale, mountain rush, greasewood, oose-root, rabbit-brush, juniper, yellow-top, sagebrush, service-berry and grass occur throughout the township. The grass is mostly bunch grass and affords good grazing everywhere on the mesa top. On the canyon sides the grass grows in sufficient quantities for good grazing but is inaccessible to stock, on account of the ledges.

There is no good drinking water in the township, however there is an alkali seep in Tibbet canyon, in the N. ½ of sec. 14, that furnishes plenty of water for stock. This water carries a large percentage of alkali and magnesia and is not good, except for stock. Alkali water may be had in small quantities along the bottom of Warm canyon, by digging in the ground, but it is not good water, being about the same as the see p in sec.

Tibbet spring, in the S. ½ of secs. 32, T. 41 S., R. 3 E., carries a small amount of the magnesia and alkali but is fair drinking water.

There are many coal veins in this township, among the ledges varying from a few inches in thickness to about 3 feet. The coal is bitumenous and a fair grade. The veins are horizontal and are best along Warm and Tibbet canyons. The coal veins run in two or three distinct series, and seem to extend over all of that country, growing better toward the E. There are two old coal mines in the SW. ¼ of sec. 3, in Tibbet canyon. These mines consist of two shafts about 300 feet apart, 5 feet high, 5 feet wide, and about 100 feet back into the side of the canyon. Both shafts have steel tracks in them but have not been used for several years and are beginning to cave in. Both have cottonwood timbers for supporting the roof, of shaft.

The veins in these shafts are about 3 feet thick, horizontal and about 20 ft. above the bottom of Tibbet canyon.

No other improvement s were seen in the township.

No settlers are in the township.

None of the land in this township is suitable for farming and can be used for grazing only. At the time of this survey some horses and cattle were grazing on the mesa, toward the N. but the scarcity of water makes it hard for them to use the S. part of the township.

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Page

N. ½ sec. 14, seep in Tibbet canyon, Alkali and magnesia water, good only for stock.

Volume
#
R0434

Location of Water in T. 22 S., R. 3 E.

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Page

4—GSO

BOOK A-434

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—2761

CERTIFICATE

~~FINAL OATH~~ OF UNITED STATES SURVEYOR.

I, Thos. C. Rathbone, ... certify on honor, U. S. Surveyor, do ~~solemnly swear~~ that, in pursuanc of special instructions received from the U. S. Surveyor General for Utah. ..... bearing date of the first ..... day of February ....., 191 6, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveyin Instructions, and the laws of the United States, surveyed all those parts or portions of East, and North boundaries and Subdivision of T. 42 S., R. 3 E. .....

..... of the Salt Lake Base and ..... Meridian, in the State of Utah ....., which are represented i and index diagram, on page one of same, and on dates shown on said di the foregoing field notes as having been executed by me, and under my direction; and I do furthe ~~solemnly swear~~ certify on honor 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.

Dated ..... *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,

....., 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—2764

4—680

BOOK A-434

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 TRANSITMAN.

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

I, Lyman E. Bolinger, 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 first day of February, 191 6 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 East and North Boundaries and Subdivision of T. 42 S., R. 3 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 certify on honor ~~solemnly swear~~ 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.

Lyman E. Bolinger
U. S. ~~Surveyor~~. Transitman.

Dated March 28, 1918

~~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, Nov. 26 191 8.

The foregoing field notes of the survey of the east and north boundaries and subdivision of Township No. 42 South, Range No. 3 East of the Salt Lake Base and Meridian, Utah,

executed by Thos. C. Rathbone and Lyman E. Bolinger under ~~his~~ special instructions dated February 1, 1916 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.

6—2764

U. S. Surveyor General.

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BOOK A-434

D.

FIELD NOTES

U. S. SURVEYOR GENERAL'S OFFICE
FEB 23 1918
SALT LAKE CITY, UTAH.

OF THE ~~SURVEY OF THE~~

Retracement of the Utah - Arizona State Boundary through T. 44 S., R. 4 E.; survey of the East boundary or First Guide Meridian East, and the Subdivision of T. 44 S., R. 4 E.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

ELLIOT BIRD, U.S. Transitman

~~In the capacity of U. S. Surveyor~~, under instructions dated Feb. 1 *, 191 6*

Issued by the United States Surveyor General to govern surveys included in Group No. 51 *, which were approved by the Commissioner of the General Land Office,* April 4 *, 1916*

Assignment instructions dated Oct. 1,1917

Survey commenced November 2. 1917 *, ~~191~~.*

Survey completed November 13,1917. *, ~~191~~.*

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Examinations Classified

A Plat E.B.B. Notes K.F.B.

B Computations E.B.B.

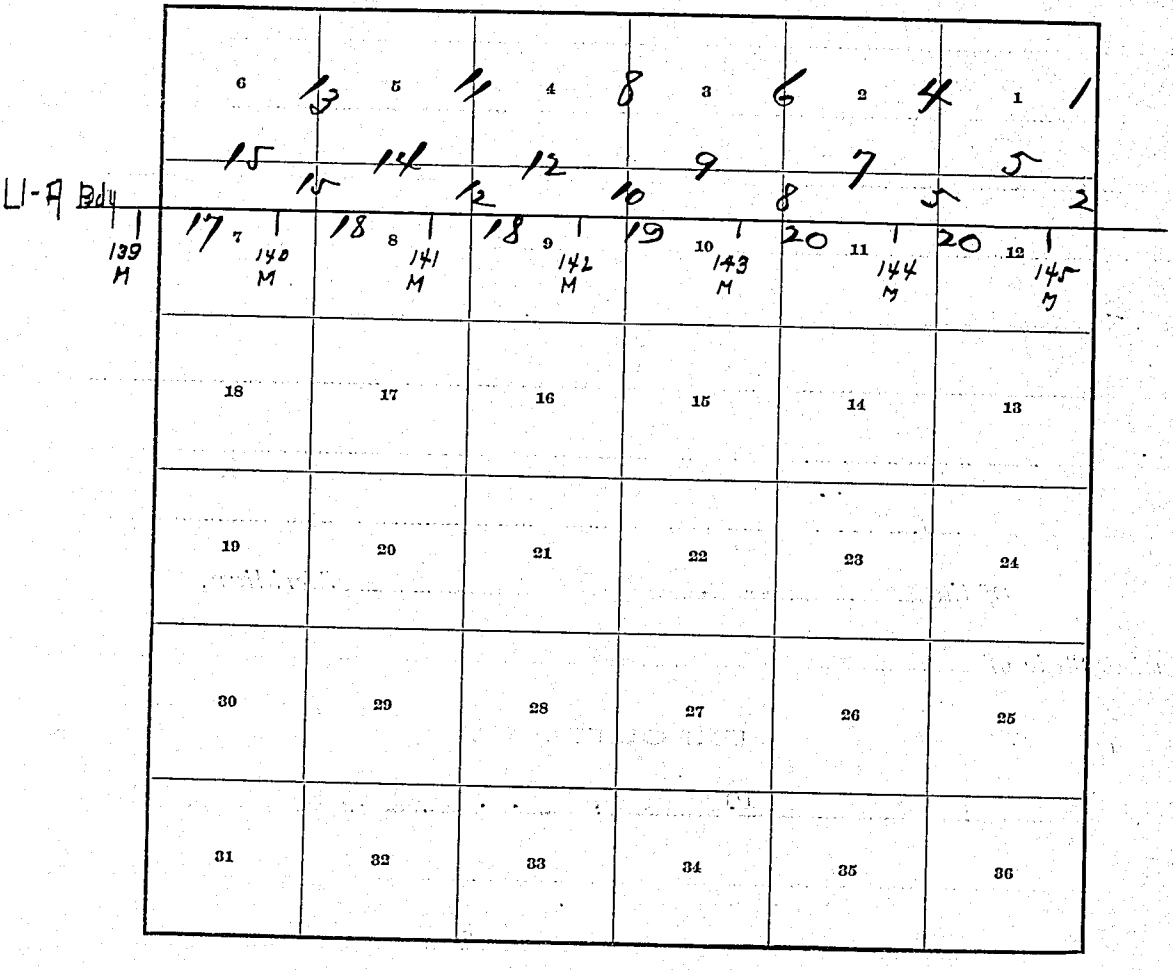
Comparing

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

BOOK A-434

INDEX DIAGRAM.

Township 44 South, Range 4 East



6 13	5 11	4 8	3 6	2 4	1 1
15 15	14 12	12 10	9 8	7 5	5 2
17 7 139 M 140 M	18 8 141 M	18 9 142 M	19 10 143 M	20 11 144 M	20 12 145 M
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

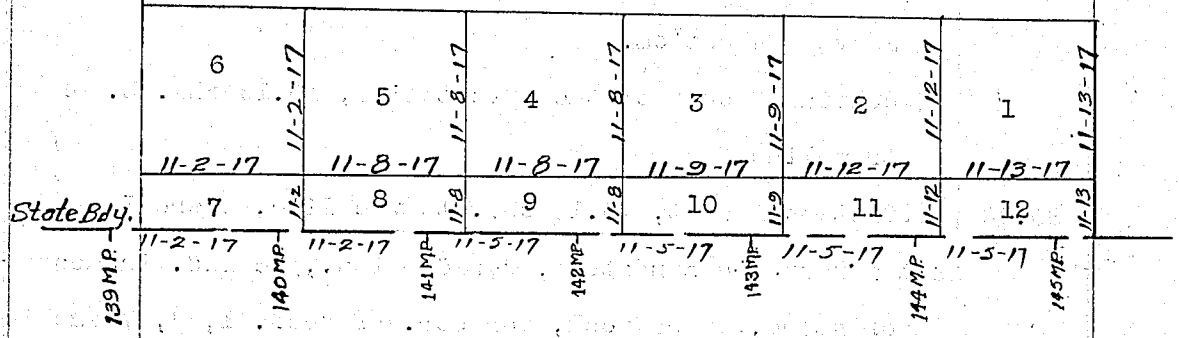
U-A Bdy

6-151

East Boundary of T. 44 S., R. 4 E.

Chains

Date Diagram of T. 44 S., R. 4 E.



Survey commenced November 2, 1917 and executed with a Young and Sons light mountain transit No. 8487, for description and test of instrument see survey of T. 43 S., R. 4 E.

I begin at the cor. of Ts. 43 & 44 S., Rs. 4 & 5 E., described in survey of T. 43 S.,R. 4 E.

The line to the south follows along,and crosses Warm Creek,canyon, which is about 300 ft. deep with inaccessible rock walls, to avoid which I offset East, 19.16 chs., across canyon, course S.; thence South, on offset line, on 1st Guide Meridian East, bet. Rs. 4 & 5 E., and bet. secs. 1 and 6.

Over rolling land, on E. edge of canyon wall.

40.00 I measure west 17.09 chs. dist. to edge of canyon; the true cor. point, 2.07chs. west falls in canyon, cannot be set; therefore at this point

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in large mound of stone, 5ft. base, on bedrock, for the

1st Guide Meridian East, through T.44 S., bet. Rs.4 & 5 E.

Chains

witness ¼ sec. cor., with brass cap marked

¼

WC S1 | S6

1917

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

Corner situated on top of E. rim of Warm creek, 300ft. above the bottom.

I continue South on the offset line, 19.16 chs. E. of true line.

80.00 Offset back west, 19.16 chs. to true line, where I Set a hard red sandstone, 24x16x4 ins., 18 ins. in mound of stone, on bedrock, for cor. of secs. 1, 6, 7 and 12, marked S6 on NE, S7 on SE, S12 on SW., and S1 on NW. face, and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.

Corner situated 3 chs. E. of the E. rim of canyon.

Note: No iron post available.

Land, gently rolling top of bench along E. edge of canyon; true line follows along deep canyon and is impassable for most of the mile. Good water springs up in the bottom of Warm creek, just S. of the tp. cor., the creek bed being dry above.

Soil, light, loose sandy on sandstone bedrock on bench and solid rock walls along canyon.

Undergrowth, sparse shadscale and grass on the bench.

No timber.

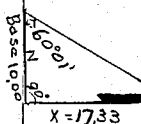
It being impossible to run south from the cor. of secs. 1,6,7 and 12, on account of Warm Creek canyon and as this line will intersect the state bdy. on the W. side of canyon, proceed as follows:

I erect a flag at this sec. cor., also set a flag west

1st Guide Meridian East, through T.44 S., bet. Rs.4 & 5 E

Chains

across the canyon on top of break. I now proceed to the W. flag, and with telescope directed at the sec. cor. deflect an angle of 90° 00' to the N. and measure a base line, North 10.00 chs. to point whence sec. cor. subtends an angle of 60°01'; therefore the dist. is tan. 60°01' x base or 1.73321 x 10.00 chs. = 17.33 chs. to triangulation point, on top W. break of canyon brs. about N. and S.20°E. The canyon at this point is about 400ft. deep and has a stream of good water, 10 lks. wide, 4 ins. deep, course S. to SE.



Thence, South on offset line 17.33 chs. W., bet secs. 7 and 12.

20.00 Offset back east, 17.33 chs. to true line; then South, on true line.

20.29 Intersect Utah - Arizona bdy., S.89°43' E., 28.48 chs. dist. of the 145 mile cor., hereinafter described; this point falls in a small draw, 20 ft. deep, course NE. impracticable to set; therefore at a point 15 lks. S.89°43'E.

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in large mound of stone, 6 ft. base, on bedrock, for the witness closing cor. of secs. 7 and 12 on state bdy., marked on brass cap

U
C C
T44S
R4E | R5E
WC S12 | S7
A
1917

No rock available for accessory mound.

Corner situated 4 chs. W. of W. wall of Colorado river, 600 ft. above water, course of river nearly S. Warm creek empties into the Colorado about 6 chs. to NE.

Land, rough broken canyon walls along Warm creek.

Soil, mostly sandstone ledges and bedrock, with some loose sand.

Subdivision of T. 44 S., R. 4 E.

Chains

Soil, sparse shadscale, greaswood and grass.

No timber. No grazing.

Subdivision of T: 44 S., R: 4 E.

From the cor. of secs. 1,2,35 and 36, described in survey of T.43 S.,R.4 E. (on N.bdy.of Tp.)

Thence,

S. 0° 01' E., bet. secs. 1 and 2.

Over broken bench land.

1.50 Small drain near head, course NE.

16.70 Wash, 6 lks. wide, 1 ft. deep, course N.10°W.

28.78 Top of low gravelly knoll, 20 ft. high; on line.

34.80 Wash, 7 lks. wide, 4 ft. deep, course N.70°W.

40.00 On a gentle NW. slope.

Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in ground to bedrock; and in a mound of stone, 5 ft. base, for ¼ sec. cor., with brass cap marked

S2 | S1

1917

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

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 6 ft. base, on bedrock, for the cor. secs. 1,2,11 and 12, with brass cap marked

T44S	R4E
S2	S1
S11	S12

1917

No rock available for accessory mound.

Land, broken bench; slight slope and drainage to W.

Soil, rocky, sandstone bedrock, with light sandy.

Undergrowth, sparse shadscale, greasewood and grass.

No timber. Poor grazing.

Subdivision of T. 44 S., R. 4 E.

Chains	
	East, on random line, bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
62.67	Intersect the flag set west 17.33 chs. dist. from the cor. secs. 1,6,7 and 12. For triangulation see line bet. secs. 7 and 12; therefore
80.00	Intersect the cor. of secs. 1,,6,7 and 12.on E.bdy.of Tp.
	Thence,
	West, on true line, bet. secs. 1 and 12.
	By triangulation; approximate topography as follows:
3.00	Descend abruptly over broken ledges on E. wall of canyon.
10.00	Warm creek, 10 lks. wide, 4 ins. deep, good water, course S to SE. 400 ft. below rim; asc. abruptly W. side of canyon.
17.33	Top of wall, brs N. and S.20°E., and triangulation point.
	Thence more gradual ascent, 175 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for the ¼ sec. cor., with brass cap marked ¼ S1 / S12 1917 No accessory mound of stone built.
41.00	Top of ascent, brs N. and S.; thence over rolling bench slight slope to the W.
80.00	The cor. of secs. 1,2,11 and 12.
	Land, rough broken, canyon walls, and rolling top of bench; soil, sandstone bedrock, rocky and loose sand. Undergrowth, very little shadscale, oose and grass. No timber. No grazing.

	S. 0° 01' E., on true line, bet. secs. 11 and 12.
	Over rolling sandy bench land.
20.00	Intersect the Utah - Arizona bdy., S.89°59' E., 28.42chs. dist. of the 144 mile cor., hereinafter described.
	At point of intersection

Subdivision of T. 44 S., R. 4 E.

Chains

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for the closing cor. of secs. 11 and 12, with brass cap marked

U
C | C
T44S | R4E
S11 | S12

A
1917

dig pits 24x18x12 ins. E., W., and N. 3 ft. dist. of co
Land, rolling bench, slight slope and drainage to the W.
soil, deep, loose, dry sand, some gravel, and scattered sandstone bedrock.
Undergrowth, sparse short, shadscale, greasewood, oose and some bunch grass.
No timber. Fair grazing land.

From the cor. of secs. 2,3,34 and 35 on N. bdy. of tp., described in survey of T.43 S.,R.4 E.

Am unable to run S. from this cor. on account of Castle Rock, the base of which is S. about 7 chs. dist. Castle Rock is a lone, detached mass of barren sandstone, with rugged abrupt sides, rising to about 500 ft. in height near center, and is impassable to climb.
Therefore I offset as follows:
East, 8.93 chs.; then on offset line,
S. 0° 01' E., over rolling bench land, along foot of Castle rock.

41.30 Thence west, 8.93 chs. to true line, at foot of the mountain, brs N.30°E and SW.; the true point for cor. N.0°01'W., 1.30chs. falls on steep S. face of barren sandstone mountain, cannot be set; therefore at this point.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, 5 ft. base, for witness ¼ sec. cor., with brass cap marked

Subdivision of T. 43 S., R. 4 E.

Chains

$\frac{1}{4}$

W | C

S3 | S2

1917

No rock available for accessory mound of stone.

Thence

S.0°01' E., on true line.

60.00 Draw, 25 ft. deep, course SW.

80.00 On a gentle N. slope.

Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in ground to bedrock, and in a mound of stone, 6 ft. base for the cor. of secs. 2,3,10 and 11, with brass cap marked

T44S | R4E

S3 | S2

S10 | S11

1917

No rock available for accessory mound.

Land, rolling bench, slight slope and drainage to E. on N. $\frac{1}{2}$ mile and to SW. on remainder.

Soil, deep, loose sand, gravel and scattered sandstone bedrock.

Undergrowth, oose, shadscale, brigham-tea and bunch grass.

No timber. Fair grazing.

East, on random line, bet. secs. 2 and 11.

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

80.04 Intersect N. and S. line, 5 lks. N. of the cor. secs. 1,2,11 and 12.

Thence,

N. 89°-58' W., on true line, bet. secs. 2 and 11.

Over rolling bench.

40.02 Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in ground to bedrock and in mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S2

S11

1917

Subdivision of T. 44 S., R. 4 E.

Chains

No rock available for accessory mound, and pits impracticable.

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

Land, rolling bench, slight general exposure to the W.

Soil, loose, dry sand, gravel and sandstone bedrock outcrops.

Undergrowth, oose, shadscale, brigham-tea and some bunch grass.

No timber. Fair grazing.

S. 0° 01' E., on true line, bet. secs. 10 and 11.

Over gently rolling bench.

19.94 Intersect Utah - Arizona bdy., east, 28.42 chs. dist. of the 143 mile cor., hereinafter described; at point of intersection

Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in ground to bedrock, and in mound of stone, for the closing cor. of secs. 10 and 11, with brass cap marked

U

C	C
T44S	R4E
S10	S11

A

1917

No rocks available for accessory mound and pits impracticable.

Land, rolling bench, slope and drainage to NW.

Soil, loose sand, fine gravel and bedrock.

Undergrowth, sparse shadscale, oose, brigham-tea and grass.

No timber. Fair grazing land.

From the cor. of secs. 3,4,33 and 34 on N. bdy. of tp., described in survey of T.43 S.,R.4 E.

Thence,

S. 0° 02' E., bet. secs. 3 and 4.

Over rolling and low broken bench land; gradually desc.

Subdivision of T. 44 S., R. 4 E.

Chains	
7.50	Trail or dim trace of old road, Wahweap to Warm creek, brs NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, 5 ft. base, for the ¼ sec. cor., with brass cap marked ¼ S4 | S3 1917 No rock available for accessory mound.
40.50	Wash, 10 lks. wide, 2 ft. deep, course SW.
71.00	Wash, 15 lks. wide, 3 ft. deep, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in ground to bedrock, and in a mound of stone, 5 ft. base, for cor. of secs. 3,4,9 and 10, with brass cap marked T44S | R4E S4 | S3 S9 | S10 1917 No accessory mound built. Land, rolling and low broken, exposure and drainage to SW. Soil, rocky, gravelly and loose sand; red sandy formation. Undergrowth, sparse shadscale, greasewood, oose and brigham-tea. No timber. Poor grazing.

	East, on random line, bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, 2 lks. S. of the cor. secs. 2,3,10 and 11.
	Thence,
	S. 89° 59' W., on true line, bet. secs. 3 and 10.
	Over gently rolling bench land.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in ground to bedrock, and in mound of stone, 5 ft. base, for the

Subdivision of T. 44 S, R. 4 E.

Chains	
	¼ sec. cor., with brass cap marked ¼ S3 / S10 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
54.30	Ravine, 25 ft. deep, course SW.
72.60	Same ravine, course N.10°W.
80.08	The cor. of secs. 3,4,9 and 10. Land, gently rolling bench land, sloping and draining to the W.; soil, rocky, sandy and gravelly; red sandstone formation. Undergrowth, sparse shadscale, oose, brigham-tea. No timber. Poor grazing.
	S. 0° 02' E., on true line, bet. secs. 9 and 10. Over rolling bench.
19.92	Intersect Utah - Arizona bdy., east, 28.43 chs. dist. of the 142 mile cor., hereinafter described; at point of intersection Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in ground to bedrock, and in mound of stone, for the closing cor. of secs. 9 and 10, with brass cap marked U C | C T44S | R4E S9 | S10 A 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Land, rolling bench, slope to the W. Soil, gravelly, sandy and rocky. Undergrowth, sparse shadscale, greasewwod and oose. No timber. Poor grazing.

Subdivision of T. 44 S., R. 4 E.

Chains	
	From the witness cor. of secs. 4,5,32 and 33, which is 3.00chs. west of true point in gulch, on N.bdy. of Tp. heretofore described,
	S. 0° 03' E., on offset line, bet. secs. 4 and 5.
	Over broken land; desc. abruptly 125 ft. to
7.15	Gulch, course SW.; asc. 95 ft.
13.75	Top of ascent, brs NE. and SW.; desc. 50 ft.
28.70	Swale, course SW.; and old dim road, Wahweap to Warm creek, brs NE. and SW.; gently asc.
40.00	Thence offset back east, 3.00chs. to true line, where I Set an iron post, 3 ft. long, 1in. dia., 26 ins. in ground and in a mound of stone, 5 ft. base, for the 1/4 sec. cor., with brass cap marked
	1/4 S5 | S4 1917
	Cor, on NE. slope; No accessory mound of stone built.
52.00	Top of ascent, 75 ft. above 1/4 cor., brs. E, and W.
	Desc. 135 ft. to
74.83	Dry channel of Wahweap (also known as Sentinel Rock Creek) creek, 50 lks. wide, course SE.; asc. 15 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 4,5,8 and 9, with brass cap marked
	T44S | R4E S5 | S4 S8 | S9 1917
	Loose sand, pits impracticable; no loose rock available for mound of stone.
	Land, broken bench, exposure and drainage to SW. into Wahweap creek, which drains SE. to S.
	Soil, rocky, bedrock, red, hard sand and some clay; red sandstone formation.
	Undergrowth, very sparse sage, oose, shadscale and greasewood. No timber. Poor grazing.

Subdivision of T. 44 S., R. 4 E.

Chains	
	East, on random line, bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, 2 lks. N. of cor. secs. 3,4, 9 and 10.
	Thence,
	N. 89° 59' W., on true line, bet. secs. 4 and 9.
	Over rolling bench land; gradually descending.
39.00	Wash, 20 lks. wide, 5 ft. deep, course SW.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground and in mound of stone, 5 ft. base, for ¼ sec. cor., with brass cap marked

¼ S4
S9
1917

No rock available for accessory mound.

72.75	Dry channel of Wahweap creek, 50 lks. wide, 125 ft. below last sec. cor., course SE.; asc. 15 ft. to
80.08	The cor. of secs. 4,5,8 and 9.

Land, rolling bench; exposure and drainage to W.

Soil, rocky, gravelly, light sandy and some clayp red sandstone formation.

Undergrowth, sparse shadscale, greasewood and oose.

No timber. Poor grazing land.

S. 0° 03' E., on true line, bet. secs. 8 and 9.

Over broken land, asc. abruptly NE. slope, 190 ft. to

19.90	Intersect Utah - Arizona bdy., N.89°58'E., 26.02 chs. dist. of the 141 mile cor. hereinafter described. At point of intersection

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground and in mound of stone, for the closing cor. of secs. 8 and 9, with brass cap marked

U
C | C
T44S | R4E
S8 | S9
A
1917

Subdivision of T. 44 S., R. 4 E.

Chains	
	No rock available for accessory mound.
	Land, broken, NE. drainage into Wahweap.
	Soil, rocky and loose sand.
	Undergrowth, short shadscale, oose and grass.
	No timber. Fair grazing.
	From the cor. of secs. 5,6,31 and 32 on N. bdy. of tp., described in the survey of T.43 S.,R.4 E.
	Thence,
	S. 0° 03' E., bet. secs. 5 and 6.
	Over rolling and broken bench land, slight slope to the S.
9.90	Small wash, 4 lks. wide, 3 ft. deep, course S.20°W.
17.90	Wash, 10 lks. wide, 5 ft. deep, course E.; enter more broken and hilly land, brs E. and W.
24.50	Begin descent brs. E. and W.; desc. 50 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground and in mound of stone, for the ¼ sec. cor., with brass cap marked ¼ S6 | S5 1917
	No rock available for accessory mound.
43.40	Leave bench, brs. E. and W.; desc. abruptly 75 ft. to
56.90	Enter creek bottom, brs E. and W.
58.60	Dry channel of Wahweap creek, 1 ch. wide, course E.; small seeps spring up along the bottom to east of here, flows for only a short distance and sinks.
60.90	Leave bottom, asc. abruptly over ledges, brs N.80°E and S.60°W.
67.80	Top of ledges and abrupt ascent, 240 ft. above bottom, brs E. and W.; gently asc. rolling land.
80.00	In depression, drains N.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 5,6,7 and 8, with brass cap marked

Subdivision of T. 44 S., R. 4 E.

Chains	
	T44S | R4E S6 | S5 S7 | S8 1917
	dig pits 18x18x12 ins. in each sec., 5½ ft. dist of cor
	Land, rolling and broken; facing and draining N and S. into Wahweap, which drains E.
	Soil, loose sandy, gravelly and rocky; red sandstone formation.
	Undergrowth, scattering shadscale, brigham-tea, greasewood, and oose.
	No timber. Poor grazing.

	East, on random line, bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 2 lks. S. of cor. secs. 4,5, 8 and 9.
	Thence,
	S. 89° 59' W. on true line, bet. secs. 5 and 8.
	Abrupt ascent over E. slope, 125 ft. to
12.10	Top of abrupt ascent and rim of Wahweap canyon, brs N.70°W and SE.; thence over rolling, sandy bench land sloping to the N.
40.00	On gentle NE. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S5 / S8 1917
	dig pits 18x18x12 ins., E. and W. of post 3½ ft. dist.
48.40	Stock trail, brs N. and S.
80.00	The cor. of secs. 5,6,7 and 8.
	Land, rolling; exposure and drainage to N.
	Soil, loose sandy, with some rocky of red sandstone.
	Undergrowth, shadscale, oose and match-brush.
	No timber. Fair grazing.

Subdivision of T. 44 S., R. 4 E.

Chains	
	West, on random line, bet. secs. 6 and 7.
39.40	Set temp. ¼ sec. cor.; true point in wash.
78.95	Intersect W. bdy. of tp., 2 lks. S. of cor. secs. 1,6,7 and 12, for description see survey of T.44 S.,R3 E.
	Thence,
	S. 89° 59' E., on true line, bet. secs. 6 and 7.
	Over broken land, having a general N. exposure.
	Asc. NW. slope, 110 ft. to
11.50	Top of ascent and W. edge of box gulch, brs N. and S.
13.85	Bottom of box gulch, 140 ft. deep, course N.10°E; asc.
18.00	E. edge of gulch, brs N. and S.; thence over more rolling land.
38.20	Head of draw, 40 ft. deep, course NE.
38.95	True point for ¼ sec. cor., on steep rocky slope of draw, impracticable to set; therefore at
39.55	On E. edge of draw, brs N. and SW.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S6 / S7 1917
	Dig pits 18x18x12 ins. E. and W. of post, 3½ft. dist.
68.75	Draw, 15 ft. deep, course NE. to NW.
70.10	Draw, 20 ft. deep, course NW.
78.95	The cor. of secs. 5,6,7 and 8.
	Land, broken and rolling; exopsure and drainage to N.
	Soil, loose sandy, rocky and gravelly, with some sandstone bedrock.
	Undergrowth, sparse shadscale, match-brush, brigham-tea and oose.
	No timber. Fair grazing.

	S. 0° 03' E. on true line bet. secs. 7 and 8.
	Over rolling land, gradually asc.

Subdivisions of T. 44 S., R. 4 E.

Chains

19.90 Intersect the Utah - Arizona bdy., N.89°59'E., 26.25chs. dist. of the 140 mile cor., hereinafter described.

At point of intersection

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

U
C | C
T44S | R4E
S7 | S8
A
1917

dig pits, 24x16x12 ins., E. W. and N. 3 ft. dist. of post.

Cor. situated on NE. slope, 70 ft. above sec. cor. N.

Land, rolling, sloping to the N.

Soil, deep, loose sandy and gravelly.

Undergrowth, shadscale, match-brush and oose.

No timber. Fair grazing.

Retracement of Utah - Arizona State Boundary.

From the 140th. mile cor. on Utah - Arizona bdy., for description see survey of T.44 S., R.3 E.

Thence,

East, retracing the 141st. mile of Utah - Arizona bdy.

80.14 Fall 2 lks. S. of the 141st mile cor., which is an iron post, 2 ins. dia., extending 3 ft. above the ground, firmly set, mkd. and witnessed as described by the surveyor general.

The true bearing of this mile is therefore N.89°59'E., and distanceis 80.14 chs.

East, retracing the 142nd mile.

77.64 Fall 5 lks. S. of the 142nd mile cor., which is a dark sandstone, 12x18x12 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor general.

Retracement of the Utah - Arizona Boundary

Chains	
	The true bearing of this mile is therefore N.89°58'E., and distance is 77.64 chs.

	East, retracing the 143rd mile.
80.00	Intersect the 143rd mile cor., which is an iron post, 2 ins. dia., extending 3 ft. above the ground, firmly set, mkd. and witnessed as described by the surveyor general.
	True course of mile is East, and dist. is 80.00 chs.

	East, retracing the 144th mile.
80.07	Intersect the 144th mile cor., which is a red sandstone, 12x10x7 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor general.
	The true course of this mile is therefore East, and dist. is 80.07 chs.

	East, retracing the 145th mile.
80.00	Fall 2 lks. N. of the 145th mile cor., which is a sandstone, 14x8x7 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor general.
	The true course of this mile is therefore S.89°59'E., and distance is 80.00 chs.
	From this cor. the 146th mile cor. on E. side of the Colorado river is plainly visible and bears S.89°43' E.

	Retracement of the Utah - Arizona State Boundary and Establishment of ¼ sec. cor. on S. bdy. of T.44S.,R.4 E.
	From the 140th mile cor.,heretofore described.
	Thence,
	West, retracing on the 140th mile.
13.75	A westing of 40.00 chs. from the closing cor. of secs. 7 and 8 on S. bdy. of T.44 S.,R.4 E.
	Set an iron post, 3 ft. long, 1in. dia., 26 ins. in

Chains	
	ground, for the ¼ sec. cor., for sec. 7 only, with brass cap marked
	S7 / ¼ / 1917
	dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.
	From the 140th mile cor.
	N. 89° 59' E., retracing the 141 st mile.
	Over broken and rolling land; desc.
26.25	The closing cor. of secs. 7 and 8, 100 ft. below the 140th. mile. cor.
52.20	Stock trail, brs N. and S.
66.00	Draw, 20 ft. deep, course NE.
66.20½	Position midway bet. the closing cor. of secs. 7 & 8, and the closing cor. of secs. 8 and 9.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for the ¼ sec. cor. for sec. 8 only, with brass cap marked
	S8 / ¼ / 1917
	dig pits, 18x18x12 ins. E. and W. of post, 3ft. dist.
80.14	The 141 st mile cor.
	Land, rolling and broken; slope and drainage to NE.
	Soil, loose, light sandy, and some scattered sandstone.
	Undergrowth, sparse shadscale, brigham tea and oose.
	No timber. Fair grazing.
	N. 89° 58' E., retracing the 142nd mile.
	Over rolling bench land, descending.
26.02	The closing cor. of secs. 8 and 9, 50 ft. below mile cor.
53.50	Dry channel of Wahweap creek, 75 lks. wide, 100 ft. below the last mile. cor., course general SE.

Retracement of the Utah- Arizona State Boundary
and
Establishment of ¼ sec. cors. on S. bdy. of T. 44 S., R. 4 E.

Chains	
	Thence abrupt ascent over broken ledges.
62.55	Top of abrupt ascent, 200 ft. above bottom, brs NW. and SE.
66.04½	True position for ¼ sec. cor., midway bet. the closing cors. of secs. 8 and 9, and 9 and 10, falls in draw, 20 ft. deep, course SW., impracticable to set cor. here
67.43	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in large mound of stone, 6 ft. base, on bedrock, for the witness ¼ sec. cor. of sec. 9 only, with brass cap mkd. WC ¼ S9 / 1917
	No accessory mound of stone built.
	Cor. situated at foot of red sandstone rim rock, 20 ft. high, brs N. and S.
	Asc.
67.90	Top of same, brs same; thence gently asc.
77.64	The 142nd mile cor.
	Land, rolling and broken; drainage NE. and SW into Wahweap which drains S.
	Soil, loose sand, red sandstone rocks and gravel.
	Undergrowth, sparse shadscale, greasewood and oose.
	No timber. Poor grazing.

	East, retracing the 143rd mile.
	Over rolling land, gently asc.
28.43	The closing cor. of secs. 9 and 10.
68.42½	Position midway bet. the closing cors. of secs. 9 & 10, and 10 & 11, heretofore described.
	Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in ground to bedrock, and in a mound of stone, 5 ft. base, for the ¼ cor. of sec. 10 only, with brass cap marked ¼ S10 / 1917
	No rock available for addessory mound.

Chains	
80.00	The 143rd mile cor.
	Land, rolling bench; slight slope tothe SE.
	Soil, sandy and gravelly, and some sandstone outcrops; on sandstone subsoil.
	Undergrowth, sparse shadscale, brigham-tea, match-brush, oose and grass.
	No timber. Fair grazing.

	East, on the 144th mile.
	Over rolling land; gently asc.
28.00	Top of raise, brs N. and S.
28.42	The closing cor. of secs. 10 and 11.
68.45½	Position midway bet. the closing cors. of secs. 10 & 11, and 11 & 12, heretofore described.
	Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in ground to bedrock, and in a mound of stone, for the ¼ cor. of sec. 11, with brass cap marked
	¼ S11 / 1917
	No rock available for accessory mound.
80.07	The 144th mile cor.
	Land, rolling.
	Soil, loose sandy and rocky, bedrock close to surface.
	Undergrowth, sparse shadscale, match brush, oose and grass. No timber. Fair grazing.

	S. 89°59' E., retracing the 145th mile.
	Over rolling bench land; gently asc.
28.42	The closing cor. of secs. 11 and 12.
51.00	Top of raise, brs N. and S.; gently desc.
68.45	Position midway bet. the closing cors. of secs. 11 & 12, and point for C.C. of T.44 S.,Rs.4 & 5 E.,heretofore described.

Retracement of the Utah-Arizona State Boundary
and
Establishment of ¼ sec. cors.on S.bdy.of T.44 S.,R.4 E.

Chains

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, for the ¼ cor. of sec. 12 only, with brass cap marked

¼ S12
1917

No accessory mound built.

80.00 The 145th mile cor.

Land, rolling bench.

Soil, loose sandy and sandstone bedrock.

Undergrowth, sparse shadscale, oose greasewood, match-brush and grass.

No timber. Fair grazing.

Latitude, departures and closing errors.

Lines designated	True bearing	Distances	Latitude N	Latitude S	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
U.S.A bdy,140M on S bdy sec 7	East	52.91			52.91	
141st Mile	N89°59'E	80.14	.02		80.14	
142nd mile	N89°58'E	77.64	.05		77.64	
143rd mile	East	80.00			80.00	
144th mile	East	80.07			80.07	
145th mile	S89°59'E	80.00		.02	80.00	
146th mile on S bdy sec 12	S.89°43E	28.48		.14	28.48	
E.bdy T.44S	North	100.29	100.29			
N bdy "	West	478.92				478.92
W bdy "	South	100.02		100.02		
Convergency						.11
	Totals -------		100.36	100.18	479.24	479.03
	Error in lat. -------		100.18 0.18		479.03 0.21	
	Error in dept. ----------					

General Description of T.44 S.,R.4 E.

This township comtains principally rolling sandy bench lands, lying between the Wahweap and Warm creeks. Along the N. bdy. in sec. 3 is a lone sandtone mountain rising about 500 ft. above the bench, known as Castle Rock.

General Description of T. 44 S., R. 4 E.

Warm creek, which flows S. along the east bdy. and empti into the Colarado river near the SE. cor of tp., drains the extreme eastern protion of the tp., has a stream of good water, flowing about 2 sec. ft., which rises near the NE. cor. of tp. It flows through a box canyon about 400 ft. deep, with nearly perpendicular walls.

Wahweap (also know as Sentinel/Rock creek) creek, which is dry, excepting for a very short distance in sec 5, where a small alkali seep springs up in bottom, having a south easterly course, drains the remainder of the tp

The soil is mainly a fine, loose, dry red,and whitish sand, on sandstone bedrock close to the surface, and rocky and some clay. It is covered with a sparse, short undergrowth of shadscale, brigham-tea, oose, match-brush and bunch grass. There is no timber.

The township is only adapted for grazing.

No indications of mineral were found, and there are no settlers in the tp.

A small seep spring was found in gulch in NW. ¼ of sec. 7 this water is fairly good and can be used for drinking purposes.

Water Locations in T. 44 S., R. 4 E.

E. ½ of NE. ¼ and E ½ of SE ¼ of sec. 1.

NE ¼ of NE ¼ of sec. 12.

S. ½ of sec. 5.

N. ½ of NW ¼ of sec. 7.

U.S. Transitman.

Volume
#
R0434

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BOOK A-434

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.	
Frank Romney	Nov. 2, 1917	Nov. 9, 1917	Chainman
Lacell Bird	"	Nov. 13, 1917	"
Wayne Clark	"	Nov. 9 ,1917	"
Richard Huntington	"	Nov. 13,1917	"
Wilfred Williams	"	"	Cornerman
James Stewart	"	Nov.9,1917	Corner & flagman
Frank H. Clark	"	Nov. 13,1917	Flagman

The above assistants were employed in the survey of all lines in T. 44 S., R. 4 E.

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

6—2761

U. S. ~~Surveyor~~
Transitman

CERTIFICATE

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

I, Elliot Bird, U. S. ~~Surveyor~~ Transitman, certify on honor that, in pursua of special instructions received from the U. S. Surveyor General for Utah bearing date of the 1st day of Feb., 1916, I have well, faithfully, and tru 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 all those parts or portions of First Gui Mer. E., or East boundary and subdivision of T. 44 S., R. and retracement of the Utah-Arizona state boundary and establishment o 1/4 sec. cors. on the S. bdy. of T. 44 S., R 4 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented the foregoing field notes as having been executed by me, and under my direction; and date diagram on page 1 on dates shown on said d 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.

Salt Lake City, Utah,
Feb. 2, 1918.

Elliot Bird
U. S. ~~Surveyor.~~ Transitm

~~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, Nov. 26, 1918.

The foregoing field notes of the survey of the First Guide Meridian East or east boundary and the subdivision of Township No. 44 South, Range No. 4 East; and the retracement of the Utah-Arizona state boundary and estab lishment of 1/4 sec. cors. on the S. boundary of Township No. 44 South, Ran No. 4 East of the Salt Lake Base and Meridian, Utah,

executed by Elliot Bird

under his special instructions dated February 1, 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.

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—2764

U. S. Surveyor General.

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BOOK A-434

E.

FIELD NOTES

OF THE SURVEY OF THE

....., SOUTH, and NORTH BOUNDARIES

AND

SUBDIVISIONS OF

T. 43 S., R. 4 E.

AND

EAST BOUNDARY OR FIRST GUIDE MERIDIAN EAST

THROUGH

TOWNSHIP 43 SOUTH, BETWEEN RANGES 4 AND 5 EAST

Of the Salt Lake Base and *Meridian,*

In the State of Utah.

EXECUTED BY

ANDREW NELSON, U.S. Transitman

and

ELLIOT BIRD, U.S. Transitman

In the capacity of U. S. Surveyors, under instructions dated Feb. 1, 1916,

issued by the United States Surveyor General to govern surveys included in Group No. 51, *which were approved by the Commissioner of the General Land Office,* April 4, 1916.

Assignment instructions dated Oct. 1, 1917.

Survey commenced November 1, 1917

Survey completed November 23, 1917

Coordinates (NAD 83)

A Plat F-B-J. Notes H-F-B.

B Computations F-B-J.

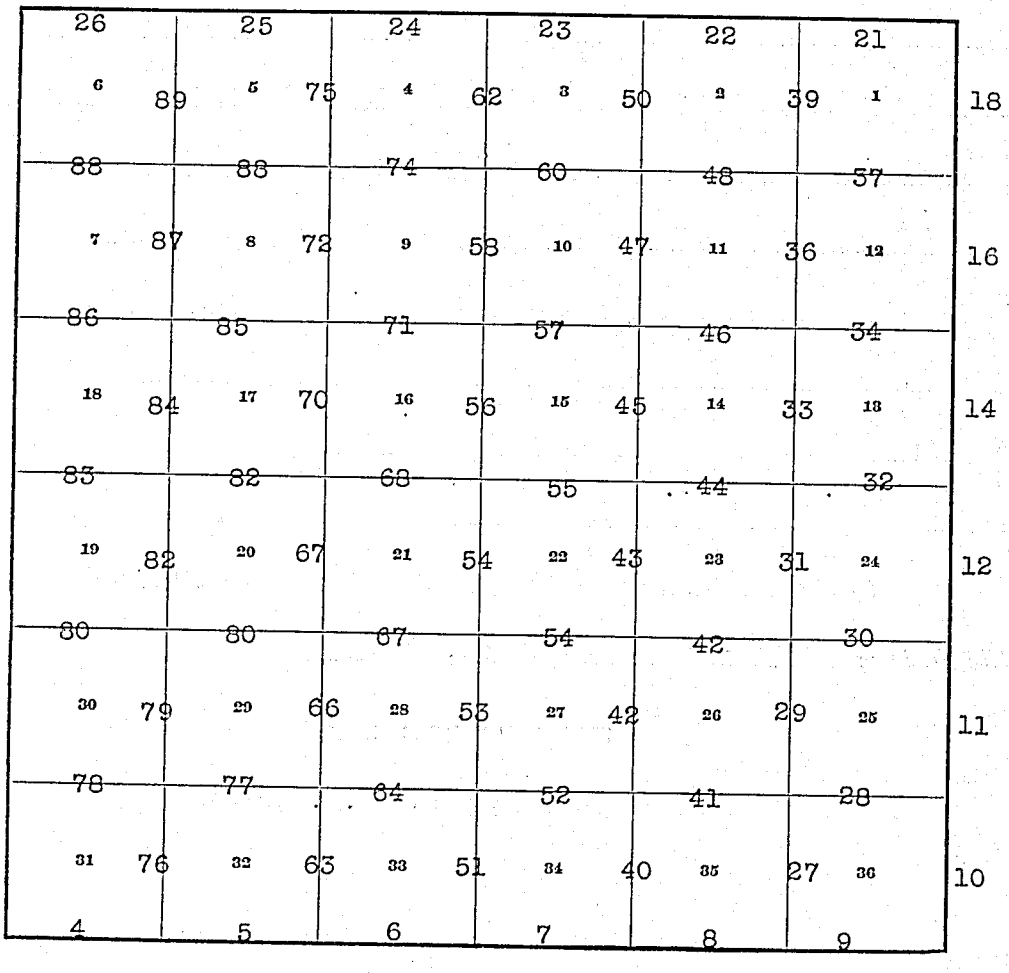
Comparing

C Plat V.I.F. Notes H-F-B.

BOOK A-434

INDEX DIAGRAM.

Township 43 South ; *Range* 4 East



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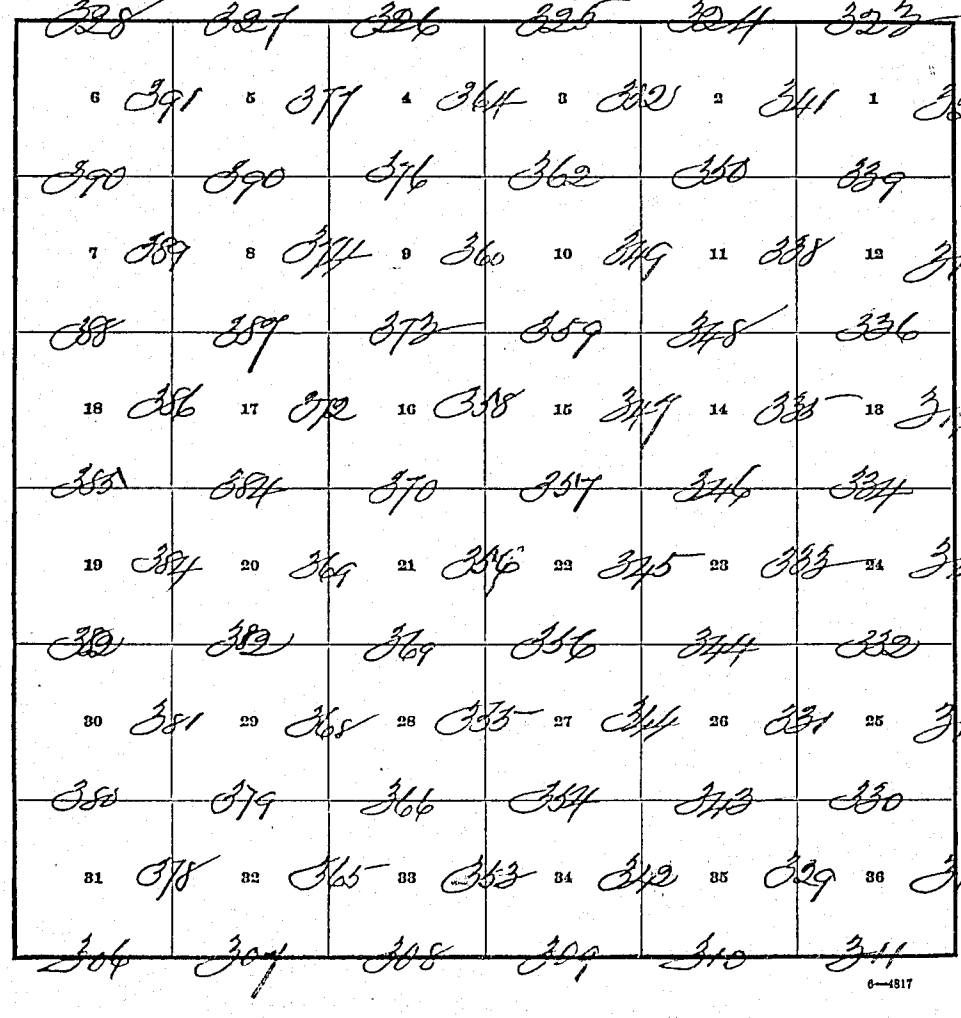
INDEX DIAGRAM.

43

Township 43 S, Range 4 E



6—4817

Date Diagram of T. 43 S., R. 4 E.

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

11-19/17 11-19/17 11-17/17 11-16/17 11-16/17 11-13/17

All lines colored and dated with red ink were surveyed by Andrew Nelson, U. S. Transitman

All lines colored and dated with black ink were surveyed by Elliot Bird, U.S. Tranitman.

Township 43 South, Range 4 East.

Survey commenced November 1, 1917, and executed with Young & Sons light mountain transits Nos. 8589 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 latitude and declination arcs and the vertical circle.

The instruments were approved for use in this survey by the assistant supervisor of surveys for district No. 6, in supplemental assignment instructions dated July 25, and Sept. 5, 1917, conditional upon satisfactory field tests.

I examine the adjustments of the transits, and find them correct, 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:

Nov. 2: At my camp situated, ~~situated~~ near the center of sec. 5, T.44 S.,R.4 E., approximate lat. 37°01' N., long. 111° 35' W., at 9h a.m. apparent time I set off 37°01' on the lat. arc; 14°41'S on the decl. arc; and determine a meridian with the solar (transit No.8589) and find that the W. edge of high rock wall about 1 mile distant bears N. 17° 16' E. At the same time and with the above readings on the arcs of transitNo. 8487, transitman Bird determines a meridian with the solar and finds that the same reference point bears N.17°17'E.

At this station we set off 14° 44'S on the decl. arcs; and at 11h 44m a.m.,l.m.t., observe the sun on the meridian; the resulting lat. is 37° 01' with both instruments, which is the correct latitude of station.

South Boundary of T. 43 S., R. 4 E.

Chains

At 4h p.m. apparent time, we set off 37° 01' on the lat. arc; 14° 46'S on the decl. arcs and determine a meridian with solars and find that the reference point brs. (with transit No. 8589) N.17° 16' E., and with transit No . 8487, N. 17° 17½' E.

Nov. 2, 1917.

Nov. 3: At 4h 40m a.m.,l.m.t., by my watch which carries correct l.m.t., I observe Polaris at western elongation in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg firmly driven in the ground, about 8 chs. N. of my station.

At 8h 0m a.m. apparent time, I lay off the azimuth of Polaris, 1° 25' to the east, and mark the meridian thus determined by a nail in a stake, firmly driven in the ground, 8 chs. N. of the station. From this meridian the reference point bears N. 17° 17' E.

The Polaris observation was made with transit No.8589.

The solar apparatus of transit No. 8589 by a.m. and p.m. observations defines position of meridian which falls 01' to the right of the Polaris meridian. The solar apparatus of transit No. 8487 by a.m. observations position of meridian that agrees with the Polaris meridian and by pm. observation falls 0½' to the left. I conclude that the instruments are in satisfactory adjustment.

The magnetic bearing of the true meridian at 8h30m am. is 15° 30'W,. the angle thus determined gives the mag. decl. 15° 30' E.

The instruments were kept in adjustment during the progress of the survey and were frequently tested on Polaris meridians.

Steel tapes, 5 and 8 chains long, together with clinometers for determining slope angles were used

South Boundary of T. 43 S., R. 4 E.

Chains

by both parties in the field and the reduced horizontal distances only appear in the field notes. The tapes were tested, comparison being made with a standard tape, 1 chain long, kept and used for that purpose.

I begin at the cor. of Ts. 43 & 44 S., Rs. 3 & 4 E., approximate lat. 37° 01'N., long. 111º 35' W., which is an iron post, 3 ins. dia., extending 12 ins. above ground, properly marked and witnessed.

Thence

East, on true line, bet. secs, 6 and 31, along S. bdy. of T. 43 S., R. 4 E.

Over rolling land, slight general slope to the W., through short undergrowth of brigham-tea, match-brush, oose and some bunch grass.

Gently asc.

25.00 Top of ascent, 40 ft. above tp. cor., brs. NE. and SW.

Thence gently desc. E. and SE. slopes.

38.92 Allowing for convergency; on a gentle SE. slope.

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

¼ S31 / S6

1917

Deep, loose sand, pits impracticable.

78.92 On nearly level land, 50 ft. below top at 25 chs.

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

T43S | R4E	
S31	S32
S6	S5

T44S

1917

Deep, loose sand, pits impracticable.

Land, rolling bench; gentle slope and drainage to W.

South Boundary of T. 43 S., R. 4 E.

Chains	
	on W. 25 chs., and to SE. on ramainder.
	Soil, deep, loose, dry sand.
	Undergrowth, short scattering brigham tea, match brush or commonly known as yellow-top, ooze and bunch grass.
	No timber. Fair grazing.

	East, set. secs. 5 and 32.
	Over rolling and broken land, slight general slope to the S., through short undergrowth.
20.40	W. edge of box gulch, with nearly perpendicular sandstone walls, 10- ft. high, brs. N. and S.20°W.; desc.
23.75	Bottom of gulch, 1 ch. wide, 130 ft. deep, course S.20°W. Asc. abruptly, E. wall.
27.50	E. edge of gulch, brs. N. and S. 20°W.
39.00	Small draw, 15 ft. deep, course S.10°W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in mound of stone, 3 ft. base, on bedrock, for the ¼ sec. cor., with brass cap marked ¼ S32 / S5 1917
	No rock available for additional mound to N. of cor.
77.00	True cor. point, East, 3.00 chs., falls in gulch, impracticable to set,; therefore at this point
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound, for W.C. cor. secs. 4, 5, 32 and 33, with brass cap marked W C T43S | R4E S32 | S33 S5 | S4 T44S 1917
79.00	Point for cor. secs. 4, 5, 32, and 33, cor. not set. Deep, loose sand, impracticable to dig pits, and no loose rock for mound of stone.
	Land, rolling and broken bench, exposure and drainage to S. into Wahweap.

South Boundary of T. 43 S., R. 4 E.

Chains

Soil, deep, loose red sand, with some sandstone bedrock. Undergrowth, short scattering greasewood, oose, match-brush and grass.

No timber. Fair grazing.

East, bet. secs. 4 and 33, counting distance from true point for cor.

1.00 Bottom of canyon, 100 ft. deep, course S.30°W.; asc.

4.00 E. side of canyon, brs N.30°E. & S.30°W.; thence over rolling and broken land, facing to S. and SW.

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

$$\frac{1}{4}\ \frac{S33}{S4}\ 1917$$

Deep, loose sand, pits impracticable.

46.05 Impossible to continue further on line, because of high rock wall, 450 ft. high, ahead on line 2 chs. distant; a draw, 50 ft. deep, at foot of ledge, drains S.; therefore offset as follows:

South, 22.46 chs.; draw, drains SW.; then on offset line:

East, 80.00 chs. (counted from sec.cor); thenx

North, 22.46 chs. to true line, where at

80.00 In small depression, drains SW. and approximately 5chs. E. and 7 chs. S. of the sandstone wall.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 5 ft. base, on bedrock, for cor. of secs. 3, 4, 33 and 34, with brass cap marked

T43S | R4E	
S33	S34
S4	S3

T44S
1917

No rock available for additional mound to W. of cor.

W. 48 chs. and E. 5 chs. rolling and low broken bench, having a slight general slope to the SW. into Wahweap;

South Boundary of T. 43 S., R. 4 E.

Chains	
	remainder is an impassable sandstone point, about 500 ft. high, from the NE.
	Soil, loose sand, sandstone bedrock and some reddish clay.
	Undergowth, sparse brigham-tea, oose, match brush and grass.
	No timber. Poor grazing.
	East, bet. secs. 3 and 34.
	Over rolling land, facing to the SW., and low hummocks. Gradually asc. towards base of Castle Rock.
14.30	Trail and dim old wagon road, brs NE. and SW.
26.02	Leave reference flag.
28.00	W. foot of impassable sandstone mountain, known as Castle Rock, 200 to 500 ft. high, bears N. for 15 chs., and S. for 5 chs., thence to SE.; true cor. point, East, 12.00 chs. inaccessible; therefore at this point
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for witness $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S34 / S3 WC 1917
	No rock available for additional mound of stone to N.
	I go back to 26.02 ch. point, thence offset as follows:
	North, 15.70 chs.; thence
	East, on offset line, with continuous measurement.
34.00	Draw, 10 ft. deep, course SW.
40.00	On offset line 15.70 chs. N. of true cor. point. No cor. set.
60.10	Trail or dim old road, brs N.70°W. and S.70°E.
62.00	Offset South, 15.70 chs. to true line; then
	East, on true line, along N. side of Castle Rock.
80.00	On a gentle E. slope, at top of ascent, brs N. and S.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 2, 3, 34 and 35, with brass cap marked

South Boundary of T. 43 S., R. 4 E.

Chains	
	T43S | R4E S34 | S35 S3 | S2 T44S 1917
	Deep, loose sand, pits impracticable.
	Land, rolling bench land, and point of a sandstone mountain, general slope and drainage to SW.
	Soil, deep, loose sandy and sandstone bedrock.
	Undergrowth, short greasewood, oose, march brush and grass.
	No timber. Fair grazing.
	East, bet. secs. 2 and 35.
	Over rolling land, general face to NE., through short undergrowth.
33.90	Draw, 50 ft. deep, course NE.
40.00	On N. slope, 25 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1/4}{S35 \mid S2}$ 1917
	Deep, loose sand, pits impracticable.
51.00	Wash, 15 ft. deep, 1 ch. wide, course N.5°E. for 5 chs., thence to NE.
52.00	Enter dark red sandstone formation and broken land, bears N. and S.
80.00	On an E. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, on bedrock, for the cor. of secs. 1, 2, 35 and 36, with brass cap marked T43S | R4E S35 | S36 S2 | S1 T44S 1917
	Raise a mound of stone 3 ft. base, 1½ ft. high W. of cor.
	Land, rolling and low broken bench land, facing and

South Boundary of T. 43 S., R. 4 E.

Chains	
	draining to NE. into Warm creek.
	Soil, deep, loose sand, sandstone bedrock and gravelly.
	Undergrowth, short scattering shadscale, brigham-tea, oose and grass.
	No timber. Fair grazing.

	East, bet. secs. 1 and 36.
	Over broken bench land, having a general N. slope, into Warm creek.
1.50	Small drain, near head, course N.30°E.
13.00	Top of ascent on N. slope, 45ft. above cor., slopes off to NE.; desc. 90 ft.
19.10	Wash, 20 lks. wide, 3 ft. deep, course NE. for 60 lks., thence N. 10°W.; asc. 80 ft.
28.00	Top of ascent on N. slope, projects NE.; desc. 140 ft. to
40.00	On N. side of small gulch.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 6 ft. base, on bedrock, for the $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S36 / S1 1917
	raise a mound of stone, 3 ft. base, 1½ ft. high, N. of cor.
45.40	Gulch, 60 ft. deep, course N.70°E. ; asc. 90 ft.
59.00	Top of ascent on N. slope, brs NE. and ascends to SW.
76.25	Top of W. side Warm Creek canyon, brs N. and S.; descend over breaks, 60 ft. to
80.00	On steep E. slope among red sandstone ledges, and about 110ft. above Warm creek, 5½ chs. E. of cor.
	Set an iron post, 3 ins. dia., 3 ft. long, 24 ins. in large mound of stone, 7 ft. base, on bedrock, for the cor. of Ts. 43 & 44 S., Rs. 4 & 5 E., with brass cap marked

1st Guide Meridian East, through Tp. 43 S., bet. Rs.4 & 5

Chains

T43S
R4E | R5E
S36 | S31
S1 | S6
T44S
1917

No mound of stone built to S. of cor.

Land, broken bench land, facing and draining to the N. and NE. into Warm creek.

Soil, red sandstone rock, deep, loose sandy and some gravelly.

Undergrowth, short scattered shadscale, brigham-tea, oose and bunch grass.

No timber. Poor grazing.

East Boundary of T. 43 S., R. 4 E.

From the cor. of Ts. 43 & 44 S., Rs. 4 & 5 E.

The line to the N. of cor. follows along Warm creek, and along ledges over which I cannot chain, therefore I offset as follows:

East, 19.60 chs., thence

North, on offset line, 20.00 chs., then

West, 19.60 chs. to true line, thence

North, on true line; approximate topography on true line from cor. as follows.

15.00 Bottom of Warm creek, dry, 2 chs. wide, 250 ft. deep, nearly perpendicular sandstone walls, course S.20°E.

20.00 Top of N. edge of canyon, brs NW. and S.20°E.

Thence over broken bench land, facing to W. and SW., through short scattering undergrowth of shadscale, brigham-tea and bunch grass.

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

$\frac{1}{4}$
S36 | S31
1917

1st Guide Meridian East, through T. 43 S., Rs. 4 & 5 E.

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
50.00	Wash, 60 lks. wide, 10 ft. deep, course SW.
73.30	Thence over a bench 20 ft. higher, brs SW. and SE.
80.00	On nearly level ground.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 5 ft. base, on bedrock, for the cor. secs. 25, 30, 31 and 36, with brass cap marked

T43S
R4E | R5E
S25 | S30
S36 | S31
1917

	No rock available for additional mound of stone to W. of cor., and bedrock too close to surface for pits.
	Land, broken bench, sloping and draining towards Warm creek, on N. 60 chs., and canyon on S. 20 chs.
	Soil, sandstone rock, shale rock, deep, loose red sand; bedrock close to surface.
	Undergrowth, short scattering shadscale, brigham-tea, oose and bunch grass.
	No timber. Fair grazing.

	North, bet. secs. 25 and 30.
	Over low rolling and broken bench land, through short sparse undergrowth.
13.00	Stock trail, bears E. and W.
15.00	Top of slight raise, brs. NE. and SW.; thence gently desc. along W. slope.
27.50	Ravine, at base of descent, 20 ft. deep, near head, drains S.70°W.; gently asc. S. slope.
40.00	On S. slope at foot of small red sandstone break, brs E. and W.
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in ground to bedrock and in a mound of stone, 4 ft. base, for ¼ sec. cor., with brass cap marked

1st Guide Meridian East, through T. 43 S., bet. Rs. 4 & 5 E.

Chains	
	S25 | S30 1917
	No rock available for additional mound of stone, and too rocky for pits.
	Asc. S. slope, 60 ft. to
43.90	Top of ascent on small hill, brs. E. and W.
45.50	Enter white sandstone bedrock, with some loose sand, bears E. and W.; thence over broken rocky land, facing to SW., ascending gently towards base of high rock wall.
78.50	Asc. 20 ft. over white sandstone outcropping, brs E. and W.
80.00	On smooth white sandstone, 300 ft. above sec. cor. to S. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. drilled in the rock, for cor. secs. 19, 24, 25 and 30, with brass cap marked T43S R4E | R5E S24 | S19 S25 | S30 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, low rolling and broken bench, general face and drainage to the SW.
	Soil, gravelly, sandy, with sandstone bedrock and loose sand.
	Undergrowth, short sparse shadscale, match brush, and greasewood and grass.
	No timber. Fair grazing land.
	Note: Tower Butte in Arizona brs. S.47°34'E., and center of small white butte, 50 ft. high, brs. S.63½°W., about 10 chs. distant.
	North, bet. secs. 19 and 24.
	The line to N. of cor. passes over a high rock wall,

1st Guide Meridian East, through T. 43 S., bet. Rs. 4 & 5 E.

Chains.

the base of which is ahead about 20.00 chs. distant, the wall being inaccessible to chain, I triangulate as follows:

I erect flag at sec. cor., then measure a base line West 38.01 chs., leave flag, I now proceed to top of wall, placing transit on line, North of sec. cor., and measure the angle bet. the E. and W. ends of base, finding same to be 57° 39½'; therefore distance is cotan. 57° 39½' x base, or .63320 x 38.01=

24.07 Top of perpendicular sandstone wall, 655 ft. high, bears S. 70° E. 15.00 chs. to point, thence to NE., and S. 70° W. for 25.00 chs., thence to NW.

Note: It required about 4 miles journey to reach this point from the sec. cor. below.

25.00 Top of ascent, 30 ft. above rim, bears same as rim. Thence over high mesa, land gently rolling; soil mostly sandstone bedrock, with loose sand and sandy loam.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in mound of stone 6 ft. base, on bedrock, for the ¼ sec. cor., with brass cap marked

S 24 | ¼ | S 19

1917

No additional mound built.

Note: The rim of mesa bears W. of line about 10 chs. dist.

69.47 Top of same sandstone wall, broken, 500 ft. high, bears N. 70° E. for 7.00 chs., thence to N. 10° W. and SW.; the true point for cor. North 10.53 chs., falls on broken W. face of break and is inaccessible; therefore at this point

Set a black trachyte stone 16 x 12 x 6 ins., in mound of stone, on bedrock, for the witness cor. of secs. 13, 18, 19, and 24, marked with 3 notches on N. and S. edges, and with W C on NW. face.

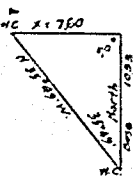
It being impossible to continue North from this witness cor., the line following along the W. face of high

1st Guide Meridian East, through T.43 S., bet. Rs. 4 & 5 E.

Chains.

break, I proceed as follows:

I measure East 8.00 chs., thence North 10.53 chs. to point 80.00 chs. northing bet. secs. 19 and 24, from this point set a flag West, at base of break. I return to witness cor. and find that said flag bears N. 35° 49' W. from the flag the witness cor. on top bears S. 35° 49' E.; therefore compute distance tan. 35° 49' x 10.53 = 7.60 chs.



80.00 Northing, to triangulation point, which is 7.60 chs. west of true cor. point; therefore at this point,

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for witness cor. to cor. of secs. 13, 18, 19, and 24, with brass cap marked

T 43 S
R4E R5E
S13 | S18 WC
S24 | S19
1917

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

Corner situated on a sandy spur, descending to NW., on top of W. edge of gulch at head, drains NW.

Land, gently rolling top of high mesa on 45.40 chs. and abrupt faces of breaks on remainder.

Soil, mostly sandstone bed rock and loose sand.

Undergrowth, sparse shadscale, match brush, and bunch grass

No timber. Good grazing on top of mesa.

From point 7.60 chs. W. of true point for cor. of secs. 13, 18, 19, and 24,

North bet. secs. 13 and 18 on offset line.

Over broken land, W. slope, along base of high ledge break, bearing N. and S. Descend 80 ft.

2/50 Bottom of gulch, course NW. for about 6.00 chs., thence to SW.; ascend 125 ft.

1st Guide Meridian East, through T. 43 S., bet. Rs. 4 & 5 E.

Chains	
11.85	Top of rocky point, brs SE. 3 chs. to base of wall.
16.15	Top of ascent on sandy spur, projects W., and ascends E. 5 chs. to base of wall.; desc.
19.95	Gulch, 115 ft. deep, course W. to SW.; asc.
28.90	Top of sandy ridge, brs. SW. and E.; desc. steep N. and NE. slope, 75 ft.
32.25	Bottom of gulch, course N.20°W. for 8chs., thence W.; thence along steep ledgy W. slope, on E. side of gulch.
40.00	Comes on steep rocky point, impossible to set over, therefore continue to 40.91 chs.
	Thence offset East, 7.60 chs., to true line, thence South, 0.91 chs. to
40.00	True point for cor., on steep rocky N. slope of spur, descending to NW.; the base of high wall, brs SE. 4chs distant; the wall brs. S. and NE.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in large mound of stone, on bedrock amoung boulders, for ¼ sec. cor., with brass cap marked
	¼ S13 | S18 1917
	No additional mound of stone built.
	Thence, North on true line.
	Descend steep N. slope.
47.83	Point for triangulation. The line to north passes over high sandstone wall, over which I cannot chain, and this being the most suitable place to obtain a base; therefore:
	I set a flag on line, North on top of wall, then measure a base line, West, 15.80 chs., to a point whence flag bears N.38° 45'E.; tan. 51°15' x base or 1.24597 x 15.80 = 19.69 chs., which added to 47.83 makes
67.52	To point of triangulation.
	The topography from 47.83 chs. reads approximately

N 38°45' E
51°15'
Base
W - 15.80

1st Guide Meridian East, through T.43 S., Rs.4 & 5 E.

Chains	
57.80	Gulch, 200 ft. below ¼ cor., course W.; asc.
67.52	Top of perpendicular sandstone wall, 400 ft. high, and 600ft. above gulch, bears E. for 3chs., thence SE for 8chs., thence to E., and S.70°W. for 4chs., thence to W. and NW.
	Thence across top of high mesa.
75.10	To edge and rim of same rock wall, 400 ft. high, general bearing NE. to N. and W.; true point for cor., North, 4.90 chs. is inaccessible falling on break; therefore at this point.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 6 ft. base, on bedrock, for the witness cor. of secs. 7, 12, 13 and 18, with brass cap marked
	W.C. T43S R4E | R5E S12 | S7 S13 | S18 1917
	No additional mound of stone built.
80.00	Point for cor. secs. 7, 12, 13, and 18. Cor. not set.
	Land, broken and mountainous along high sandstone break, general drainage to the W.
	Soil, rocky sandstone formation and loose sandy.
	Undergrowth, sparse shadscale, match brush, greasewood and bunch grass.
	No timber. Poor grazing.

	I cannot continue the line, North from the witness cor. for secs. 7, 12, 13 and 18, on account of the high sandstone break or wall, which has a northerly trend, to continue line further I proceed as follows, keeping on top of the mesa.
	From a point 1.90 chs. South of the witness cor. or at 73.20chs. N. bet. secs. 13 & 18.
	Thence, N. 52° 00' E., for 28.70 chs., thence

1st Guide Meridian East, through T.43 S., bet.Rs.4 & 5 E.

Chains

North, for 29.13 chs., to point which is 22.62 chs. E. of point for $\frac{1}{4}$ sec. cor.; leave reference flag.

Thence, West, 19.85 chs. to edge of wall, brs NE. and SW.,

Thence, S.53°24'W., 3.45 chs. to point, South, 2.06chs. distant from true point for $\frac{1}{4}$ cor. o r

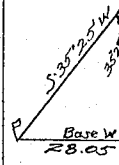
37.94 On true line. The true point for $\frac{1}{4}$ sec. cor., falls on W. face of break and is inaccessible; therefore

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for witness $\frac{1}{4}$ cor. of secs. 7 and 12, with brass cap marked

W C
$\frac{1}{4}$
S12 | S7
1917

No additional mound of stone built.

A flag left 28.05chs W. and 1.51 chs. S. of true point for secs. 7,12,13 and 18, bears S.35°25'W.; cotan. 35°25' x 28.05 gives 39.45 chs., which checks the distance as shown by traverse.



This cor. is situated on W. point of mesa on edge of high sandstone wall, bears NE. and SE. generally.

40.00 Point for $\frac{1}{4}$ sec. cor.; cor. not set.

As line cannot be continued N. from WC $\frac{1}{4}$ cor., I return to the flag left 22.62 chs. E. of true cor. point;

Thence,

North, for 15.42 chs. (or 55.42) to edge and top of same wall, brs N.20°E and SW.; thence

N. 25°00' E., for 11.60 chs.; then

North, for 16.00 chs., to NE bend of wall, brs W. & S.

Then, West, 27.52 chs. to true line; then South, 0.73 chs.

80.00 Point for cor. of secs. 1, 6, 7, and 12; cor. not set.

81.20 Counting from true point for cor. secs. 7,12,13,and 18.

The true point for secs. cor. falls on S. face of break, therefore at this point

Set an iron post, 3ft. long, 2 ins. dia., 24 ins. in mound of stone, 5 ft. base, on bedrock, for the witness

1st Guide Meridian East, through T.43 S., bet. Rs. 4 & 5 E.

Chains	
	cor. of secs. 1, 6, 7 and 12, with brass cap marked
	T43S R4E | R5E S1 | S6 S12 | S7 W C 1917
	No rock available for additional mound of stone to W.
	The flag as noted from the ¼ sec. cor., bears S.18°44'W. cotan. 18°44' x 28.05 = 82.71 chs., this checks with the traverse line.
	Land, high broken face of sandstone break on line, 400 to 600 ft. high; drainage to W. and SW.
	Soil, mostly sandstone bedrock, with some sandy loam.
	Undergrowth, sparse shadscale, match brush and bunch grass.
	No timber. Good grazing on top of mesa.

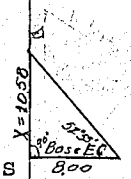
	North, bet. secs. 1 and 6, counting distance from true cor. point.
	Over rolling top of mesa; gently asc. S. slope.
1.20	Witness cor. to cor. of secs. 1, 6, 7, and 12.
23.40	Top of ascent, 30 ft. above cor., brs N.70°E & S.70°W.
	Gradually descend N. slope 50 ft.
39.00	Near S. rim of gulch, brs N.70°E and S.70°W; true point for ¼ cor. falls on S. edge of gulch cannot be set. therefore at this point
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in ground, and in a mound of stone, on bedrock, for the witness ¼ sec. cor. of secs. 1 and 6, with brass cap marked
	W C ¼ S1 | S6 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
40.00	Point for ¼ sec. cor.; cor. not set.
	Being unable to chain across the gulch, I triangulate from W.C. ¼.

321

1st Guide Meridian East, through T. 43 S., bet. Rs. 4 & 5 E.

Chains

Set a flag on line on N. side of gulch, then measure a base line East, 8.00 chs., whence flag subtends an angle of 52°55'; therefore tan. 52°55' x base or 1.32304 x 8.00 = 10.58 chs., which added to 39.00 gives



49.58 N. side of gulch, 200ft deep, with nearly perpendicular sides, drains S.70° W., and heads about 12 chs. E. of line.; thence along gently W. slope.

72.30 Wash, 20 lks. wide, 5 ft. deep, course SW.; gently asc.

90.00 On gentle S. slope.

Set an iron post, 3ft. long, 3 ins. dia., 24 ins. in ground, for cor. of Ts. 42 & 43 S., Rs. 4 & 5 E., with brass cap marked

T42S
R4E | R5E
S36 | S31

S1 | S6
T43S
1917

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

Land, rolling top of mesa, general drainage to SW.

Soil, sandy and gravelly loam, with scattered sandstone bedrock and some stony.

Undergrowth, short match-brush, sage, oose and bunch grass.

No timber. Good grazing land.

North Boundary of T. 43 S., R. 4 E.

From the cor. of Ts. 42 and 43 S., Rs. 4 and 5 E.

Thence,

West on a random line, along N. bdy. of T. 43 S., R. 4 E., setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs.

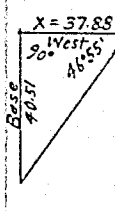
178.86 Top of ledge, cannot chain further; triangulate as follows:

Set flag on line at base, then measure base line, North,

Chains	
	4.60 chs., whence flag bears S.60°12'W.; therefore distance is tan. 60°12' x base or 1.74610 x 4.60 = 8.03 chs., which added to 178.86 chs. makes
186.89	To triangulation point.
219.58	Base of ledge, up which I cannot chain, therefore triangulate as follows: Set flag on line at top of ledge, then measure a base line, South, 10.90 chs., whence flag subtends an angle of 30°32'; therefore tan. .58983 x 10.90 = 6.43 chs., which added to 219.58 makes
226.01	To triangulation point.
229.21	Top of ledge, over which I cannot chain; triangulate: Set flag on line to W., and leave flag at this point; then from W. flag measure a base line, South, 8.00 chs. whence flag on top subtends an angle of 49°58'; distance is tan. 1.19035 x 8.00 = 9.52 chs., which added to 229.21 makes
238.73	To triangulation point.
264.50	Rock wall ahead, up which I cannot chain; triangulate. Set flag on line to W. on top of ledge; then measure a base line, North, 12.50chs., whence flag bears S.33° 02'W.; from flag on top, I measure the angle bet. N. and S. ends of base, and find same to be 56°58'; distance is cotan. 56°58' x base or .65024 x 12.50 = 8.13 chs., which added to 264.50 makes
272.63	To triangulation point.
400.00	High break of mountain ahead, up which it is impossible to chain, triangulate as follows: Set flag on line to W. on top of spur; then measure a base line, South, 40.00 chs., whence flag subtends an angle of 44°25'; therefore distance is tan. 44°25 x base or .97984 x 40.00 = 39.19 chs., which added to 400.00 makes
439.19	To triangulation point.

North Boundary of T. 43 S., R. 4 E.

Chains	
440.47	Impracticable to chain further on account of broken ledges on steep face of break of mountain; therefore triangulate as follows:
	Set a flag on line to W. 42 lks. S. of tp. cor.; then measure the angle bet. flag and the ¼ cor. bet. secs. 1 and 6 on W. bdy., which is 40.93 chs. S. of tp. cor., which I find to be 46° 55'; therefore distance is cotan. 46°55' x base or .93524 x 40.51chs. = 37.88chs., which added to 440.47 makes
478.35	Intersect W. bdy. of the tp., 42 lks. S. of the cor. Ts. 42 and 43 S., Rs. 3 and 4 E., which is an iron post, 3 ins. dia., properly set, marked and witnessed.
	The falling answers to a correction of 0°03', or 7 lks. N. per mile, counting from the NE. cor of tp.;
	I return to the NE. cor. of tp., thence
	N. 89° 57' W., on true line, bet. secs. 1 and 36.
	Over rolling top of mesa land, through short undergrowth of match-brush, shadscale, brigham-tea and grass.
	Gently ascending along gentle SE. slope.
19.00	Cross head of small draw, course SW.
32.00	Top of ascent, 35 ft. above tp. cor., bears N.60°E. and S.60°W.; thence over land, having a slight W. exposure.
40.00	On a gentle NW. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S36 / S1 1917
	raise a small mound of stone, N. of cor.
64.00	Ravine, 10 ft. deep, at bend from NE. to NW.
73.70	Recross same ravine, course SW.
80.00	On a stony point bet. two ravines.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 5 ft. base, on bedrock, for cor. of



North Boundary of T. 43 S., R. 4 E.

Chains	
	secs. 1, 2, 35 and 36, with br rass cap marked
	T42S | R4E S35 | S36 S2 | S1 T43S 1917
	No additional mound of stone built.
	Land, rolling mesa, general drainage to SW.
	Soil, deep, loose, dry sandy, mixed with gravel and scattered saadstone bedrock outcroppings.
	Undergrowth, short match-brush, shadscale, brigham-tea, and bunch grass.
	No timber. Good grazing.

	N. 89° 57' W. bet. secs. 2 and 35.
	Over rolling land, slight slope to the S.
	Gradually desc. 35 ft.
11.70	Bottom, of ravine, course SW.; asc.
19.70	Top of low sandstone rim, and W. side of ravine, 40 ft. above same, brs NE. and SW.
40.00	On top of gentle ascent, brs NE. and SW.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S35 S2. 1917
	Deep, loose sandy, pits impracticable.
	Gently desc. land, facing NW.
71.90	Head of small drain, course N. 30° W.
80.00	On gentle N. slope, 50 ft. below ¼ cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in ground to bedrock, and in mound of stone, 4 ft. base, for cor. of secs. 2, 3, 34 and 35, with brass cap marked
	T42S | R4E S34 | S35 S3 | S2 T43S 1917

North Boundary of T. 43 S., R. 4 E.

Chains	
	No available rock for additional mound of stone.
	Land, rolling mesa top; general exposure and drainage to S. on E ½ mile, and to NW. on remainder.
	Soil, deep, loose sandy, with outcroppings of sandstone bedrock; bedrock subsoil.
	Undergrowth, short, shadscale, brigham-tea and bunch grass.
	No timber. Good grazing.

	N. 89° 57' W., bet. secs. 3 and 34.
	Over rolling and broken top of mesa.
	Gently descend NW. slope.
13.80	Sandstone rim rock, 20 ft. high, brs NE. and SW.; desc.
18.86	To point of triangulation, and top of sandstone wall, forming E. side of canyon, brs N. for 4½ chs., thence W. for about 8 chs., then to NE., and SW.; desc. abruptly W. face.
26.89	To flag in bottom, 325 ft. below top, brs NW and SW; thence along cove of bottom canyon.
40.00	On small gravelly hill, 15 ft. high, in canyon bottom. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S34 / S3 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Continue in bottom of canyon
50.50	Wash in bottom, 20 lks. wide, 5 ft. deep, course SW.
59.58	To point of triangulation, and base of sandstone ledge W. side of canyon, 366ft. high, brs N.E. and SW.
	Ascend apruptly over wall of canyon.
66.01	To flag and top of wall, brs N.70°E and SW.; thence across top of point, projecting S.30°W for 10 chs.

North Boundary of T. 43 S., R. 4 E.

Chains	
69.21	To point of triangulation and top of sandstone wall on E. side of Canyon, brs N.30°W and S.20°W; descend over W. face.
76.00	Dry channel of Warm creek, 80 lks. wide, 360 ft. below top of wall, course S., from N.80°W.
78.73	To flag.
80.00	In canyon bottom, 20 ft. above bed. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 3, 4, 33 and 34, with brass cap marked T42S | R4E S33 | S34 S4 | S3 T43S 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	E. 18 chs. top of rolling mesa; remainder of mile is canyon walls and bottoms; general drainage to SW & S.
	Soil, sandstone bedrock and loose sandy, with some clay along canyons.
	Undergrowth, sparse shadscale, brigham-tea and bunch grass.
	No timber. Too rough for grazing.
	N. 89° 57' W., bet. secs. 4 and 33.
	Along bottom of Warm Creek canyon, on S. side of channel.
13.10	Cross dry channel, 80 lks. wide, course N.80°E.
25.50	Thence by triangulation.
26.50	Re-cross dry channel of Warm creek, course SE.
30.00	Base of ledge, brs N.20°W and SE.; asc. over E. face.
32.63	To flag and top of ledge and W. side of canyon, 270 ft. above creek, brs N.20°W and S.60°E.; thence over low broken bench land, slight slope to the N.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for the ¼ cor.,

North Boundary of T. 43 S., R. 4 E.

Chains	
	with brass cap marked $\frac{1}{4}$ S33 / S4 1917
	No rock available for additional mound.
61.45	Head of small wash, course NE.
68.40	Top of sandstone outcropping, 25 ft. high, brs. NE & SW.
80.00	In depression, S. edge of wash, drains N.70°E.
	Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in ground, to bedrock, and in a mound of stone, for cor. secs. 4, 5, 32 and 33, with brass cap marked. T42S | R4E S32 | S33 S5 | S4 T43S 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	E. 32 chs. along bottom of Warm creek and canyon wall; remainder low broken top of bench, with slight exposure to N. and NE.
	Soil, mostly sandstone bedrock, with loose, dry sand,
	Undergrowth, short sparse shadscale, greasewood and some bunch grass.
	No timber. Fair grazing land.
	N. 89° 57' W., bet. secs. 5 and 32.
	Over broken bench land; asc.
0.30	Small wash, 10 lks. wide, 1 dt. deep, course N.80°E.
5.00	Enter blue clay formation, brs NE and SE.
8.60	Top of higher bench, 65 ft. above cor., brs NE and SE. thence over smooth top of blue clay bench.
40.00	At E. edge of broken land, at foot of high break, brs NE. and SW.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ½ sec. cor., with brass cap marked

North Boundary of Tr. 43, S5, R. 4 E.

Chains	
	$\frac{1}{4}$ S32 / S5 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Thence over rough broken clay hills, along S. foot of high break; asc.
53.15	Top of ascent on S. slope and top of clay butte, 110ft. above ¼ cor., butte extends NW. 50 lks. and SE. 1½chs.
	Descend
73.50	Draw, 25 ft. deep, course S.
80.00	On top of small raise.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 5, 6, 31 and 32, with brass cap marked
	T42S | R4E S31 | S32 S6 | S5 T43S 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and broken bench land; slight exposure and drainage to E. on the E. 53 chs., and to S. on remainder.
	Soil, deep, loose blue clay, with scattered outcroppings of shale rock and sandstone; practically devoid of vegetation.
	No timber. No grazing.
	N. 89° 57' W., bet. secs. 6 and 31.
	By triangulation; approximate topography reads as follows:
	Over rough broken clay hills along base on mountain; ascending.
20.00	Base of mountain, brs NE. and SW.; asc. abruptly over E. face over broken ledges.
39.19	To top of high spur, 1065 ft. above cor., projects S.

North Boundary of T. 43 S., R. 4 E.

Chains	
	about 10 chs. to point.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, for ¼ sec. cor., with brass cap marked ¼ S31 / S6 1917 raise a mound of stone, 3 ft. base, 2ft. high, N. of cor.
40.47	Thence by triangulation; approximate topography as follows:
	Descending along steep rocky, broken face of break.
53.00	Thence more abrupt descent.
78.35	800 ft. below ¼ cor.
	The cor. of Tps. 42 and 43 S., Rs. 3 and 4 E.
	Land, high rough mountainous, general S. face.
	Soil, rocky and blue clay, mixed with some sandy and gravelly loams.
	Undergrowth, sparse short shadscale and greasewood.
	No timber. No grazing.

Subdivision of T. 43 S., R. 4 E.

	From the cor. of secs. 1, 2, 35 and 36 on S. bdy. of tp., heretofore described.
	Thence.
	N. 0° 01' W., bet. secs. 35 and 36.
	Over broken land, breaks of Warm creek.
6.60	Desc. N. slope.
11.40	Gulch, 70 ft. deep, course NE.; asc
19.90	Top of red sandstone knoll, 2 chs. diam. on line; desc.
25.90	Gulch, 75 ft. deep, course N. 60°E.
35.70	Dry channel of Warm creek, 1 ch. wide, course E. for 5chs thence SE.; asc. 60 ft.
35.70	Top of ledges on N. side of creek, brs E. and W.; asc.

Subdivision of T. 43 S., R. 4 E.

Chains	
40.00	On a SW. slope at top of ascent, 140 ft. above creek. Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in ground to bedrock, and in a mound of stone, for the ¼ sec. cor., with brass cap marked ¼ S35 | S36 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Desc. 75 ft.
46.50	Recross dry channel of warm creek, 1 ch. wide, course SW.; thence along rocky W. side of same.
62.80	Top of ascent on E. slope, 50 ft. above creek bed. Gradually desc.
74.50	Recross creek bed, 1 ch. wide, course S.20°E.; asc. along E. side, 50 ft. to
80.00	On steep rocky W. slope. Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in ground to rock, and in a mound of stone, for cor. of secs. 25, 26, 35 and 36, with brass cap marked T43S | R4E S26 | S25 S35 | S36 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rough, broken, along warm creek, which drains S.
	Soil, rocky of red sandstone formation, with loose sand and clay; subsoil rock.
	Undergrowth, sparse shadscale, greasewood, brigham-tea, goose and some bunch grass.
	No timber. Fair grazing.

	East, on random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of tp., 9 lks. S. of the cor. secs.

Subdivision of T. 43 S., R. 4 E.

Chains	
	25, 30, 31 and 36.
	Thence
	S. 89° 56' W., on true line, bet. secs. 25 and 36.
	Over rolling and low broken bench land, through short undergrowth of shadscale, brigham-tea and greasewood.
40.00	On a gentle N. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground and in mound of stone, on bedrock, for ¼ cor. with brass cap marked
	S25 / ¼ / S36 / 1917
	No rock available for additional mound.
50.00	E. edge of gulch, brs NE. and SW.; desc. 80 ft.
54.80	Bottom of gulch, course S.70°W.; asc. along S. slope.
68.70	Top of ascent, 85 ft. above gulch, brs N.70°E and SW. thence along gentle S. slope.
77.00	Desc. SW. slope, 30 ft. to
80.00	The cor. of secs. 25, 26, 35 and 36.
	Land, rolling and low broken bench; drainage to SW.
	Soil, loose red sand, on sandstone bedrock, close to surface, and some clay.
	Undergrowhh, short sparse shadscale, brigham-tea, greasewood and some bunch grass.
	No timber. Fair grazing land.

	N. 0° 01' W., bet. secs. 25 and 26.
	Over low broken land; dark red sandstone formation.
	Along rokky W. slope on E. sid e of Warm creek.
9.50	Gulch, 40 ft. deep, course SW. to Warm creek; asc.
21.20	Wash, 1 ch. wide, 12 ft. deep, course S.70°W.
22.30	Stock trail, brs. E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked

Chains	
	1/4 S26 | S25 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
53.50	A round sandstone pillar, 20 ft. high, brs W. of line 70 lks. distant.
54.00	Leave red, enter white sandstone formation, brs NE & SW.
80.00	On S. edge of small wash, 20 lks. wide, 1 ft. d, course S. 70° W. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 23, 24, 25 and 26, with brass cap marked T43S | R4E S23 | S24 S26 | S25 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, low broken, and rolling bench, draining to SW and W.: soil, red sandstone, clay and some sandy; subsoil, sandstone bedrock. Undergrowth, sparse shadscale, brighamtea, greasewood and bunch grass. No timber. Poor grazing.
	N. 89° 56' E., on random line, bet. secs. 24 and 25. To avoid a sandstone butte, over which I cannot chain, ahead on line, I offset as follows: North, 5.48 chs., then N. 89° 56' E., on offset line. to
35.00	Offset back South, 5.48 chs., then N. 89° 56' E. on true random line.
40.00	Set temp. ¼ sec. cor.
80.05	Intersect E. bdy. of tp., 7 lks. N. of the cor. secs.

Subdivision of T. 43 S., R. 4 E.

Chains	
	19, 24, 25 and 30, heretofore described.
	Thence
	S. 89°59' W., on true line, bet. secs. 24 and 25.
	Over broken land, sloping to the W.; desc. over sandstone bedrock, 20 ft. to
2.00	Base of bedrock, brs SE. and NW.
34.00	Base of mass of sandstone rock outcropping, brs N & SW.
38.01	Top of same, 50 ft. above base, top extends N. 50 lks. and brs. to SW.; desc.
40.02½	On W. slope, barren sandstone bedrock.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. drilled in the rock, for ¼ sec. cor., with brass cap marked
	¼ S24 / S25 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
42.00	W. base of sand rock, 50 ft. below cor., brs NE & SW.
45.05	Offset North, 5.48 chs., then
	S.89°59'W., on offset line.
55.25	A sandstone butte, 100 ft. high, brs. S. on line, 5 chs. distant.
73.15	Head of gulch, 10 ft. deep, course SW.
80.05	Thence, South, 5.48 chs. to the cor. of secs. 23, 24, 25 and 26.
	Land, broken and rolling, sloping to the W.
	Soil, mostly sandstone bedrock, with loose sand.
	Undergrowth, sparse short shadscale, brigham-tea, greasewood and bunch grass.
	No timber. Poor grazing.
	N. 0° 01' W., bet. secs. 23 and 24.
	Over broken land, sloping to the W.; asc.
23.00	Low spur, 60 ft. above cor., projects W.
37.00	Gulch, 50 ft. deep, perpendicular sandstone walls,

Subdivision of T. 43 S., R. 4 E.

Chains	
	course W., heads S.70°E. 3 chs.
40.00	On S. slope, barren sandstone bedrock. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. drille in the rock, for ¼ sec. cor., with brass cap marked ¼ S23 | S24 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
41.75	Top of narrow spur, bet. gulches, projects W.; desc.
43.70	Box gulch, 2 chs. wide, 50 ft. deep, course W.
63.70	Box gulch, 1½ chs. wide, 50 ft. deep, course W.
68.20	Top of sandstone spur, 150 ft. above last gulch, projects W.; desc. 60 ft. to
80.00	On gentle W. slope, barren sandstone rock. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. drilled in the rock, for cor. secs, 13, 14, 23 and 24, with brass cap marked T43S | R4E S14 | S13 S23 | S24 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rough broken bench, sloping and draining to W.
	Soil, mostly sandstone bedrock, with loose sand.
	Undergrowth, very scattered shadscale and greasewood.
	No timber. No grazing.
	N. 89° 59' E., on random line, bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
72.43	Intersect N. and S. line, 2 lks. N. of the witness cor. secs. 13, 18, 19 and 24, which is 7.60chs W. of true point; therefore distance of mile is 80.03 chs.
	Thence

Subdivision of T. 43 S., R. 4 E.

Chains	
	West, on true line, bet. secs. 13 and 24, counting distance from true point.
	Over rough broken land; desc. W. slope.
33.05	Bottom of gully, 235 ft. below cor., course SW.; this gully boxes to a depth of 150 ft. with perpendicular walls, and 30 lks. wide, about 5 chs. below line.
	Asc. abruptly E. slope.
38.00	Thence gently asc. along S. slope.
40.01½	On S. slope, 65 ft. above gully.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S13 / S24 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
45.30	Top of ascent and flat ridge, brs NE. and SW.
	Gently desc. on W. slope.
71.00	Enter sandstone bedrock, brs N. and S.
80.03	The cor. of secs. 13, 14, 23 and 24, 180 ft. below ridge.
	Land, rough broken on E. ½ mile, and rolling on remaining portion; general face and drainage to SW.
	Soil, sandstone bedrock and loose sandy.
	Undergrowth, sage, shadscale, oose and grass.
	No timber. Fair grazing.

	N. 0° 01' W., bet. secs. 13 and 14.
	Over broken bench land, having a slight slope to the W. Gentlycasc.
18.45	Top of ascent, 70 ft. above cor., brs E. and W.; desc.
28.40	Small draw, 35 ft. below top of ascent, course W.
	Ascend 20 ft.
33.40	Top of raise, brs S.75°W and E.; desc. 40 ft.
38.30	Wash, 20 lks. wide, 5 ft. deep, drains NW. for 1ch., thence SW.; asc. 10 ft. to

Subdivision of T. 43 S., R. 4 E.

Chains	
40.00	On small raise bet. washes. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ | S14 | S13 | 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
41.10	Small wash, 10 lks. wide, 5 ft. deep, course W.
66.30	Box gulch, 80 ft. deep, 2 chs. wide, course NW. for 2 chs., thence general W. course; asc.
80.00	On rocky gentle SE. slope. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, on bedrock, for cor. of secs. 11-12-13-14, with brass cap marked T43S | R4E / S11 | S12 / S14 | S13 / 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, broken bench, having a general slight slope to W; drainage to W.

Soil, mostly sandstone bedrock, wth loose sand.

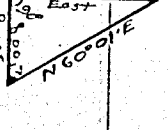
Undergrowth, sparse sage, match brush, oose, brigham-tea and bunch grass.

No timber. Good grazing.

East, on a ramdom line, bet. secs. 12 and 13.

38.10 Base sandstone break, up which I cannot chain, and being unable to set a flag to E. of here, I proceed as follows: Leave temp. Corn't at this point, then

Offset South, 1.53 chs.; from this pomnt I set flag, East, on top of break; then measure a base line, South, 8.00 chs., whence flag on top bears N.60°01'E.,



Chains	
	therfore distance is tan. 60°01' x base or 1.73321 x 8.00 chs. = 13.87 chs., which added to 38.10 makes
51.97	To flag on top; being unable to continue east from this point because of ledge, I offset
	South, 0.99 chs.; then
	East, for 11.88 chs., then
	South, 2.40 chs., then
	East, for 16.17 chs., where at
80.02	Intersect E. bdy of Tp. 2 lks. S. of witness cor. of secs. 7, 12, 13 and 18, which is 4.90 chs. south of true point. My total offsets to the south equal 4.92 chs.
	Thence by offsets
	S. 89°59' W., on true line, bet. secs. 12 and 13.
	Along top of narrow neck of high mesa.
16.17	To edge of wall, brs NW. and SE.; then
	North, 2.40 chs. to N. edge of top, brs. nearly E. and W.
	S.89°59'W. to
28.05	To edge of wall, thence
	North, 0.99 chs.
28.05	NW. point of high mesa and top of sandstone break, bears S. 70° E., and nearly E.; a sharp rock spur takes off to the NW.; thence by triangulation.
41.92	To flag at bottom, 550 ft. below top; thence
	North, 1.51 chs. to true line.
	At base of rock spur, brs NW. and SE.
	True point for ¼ cor., East, 1.91 chs., falls on face of break and is inaccessible; therefore at this point
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for witness ¼ cor., with brass cap marked
	¼ S12 / S13 1917 WC
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Subdivision of T. 43 S., R. 4 E.

Chains

Thence over broken and rolling bench land.

Gently desc.

60.40 Box canyon, 80 ft. deep, course SW.; gently asc.

80.02 The cor. of secs. 11, 12, 13 and 14, 150ft. below ¼ cor. E. 28 chs. top of high mesa; W. ½ mile is broken bench. remainder is general W. face of high break; drainage on mile to W.

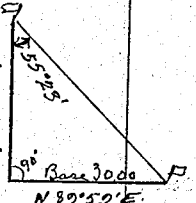
Soil, loose sandy and sandstone bedrock.

Undergrowth, sparse brigham-tea, match brush, oose and bunch grass.

No timber. Fair grazing.

N. 0° 01'. W., bet. secs. 11 and 12.

The line to N. of cor. passes over high sandstone break, up which I cannot chain, I proceed to triangulate as follows:



I set a flag on line at top of break; then measure a base line, N.89°59'E., 30.00 chs., whence flag subtends an angle of 34°37'. I now go to flag on top and observe the angle bet. E. and W. ends of base and find same to be 55°23'; therefore, distance is cotan. 55°23' x base or .69028 x 30.00 chs =

20.71 To triangulation point, and top of sandstone break, 745 ft. above sec. cor., bears N.60°E. and S.60°W.

Thence over rolling top of mesa.

40.00 On a gentle N. slope.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, 6 ft. base, for the ¼ sec. cor., with brass cap marked

¼

S11 | S12

1917

No rock available for additional mound of stone.

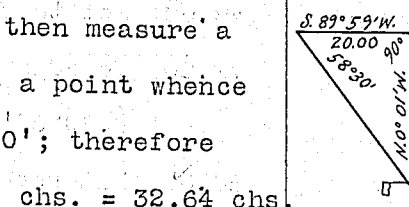
45.92 Edge of mesa and top of sandstone break; brs NE. and SW.

Subdivision of T. 43 S., R. 4 E.

Chains

over which I cannot chain; therefore triangulate.

Set a flag on line at bottom, and leave flag at this point; then proceed to flag at base, then measure a base line, S.89°59'W., 20.00 chs., to a point whence flag on top subtends an angle of 58°30'; therefore tan. 58°30' x base or 1.63185 x 20.00 chs. = 32.64 chs. which added to 45.92 gives



78.56 To point of triangulation, 580 ft. below top., the base of break which is S. about 10 chs. distant, brs NE. and SW.

79.50 Wash, 20 lks. wide, 3 ft. deep, in bottom of hollow, course SW.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 1, 2, 11 and 12, with brass cap marked

T43S | R4E	
S2	S1
S11	S12

1917

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

Land, high broken faces of sandstone breaks and some rolling; drainage to SW. and W.

Soil, loose sandy and sandstone bedrock.

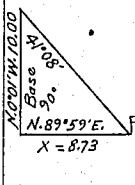
Undergrowth, sparse shadscale, brigham-tea, match-brush and bunch grass.

No timber. Fair grazing on top of mesa.

N. 89° 59' E., on random line, bet. secs. 1 and 12.

20.00 Base of sandstone break, up which I cannot chain; is therefore triangulate as follows:

Set a flag on line at top of same; then measure a base line, N. 0°01'W., 10.00 chs., to a point whence flag subtends an angle of 41° 08'; therefore tan. 41°08' or .87338 x 10.00 = 8.73 chs., which



Subdivision of T. 43 S., R. 4 E.

Chains	
	added to 20.00 chs. make
28.73	To triangulation point.
40.00	Set temp ¼ sec. cor.
72.00	To edge of canyon; offset North, 1.20 chs., thence N.89°59'E. on offset line.
80.00	Intersect E. bdy. of tp., 7 lks. N. of the witness cor. of secs, 1, 6, 7 and 12, which is 1.20 chs. N. of true cor. point.
	Thence
	N. 89° 58' W., on offset line, 1.20 chs. N. of true cor. point
	Over rolling top of high mesa, through short undergrowth of sage, brigham tea, match brush and bunch grass.
8.00	Along N. rim of canyon.
8.00	Thence, South, 1.20 chs. to true line; then N.89°58'W. on true line, bet secs. 1 and 12.
17.00	Top of ascent, 25 ft. above cor., brs NE and SW. thence gently desc. W. slope.
40.00	On a gentle W. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S1 / S12 / 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
51.27	To triangulation point; top of high sandstone wall and E. rim of hollow, bears NE. and SW.; desc. abruptly W. face.
60.00	Base of same, 550 ft. below top, brs same.
	Gently desc. across hollow.
79.50	Wash, 20 lks. wide, 3 ft. deep, course SW.
80.00	The cor. of secs. 1, 2, 11 and 12.
	E. 51 chs. rolling top of high mesa; remainder E. wall and bottom of hollow; drainage to SW.
	Soil, loose sandy and sandstone bedrock.

Subdivision of T. 43 S., R. 4 E.

Chains	
	Undergrowth, sparse sage, brigham-tea, match-brush and bunch grass.
	No timber. Fair grazing.
	N. 0°01' W., on random line, bet. secs. 1 and 2.
	The line to north of cor. passes over high canyon wall up which I cannot chain; therefore triangulate as follows:
	Set flag on line at top to N.; I erect flag at the cor. secs. 1,2,11 and 12 and also one on line bet. secs. 1 and 12, 20.00 S.89°59'E. I now go to flag on top of wall, and observe the angle bet. E. and W. ends of base, finding same to be 40° 11'; the third computed angle is 49°47'.
	Log. 20.00 chs. ---------- 1.301030 Log sin 49°47' ----------9.882871 Colog sin 40°11' ---------- 0.190282 Log 1.374183 =
23.67	To triangulation point.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. bdy. of tp., 16 lks. W. of the cor. secs. 1,2,35 and 36, heretofore described.
	Thence
	S. 0° 06' W., on true line, bet. secs. 1 and 2.
	Over rolling top of mesa, through short undergrowth.
4.20	Ravine, 30 ft. deep, course S.70°W.
8.00	Low sandstone, ledge, 10 ft. high, brs NE. and SW.
39.98	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked S2 | S1 1917
	Loose blowing sand, pits impracticable, and no rock available.
56.31	Top of sandstone wall and N. rim of hollow, brs NE. and SW.

Subdivision of T. 43 S., R. 4 E.

Chains	
	thence by triangulation.
	Desc. abruptly S. face of break.
75.00	Base of same, 550 ft. below top, brs. NW. and SE.; thence across hollow.
79.98	The cor. of secs. 1, 2, 11 and 12.
	Land, mostly rolling top of mesa: S. 23 chs. rough sandstone break, S. face and bottom of hollow.
	Soil, loose sandy and sandstone bedrock.
	Undergrowth, sparse shadscale, brigham-tea, match brush, and bunch grass.
	No timber. Fair grazing.
	From the cor. of secs. 2, 3, 34 and 35 on S. bdy. of tp., heretofore described.
	Thence
	N. 0° 01' W., bet. secs. 34 and 35.
	Over rolling sandy bench land, through short undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$

S34 | S35

1917

	Deep loose sand, pits impracticable.
80.00	On gentle N. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 26, 27, 34 and 35, with brass cap marked

T43S | R4E

S27 | S26

S34 | S35

1917

	dig pits, 18x18x12 ins. in each sec. 5½ ft. dist.
	Land, rolling bench, slight slope and drainage to E.
	Soil, deep, loose, dry sandy; subsoil on portion sandstone bedrock.

Subdivision of T. 43 S., R. 4 E.

Chains	
	Undergrowth, short, scattering shadscale, greasewood, oose and bunch grass.
	No timber. Fair grazing.

	East, on random line, bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 2 lks S. of the cor. secs. 25,26,35 and 36.
	Thence
	S. 89° 59' W., on true line, bet. secs. 26 and 35.
	Over broken land, along Warm creek.
	Desc. W. slope, 50 ft. to
2.00	Dry channel of Warm creek, 1 ch. wide, course S.10°E.
6.90	Low rocky point, 35 ft. above creek, ascends to S.30°W.
8.50	Recross channel of Warm creek, course NE.; asc.
12.75	Low spur, 50 ft. above creek, projects S.; desc
14.00	The SE cor. of stone corral on line, about 100ft. long N & S., and 50 ft. wide, E. and W.
22.75	Small seep, 3 lks. wide, 2 ins. deep, water contains considerable magnesia, in Warm creek, course S. for 8 chs. thence NE.
	Note: Water rises about 20 chs. up stream and flows about 10 chs. below line before sinking.
	Gradually asc. rolling land facing E.
24.08	A point from which; stone house, 12x22 ft. bears N.48° 50'E., 8.53 chs. to NW. cor., a stone building, without roof, bears N.61½°E.,9.59 chs. dist., to center W. side.
40.00	On gentle E. slope, 125 ft. above creek.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S26 / S35 1917.
	Deep, loose sand, pits impracticable.

Subdivision of T. 43 S., R. 4 E.

Chains

80.00 The cor. of secs. 26, 27, 34 and 35.

Land, rolling and broken, bench.

Soil, deep loose sandy and some scattered sandstone bedrock.

Undergrowth, short, shadscale, greasewood, brigham-tea and bunch grass.

No timber. Fair grazing.

N. 0° 01' W., bet. secs. 26 and 27.

Over rolling sandy bench land, slight slope to the E.

36.90 Stock trail, brs. E. and W.

40.00 On gentle E. slope.

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

¼

S27 | S26

1917

Deep loose sand, pits impracticable.

70.00 Top of slight raise, 50 ft. above ¼ cor., brs. NE. & SW.

80.00 On NE slope.

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

T43S | R4E

S22 | S23

S27 | S26

1917

Deep loose sand, pits impracticable.

Land, rolling bench; drainage E. into warm creek.

Soil, deep, loose white sand.

Undergrowth, match brush, brigham-tea, and bunch grass.

No timber. Good grazing.

N. 89° 59' E., on random line, bet. secs. 23 and 26.

40.00 Set temp. ¼ sec. cor.

Subdivision of T. 43 S., R. 4 E.

Chains	
80.02	Intersect N. and S. line, 2 lks. S. of the cor. secs. 23, 24, 25 and 26.
	Thence
	S. 89° 58' W., on true line, bet. secs. 23 and 26.
	Over rolling land, sloping to the W.
30.05	Stock trail, brs. N. and S.
36.10	Warm Creek, dry channel, 1 ch. wide, course SE.
	Gradually asc.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S23 / S26 1917
	Deep loose sand, pits impracticable.
71.60	Top of ascent, 150 ft. above ¼ cor., brs. NE. and SW.
80.02	The cor. of secs. 22,23,26 and 27.
	Land, rolling; sloping to W. on E. 36 chs., and to E. on remainder.
	Soil, deep, loose sandy.
	Undergrowth, brigham-tea, greasewood, shadscale and bunch grass.
	No timber. Fair grazing.

	N. 0° 01' W., bet. secs. 22 and 23.
	Over rolling bench land.
25.00	Begin descent on N. slope, brs E. and W.; desc. 65 ft.
40.00	In swale, drains E.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S22 | S23 1917
	Deep loose sand, pits impracticable.
45.00	Two sandstone outcroppings, 25 ft. high, brs. W. of line, .3 chs. dist.

Chains

56.50 Top of raise, 70 ft. above ¼ cor., brs. N.80°W and S.80° Desc.

66.10 Rocky gulch, 40 ft. deep, course NE.; asc.

80.00 On E. slope.

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

T43S | R4E
S15 | S14
S22 | S23

1917

Loose sand, pits impracticable.

Land, rolling bench, drainage to E.

Soil, loose white sandy, and scattered sandstone bedrock outcrops.

Undergrowth, shadscale, brigham-tea, and bunch grass.

No timber. Fair grazing land.

N. 89° 58' E., on random line, bet. secs. 14 and 23.

40.00 Set temp. ¼ sec. cor.

80.10 Intersect N. and S. line, 7 lks. S. of the cor. secs. 13,14,23 and 24.

Thence

S. 89° 55' W., on true line, bet. secs. 14 and 23.

Over broken land, facing to the W.; desc. over bedrock.

9.00 Leave bedrock, 80 ft. below cor., brs N. and S.; thence more gentle descent.

32.90 Dry channel of Warm creek, 1 ch wide, 125 ft. below cor., course S.30°E.; gradually asc.

39.00 Wash, 60 lks. wide, 5 ft. deep, course NE.

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

¼ S14 / S23 1917

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

Subdivision of T. 43 S., R. 4 E.

Chains	
48.60	Top of ascent, 70 ft. above ¼ cor., brs NE. and SW.
80.10	The cor. of secs. 14,15,22 and 23.
	Land, rolling and broken, drainage into warm creek.
	Soil, loose white sandy and sandstone bedrock, with some fine gravel.
	Undergrowth, shadscale, brigham-tea, greasewood and bunch grass.
	No timber. Fair grazing land.

	N. 0° 01' W., bet. secs. 14 and 15.
	Over rolling bench land, gradually descend.
18.00	Begin more rapid descent, brs NE. and SW.
22.90	Top S. edge of wash, brs NE. and SW.
27.50	Wash, 30 lks. wide, 6 ft. deep, in ravine, 110 ft. below sec. cor., course N. 70°E.; asc. 30 ft.
38.00	Top of ascent on E. slope, brs W.; desc. 10 ft. to
40.00	On NE. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S15 | S14 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
50.10	Stock trail, brs NW. and SE.
65.00	Dry channel of Warm creek, 1½ chs. wide, course S.10°E. Gently asc. SW. slope.
80.00	On gentle SW. slope, 35 ft. above creek.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 10, 11, 14 and 15, with brass cap marked
	T43S | R4E S10 | S11 S15 | S14 1917

Subdivision of T. 43 S., R. 4 E.

Chains	
	dig pits 18x18x12 ins. in each sec. 5½ ft. dist.
	Land, rolling bench, draining into warm creek.
	Soil, loose sandy, gravelly and some scattered bedrock; sandstone formation.
	Undergrowth, shadscale, brigham-tea, greasewood and bunch grass.
	No timber. Fair grazing.

	N. 89° 55' E., on random line, bet. secs. 11 and 14.
27.11	Foot of impassable sandstone wall, over which I cannot chain; therefore offset
	South, 10.00 chs., then
	N.89°55'E., on offset to 60.00 chs., then
	North, to true line, 10.00 chs. then
	N.89°55'E., on true random.
80.15	Intersect N. and S. line, 5 lks. N. of cor. secs. 11, 12, 13 and 14.
	Thence
	S. 89° 57' W., on true line, bet. secs. 11 and 14.
	Over broken, rocky land, along foot of high sandstone wall, gentle S. slope.
20.15	Near foot of impassable sandstone wall, 600 ft. high, brs. NE. and SW.; then offset
	South, 10.00 chs., then
	S.89°57'W., on offset line, to 53.04 chs., then
	North, 10.00 chs. to true line,
40.07½	True point for ¼ sec. cor.; cor. not set;
53.04	True point for ¼ sec. cor., N.89°57'E., 12.96½ chs., falls on S. face of sandstone break and is inaccessible therefore at this point
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, for witness ¼ sec. cor., with brass cap marked

Subdivision of T. 43 S., R. 4 E.

Chains

$\frac{1}{4}$ S11 / S14 1917 WC

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

56.15 Gulch, 30 ft. deep, course S.

71.50 Leave broken, rocky land, thence over more rolling and sandy land, brs N. and S.

80.15 The cor. of secs. 10,11,14 and 15, 150ft. below the $\frac{1}{4}$ cor.

Land, low broken with S. slope on E. 71½chs., and rolling on remainder; drainage to S.

Soil, mostly sandstone bedrock, with loose sand and some gravel.

Undergrowth, sparse short shadscale, greasewood and some bunch grass.

No timber. Poor Grazing.

N. 0° 01' W., bet. secs. 10 and 11.

Over rolling bench land, facing to W.

14.90 Ravine, 30 ft. deep, course SW.

40.00 On N. slope.

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

$\frac{1}{4}$

S10 | S11

1917

dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist.

Desc. 50 ft. to

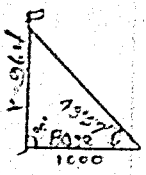
49.90 Ravine, 30 ft. deep, course SW.; asc.

52.00 Near base of high sandstone wall, bearing NE. and NW., up which I cannot chain; therefore triangulate as follows:

Set a flag on line at top, then measure a base line;

Subdivision of T. 43 S., R. 4 E.

Chains



N.89°59'E., 10.00 chs., to point whence flag on top subtends an angle of 43° 57', the distance is tan. 43°57'x base or.96400 x 10.00 chs = 9.64 chs.,which added to 52.00 chs makes

61.64 To triangulation point and top of sandstone wall, 550 ft. high, brs. NE. and S.80°W. for 5 chs., thence to NW.

Thence over broken top of mesa.

80.00 In depression, drains to W.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 6 ft. base, on bedrock, for cor. secs. 2, 3, 10 and 11, with brass cap marked

T43S | R4E
S3 | S2
S10 | S11

1917

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

Land, rolling and broken; drainage to SW.

Soil, light sandy, gravelly and sandstone bedrock.

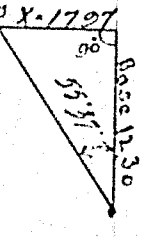
Undergrowth, sparse shadscale, greasewood, brigham-tea, and bunch grass.

No timber. Fair grazing.

N. 89° 57' E., on random line, bet. secs. 2 and 11.

12.94 Top of sandstone wall, over which I cannot chain, triangulate as follows:

Leave flag at this point, then set another flag on line below break. I now proceed to lower flag, from which measure a base line, S.0°03'E.,12.30chs., to point whence flag on top subtends an angle of 55°37'; therefore tan. 55°37' x base or 1.46137 x 12.30 = 17.97 chs. which added to 12.94 makes



30.91 To point of triangulation.

40.00 Set temp ¼ sec. cor.

Unable to continue E. from cor., because of high sandstone

Subdivision of T. 43 S., R. 4 E.

Chains	
	wall, from the N. to SW., I return to point at
30.91	Thence offset as follows:
	South, 12.30 chs., then on offset line
	N.89°57'E., 60.00 chs.; then
	North, 12.30 chs. to the random line, on which, at
80.20	Intersect N. and S. line, 7 lks. N. of cor. secs. 1, 2, 11 and 12.
	Thence,
	West, on true line bet. secs. 2 and 11.
	Across bottom of hollow gently asc. towards base of break.
20.20	Base of sandstone wall, 450 ft. high, on W. side of hollow, brs NE. and SW.; thence offset
	South, 12.30chs., thence on offset line,
	West, 49.29 chs., thence offset,
	North, 12.30 chs. to true line; thence
	East, 9.19 chs. or at,
40.10	On gradual W. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S2 / S11 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	The base of high sandstone wall, 350 ft. high, is E. about 4 chs. dist., bears N.20°W and S.30°W.
	Thence, West, on true line, over rolling land sloping S.
49.29	Thence by triangulation; approximate topography as follows:
60.00	Base of sandstone wall, 350 ft. high, brs NE. and SW.
	Asc. abruptly E. face.
67.26	To triangulation point and top of wall, 450 ft. above ¼ cor., brs NE. and SW.; thence over broken top of mesa.

Subdivision of T. 43 S., R. 4 E.

Chains	
80.20	The cor. of secs. 2, 3, 10 and 11.
	Land, rolling and broken, crosses high sandstone break 400 to 600 ft. high.
	Soil, loose sandy and sandstone bedrock.
	Undergrowth, sparse shadscale, greasewood and bunch grass.
	No timber. Fair grazing.

	N. 0° 06' E. on random line, bet. secs. 2 and 3.
30.53	S. edge of canyon, across which I cannot chain; triangulate as follows:
	Leave flag at this point, then set another flag on line on N. edge of canyon; proceed to N. flag, then with telescope directed at flag on S. side, deflect an angle of 90°00' towards the E. and measure a base line 12.50 chs., to point whence flag subtends an angle of 63°36'; therefore dist. is tan. 63°36' x base or 2.01449 x 12.50 chs. = 25.18 chs., which added to 30.53 makes
55.71	To triangulation point.
80.20	Intersect N. bdy. of tp., 23 lks. W. of cor. secs. 2, 3, 34 and 35, heretofore described.
	Thence,
	S. 0° 16' W., on true line, bet. secs. 2 and 3.
	Over rolling mesa top, through sparse undergrowth.
	Gently asc. N. slope.
9.00	Top of raise, 25 ft. above sec. cor., brs N.80°E & S80°W.
	Gently desc.
24.49	To triangulation point, and N. rim of canyon wall, 300 ft. high, brs N.80°E and S.70°W.
40.20	True point for ¼ sec. cor., falls in canyon cannot be set: canyon course S.60°W.
49.67	Top of rim and wall on S. edge of canyon, 300 ft. high, brs. N.60°E. and SW. At this point.

Subdivision of T. 43 S., R. 4 E.

Chains	
	Set an iron post, 3 ft. long, 1 in. dia., 26ins. in mound of stone, 5ft. base, on bedrock, for witness ¼ sec. cor., with brass cap marked
	W ¼ C S3 | S2 1917
	No rock available for mound of stone to W.
	Gently asc.
64.00	Top of slight raise, 35 ft. above ¼ cor., brs E. and W.
80.20	The cor. of secs, 2,3,10 and 11.
	Land, rolling top of mesa; drainage to SW.
	Soil, loose sandy and sandstone bedrock.
	Undergrowth, sparse shadscale, greasewood and brigham-tea and bunch grass.
	No timber. Good grazing.

	From the cor. of secs. 3, 4, 33 and 34 on S. bdy. of tp., heretofore described.
	On account of sandstone mountain, a mass of barren sandrock with precipitous slopes, over which I cannot chain; therefore I proceed as follows:
	Offset, East, 26.02 chs., thence on offset line, No. 0°02'W., 40.00 chs., base of sandstone bedrock and mountain, brs. NE. and SW.; unable to get back to true line from this point; continue to 46.11 chs., then West, 26.02 chs. to true line, at.
46.11	On true line. I now measure S.0°02'E., 6.11 chs. or
40.00	On a NW. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, for ¼ sec. cor., with brass cap marked
	¼ S33 | S34 1917
	No rock available for additional mound to W.

Subdivision of T. 43 S., R. 4 E.

Chains	
	I return to point at 46.11 chs., thence
	N.0°02' W. on true line.
57.00	Leave rough barren sandrocks, brs NE. and SW.; thence gently desc. over rolling sandy land.
70.00	Swale, drains to SW.; gently asc.
80.00	Set an ironpost, 3ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 27, 28, 33 and 34, with brass cap marked T43S | R4E S28 | S27 S33 | S34 1917
	Deep, loose sand, pits impracticable.
	S. 57 chs. rough broken sandstone mountain; bedrock.
	remainder, rolling land, with deep, loose white sand.
	Undegrowth, brigham-tea, greasewood, oose and bunch grass on N. 23 chs.; none on remainder.
	No timber.

	East, on random line, bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the N. and S. line, 5 lks. S. of the cor. secs. 26,27,34 and 35.
	Thence,
	S. 89°58' W., on true line, bet. secs. 27 and 34.
	Over rolling sandy bench land.
40.00	On a SE. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S27 S34 1917
	Deep, loose sand, pits impracticable.
44.70	Top of raise, brs NE. and SW.
60.70	Swale, drains to SW.

Subdivision of T. 43 S., R. 4 E.

Chains

80.00 The cor. of secs. 27,28,33 and 34.

Land, rolling bench; drainage to NE. on E. ½ mile and to SW. on remainder.

Soil, deep, loose white sand.

Undergrowth, greasewood, match brush, oose and some bunch grass.

No timber. Fair grazing land.

N. 0° 02' W., bet. secs. 27 and 28.

Over rolling, sandy bench land, general exposure to E.

40.00 On a gentle SE. slope.

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

¼

S28 | S27

1917

dig pits 18x18x12 ins. N. and S. of cor., 3 ft. dist.

44.70 Sand wash, in small ravine, 20 ft. deep, course E.

The base of high sandstone break, brs. W. of line 3 chs. dist.

67.00 Top of low flat sand ridge, brs. E. and W.; gently desc. N. and NE. slopes.

80.00 On NE. slope.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. ground, for cor. secs. 21,22,27 and 28, with brass cap marked

T43S | R4E

S21 | S22

S28 | S27

1917

dig pits 18x24x12 ins. in each sec. 5½ ft. dist.

Land, rolling bench; exposure and drainage to E.

Soil, deep, loose, sandy and gravelly.

Underowth, sage brush, brigham-tea, oose and some bunch grass.

Subdivision of T. 43 S., R. 4 E.

Chains	
	No timber. Good grazing land.
	N. 89° 58' E., on random line, bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect the N. and S. line, 5 lks. S. of cor. secs. 22,23,26,and 27.
	Thence,
	S. 89° 56' W., on true line, bet. secs. 22 and 27.
	Over rolling bench land; gently asc.
39.99	On a N. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S22 / S27 1917
	Deep, loose sand, pits impracticable.
79.98	The cor. of secs. 21,22,27 and 28.
	Land, rolling bench land, facing to the NE.
	Soil, deep, loose sandy and some gravelly.
	Undergrowth, short sparse sage brush, brigham-tea, oose and bunch grass.
	No timber. Grazing land.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over rolling sandy bench land, facing to NE.
40.00	On top of low sand raise, brs E. and S.80°W.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S21 / S22 1917
	dig pits, 18x18x12 ins. N and S of cor. 3½ft. dist.
	Note: Top of sandstone butte or peak brs. N. 35°22'E., about 50 chs. dist.

Subdivision of T. 43 S., R. 4 E.

Chains	
55.40	Sand ravine, 10 ft. deep, course NE.
68.85	Ravine, 25 ft. deep, course E.
75.65	Ravine, 10 ft. deep, course SE.; asc.
80.00	On a SE. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 15, 16, 21 and 22, with brass cap marked
	T43S | R4E S16 | S15 S21 | S22 1917
	dig pits 18x18x12 ins. in each sec., 5½ ft. dist.
	Land, rolling bench; exposure and drainage, to NE.
	Soil, deep, loose sand y and gravelly.
	Undergrowth, sage, greasewood, match brush, oose and bunch grass.
	No timber. Good grazing land.

	N. 89° 56' E., on random line, bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
79.92	Intersect the N. and S. line, 12 lks. S. of cor. of secs. 14, 15, 22 and 23.
	Thence,
	S. 89° 51' W., on true line, bet. secs. 15 and 22.
	Over rolling and broken bench land, facing to E.
39.96	On gentle N. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S15 S22 1917
	Deep, loose sand, pits impracticable.
	Note: A lone red sandstone butte, about 300ft. high, brs. S.70°W. about 16 chs. to top.
56.20	Top of ascent bet. buttes, the base of the larger brs. NW. 3 chs.

Subdivision of T. 43 S., R. 4 E.

Chains	
71.00	Wash, 10 lks. wide, 5 ft. deep, course SE.
79.92	The cor. of secs. 15, 16, 21 and 22.
	Land, rolling and briken bench, general exposure and drainage to SE to E.
	Soil, loose sandy and sandstone bedrock.
	Undergrowth, sparse brigham-tea, shadscale, sage and bunch grass.
	No timber. Fair grazing.

	N. 0° 02' W., bet. secs. 15 and 16.
	Over rolling and broken bench land; gently asc.
5.70	Wash, 10 lks. wide, 5 ft. deep, course SE.
12.50	Top of ascent on narrow strip of sandstone bedrock, 40ft. above cor., brs. S.70°E. 5 chs. to base of lone butte about 300ft. high, and N.70°W. about 4 chs. to base of high sandstone wall, which bears nearly N. and S.
	Gradually desc. N. slope.
33.95	Draw, 10 ft. deep, course NE.; thence along rocky E. slope at base of high break.
40.00	True position for cor., comes on steep E. slope, impracticable to set.
40.20	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in ground, and in a mound of stone, for witness ¼ sec. cor., with brass cap marked

¼

S16 | S15

W | C

1917

from which I mark

Y (cross) B. O. bears S.37½° W., 26 lks. dist., on E. face of sandstone boulder.

Cor. situated on steep, rocky E. slope, 2 chs. E. of sandstone wall, 250ft. high, bearing W. and S., also a small lone butte, 50ft. high, brs. N.29½°E., 7chs. dist.

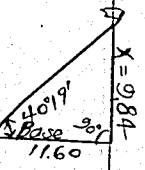
Desc.

Subdivision of T. 43 S., R. 4 E.

Chains	
58.80	Wash, 20 lks. wide, 3 ft. deep, at base of descent, 95ft. below cor., course E.; thence along low broken land, in hollow.
72.00	Main wash, 40 lks. wide, 3 ft. deep, in hollow, course SE.; gently asc.
79.16	Small branch wash, 10 lks. wide, 2 ft. deep, course NW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 9, 10, 15 and 16, with brass cap marked T43S | R4E S9 | S10 S16 | S15 1917 raise a mound of stone, 2ft. base, 1½ ft. high, W. of cor.
	Land, rolling and low broken; general exposure and drainage to E.
	Soil, sandy, gravelly and sandstone bedrock, with some loose rock.
	Undergrowth, sparse brigham-tea, shadscale, oose and bunch grass.
	No timber. Fair grazing land.
	N. 89° 51' E., on random line, bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line, 5 lks. S. of cor. secs. 10,11, 14 and 15.
	Thence,
	S. 89° 49' W., on true line, bet. secs. 10 and 15.
	Over rolling bench land; gently desc. W. slope.
25.80	Dry channel of Warm creek, 1 ch. wide, 50 ft. below cor., course S.10°E for 6 chs., thence to SE.
	Asc.
39.99	On top of ascent, 140 ft. above warm creek, brs N. and S. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in

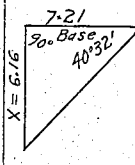
Subdivision of T. 43 S., R. 4 E.

Chains	
	ground, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1/4 \mid S10}{S15 \mid 1917}$ dig pits 18x18x12 ins. E. and W. of cor., 3 ft. dist.
50.00	Note: The N. end of lone sandstone butte or castle, 400 ft. high, brs. S. of line 10chs. dist., it is 15 chs. long, extending in a northerly & southerly direction.
50.00	The SE. point of sandstone break, 300 ft. high, brs. N. of line, 4 chs. dist.
73.90	Desc. 40 ft. to
79.98	The cor. of secs. 9,10,15 and 16.
	Land, rolling and low broken bench land; E. 26chs., sloping to SW., and remainder to SE.
	Soil, loose sandy, gravelly and scattered sandstone bedrock, with some clay near W. end of mile.
	Undergrowth, short shadscale, greasewood, sage and oose.
	Nomtimber. Fair grazing land.
	N. 0° 02' W., bet. secs. 9 and 10.
	Over low broken land; gradually asc. towards high break.
4.20	Small wash, 10 lks. wide, 2 ft. deep, course SE.
6.00	Enter low red sandstone breaks, 30 ft. high, brs W & SE.
10.68	High sandstone break, the base of which is ahead on line, 8 chs., up which I cannot chain; therefore triangulate as follows:
	Set flag on line at top of break, then measure a base line, S.89°58'W., 11.60 chs., to point whence flag subtends an angle of 40°19'; therefore tan. 40°19' x base or .84856 x 11.60 chs = 9.84 chs., which added to 10.68 makes
20.52	Top of break and sandstone wall, 300 ft. high, brs W. and S.80°E.



Subdivision of T. 43 S., R. 4 E.

Chains	
	Asc. 35 ft. to
24.60	Top of ascent, brs N.55°W and S.55°E.; thence over broken top of mesa, near E. edge.
35.45	Rim and top of wall, 300 ft. high, brs NW. and SE.
39.25	Same. brs N.30°E and SW.
40.00	True point for ¼ sec. cor., falls on edge of small shelf, cannot be set.
40.10	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 8 ft. base, on bedrock, for the witness ¼ sec. cor., with brass cap marked ¼ S9 | S10 W C 1917 No additional mound built.
	Continue over top of mesa.
48.31	Rim and top of sandstone wall, 350 ft. high, brs W., and E. for 4chs., thence to S., impossible to chain, therefore triangulate as follows:
	Set flag on line at base, also leave flag at this point; I now proceed to flag at base, and with telescope directed at flag on top, deflect an angle of 90°00' towards the E., and measure a base line, 7.21 chs. to point whence flag subtends an angle of 40°32'; therefore dist. is tan. 40°32' x base or .85509 x 7.21 or 6.16 chs., which added to 48.31 chs. =
54.47	Base of break, brs W. and SE.; thence gently desc. N. slope across wide hollow.
60.00	Wash, 30 lks. wide, 5 ft. deep, 50 ft. below base of break, course SE.
61.50	Base of high break, over which I cannot chain; therefore I offset around same as follows:
	East, 7.00 chs., the SE point of wall; thence N.0°02'W., on offset line, 18.50 chs., then West, 7.00 chs. to true line, where, at



Subdivision of T. 43 S., R. 4 E.

Chains	
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 3, 4, 9 and 10, with brass cap marked.

T43S	R4E
S4	S3
S9	S10

1917

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

Cor. situated on gentle E. slope, about 2 chs. E. and 5 chs. N. of base of sandstone break.

Land, broken and rough crosses point of mesa and over high sandstone walls; difficult to survey.

Soil, mastly sandstone bedrock, with light sandy and clay loams.

Undergrowth, scattered shadscale, sage, oose and bunch grass.

No timber. Fair grazing on portions of mile.

N. 89° 49' E., on random line, bet. secs. 3 and 10.

18.00 High sandstone break, ahead up which I cannot chain, and this being the most suitable place for base line; therefore triangulate as follows:

Set a flag on line at top of wall. then with telescope directed at said flag deflect an angle of 90° towards the S. and measure a base line, 15.00 chs., to point whence flag suntends an angle of 52°19', therefore tan. 52°19' x base or 1.29463 x 15.00 = 19.42 chs. which added to 18.00 chs. makes

37.42 To triangulation point.

40.00 Set temp. ¼ sec. cor.

60.19 Impassable wall, to avoid which, I offset, North 2.50chs.; Thence, N.89°49'E., to 70.52chs., then offset S.2.50chs to and Thence, N.89°49'E.

80.02 Intersect W & S line, 5 lks N of cor. secs. 2, 3, 10 & 11 Thence, S.89°51'W., on true line, bet. secs. 3 and 10.

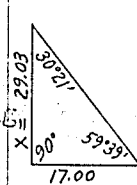
Subdivision of T. 43 S., R. 4 E.

Chains	
	Over broken top of mesa; gently desc.
9.50	Rim and top of wall, brs N. for 2 chs., thence to SW., and S.; in order to avoid same, I offset as follows: North, 2.50 chs., thence on offset line, S.89°51'W., 19.83 chs., then South, 2.50 chs. to true line, at
19.83	Rim brs. NE. and SW.; thence S.89°51'W.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 6 ft. base, on bedrock, for the ¼ sec. cor., with brass cap marked ¼ S3 / S10 1917 No additional mound of stone built. Corner situated ½ch. S. of rim, which brs. E. for 10 chs., thence to N., and W. 3chs. to point.
42.60	To edge of rim and top of perpendicular sandstone wall, about 350 ft. high, brs. nearly E. and SE.; thence by triangulation, with approximate topography as follows Desc. abruptly W. face of ledge and break.
46.00	Base of same, brs NE. and SE.; gently desc.
59.00	Dry channel of Warm creek, course S.20°E.
	Gradually asc. over rolling land, facing E.
62.02	To triangulation point.
80.02	100 ft. above warm creek.
	The cor. of secs. 3,4,9 and 10.
	E. 46 chs. top of mesa and face of break; top is low broken land; soil, mostly sandstone bedrock, with loose sandy; remainder of mile, rolling; soil, deep loose sandy and gravelly loams.
	Undergrowth, sparse sage, shadscale, greasewood, and bunch grass.
	No timber. Fair grazing on portion of mile.

Chains	
	N. 0° 16' E., on random line, bet. secs. 3 and 4.
40.00	Set temp. ¼ sec. cor.
80.55	Intersect N. bdy of tp., 2 lks. W. of the cor. secs. 3,4,33 and 34, heretofore described.
	Thence,
	S. 0° 17' W., on true line, bet. secs. 3 and 4.
	Over rolling land, along bottom of Warm creek.
14.10	Warm creek, dry channel, 1 ch. wide, course SW.
25.50	Recross same, course SE.; asc. abruptly 55 ft. to
30.00	Top of abrupt ascent, brs NW. and SE.; thence over broken land, lying under high break.
35.00	E. edge of sandstone break, 250ft. high at point, brs nearly W. and SW.; thence along foot of same.
40.55	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S4 | S3 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Cor. situated on steep E. slope of clay hill, 1 chs. E. of sandstone wall, brs. nearly N. and S.
47.70	Top of ascent on E. slope, 2 chs. E. of wall, which turns to the SW.; gently desc.
67.00	Ravine, 30 ft. deep, course SE.; gently asc.
80.55	The cor. of secs. 3, 4, 9 and 10.
	Land, rolling and broken, lying along bottom of warm creek.
	Soil, sandy and gravelly loams, with some clay, on clay and rock subsoil.
	Undergrowth, sparse shadscale, sage, greasewood and bunch grass.
	No timber. Fair grazing land.

Subdivision of T. 43 S., R. 4 E.

Chains	
	From the witness cor. of secs. 4, 5, 32 and 33 on S. bdy. of tp., heretofore described, which is 3.00 chs. W. of true point; impracticable to run N. from true point on account of gulch.
	Thence,
	N. 0° 03' W., bet. secs. 32 and 33, on offset line.
	Over broken land, gradually asc.
27.90.	Draw, 20 ft. deep, course NE.
40.00	I measure east, 3.00 chs. to true line, where, I
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S32 | S33 1917
	Loose sand, pits impracticable, and no rock available.
	Cor. situated on a SW. slope, 150 ft. above sec. cor.
	Thence from point 3.00chs. W. of cor., continue on offset line, N.0°03'W.
51.61	The line to the north passes over sandstone ledges and breaks, up which I cannot chain, and this being the most suitable place to obtain a base line;
	therefore triangulate as follows:
	Set a flag on line at top of break, then measure a base line, N. 89°57'E., 17.00 chs., to point, whence N. flag subtends an angle of 59° 39'; I now proceed to N. flag and observe the angle bet. E. and W. ends of base, which I find to be 30°21'; therefore dist. is cotan. 30°21' x base or 1.70787 x 17.00 chs. = 29.03 chs., which added to 51.61 makes 80.64 chs.
80.00	On offset line west 3.00 chs. from true cor. point. Cor. not set.
80.64	To triangulation point; thence offset
	East, 3.00 chs., to true line, I now measure south 12 lks. where, at
80.52	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 6 ft. base, on bedrock, for witness

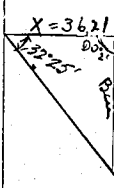


Subdivision of T. 43 S., R. 14 E.

Chains	
	cor. secs. 28, 29, 32 and 33, with brass cap marked
	T43S | R4E S29 | S28 S32 | S33 W | C 1917
	Corner situated on top at S. edge of sandstone break and ledges, 330 ft. above ¼ sec. cor., brs. NE. and SW.; the true point for cor., S.0°03'E., 0.52 chs. falls on S. face of ledge and could not be set.
	Land, broken and mountainous; general face and drainage to SW.
	Soil, light, shallow sandy and gravelly on sandstone bedrock and rocky.
	Undergrowth, sparse greasewood, oose, brigham-tea and some bunch grass.
	No timber. Fair grazing.
	East, on random line, bet. secs. 28 and 33, from a point 12 lks. N. of the witness cor., or 64 lks. N. of true point for cor.
	The line to E. passes over series of sandstone ledges, breaks and broken country, which is impracticable to chain; therefore by triangulation as follows:
	Set flag on line to east, on top of ridge; then proceed to said flag and observe the angle bet. flag left 64 lks. N. of true point for secs. 28, 29, 32 and 33 and the ¼ sec. cor., bet. secs. 32 & 33, which I find to be 43° 12½'. The third computed angle is 46° 50½'; therefore
	Log. 40.64 ---------- 1.608954 Log sin 46° 50½' ---------- 9.863005 Colog sin 43° 12½' ---------- 0.164530 Log. 1.636489 =
43.30	To triangulation point; thence
	South, 64 lks. to random line; leave temp. ¼ cor. at this point.
	Thence, East on random line

Subdivision of T. 43 S., R. 4 E.

Chains	
43.67	E. rim, top of break, impossible to continue by chaining therefore triangulate as follows:
	I note that the cor. of secs. 27,28,33 and 34 bears east of my station; then measure the angle bet. said cor. and a flag left on line bet. secs. 33 and 34, which is S.0°02'E., 23.00 chs., which I find to be 32° 25'; the dist. is cotan. 32°25' x base or 1.57474 x 23.00 chs. = 36.22 minus 1 lk. or 36.21chs., which added to 43.67 chs. makes
79.88	Intersect the cor. of secs. 27,28,33 and 34.
	Thence,
	West, on true line, bet. secs. 28 and 33.
	By triangulation; approximate topography reading as follows:
	Over rolling land, gradually ascending towards base of break.
28.00	Base of sandstone break, brs. NE. and S.; asc. abruptly E. face ofer ledges.
36.21	To triangulation point; top of break, 250 ft. above base, brs. N. and S.; the top at this point is only about 75 lks. wide, forming a narrow neck of mountain, widens out to N. into top of mesa,and to S. into sandstone mountain.
36.58	True cor. point, west 3.36 chs. dist., on W. face of break on ledges, cannot be set; therefore at this point.
	Set a sandstone, 30x20x6 ins., 22 ins. in, mound of stone, on bedrock, for witness ¼ sec. cor., marked WC ¼ on N. face, raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. No iron post available.
39.94	Point for ¼ sec. cor.; cor. not set.
	Thence by triangulation, from W.C. ¼ cor.
	Over sandstone breaks and ledges, general S. face.
79.88	The cor. of secs. 28,29,32 and 33.



Subdivision of T. 43 S., R. 4 E.

Chains	
	Land, E. 28 chs., rolling; remainder broken and mountainou drainage to S.
	Soil, light sandy, gravelly and rocky, sandstone bedrock and ledges.
	Undergrowth, sparse shadscale, brigham-tea and oose.
	No timber. Poor grazing.

	N. 0° 03' W., bet. secs. 28 and 29, counting dist. from true cor. point.
	Over broken land, on top of mesa; asc. 50 ft. to
9.60	Top of rocky ascent, brs SW. and NE.; gently desc.
20.43	Rim of sandstone wall, and break, 360 ft. high, brs NE. and SW.
26.50	Same, brs W. and SE. ; gently asc.
40.00	On a S. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in nound of stone, 5 ft. base, on bedrock, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ / S29 | S28 / 1917
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
55.60	Top of ascent, 40 ft. above $\frac{1}{4}$ cor., brs. SW. and E. Gently desc.
80.00	In depression, on E. edge of rim of break.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins.in mound of stone, 6 ft. base, on bedrock, for the cor. of secs. 20, 21, 28 and 29, with brass cap marked
	T43S | R4E / S20 | S21 / S29 | S28 / 1917
	No additional mound of stone built.
	Land, broken top of mesa; general exposure and drainage on the S. 55.60chs to SW; remainder to NE.

Subdivision of T. 43 S., R. 4 E.

Chains	
	Soil, loose sandy and gravelly and rocky, on sandstone bedrock.
	Undergrowth, sage, brigham-tea, oose and bunch grass.
	No timber. Fair grazing land.

	East, on a random line, bet. secs. 21 and 28.
40.00	Set temp. ¼ sec . cor.
79.90	Intersect N. and S. line, 2 lks. S. of the cor. secs. 21,28,27 and 28.
	Thence,
	S. 89° 59' W., on true line, bet. secs. 21 and 28.
	Over rolling land, facing to NE.; gradually asc.
39.95	On N. slope, 50 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S21 / S28 1917
	dig pits, 18x18x12 ins. E. and W. of cor.,3 ft. dist.
68.00	Base of break, brs NE. and SW.; asc. abruptly over broken ledges, 200 ft. to
79.90	Near top of ascent.
	The cor. of secs. 20, 21, 28 and 29.
	Land, rolling on E. 68 chs.,and broken E. face of sandstone break on remainder; exposure and drainage on mile to NE.
	Soil, deep loose sandy on rolling land, and rocky, sandstone formation on the rough portion.
	Undergrowth, short sage, brigham-tea, match brush and bunch grass.
	No timber. Fair grazing.

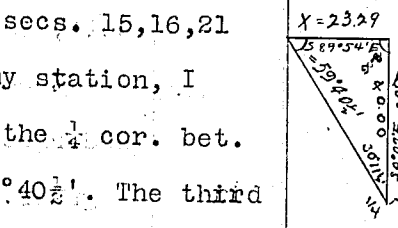
	N. 0° 03' W., bet. secs. 20 and 21.
	Over broken land; asc. abruptly 70 ft. to

Subdivision of T. 43 S., R. 4 E.

Chains	
10.70	Top of ascent, brs NE. and SW.; thence over broken top of mesa; gently desc.
32.60	Head of draw, 20 ft. deep, and 50 ft. below top of ascent course W.; asc. 350 ft.
37.60	Top of sandstone outcrop, 30 ft. high, brs NE and SW.; descend 30 ft. to
40.00	On N. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1/4}{S20 \mid S21}$
	1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
54.50	Top of small sandstone knoll, 25 ft. high on line.
69.20	Top of sandstone outcrop, 25 ft. high, brs NW. and SE.
	Descend 50 ft. to
80.00	On N. slope.
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in mound of stone, 6 ft. base, on bedrock, for cor. of secs. 16, 17, 20 and 21, with brass cap marked
	T43S | R4E S17 | S16 S20 | S21
	1917
	No additional mound of stone built.
	Land, broken top of mesa; exposure and drainage on greater portion to NE.
	Soil, light shallow sandy and gravelly, on sandstone bedrock, and stony.
	Undergrowth, match brush, greasewood, shadscale and bunch grass.
	No timber. Fair grazing land.
	N. 89° 59' E., on random line, bet. secs. 16 and 21.

· Subdivision of T. 43 S., R. 4 E.

Chains	
40.00	Set temp. ¼ sec. cor.
56.66	Top of break and ledges, over which I cannot chain; therefore triangulate as follows:
	With telescope directed at the cor. of secs. 15,16,21 and 22, which bears S.89°54'E. from my station, I measure the angle bet. said cor. and the ¼ cor. bet. secs. 21 and 22, which I fin to be 59°40½'. The third computed angle is 30°11½'; therefore dist. is
	Log. 40.00 ---------- 1.602060 Log.sin 30°11½'---------- 9.701477 Colog sin 59°40½'-------- 0.063901 Log. 1.367438 = 23.30 chs.
	which added to 56.66 makes
79.96	Intersect N. and S. line, 5 lks. N. of the cor. secs. 15,16,21 and 22.
	Thence,
	N. 89° 59' W., on true line, bet. secs. 16 and 21
	By triangulation, approximate topography reads as follows
	Over rolling land, gradually ascending towards high break.
5.10	Ravine, 8ft. deep, course SE.
19.70	Base of break and sandstone ledge, NE and SE.; asc. abruptly over E. face.
23.29	To triangulation point and top of break, 330 ft. above cor., brs. NE. and S. for 3chs. thence to SW.
	Thence over rolling top of mesa.
39.98	On gentle N. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 6 ft. base, on bedrock, for ¼ sec. cor., with brass cap marked
	¼ S16 / S21 1917
	No additional mound of stone built.
	Along land sloping to the N.
79.96	The cor. of secs. 16, 17, 20 and 21.



Subdivision of T. 43 S., R. 4 E.

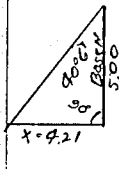
Chains	
	E. 19.70 chs. rolling bench land, lying under high break sloping and draining SE.; W. 56.66chs. rolling top of mesa; N. exposure and drainage.
	Soil, light, shallow sandy and gravelly, on sandstone bedrock and rocky.
	Undergrowth, short greasewood, match brush and bunch grass.
	No timber. Fair grazing.

	N. 0° 03' W., bet. secs. 16 and 17.
	Over rolling and broken mesa top.; gradually desc.
40.00	On a slight NW. slope, 75 ft. below sec. cor. Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in ground to bedrock, and in a large mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S17 | S16 1917
	No additional mound of stone built.
43.00	Begin broken desc. towards rim of break, brs NW and SE.
56.55	Rim and top of sandstone wall, 225 ft. high, and 70 ft. below $\frac{1}{4}$ cor., brs NE. and SW.
61.00	Gulch, drains E.; heads 5 chs. W. of line.
65.00	Top of same rim, brs NE. and SW.; gently asc. 30 ft. to
70.00	Top of ascent, brs NE. and SW.; desc. 35 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 6 ft. base on bedrock, for cor. secs. 8, 9, 16 and 17, with brass cap marked T43S | R4E S8 | S9 S17 | S16 1917
	No additional mound of stone built.
	Corner situated on edge of main ledge break, 300 ft. high, on S. side of hollow, brs N.80°W and about E.

Subdivision of T. 43 S., R. 4 E.

Chains	
	Land, rolling and broken mesa top, sloping and draining to NE. and E.
	Soil, light, shallow sandy and gravelly, and sandstone bedrock.
	Undergrowth, short greasewood, match brush and bunch grass.
	No timber. Fair grazing land.

	S. 89° 59' E., on random line, bet. secs. 9 and 16.
8.00	Rim of mesa and top of high ledge over which I cannot chain; therefore triangulate as follows:
	Leave flag at this point, also set flag on line at base of break; I now proceed to flag at bottom, then with telescope directed at flag on top, turn an angle of 90° towards the N., and measure a base line, 5.00chs. dist. to point whence flag subtends an angle of 40°06'; therefore tan. 40°6' x base or .84208 x 5 = 4.21 chs., which added to 8.00 makes
12.21	To triangulation point.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect the N. and S. line, 5 lks. S. of the cor of secs. 9, 10, 15 and 16.
	Thence,
	S. 89° 59' W., on true line, bet. secs. 9 and 16.
	Over rolling land, along bottom of hollow.
1.30	Small branch wash, 10 lks. wide, 1 ft. deep, course N80°W
3.70	Recross same wash, course S.
7.25	Main wash, 30 lks. wide, 3 ft. deep, in hollow, course SE.
11.35	Recross same wash, course NE.
13.70	High sandstone wall, 300 ft. high, brs. N. of line 50 lks. dist., this is SE point of the wall, brs N. and nearly W.; thence over rough, broken clay land at base of the wall; asc. 100 ft. to
25.55	Top of ascent on S. slope, the base of wall, brs. N. of



Chains

line 3 chs. dist., turns to NW.; desc. 40 ft. to

34.25 Base of descent and broken land, brs NW. and SE; thence over rolling land.

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

¼ S9 / S16 1917

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

52.10 Main wash, 30 lks. wide, 4 ft. deep, course S.60°E.; gradually asc.

67.75 Base of sandstone break and wall, brs NW. and SE. Thence by triangulation.

Asc. abruptly up E. face over ledges.

71.96 To point of triangulation and top of break, 300 ft. above base, brs N. for 3chs., thence to W., and S.20°E. thence over top of mesa.

79.96 The cor. of secs. 8, 9, 16 and 17.

Land, rolling, broken and mountainous; drainage to E.

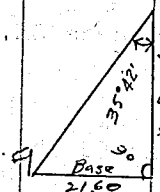
Soil, gravelly, sandy and clay, with sandstone bedrock and loose surface rock.

Undergrowth, greasewood, match brush, sage and bunch grass.

No timber. Poor grazing.

N. 0° 03' W., bet. secs. 8 and 9.

The line to N. of cor. crosses over wide hollow, the bottom of which is about 300 ft. below rim; the walls or N. and S. sides are nearly perpendicular sandstone walls, over which I cannot chain; therefore triangulate as follows:



Erect flag at the cor. of secs. 8,9,16 and 17, then measure a base line, S.89°57' W., 21.60 chs., leave flag here; I now proceed to N. side of hollow, where

Subdivision of T. 43 S., R. 4 E.

Chains	
	I place the instrument on line, N.0°03'W. of cor. and observe the angle bet. E. and W. ends of base, which is 35° 42'; therefore dist. is cotan. 35°42' x base or 1.39165 x 21.60 chs. =
30.06	To triangulation point on N. rim of hollow and top of sandstone wall, brs NE. and SE.
	Thence gradually asc. over broken top of mesa.
40.00	On gentle S. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for the ¼ sec. cor., with brass cap marked ¼ S8 | S9 1917
	No additional mound of stone built.
41.50	Thence over rolling land, slight slope to the NW.
52.00	Swale, drains SW. for 10chs. thence to S.; gradually asc.
79.00	Rim rock, 15 ft. high, brs W. and S.70°E.
80.00	On top nearly level land.
	Set an iron post, 3 ft. long, 2 ins. dia., 24ins. in ground, for cor. secs. 4, 5, 8 and 9, with brass cap marked T43S | R4 E S5 | S4 S8 | S9 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high. W. of cor.
	Land, rolling, broken and breaks; drainage to S & SE.
	Soil, ligh shallow sandy loam on sandstone bedrock.
	Undergrowth, sparse short match brush, shadscale and bunch grass.
	No timber. Poor grazing land.

Subdivision of T. 43 S., R. 4 E.

Chains	
	N. 89° 59' E., on random line, bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
71.26	Edge of impassable sandstone wall, over which I cannot chain; therefore triangulate as follows:
	Set flag on line, 7 lks. S. of the cor. secs. 3, 4, 9 and 10, and leave flag at this point; then proceed to said cor. and with telescope directed at flag on top, deflect an angle of 90° towards the N. and measure a base line 9.70 chs. dist., to point whence flag on top subtends an angle of 41°55', then tan. 41°55' x base or .89777 x 9.70 chs. = 8.71 which added to 71.26 makes
79.97	Intersect N and S line 7 lks. S. of cor. secs. 3, 4, 9 and 10.
	Thence
	S. 89° 56' W., on true line, bet. secs. 4 and 9.
	By triangulation,
2.00	Base of break, brs N.30°W and S.30°E.; asc. abruptly over ledges on E. face of break.
8.71	To triangulation point and top of break, 225 ft. above cor., brs. N.30°W and S.30°E.; thence over rolling and broken top of mesa.
39.00	Rim rock, 20 ft. high, brs NW. and SE.; desc.
39.98½	At base of rim rock, on gentle W. slope.
	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in large mound of stone, 6 ft. base, on bedrock, for the ¼ sec. cor., with brass cap marked
	¼ S4 / S9 1917
	No additional mound of stone built.
44.90	E. rim of gulch, sandstone wall, 100 ft. high, brs N. and SE.
47.75	Bottom of gulch, course S.
50.50	Rim on W. side gulch, 100 ft. high brs NE. and SW.

Chains	
	Gently asc.
66.25	Base of rim rock, brs N.30°W. and S.30°E.; asc. 40 ft. to
68.75	Top of rim rock and ridge, brs same.; gently desc.
79.97	The cor. of secs. 4, 5, 8 and 9.
	Land, broken top of mesa on W. 71 chs., and E. face of break on remainder.
	Soil, rocky with light sandy and gravelly on sandstone bedrock.
	Undergwowth, short sparse match brush, shadscale and bunch grass.
	No timber. Fair grazing.

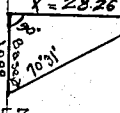
	N. 0° 17' E., on random line bet. secs. 4 and 5.
40.00	S t temp. ¼ sec. cor.
80.67	Intersect N. bdy. of tp., 2 lks. E. of cor. secs. 4,5, 32 and 33 heretofore described.
	Thence,
	S. 0° 16' W., on true line, bet. secs. 4 and 5.
	Over rolling and low broken land.
	Gradually asc.
15.60	Coal out crop, vein 1 ft. thick, brs NW. and SE.
16.50	Top of ascent, brs NW. and S.20°E.
40.67	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S5 | S4 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
80.67	The cor. of secs. 4, 5, 8 and 9.
	Land, rolling and low broken bench.; drainage to E.
	Soil, ligh sandy and gravelly, some clay on sandstone bedrock and rocky.
	Undergrowth, very short sage, greasewood and match brush.
	No timber. Poor grazing.

Subdivision of T. 43 S., R. 4 E.

Chains	
	From the cor. of secs. 5, 6, 31 and 32 on S. bdy. of tp., heretofore described.
	Thence,
	N. 0° 03' W., bet. secs. 31 and 32.
	Over rolling land, slight slope to S.
31.00	Depression on E. slope, 2chs. W. of deep gulch, draining nearly S.; gently asc. 40 ft. to
40.00	On sandy SE. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. ima., ground, for ¼ sec. cor., with brass cap marked
	¼
	S31 | S32
	1917
	Deep loose sand, pits impracticable.
66.00	Top of ascent, 45 ft. above ¼ cor., brs E. and W.
	Desc. 60 ft. to
68.35	Rocky gulch, course nearly E. for 12 chs., thence S. at base of sandstone spur; asc. along W. face of barren bedrock.
72.00	Top of ascent on W. end of rock spur, 75 ft. above bottom of gulch, brs NE.; gradually desc.
76.00	Base of descent and leave sandrock, brs NE and SW.
80.00	On gentle SW. slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 29, 30, 31 and 32, with brass cap marked
	T43S | R4E
	S30 | S29
	S31 | S32
	1917
	dig pits 18x18x12 ins. in each sec, 5½ ft. dist. of cor.
	Land, rolling, exposure and drainage to S.
	Soil, deep, loose sandy and sandrock near N. end of mile.
	Undergrowth, match brush, greasewood, oose, brigham-tea, and bunch grass.
	NO timber. Good grazing on greater protion.

Subdivision of T. 43 S., R. 4 E.

Chains	
	East, on random line, bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
	Because of high sandstone break to the E., and this being the most suitable place to obtain base line; triangulate as follows:
	Set a flag on line E. on top of break, then measure a base line South, 10.00 chs. to point whence flag subtends an angle of 70°31'; tan.70°31'x base or 2.82653 x 10 = 28.26 chs. which added to 40.00 makes
68.26	To triangulation point.
80.00	Intersect true point for cor. secs. 28,29,32 and 33, which is 52. lks. S. of the witness. cor.
	Thence,
	West, on true line, bet. secs. 29 and 32.
	Over broken land on top of bench or mesa.
11.74	W. rim and top of sandstone break, 300 ft. high, brs N. and S.; thence by triangulation, approximate topography as follows:
	Desc. abruptly over W. face of break, broken sandstone ledges.
22.00	Base of break, brs NE. and SW.; thence over rolling land, facing to the SW.
40.00	On SW. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S29 / S32 1917 dig pits, 18x18x12 ins. E. and W. of cor., 3ft. dist.
54.00	Wash, 15 lks. wide, 5 ft. deep, course SW.
60.00	Base of barren sandstone spur, brs NE. and SW.; asc. abruptly E. ledgy face.
67.00	Top of sharp, narrow rock spur, 200 ft. high, projects SW. Desc. abruptly W. face.
74.00	Base of spur, brs NE. and SW.; desc. gently SW. slope.



Subdivision of T. 43 S., R. 4 E.

Chains	
80.00	The cor of secs. 29, 30, 31 and 32.
	Land, rolling, broken and mountainous; general exposure and drainage to SW.
	Soil, light sandy, gravelly and rocky, with barren sandrocks.
	Undergrowth, sparse greasewood, oose, brigham-tea and bunch grass.
	No timber. Fair grazing on portion of mile.

	West, on random line, bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.00	Intersect W. bdy. of tp., 7 lks. S. of the cor. secs. 25, 30, 31 and 36, described in survey of T.43S., R.3E.
	Thence
	S. 89° 57' E., on true line, bet. secs. 30 and 31.
	Over rolling land, facing to W.; gently asc.
39.00	In depression, drains W.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\frac{1}{4}$ S30 / S31 1917
	Loose sand on bedrock, pits impracticable.
49.00	Top of ascent, 60ft. above sec. cor., brs. N. and S. Gently desc.
70.35	Wash, 20 lks. wide, 5 ft. deep, course S., 90 ft. below top of ascent; gradually asc. W. slope.
79.00	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling; drainage to SW. on W. 49chs. and to SE. on remainder.
	Soil, deep, loose sand, and sandstone bedrock.
	Undergrowth, sparse greasewood, brigham-tea, oose and bunch grass.
	No timber. Fair grazing.

Subdivision of T. 43 S., R. 4 E.

Chains	
	N. 0° 03' W., bet. secs. 29 and 30.
	Over rolling land, sloping to the SW.
16.00	Ravine, 20 ft. deep, course W. for 4chs., thence S.
25.46	Leave reference point.
33.95	At base of impassable sandstone wall, 200 ft. high, brs N.70°E, and SW for 12chs., thence N., true point for cor. N.0°03'W., 6.05chs. inaccessible; therefore at this point Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for witness ¼ sec. cor., with brass cap marked

¼

W | C

S30 | S29

1917

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

40.00	Point for ¼ sec. cor.; cor. not set.
	In order to avoid the sandstone wall, I offset as follows:
	Return to point at 25.46 chs.
25.46	Thence, West, 12.55 chs.; then on offset line, N.0°03'W., 53.76 chs., counting from sec. cor., then East, 12.55 chs. to true line, leave flag for reference.
53.76	Near base of wall, brs NE. and SW.; thence N.0°03'W., on true line.
79.50	Wash, 20 lks. wide, 5 ft. deep, in canyon, course SW.
80.00	On a SE. slope, 20 ft. above wash. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 19, 20, 29 and 30, with brass cap marked

T43S | R4E

S19 | S20

S30 | S29

1917

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

Land, rolling and broken; drainage to S.

Soil, white sandy, and sandstone bedrock.

Undergrowth, sparse brigham-tea, oose, greasewood, shad-

Chains

scale and match-brush.

No timber. Fair grazing land.

East, on random line, bet. secs. 20 and 29.

40.00 Set temp. ½ sec. cor.

79.90 Intersect N. and S. line, 5 lks. N. of cor. secs. 20,21 28 and 29.

Thence,

N. 89° 58' W., on true line, bet. secs. 20 and 29.

Asc. 25 ft. to

4.00 Top of ascent, brs NE. and SE.; thence over broken top of mesa.

35.80 SW. point of low spur, brs NE.; desc. 10 ft. to

39.95 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for ¼ sec. cor. with brass cap marked

¼ S20 / S29 1917

No additional mound of stone built.

47.65 Top of E. rim of canyon wall, brs NE. and SW.; desc. abruptly over ledges, 200 ft. to

59.50 Base of steep descent, brs NE. and SW.; thence gently decs. in bottom of canyon.

79.20 Wash, 20 lks. wide, 5 ft. deep, course SW.; asc.

79.90 The cor. of secs. 19,20,29 and 30.

Land, broken and rough, drainage to SW.

Soil, rocky and light sandy; sandstone formation.

Undergrowth, sparse greasewood, shadscale, oose and brigham-tea.

No timber. Fair grazing land.

N.89°57'W., on random line, bet. secs. 19 and 30.

The line to the W. passes over high sandstone wall, up

Subdivision of T. 43 S., R. 4 E.

Chains	
	which I cannot chain, therefore triangulate as follows: I erect flag at cor. secs. 19,20,29 and 30, then set flag on top of wall S.89°57'W; I now proceed to flag on top and with telescope directed at the sec cor.,measure the angle bet. it and a flag left on line bet. secs. 29 and 30, which is S.0°03'E. 26.24 chs.; which.I find to be 59°30'; cotan.59°30' x base or .58905 x 26.24chs. =
15.46	To point of triangulation., I now offset 2.7 chs. N. to the random line; thence N.89°57'W.
40.00	Set temp. ¼ sec. cor.
78.97	Intersect W. bdy. of tp., 19 lks. N. of cor. secs. 19,24, 25 and 30, described in survey of T.43S.,R.3E.
	Thence,
	N. 89°55' E., on true line, bet. secs. 19 and 30.
	Over broken mountainous land.
	Asc. abruptly over ledgy W. face, 225 ft. to
10.00	Top of ascent and W. rim of mesa, brs N. and SW.; thence over broken top of mesa.
38.97	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S19 / S30 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
63.51	Top of sandstone wall and W. rim of canyon, brs N.80°W. and S.10°E.; desc. abruptly over ledges, 345 ft. to
78.97	The cor. of secs. 19,20,29 and 30.
	Land, broken and mountainous; drainage to SW. and S.
	Soil, sandstone ledges, rocks and light sandy.
	Undergrowth, greasewood, shadscale, brigham-tea and bunch-grass.
	No timber. Fair grazing on portion of mile.

Subdivision of T. 43 S., R. 4 E.

Chains	
	N. 0° 03' W. bet. secs. 19 and 20.
	Over rough broken land, sloping to the S.
	Asc. 65 ft. to
17.50	Top of ascent, brs NW. and SE.; desc. 20 ft. to
21.00	Gulch, course SE.; asc. 90 ft. over SW. and W. slope
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for ¼ sec. cor., with brass cap marked ¼ S19 | S20 1917 No additional mound of stone built.
	Continue ascent.
66.30	Top of ascent, 235 ft. above ¼ cor.; brs SE., and NW.
	Thence along E. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, 6 ft. base, on bedrock, for cor. of secs. 17, 18, 19 and 20, with brass cap marked T43S | R4E S18 | S17 S19 | S20 1917 No additional mound of stone built.
	Land, broken mountainous, facing and draining to the S.
	Soil, rocky, sandstone bedrock and some ligh sandy loam.
	Undergrowth, shadscale, brigham-tea, match-brush and bunch grass.
	No timber. Fair grazing on greater portion of mile.

	S. 89° 58' E. on random line, bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
79.78	Intersect N. and S. line, 9 lks. N. of cor. secs. 16,17, 20 and 21.
	Thence,
	N. 89° 54' W., on true line, bet. secs. 17 and 20.

Subdivision of T. 43 S., R. 4 E.

Chains	
	Over rolling and broken top of mesa or bench.
17.00	Head of small ravine, course SW.
24.00	Top of raise, brs NE. and SW.
39.89	On a rocky NW. slope.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 6 ft. base, on bedrock, for the ¼ sec. cor., with brass cap marked
	¼ S17 / S20 1917
	No additional mound of stone built.
	Desc. 75 ft. to
51.50	E. edge of box gulch, 80 ft. deep, course SW., rim brs NE. and SW.
56.60	W. edge of same, brs NE. and SW.;
60.30	Top of rocky point bet. gulches, projects S. 6 chs. dist.
63.30	Box gulch, 50 ft. deep, course S. to SE.
72.00	Head of small branch gulch, course S.80°E.
75.00	Asc. E. slope, 30 ft. to
79.78	The cor. of secs. 17,18,19 and 20.
	Land, rolling and broken top of bench; drainage to S.
	Soil, mostly sandstone bedrock, with light, loose sandy.
	Undergrowth, shadscale, sage and bunch-grass.
	No timber. Fair grazing land.

	S. 89°55' W., on random line, bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
78.72	Intersect W. bdy. of tp., 12 lks. N. of cor. secs. 13,18, 19 and 24, described in survey of T.43 S.,R.3 E.
	Thence,
	N. 89° 50' E., on true line, bet. secs. 18 and 19.
	Over rolling and brokem mesa land; gently asc.
8.00	Top of raise and brown sandstone outcrop at NW. point, 40 ft. above sec. cor., brs SE.

Chains	
38.72	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, for ¼ sec. cor., with brass cap marked ¼ S18 / S19 1917
	No additional mound of stone built.
78.72	The cor. of secs. 17,18,19 and 20.
	Land, rolling and low broken; drainage to S.
	Soil, rocky, sandstone bedrock and light sandy loam.
	Undergrowth, sparse shadscale, sage and bunch grass.
	No timber. Good grazing.

	N. 0° 03' W., bet. secs. 17 and 18.
	Over low broken top of mesa; general slight slope to E.
40.00	On a raise bearing E. and S.70°W.10 ft. high.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for the ¼ sec. cor., with brass cap marked ¼ S18 | S17 1917
	No accessory mound of stone built.
46.30	Gully, 20 ft. deep, course NE.,becomes deep to E.
66.85	Gulch, 60 ft. deep, course NE.
73.45	Top of raise or sandstone outcrop, 20 ft. high, brs NE. and W.; desc. 20 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in ground to bedrock, and in a mound of stone, for cor. of secs. 7,8,17 and 18, with brass cap marked b T43S | R4E S7 | S8 S18 | S17 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Subdivision of T. 43 S., R. 4 E.

Chains

Land, low broken top of mesa with exposure to E.; drainage to NE.

Soil, mostly rocky, light sandy loam, and some clay.

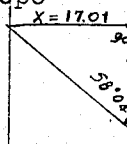
Undergrowth, sparse shadscale, brigham-tea and bunch-grass.

No timber. Fair grazing land.

S. 89° 54' E. on random line, bet. secs. 8 and 17.

37.49 W. edge of impassable gulch, across which I cannot chain. Leave temp. ¼ sec. cor. at this point; then triangulate as follows:

Erect flag at this point, then set flag on line on E. edge of gulch; now proceed to E. side and with telescope directed at flag on W. side turn an angle of 90°00' towards the S. and measure a base line, 10.60 chs. to point whence flag subtends an angle of 58°04'; therefore dist. is tan. 58°04' x base or 1.60449 x 10.60chs = 17.01 chs. which added to 37.49 makes



54.50 To triangulation point.

79.80 Intersect N. and S. line, 7 lks. S. of the cor. secs. 8,9,16 and 17.

Thence,

N. 89° 54' W., on true line, bet. secs. 8 and 17.

Over low broken, rocky top of mesa, near N. rim.

25.30 E. edge of box gulch, 125 ft. deep, with nearly perpendicular walls, brs NE. and SW; gulch course NE.

39.90 Point for ¼ sec. cor.; cor. not set.

42.31 W. edge of same, brs NE. and SW.; true point for ¼ sec. cor. falls in gulch cannot be set; therefore at this point

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, for witness ¼ sec. cor., with brass cap marked

$$\frac{1}{4}\ \frac{S8}{S17}\ W.C.$$

1917

No accessory mound of stone built.

Subdivision of T. 43 S., R. 4 E.

Chains	
	Gently asc. land, having a slight slope to the S.
79.80	The cor. of secs. 7,8,17 and 18.
	Land, broken top of mesa; drainage to NE.
	Soil, mostly sandstone bedrock, with some light, shallo sandy loam.
	Undergrowth, sparse shadscale, brigham-tea and bunch gra
	No timber. Poor grazing land.

	S. 89° 50' W., on random line, bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
78.44	Intersect W. bdy. of tp., 7 lks. S. of cor. secs. 7,12, 13 and 18, described in survey of T.43S.,R.3 E.
	Thence,
	N. 89° 53' E., on true line, bet. secs. 7 and 18.
	Over rolling bench land.
38.44	On top of slight raise.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, on bedrock, for ¼ sec. cor., with brass cap marked ¼ S7 / S18 1917
	No accessory mound of stone built.
56.45	Dark sandstone outcrop or raise, 20 ft. high, brs NE & SW
62.35	Wash, 15 lks. wide, 5 ft. deep, course NE.
78.44	The cor. of secs. 7,8,17 and 18.
	Land, rolling slight slope and drainage to NE.
	Soil, loose sandy, clay, and sandstone outcrops.
	Undergrowth, sparse short shadscale, match-brush and gras
	No timber. Fair grazing land.

	N. 0° 03' W., bet. secs. 7 and 8.
	Over broken top of mesa, exposure to NE.; gently desc.
13.90	Ravine, 20 ft. deep, course NE.
19.20	Gulch, 30 ft. deep, course N.80°E.

Subdivision of T. 43 S., R. 4 E.

Chains	
32.60	Top of raise, brs E. and W.; gently desc.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in mound of stone, 5 ft. base, on bedrock, for the ¼ sec. cor., with brass cap marked ¼ S7 | S8 1917 No rock available for accessory mound of stone.
44.00	S. edge of gulch, brs NW. and SE.; desc.
51.00	Wash, 20 lks. wide, 2 ft. deep, in bottom of gulch, 80 ft. deep, course S.60°E., also junction of gully from the N. Gradually asc. along bottom of gully from N.
59.00	Leave same from N.30°W. to S.; asc. abruptly 75 ft. to
72.00	Top of ascent or point bet. gullies, projects W. 2 chs. Desc. 40 ft. to
77.00	Ravine, course SW.; thence along W. edge of same.
80.00	On E. slope. Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in ground to bedrock, and in a mound of stone, for cor. secs. 5,6,7 and 8, with brass cap marked T43S | R4 E S6 | S5 S7 | S8 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, broken and rolling; exposure and drainage to E. on S. 51 chs. and to S. on remainder.
	Soil, rocky, sandstone outcrops, with light sandy and some blue clay; formation sandstone and shalerock.
	Undergrowth, sparse shadscale, brigham-tea, greasewood and grass.
	No timber. Fair grazing.
	Note: Along the main gulch crossed at 51chs. coal outcropping were noticed, veins from 1 to 3 ft. thick.

Chains

S. 89° .5½' E., on random line, bet. secs. 5 and 8.

40.00 Set temp. ¼ sec. cor.

79.82 Intersect the N. and S. line, 2 lks. S. of the cor. secs. 4, 5, 8 and 9.

Thence,

N. 89° 56' W. on true line, bet. secs. 5 and 8.

Over rolling land.

17.00 Begin descent over rim rock, brs NW. and S.60°E.

20.00 Draw, 15 ft. deep, course SW. to S.

28.00 Base of rim rock, 35 ft. below top, brs NW. and S.70°E.

39.91 On gentle W. slope.

Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in ground to bedrock, and in mound of stone, 5 ft. base, for ¼ sec. cor., with brass cap marked

$$\frac{S5}{S8}\ 1917$$

No rock available for accessory mound.

53.05 Gully, 20 ft. deep, course SW.

77.75 Swale, drains S.30°W.

79.82 The cor. of secs. 5,6,7 and 8.

Land, rolling and broken, exposure and drainage to S.

Soil, rocky with sandstone outcrops and bedrock, and light shallow sandy and clay loam.

Undergrowth, very sparse shadscale, sage and grass.

No timber. Poor grazing.

S. 89° 53' W., on random line, bet. secs. 6 and 7.

40.00 Set temp. ¼ sec. cor.

73.19 Intersect W. bdy. of tp., 9 lks. S. of cor. secs. 1,6, 7 and 12 described in survey of T.43 S.,R.3 E.

Thence,

N. 89° 57' E., on true line, bet. secs. 6 and 7.

Over rolling and low broken land.

Subdivision of T. 43 S., R. 4 E.

Chains	
0.20	Wash, 6 lks. wide, 2 ft. deep, course SE.
8.20	Wash, 30 lks. wide, 3 ft. deep, course S.10°E.
30.80	Center of coal prospects brs. S.30°W., 12 chs. dist., in north side of gulch; these tunnels have been opened up for about 150 ft. in veins 2 to 4 ft. thick.
38.19	On a SW. slope. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S6 / S7 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
73.50	Draw, 30 ft. deep, course S.
78.19	The cor. of secs. 5,6,7 and 8. Land, rolling and low broken; slope and drainage to SE. Soil, rocky of sandstone and shale formation, with sandy and blue clay loams. Undergrowth, sparse shadscale, match-brush and grass. No timber. Poor grazing.
	N. 0° 16' E., on random line, bet. secs. 5 and 6.
40.00	Set temp. ½ sec. cor.
80.70	Intersect N. bdy. of tp., 16 lks. E. of cor. secs. 5;6,31 and 32 heretofore described.
	Thence,
	S. 0° 09' W., on true line, bet. secs. 5 and 6.
	Over rolling land, facing to the S.
	Gradually desc.
31.80	Wash, 5 lks. wide, 1 ft. deep, course SW to S.
40.70	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S6 | S5 1917

Subdivision of T. 43 S., R. 4 E.

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
42.70	Same wash, 5 lks. wide, 1 ft. deep, course SE.
59.40	Stock trail, brs NE. and S.70°W.
80.70	The cor. of secs. 5, 6, 7 and 8.

Land, rolling bench, facing and draining to the S.

Soil, deep blue clay, with scattered sandstone outcrops and some light sandy.

Undergrowth, sparse shadscale, match-brush and greasewood.

No timber. No grazing.

Latitudes, departures and closing errors.

Lines designated	True bearings	Distances	Latitudes N.	Latitudes S	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
S. bdy.	East	478.92	-----	----	478.92	------
E. bdy.	North	480.00	480.00	----	------	------
N. bdy.	N.89°57'W	478.35	--0.42	----	------	478.35
W. bdy.	South	480.93	------	480.93	------	------
Convergency			-----	------	------	0.55
	Totals -------		480.42	480.93	478.92	478.90
				480.42		
	Error in latitude --			0.51		
					478.90	
	Error in departure				0.02	

General Description of T.43 S.,R.4 E.

This township contains mostly broken and rolling bench and mesa lands, lying along Warm creek, which drains the greater portion. The south-west part of the tp. drains south into Wahweap creek. The higher or mesa land is found in the NE. corner and along the W. half of the tp., the rim of this mesa is a red and white

General Description of T. 43 S., R. 4 E.

sandstone break or wall, ranging from 200 to 700 ft. in height. This wall is nearly vertical and is inaccessible excepting at a very few places. Rolling, sandy bench lands lie under this mesa.

Warm creek, a dry channel, having a southerly course, enters the tp. in sec. 4 and leaves it at the SE. cor. of tp. A small seep springs up in the bottom of this channel in the SE. ¼ of sec. 26, flows for approximately half mile before sinking. Very small seeps were also found as follows: In head of deep box gulch in NE ¼ of sec 24; in gulch in NW ¼ of sec. 32; and in gulch in SE. ¼ of sec. 32. All the water found in the tp. contains considerable magnesia, epsom salts, alkali etc. This constitutes all the water found in the tp.

The soil throughout the township is principally a loose, dry light sand, on some portions being deep, but generally on sandstone bedrock, and sandstone bedrock and outcrops; there is some blue clay in the NW. corner of tp.

There is no timber in the tp.; undergrowth of short, sparse shadscale, greasewood, brigham-tea, oose and bunch grass is found throughout the tp.

Numerous indications of coal were found in the northwestern portion in secs. 5, 6, and 7. These veins are from 1 to 3 ft. thick, lying near the surface in most cases and appear to be broken up. Along the N. side of a gulch in sec. 7, several small tunnels have been dug from 50 to 150 ft. in length, the veins here seem to pinch out.

I recommend that secs. 5, 6, and 7 be set aside as coal lands.

This township is valuable only for grazing purposes, for which it is now being used. The higher mesa lands can only be grazed during the winter months, because of lack of water.

In the SE. ¼ ~~sec. 26~~ 4,6 there are two stone cabins and a small rock corral, were built and used by a mining company. Now abandoned.

There are no settlers in the tp.

We found no other indications of mineral in the tp.

Water Locations in T. 43 S., R. 4 E.

Sec. 24, NW ¼ of NE ¼ .

Sec. 26, SE ¼ .

Sec. 35, NE ¼ of NE ¼.

Sec. 32, W ½ of NW ¼. and W ½ of SE ¼.

Should be set aside as public watering places.

Andrew Nelson

U.S. Transitman.

Volume
#
R0434

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Page

4—680

BOOK A-434

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.	
Frank Romney	Nov. 1, 1917	Nov. 23, 1917	Chainman
Lacell Bird	"	"	"
Wayne Clark	"	"	"
Richard Huntington	"	"	"
Wilfred Williams	"	"	Cornerman
James Stewart	"	"	Cornerman and flagman
Frank H. Clark	"	"	Flagman
The above assistants were employed in the survey of T. 43 S., R. 4 E.			

Subscribed and sworn to before me this date of the above names.

Andrew Nelson

U. S. Surveyor
Transitman

6—2761

CERTIFICATE

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

I, ~~We,~~ Andrew Nelson, and Elliot Bird, 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 1st day of Feb. 1916, ~~We~~ I have well, faithfully, and truly ~~our~~ my own proper persons 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 ____, south, and north boundaries and the subdivision of T. 43 S., R. 4 E. and the east boundary or First Guide Meridian East through Township 43 South, between Ranges 4 and 5 East 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~~ us, and under ~~my~~ our direction; and ~~I~~ we certify on honor ~~solemnly swear~~ 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 date diagram on page 1 on dates shown on

Salt Lake City, Utah, Feb. 23, 1918 Andrew Nelson

Salt Lake City, Utah, Feb. 2, 1918 Elliot Bird

U. S. ~~Surveyor~~ Transitmen

~~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, Nov. 26, 1918

The foregoing field notes of the survey of the east boundary or First Guide Meridian East through Township No. 43 South, between Ranges 4 and 5 East, the north and south boundaries and subdivision of Township No. 43 South, Range No. 4 East of the Salt Lake Base and Meridian, Utah,

executed by Andrew Nelson and Elliot Bird under his special instructions dated February 1, 1916, 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.

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U. S. Surveyor General.

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BOOK A-434 A

FIELD NOTES

U. S. Surveyor General's Office
FEB 2 1918
SALT LAKE CITY, UTAH

OF THE SURVEY OF THE

RETRACEMENT AND RESURVEY OF THE SOUTH BOUNDARY, OF T. 32 S., R. 23 E.;
RESURVEY OF PORTION OF THE COLORADO GUIDE MERIDIAN
THROUGH T. 32 S., BETWEEN Rs. 23 and 24 E.;
RETRACEMENT AND RESURVEY OF PORTION OF SUBDIVISIONS AND
SURVEY OF THE SUBDIVISION OF T. 32 S., R. 23 E.,

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

RALPH GENTRY,

In the capacity of U. S. Surveyor and Cadastral Engineer, *under instructions dated* July 27, *1916*

Issued by the United States Surveyor General to govern surveys included in Group No. 58, *which were approved by the Commissioner of the General Land Office,* Oct. 18, *1916.*

Assignment instructions dated June 17, 1917.

Survey commenced July, 3, *1917*

Survey completed September 4, *1917*

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A Plat F.B.B. Notes F.B.B.

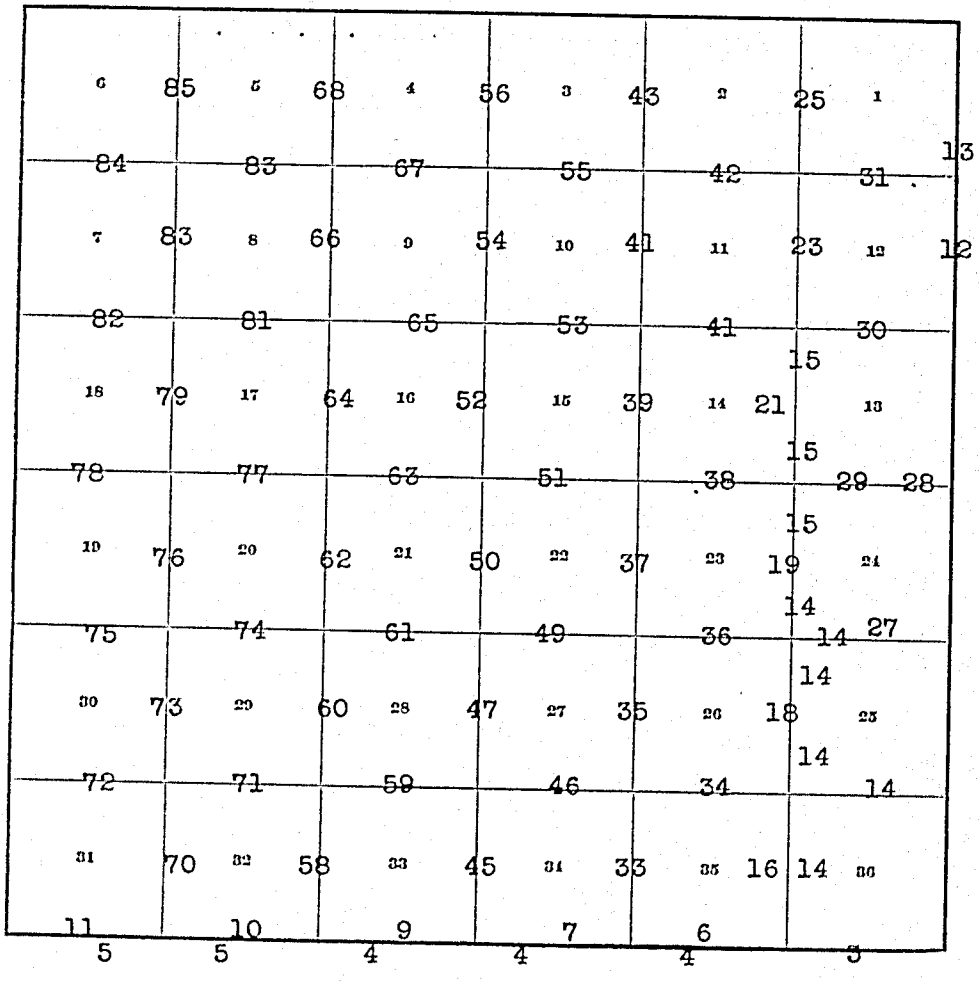
B Computations F.B.B.

C Comparing Plat W.F. Notes K.F.B.

BOOK A-134

INDEX DIAGRAM.

Township 32 South, *Range* 23 East.



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BOOK A-434

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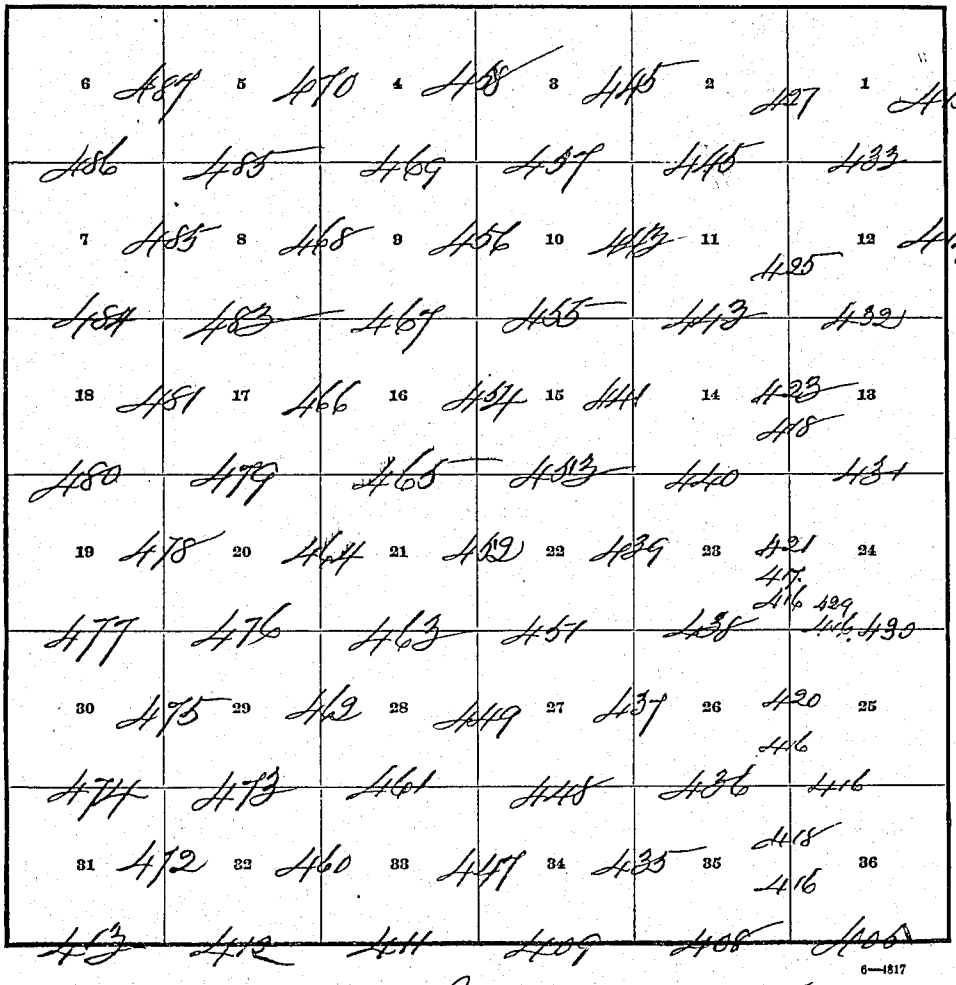
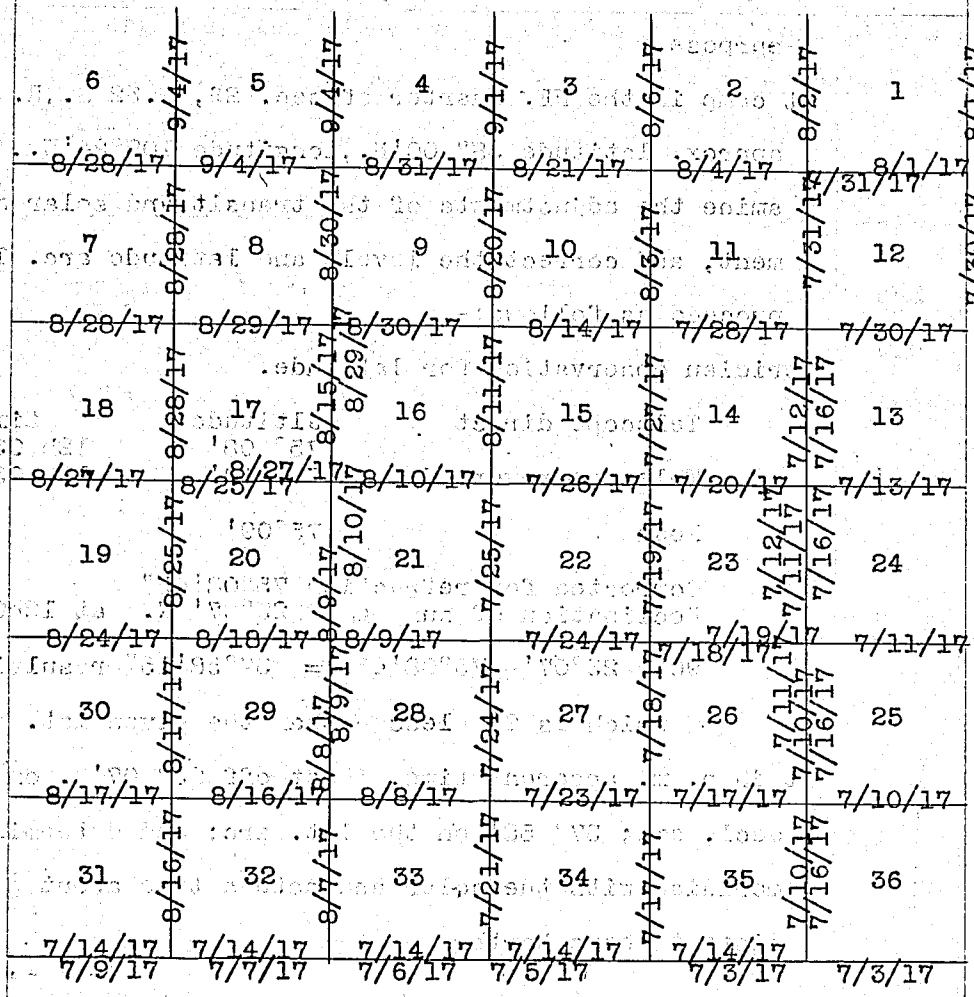
INDEX DIAGRAM.

Township 32 S., Range 23 E



Retracement 405-408

DATE DIAGRAM OF T.32 S.,R.23 E.



RETRACEMENT OF THE SOUTH BOUNDARY OF T.32 S.,R. 23 E.

Survey commenced July 1. 1917, and executed with a Buff and Buff transit No. 8028, with a full vertical circle and a Smith Solar attachment. The horizontal limb 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 vertical circle and of the latitude and declination arcs.

The instrument was approved by the assistant supervisor of surveys,district No. 6, subject to satisfactory field tests.

A steel tape, 5 chains long was used to make all measurements, together with a clinometer for determining slope angles. The tape was tested, comparisions being made

RETRACEMENT OF THE SOUTH BOUNDARY OF T. 32 S.,R.23 E.

CHAINS

with a standard steel tape, 1 chain long kept for this purpose.

At camp in the NE. quarter of sec. 26, T.32 S.,R. 23 E., approx. latitude 38° 00'N.,longitude 109°24'W., I examine the adjustments of the transit and solar attachment, and correct the levels and latitude arc. Then I proceed as follows:-

Meridian observation for latitude.

	altitude	time
Telecope direct	75° 08'	12h 03m l.m.t.
Telecope reversed	75° 10'	12h 03½ml.m.t.
Mean	75°09'	

Corrected for refraction 75°08'45"
Declination of sun at 12h 23°07' N. at 12h03½m.l.m.t
90°+ 23°07'- 75°08'45" = 37°58'15" resulting lat.
which is 2' less than the given lat.

At 4h p. m. apparent time, I set off 23° 07'N. on the decl. arc; 37° 58' on the lat. arc; and determine a meridian with the solar and note a tree about ½ mile distant bears North.

July 1, 1917

July 2:- At 0h 55m. a. 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, on a stake driven in the ground about 5 chs. N. of my station.

At 7h 30m a.m., apparent time, I lay off the azimuth of Polaris, 1° 27' to the west, and find that the tree noted July 1, bears N.0° 01'E.

At 8h a.m.,apparent time, I set off 37° 58' on the lat. arc; 23° 05'N. on the decl. arc; and determine a meridian with the solar. This meridian corresponds with the meridian determined by observations on Polaris.

The solar apparatus by a.m. and p.m. observations defines positions for meridians that do not vary more than one minute from the true meridian, I therefore conclude that the adjustments of the instrument are satisfactory.

No magnetic declination was determined on account of defective needle.

CHAINS	
	Note:- The instrument was kept in good adjustment, and frequently tested by comparing its indications with a meridian established by observations made on Polaris, during the execution of this survey.
	I commence at the cor. of Tps. 32 and 33 S.,Rs. 23 and 24 E., which is a sandstone, 12 x 10 x 6 ins, marked with 6 notches on N. E.,S., and W., edges, and witnessed by an old mound of stone to the S.
	Thence I retrace
	West, bet. secs. 1 and 36.
	Over rolling land, through undergrowth of sage brush and grass.Grain field S. of line.
33.20	Wash, 40 lks. wide, 4 ft. deep, course NE.
39.22	4 wire fence, brs. N. and S.
40.00	Point falls in state road, Monticello to Moab, brs. N. and S.
	No trace of the old cor. can be found.
40.78	4 wire fence, brs. N. and S.
	Enter cultivated land.
52.00	Stake fence, brs. N. and S.
63.40	Stake fence, brs. NE., and SW.
80.08	Fall 3 lks. S. of a cedar post, which the settlers informed me was set at the point for the cor. I was unable to find any trace of the stone cor.
	I re-establish this cor. as follows:-
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground along side of the cedar post, for the cor. of secs. 1, 2, 35 and 36, marked on brass cap
	T32S | R23E S35 | S36 T33S | R23E S 2 | S 1 1917
	and dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft.dist.
	The course of this mile is therefore, N.89° 59'W., and the dist. is 80.08 chs.
	Land to the N. of the E. half mile, rolling sage brush,

CHAINS	
	and the land S. of the E. half mile and of the W. half mile is gently rolling and under cultivation. Soil, rich sandy loam
	Undergrowth, sage brush and grass.
	No timber.

	From the cor. of secs. 1, 2, 35 and 36, I retrace West, bet. secs. 2 and 35.
40.00	Set temp. cor.
	After diligent search no trace of the old cor. is found.
80.54	Fall 18 lks. S. of the cor. of secs. 2, 3, 34 and 35, which is a sandstone, 10 x 8 x 4 ins. above the ground, marked as described by the surveyor general, and witnessed by four bearing trees.
	The course of this line is therefore, N.89° 52'W., and the dist. is 80.54 chs.

	From the cor. of secs. 2, 3, 34 and 35, I retrace West, bet. secs. 3 and 34.
40.21	Fall 5 lks. S. of the ¼ sec. cor., which is a cedar post, 4 ins. square, 4 ft. above the ground, marked as described by the surveyor general and witnessed by two bearing trees.
80.24	Fall 31 lks. S. of the cor. of secs. 3, 4, 33 and 34, which is a sandstone, 14 x 12 x 4 ins. above the ground marked as described by the surveyor general and witnessed by four bearing trees.
	The course of the E. half mile is therefore N.89° 56'W., and the dist. is 40.21 chs.; and the course of the W. half mile is N.89° 38'W., and the dist. is 40.03 chs.

	From the cor. of secs. 3, 4, 33 and 34, I retrace West, bet. secs. 4 and 33.
39.82	Fall 27 lks. N. of the ¼ sec. cor., which is a pinon post, 4 ins. square, marked ¼ S 33 on N. and S. 4 on S. faces, and witnessed by two bearing trees.

RETRACEMENT OF THE SOUTH BOUNDARY OF T.32 S., R. 23 E.

CHAINS

78.64 Fall 33 lks. N. of the cor. of secs. 4. 5. 32 and 33, which is a sandstone, 14 x 12 x 6 ins., marked as described by the surveyor general and witnessed by three bearing trees.

The course of the E. half mile is therefore S.89° 37'W., and the dist. is 39.82 chs.; and the course of the W. half mile is S.89° 55'W., and the dist. is 38.82 chs.

From the cor. of secs. 4, 5, 32 and 33, I retrace West, bet. secs. 5 and 32.

40.76 Fall 18 lks. S. of the 1/16 sec. cor., which is a sandstone, 18 x 10 x 8 ins., marked 1/16 on N. face, from which

A pinon, 20 ins. in dia., brs. S.17½°E., 35 lks. dist. marked 1/4 S 5 B T.

A pinon, 20 ins. in dia., brs. N.18°W., 61 lks. dist., marked 1/4 S 32 B T.

80.26 Fall 27 lks. S. of the cor. of secs. 5, 6, 31 and 32, which is a sandstone, 10 x 10 x 3 ins., above the ground marked as described by the surveyor general, from which

A pinon, 10 ins. in dia., brs. N.88°E., 100 lks. dist., marked T 32 S R 23 E S 32 B T.

A pinon, 10 ins. in dia., brs. S.89°E., 117 lks. dist., marked T 33 S R 23 E S 5 B T.

The course of the E. half mile is therefore N.89° 45'W., and the dist. is 40.76 chs., and the course of the W. half mile is N.89° 52'W., and the dist. is 39.50 chs.

From the cor. of secs. 5, 6, 31 and 32, I retrace West, bet. secs. 6 and 31.

39.98 Fall 3 lks. S. of the 1/4 sec. cor., which is a sandstone, 15 x15 x 14 ins., marked as described by the surveyor general, from which

A pinon, 12 ins. in dia., brs. N.70°W., 39 lks. dist., marked 1/4 S 31 B T.

A pinon, 8 ins. in dia., brs. S.56°W., 27 lks. dist., marked 1/4 S 6 B T.

CHAINS	
78.36	Fall 8 lks.S. of the cor. of T.33 S.,Rs. 22 and 23 E., which is a sandstone 10 x 10 x 8 ins., marked as described by the surveyor general, from whihh
	A pinon, 2 ins. in dia., brs. S.50°45'E., 59 lks. dist., marked T 33 S R 23 E S 6 B T.
	A pinon, 5 ins. in dia., brs. S.59°45'W., 35 lks. dist., marked T 33 S R 22 E S 1 B T.
84.76	Fall 8½ lks. S. of the cor. of T.32 S.,Rs. 22 and 23 E., which is an iron post, 3 ins. in dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general.

The course of the E. half mile is therefore N.89° 57'W., and the dist. is 39.98 chns., and the course of the W. half mile is N.89° 56'W., and the dist. is 44.78 chs.

RESURVEY OF THE SOUTH BOUNDARY OF T.32 S.,R. 23 E.

The S. bdy. being out of the allowable limit in distances I resurvey it as follows

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

	N.89° 52'W., along the S. bdy. of sec. 35
	Over gently rolling hay land.
3.20	Vega creek, 1 ch. wide, 15 ft. deep, stream of clear water, 10 lks. wide, 6 ins.deep, course NE.
	Thence along creek.
5.40	Leave Vega Creek, drains from SW.
27.50	Wire fence, brs. N.89°57'E., and S.89°57'W.
34.50	Irrigating canal, 20 lks. wide, 2 ft. deep, course NE.
38.20	Irrigating canal, 20 lks. wide, 2 ft. deep, course N.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. of sec. 35, marked on brass cap
	¼S 35 / 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post 3 ft. dist.

CHAINS	
	From this ¼ sec.cor., the SE. cor. of lumber house brs. N.1° 55'W.
	Wind wheel, brs. N.0° 40'W.
40.27	I re-establish ¼ sec. cor., for sec. 2, by setting an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, marked on brass cap " ¼ S 2 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
	Leave hay land, enter medium growth of sage brush and grass.
53.80	Irrigating canal, 10 lks. wide, 2 ft. deep, course N.
59.60	Road, brs. NE., and S.89° 57'W.
60.00	Enter scattering cedars and pinon timber, brs. N. and S.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 34 and 35, marked on brass cap T32S | R23E S34 | S35 1917
	From which A cedar, 8 ins. in dia., brs. N.23°E., 60 lks. dist., marked T 32 S R 23 E S 35 B T. A cedar, 12 ins.in dia., brs. N.29°15'W., 51 lks. dist., marked T 32 S R 23 E S 34 B T.
	Land, gently rolling, Drainage E.
	Soil, rich sandy loam. E. half mile under cultivation.
	Undergroth; sage brush and grass.
	Timber, scattering cedars and pinon on W. 20.00 chns.

	N.89° 52'W., along S. bdy. of sec. 34, on resurvey.
	Over rolling land; through undergrowth of sage brush, and grass, and scattering cedars and pinon pine.
0.20	Wire fence, brs. N. and S.
0.54	The old cor. of secs. 2 and 3, hereinbefore described.
	Thence

CHAINS

N.89° 56'W., along S. bdy. sec. 34.

16.20 Wire fence, brs. N. and S.

21.00 Enter dense timber and scattering sage brush and grass, brs. N. and S.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 34, with brass cap marked

$\frac{1}{4}$ S 34

1917

From which

A cedar, 4 ins. in dia., brs. N.77°E., 27 lks. dist., marked $\frac{1}{4}$ S 34 B T.

A pinon, 10 ins. in dia., brs. N.33°45'W., 22 lks. dist., marked $\frac{1}{4}$ S 34 B T.

40.75 The old $\frac{1}{4}$ sec. cor., of sec. 3, hereinbefore described.

Thence N.89° 38'W., continous measurement.

44.50 Road, brs., N. and S.

75.45 Wash, 10 lks. wide, 2 ft. deep, course N.30°E.

Ascend.

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

T32S | R23E
S33 | S34

1917

From which

A pinon, 8 ins. in dia., brs. N.65°15'E., 5 lks. dist., marked T 32 S R 23 E S 34 B T.

A cedar, 5 ins.in dia., brs. N.11°30'W., 30 lks. dist., marked T 32 S R 23 E S 33 B T.

Land gently rolling. Drainage to the E.

Soil, rich sandy loam on a subsoil of clay.

Undergrowth, sage brush and grass.

Timber, cedars and pinon pine.

CHAINS	
	N.89° 38'W., along S. bdy. of sec. 33, on resurvey line. Ascend over rolling hill, through scattering sage brush and grass undergrowth and dense cedars and pinon.
0.78	The old cor. of secs. 3 and 4, hereinbefore described.
	Thence S.89° 37'W.,
8.00	Top of ascent, 60 ft. above sec. cor., brs. NW. and S. Thence over level top.
30.00	Descend, brs. NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins.in the ground, for ¼ sec. of sec. 33, marked on brass cap ¼ S 33 1917 From which A cedar, 8 ins. in dia., brs. N.48°15'E., 155 lks. dist., marked ¼ S 33 B T. A pinon, 10 ins. in dia., brs. N.0°55'W., 94 lks. dist., marked ¼ S 33 B T.
40.60	The old ¼ sec. cor. of sec. 4, hereinbefore described.
	Thence , S.89° 55'W., along S.bdy. sec. 33.
50.15	Wash, 60 ft. below top of descent, 10 lks. wide, 1 ft.deep course N. Thence over rolling land sloping N.
74.50	Wash, 1 ch. wide, 10 ft. deep, course N.
79.42	The old cor. of secs. 4 and 5, hereinbefore described.
	Thence , N.89° 45'W., along S. bdy. of sec. 33.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor.of secs. 32 and 33, marked on brass cap T32S | R23E S32 | S33 1917 From which A pinon, 18 ins. in dia., brs. N.51°45'E., 8 lks. dist., marked T 32 S R 23 E S 33 B T. A cedar, 16 ins. in dia., brs. N.40°30'W., 21 lks. dist., marked T 32 S R 23 E S 32 B T.

CHAINS

Land, rolling and rolling hills. Drainage N.

Soil, sandy loam and loose rocks and gravel.

Undergrowth, scattering sage brush and grass.

Timber, dense cedars and pinon pine.

N.89° 45'W., along the S. bdy. of sec. 32 on resurvey line

Over rolling land, through dense cedars and pinon, and scattering sage brush and grass.

15.70 Wash, 150 lks. wide, 20 ft. deep, course N.

18.00 Wash, 1 ch. wide, 20 ft. deep, course NE.

30.00 Descend into ravine, brs. NE. and SW.

33.20 Creek, 80 ft. below top, clear water, 10 lks wide, 3 ins. deep, course NE. Ascend.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. of sec. 32, with brass cap marked

¼ S 32

1917

From which

A pinon, 5 ins. in dia., brs. N.65°E., 57 lks. dist., marked ¼ S 32 B T.

A pinon, 12 ins. in dia., brs. N.33°30'W., 70 lks. dist., marked ¼ S 32 B T.

40.18 The old ¼ sec. cor., of sec. 5, hereinbefore described.

Thence N.89° 52'W., along the S. b dy. of sec. 32.

45.00 Top of ascent, 150 ft. above creek, slopes S. Descend.

50.30 Ravine, 100 ft. below top of ascent, course S. Ascend.

55.00 Top of ascent, 75 ft. above ravine, brs. N. and S.

Ascend gradually over rolling land.

79.68 The old cor. of secs. 5 and 6, hereinbefore described.

80.00 Thence N. 89° 57' W. along S bdy. of Sec. 32, Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 31 and 32, marked on brass cap

T32S | R23E
S31 | S32

1917

CHAINS	
	From which
	A cedar, 18 ins. in dia., brs. N.55°30'E., 141 lks. dist., marked T 32 S R 23 E S 32 B T.
	A cedar, 4 ins. in dia., brs. N.17°45'W., 318 lks. dist., marked T 32 S R 23 E S 31 B T.
	Land, rolling and broken by ravines draining NE.
	Soil, sandy loam, loose rocks and gravel on a subsoil of clay and gravel.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon pine.

	N.89° 57'W., along S. bdy. of sec. 31, on resurvey line.
	Over rolling land, through sage brush and grass undergrowth and scattering cedars and pinon pine.
20.00	Enter dense timber, brs. N. and S.
30.00	Enter scattering timber, brs. N. and S.
39.66	The old ¼ sec. cor. of sec. 6, hereinbefore described. Thence N.89° 56'W., along S. bdy. of sec. 31.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. of sec. 31, marked on brass cap ¼ S 31 1917
	From which
	A pinon, 11 ins. in dia., brs. N.38°E., 268 lks. dist., marked ¼ S 31 B T.
	A pinon, 10 ins. in dia., brs. N.11°W., 74 lks. dist., marked ¼ S 31 B T.
78.04	The cor. of T.33 S.,Rs. 22 and 23 E., hereinbefore described.
84.44	The cor. of T.32 S.,Rs. 22 and 23 E., hereinbefore described.
	Land, rolling. Drainage E.
	Soil, sandy loam and scattering loose rocks, Clay subsoil
	Undergrowth, sage brush and grass.
	Timber, cedars and pinon pine.

CHAINS	
	From the closing cor.of secs. 12 and 13, on E. bdy. of Tp., hereinafter described.
	North along E. bdy. of sec. 12 on random line.
1.68	The old cor. of secs. 12 and 13, which I changed to A. P. as hereinafter described.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
41.74	The old $\frac{1}{4}$ sec. cor., which is an iron post, 1 in. dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general. I destroy the marks on this cor. and mark it A P.
79.96	Fall 1 lk. W. of the closing cor. of secs. 1 and 12, hereinafter described.
	South, along E. bdy. of sec. 12, on true line.
	Ascend over rough and broken slope of mesa, through cedars and pinon pine and scattering undergrowth of sage brush, iron brush and grass.
38.22	The old $\frac{1}{4}$ sec. cor., which I marked as A P.
3 9.98	Point midway bet. closing cors. of secs. 1 and 12, and and secs. 12 and 13; 100 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 12, marked on brass cap $\frac{1}{4}$ S12 | 1917
	From which
	A cedar, 6 ins. dia., brs. N.48°30'W., 26 lks. dist., marked $\frac{1}{4}$ S.12 B T.
	A cedar, 5 ins. dia., brs. S.15°30'W., 74 lks. dist., marked $\frac{1}{4}$ S 12 B T.
	Ascend abruptly over sandstone ledges.
45.00	Top of ledges and mesa, 200 ft. above $\frac{1}{4}$ sec. cor., brs. NE. and SW.
	Thence over rolling mesa top.
53.00	Leave dense timber, enter dense sage brush and scattering timber, brs. E. and W.
7'&28	A 3 in. iron post marked A P.

CHAINS	
79.96	The closing cor. of secs. 12 and 13.
	Land of the N. 45.00 chs., rough and broken slope of of mesa, draining NW. and of the S. 34.96 chs. rolling mesa top, draining S.
	Soil of the N. 45.00 chs. sandy loam and loose rocks and of the S. 34.96 chs. rich sandy loam.
	Undergrowth, sage brush and grass.
	Timber, cedars and pinon on N. 55.00 chs.
	From the closing cor. of secs. 1 and 12
	North, along E. bdy. of sec. 1, on random line.
1.77	The old cor. of secs. 1 and 12, which I changed to A. P. as hereinafter described.
41.77	The ¼ sec. cor. of secs. 1 and 6, which is an iron post, 1 in. dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general. I destroy the marks on this post and mark it A P. on brass cap.
	Thence
	South, along E. bdy. of sec. 1, on true line
	Ascend over rough and broken slope of mesa, through cedars and pinon pine.
1.77	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., of sec. 1, marked on brass cap ¼ S 1 | 1917
	From which
	A cedar, 7 ins. dia., brs. N.9°30'W., 28 lks. dist., marked ¼ S 1 B T.
	A cedar, 10 ins.dia., brs. West, 28 lks. dist., marked ¼ S 1 B T.
40.00	The old cor. of secs. 1 and 12, marked as A P.
41.77	The closing cor. of secs. 1 and 12.
	Land, rough and broken slope of mesa, draining NW.
	Soil, sandy loam and loose rocks, sandstone formation.
	Timber, cedars and pinon pine Undergrowth, scattering sage brush and grass.

CHAINS	
	From the cor. of secs. 1, 2, 35 and 36, on S. bdy. of Tp., I retrace North, bet. secs. 35 and 36, on blank line.
40.00	After diligent search no trace of the old cor. was found. Set temp. ¼ sec. cor.
80.00	After diligent search no trace of the old cor. was found. Set temp. cor. for secs. 25, 26, 35 and 36. I continue North, bet. secs. 25 and 26, on blank line.
122.94	Fall 137 lks. W. of the ¼ sec. cor., bet. secs. 25 and 26 hereinafter described. I return to the temp. cor. of secs. 25, 26, 35 and 36, which I move 196 lks. N. and 91 lks. E. to a point on line and at proportionate dist., bet. the ¼ sec. cor. bet. secs. 25 and 26, and the cor. of secs. 1, 2, 35 and 36, whence I retrace East, bet. secs. 25 and 36, on a blank line.
40.00	After diligent search, no trace of the old cor. was found.
79.64	Fall 74 lks. N. of the cor. of secs. 25 and 36, on E. bdy. of Tp. which is an iron post, 3 ins. dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general. This dist. differs with the original dist. by 36 lks. I place half of this error in the line bet. secs. 25 and 36, making the dist. 79.82 chs. and the course S.89°28'E. This makes the course of the line bet. secs. 35 and 36, N.0°31'E., and the dist. 81.96 chs., and the course of the S. half mile of the line bet. secs. 25 and 26, N.0°54'E., and the dist. 40.99 chs., for the re-established point for the cor. of secs. 25, 26, 35 and 36.

	From the ¼ sec. cor., bet. secs. 25 and 26, I retrace North, bet. secs. 25 and 26, on blank line.
40.00	After diligent search, no trace of the old cor. of secs. 23, 24, 25 and 26 was found. Set temp. sec. cor. I continue North on blank line, bet. secs. 23 and 24,

CHAINS

80.26 Fall 61 lks. E. of the ¼ sec. cor., bet. secs. 23 and 24, hereinafter described.

I return to the temp. cor. of secs. 23, 24, 25 and 26, which I move 13 lks. N., and 30½ lks. W., to point on line and at proportionate dist., bet. the ¼ sec. cor. bet. secs. 25 and 26 and the ¼ sec. cor. bet. secs. 23 and 24, thence I retrace

East, bet. secs. 24 and 25, on blank line.

40.60 Fall 81 lks. S. of the ¼ sec. cor. bet. secs. 24 and 25 hereinafter described.

This dist. differs with the original dist. by 56 lks. I place half of this error in the line of the W. half mile bet. secs. 24 and 25, making the dist. 40.33 chs. and the course N.88°51'E. This makes the course of the line of the N. half mile bet. secs. 25 and 26, N.0° 02'W., and the dist. 40.13 chs., and the course of the line of the S. half mile bet. secs. 23 and 24, N.0° 50' W., and the dist. 40.14 chs.

From ¼ sec. cor. bet. secs. 23 and 24, I retrace

North, bet. secs. 23 and 24, on blank line.

40.00 After diligent search, no trace of the old cor. of secs. 13, 14, 23 and 24 was found. Set temp. cor.

80.60 Fall 178 lks. W. of point for ¼ sec. cor. bet. secs. 13 and 14, which I re-establish from two old bearing trees as follows:

(Note:- Two old bearing trees, one on E. and one on W. bank of creek, are marked and answer the description of the two trees, given in the old notes, at the cor. of secs. 13, 14, 23 and 24. If I measure S.72°E., 39 lks. dist. from the W. tree, as given in the notes, it gives a point on W. bank of creek, and opposite to where a point falls with respect to the E. tree. I therefore assume the bearing of the tree should be S.72°W., instead of N.72°W. as given. The tree on E. bank of creek is 6 lks. from bank, which bank shows

CHAINS

evidence of washing away and the W. bank does not show any evidence of washing.)

From the E. tree I measure W. 18 lks. dist. and set point No.1. From the W. tree I measure N.72°E., 39 lks. dist. and set point No. 2. From point No. 2, point No. 1 brs. N.32° 17'E., 20 lks. dist. I re-establish point for ¼ sec. cor. midway bet. point No. 1 and point No. 2. from which the E. tree bears N.70°E., 25 lks dist. and the W. tree bears S.64°15'W., 47 lks. dist. (I do not destroy the marks on these trees.)

The re-established point falls in bottom of creek.

The course of the line bet. the ¼ sec. cor. bet. secs. 23 and 24 and the ¼ sec. cor. bet. secs. 13 and 14, is therefore N.1°16'E., and the dist. is 80.62 chs.

From the re-established point for ¼ sec. cor. bet. secs. 13 and 14, I retrace

North, bet. secs. 13 and 14, on blank line.

38.44 Fall 291 lks. E. of the old cor. of secs. 11, 12, 13 and 14, hereinafter described.

The course of this line is therefore N.4° 20'W., and the dist. is 38.55 chs.

RESURVEY OF THE SUBDIVISIONS OF T.32 S.,R.23 E.

From the cor. of secs. 1, 2, 35 and 36, on S. bdy. of Tp., heretofore described, from which

SE. cor. of house brs. N.55°35'W.

Wind Wheel, brs. N.54°20'W.

N.0° 31'E., along E. bdy. of sec. 35, on resurvey line.

Over gently rolling land, through hay field.

4.00 Creek, 60 lks. wide, 20 ft. deep, stream of water course E.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor. of sec. 35, marked on brass cap

10 lks. wi

¼
S35

1917

Dig pits, 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.

CHAINS	
	Leave hay land, enter undergrowth of sage brush and grass
	Ascend gradually, over rolling land, brs. E. and W.
40.98	Proportionate dist., I re establish the ¼ sec. cor. as follows:
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor. of sec. 36, marked on brass cap ¼ | S 36 1917
	From which
	A cedar, 11 ins. dia., brs. N.75°30'E., 540 lks. dist., marked ¼ S 36 B T.
	A cedar, 12 ins. dia., brs. S.36°15'E., 432 lks. dist., marked ¼ S 36 B T.
	Note: There are a few scattering cedars E. of line.
42.70	Pole fence, brs. E. and W.
43.20	Road, brs. E. and W.
54.20	Irrigating canal, 20 lks. wide, 1 ft. deep, course N.50°E.
	Top of ascent, 40 ft. above ¼ sec. cor., brs. E. and W.
	Thence over rolling land.
59.70	Draw, course NE.
	Enter scattering cedar and pinon pine, brs. NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 26 and 35, marked on brass cap T32S | S26 / S35 | R23E 1917
	From which
	A pinon, 8 ins. dia., brs. S.86°W., 605 lks. dist., marked T 32 S R 23 E S 35 B T.
	A pinon, 5 ins. dia., brs. N.30°30'W., 185 lks. dist., marked T 32 S R 23 E S 26 B T.
	Land rolling.
	Soil, rich sandy loam on subsoil of clay.
	Undergrowth, sage brush and grass on N. half mile and the S. half mile is under cultivation.
	Timber, a few scattering cedars and pinon on N. portion

CHAINS

of mile.

N.0° 31'E., along E. bdy. of sec. 26, on resurvey line.

Over rolling land, through undergrowth of sage brush and grass, and very scattering cedars and pinon.

1.96 I re-establish the cor. of secs. 25 and 36 as follows:

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for. cor. of secs. 25 and 36, marked on brass cap

T32S
S25 | S36
R23E
1917

From which

A pinon, 5 ins. dia., brs. N.4°15'E., 169 lks. dist., marked T 32 S R 23 E S 25 B T.

A pinon, 4 ins. dia., brs. S.14°30'E., 48 lks. dist., marked T 32 S R 23 E S 36 B T.

N.0° 54'E., along E. bdy. of sec. 26, on resurvey line.

26.20 State road, brs. NW. and SE.

Descend into ravine, brs. E. and W.

31.30 Ravine, 85 ft. deep, course N.60°W. Ascend.

34.00 Top of sandstone ledge, 40 ft. above ravine, brs. N.60°W. and S.60°E. Enter dense timber, brs. N.60°W., and S.60°E.

Thence on level line over land sloping W.

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

¼
S26
1917

From which

A cedar, 16 ins. dia., brs. N.39°30'W., 20 lks. dist., marked ¼ S 26 B T.

A cedar, 16 ins. dia., brs. S.39°15'W., 52 lks. dist., marked ¼ S 26 B T.

42.95 The old ¼ sec. cor., for sec. 25, which is a sandstone, 12 x 12 x 4 ins., above the ground, firmly set, and

CHAINS	
	and marked ½ on W. face, from which
	A cedar, 16 ins. dia., brs. S.63°E., 29 lks. dist., marked ½ B T.
	A pinon, 20 ins. dia., brs. N.63°45'W., 50 lks. dist., marked ½ B T.
	Note:- I do not destroy the marks on either tree.
	N.0° 02'W., along the E. bdy. of sec. 26.Continous measurement.
47.40	Brush fence, brs. E. and W.
48.00	Enter scattering timber, brs. NE. and SW.
64.80	Brush fence, brs. NE. and SW.
66.00	Descend over sandstone ledge into canyon, brs. S.30°W., and N.30°E.
70.00	Bottom of canyon, 40 ft. below ledge, brs. S.30°W., and N.30°E. Thence along canyon bottom.
75.00	Stream of clear water, 6 lks. wide, 3 ins. deep, course N.10°E. Water seap along bottom.
80.01	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 23 and 26, marked on brass cap
	T32S S23 | S26 R23E 1917
	From which
	A cedar, 8 ins. dia., brs. S.38°30'W., 505 lks. dist., marked T 32 S R 23 E S 26 B T.
	A pinon, 5 ins. dia., brs. N.62°W., 230 lks. dist., marked T 32 S R 23 E S 23 B T.
	Land, rolling and broken by canyon. Drainage N.
	Soil, sandy loam and loose rocks and sandstone outcropings.
	Soil along bottom of canyon to the W. of line, a rich sandy loam.
	Undergrowth, sage brush and grass.
	Timber, cedars and pinon pine.

	N.0° 02'W., along E. bdy. of sec. 23, on resurvey line.
	Along W. side of canyon, through undergrowth of sage

CHAINS	
	brush and grass, and scattering cedars and pinon to the W. of line.
1.25	Pole fence, brs. N.1°E., and S.1°W.
3.07	Re-establish the cor. of secs. 24 and 25 as follows: Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 24 and 25, marked on brass cap T32S S24 | S25 R23E 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high E. of cor.
	N.0° 50'W.,along E. bdy. of sec. 23.
3.25	State road, brs. N.2°E.,and S.2°W., Monticello to Moab.
15.40	State road, brs. N.20°W., and S.2°E.,Monticello to Moab.
17.70	Pole fence, brs. N.20°W., and S.2°E.
17.80	Marsh in bottom of canyon, 1 ch. wide, drains N.20°W.
26.50	Enter dense timber, brs. NW. and SE. Telephone line, brs. NW. and SE., Monticello to Moab. Ascend along E. side of canyon, brs. NW. and SE.
36.50	Point of mesa and top of sandstone ledge, 105 ft. above bottom of canyon, brs. NE. and S.30°E. Descend over sandstone ledges.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., of sec. 23, marked on brass cap ¼ | S23 1917 From which A pinon, 10 ins. dia., brs. N.5°45'W., 20 lks. dist., marked ¼ S 23 B T. A pinon, 5 ins. dia., brs. S.79°W., 30 lks. dist., marked ¼ S 23 B T.
43.21	The old ½ sec. cor., of sec. 24, which is a sandstone, 20 x 12 x 4 ins., firmly set, marked and witnessed as described by the surveyor general.
	N.1° 16'E., along E. bdy. of sec. 23, Continous measurement.

RESURVEY OF THE SUBDIVISIONS OF T.32 S.,R.23 E.

CHAINS	
70.50	Creek in bottom of canyon, clear water, 10 lks. wide, 3 ins. deep, 150 ft. below point of mesa, drains from SW., to the NW. Ascend.
77.00	Point of spur, 45 ft. above creek, projects SW. Descend.
80.02	50 ft. below point of spur.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 14 and 23, marked on brass cap
	T32S S14 | S23 R23E 1917
	From which
	A cedar, 14 ins. dia., brs. S.32°15'W., 62 lks. dist., marked T 32 S R 23 E S 23 B T.
	A cotton-wood, 6 ins. dia., brs. N.58°W., 197 lks. dist., marked T 32 S R 23 E S 14 B T.
	Land, mountainous. Along slopes of canyon, draining N.
	Soil, sandy loam and loose rocks. Sandstone ledges.
	Undergrowth, sage brush and grass.
	Timber, cedars and pinon. Few scattering cotton-woods along bottom of canyon.

	N.1° 16'E., along E. bdy. of sec. 14, on resurvey.
	Over rough and broken land, through scattering sage-brush and grass and dense cedars and pinon timber.
	Descend.
2.45	Creek in bottom of canyon, 75 ft. below sec. cor., clear water, 10 lks. wide, 3 ins. deep, course N.60°E.
	Ascend.
3.50	Re-establish the cor. of secs. 13 and 24, as follows:
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 13 and 24, marked on brass cap
	T32S S13 | S24 R23E 1917

CHAINS	
	From which
	A cotton-wood, 6 ins. dia., brs. N.60°30'E.,112 lks dist., marked T 32 S R 23 E S 13 B T.
	A cotton-wood, 5 ins. dia., brs. S.89°E., 90 lks. dist., marked T 32 S R 23 E S 24 B T.
3.65	State road, brs. N.70°E., and SW., Monticello to Moab.
5.50	Point of spur, 60 ft. above creek, slopes E.
	Descend over rough and broken slope.
39.00	State road, brs. N.5°W., and S.5°E. Monticello to Moab.
40.05½	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., of sec. 14, marked on brass cap ¼ | S14 1917
	From which
	A pinon, 6 ins. dia., brs. S.85°W., 48 lks. dist., marked ¼ S 14 B T.
	A cedar, 4 ins. dia., brs. N.67°30'W., 46 lks. dist., marked ¼ S 14 B T.
43.81	Point for the re-established ¼ sec. cor. of sec. 13, in bottom of creek, which drains N.20°W.
	N.4° 20'W., along E. bdy. of sec. 14. Continous measurement.
44.31	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for witness cor. of ¼ sec. cor. of sec. 13, marked on brass cap WC | ¼ S13 1917
	From which
	A pinon, 8 ins. dia., brs. N.19°30'E., 37 lks. dist., marked W C ¼ S 13 B T.
	A pinon, 8 ins. dia., brs. S.33°30'E., 40 lks. dist., marked W C ¼ S 13 B T.
51.25	Creek, in bottom of canyon, course N.30°E.; 10 lks. wide. Ascend.
51.75	Telephone line, brs. N.50°E.,and S.60°W.

RESURVEY OF THE SUBDIVISIONS OF T.32 S.,R.23 E.

CHAINS	
52.00	State road, brs. N.2°E., and SW.
60.00	Top of ascent, 50 ft. above creek, slopes E.
	Descend over rough and broken surface.
80.11	200 ft. below top of ascent.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 11 and 14, marked on brass cap.
	T32S S11 S14 R23E 1917
	From which
	A pinon, 10 ins. dia., brs. S.25°15'W., 72 lks. dist., marked T 32 S R 23 E S 14 B T.
	A pinon, 10 ins. dia., brs. N.87°30'W., 32 lks. dist., marked T 32 S R 23 E S 11 B T.
	Land, along broken slope of canyon, Rough and broken.
	Soil, sandy loam and clay and loose rocks. Sandstone formation.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon.

	N.4° 20'W., along E. bdy. of sec.11, on resurvey line.
	Over rough and broken land, through scattering under - growth of sage brush and dense cedar and pinon timber.
	Descend.
0.50	Wash, in bottom of canyon, 50 lks. wide, 4 ft. deep, course N.70°E. Ascend over rough and broken slope.
2.25	The old cor. of secs. 12 and 13, which is a sandstone, 12 x 10 x 4 ins. above the ground, marked 2 notches on N. and 4 notches on S. and 1 notch on E. edges.
	A pinon, 10 ins. dia., brs. N.30°E., 77 lks. dist., marked T 32 S R 23 E S 12 B T.
	North, along E. bdy. of sec. 11.
40.00	Set an iron post, 3 ft. long, 1 in. dia.,12 ins. in the ground, to solid rock, and raise a mound of stone, 3 ft. base, 14 ins. high around post, for $\frac{1}{4}$ sec. cor.,

CHAINS	
	of sec. 11, marked on brass cap $\frac{1}{4}$ S11 | 1917
	From which
	A cedar, 12 ins. dia., brs. S.5°W., 43 lks. dist., marked $\frac{1}{4}$ S 11 B T.
	A cedar, 9 ins. dia., brs. N.81°30'W., 17 lks. dist., marked $\frac{1}{4}$ S 11 B T.
4 1.75	Top of ascent, 130 ft. above sec. cor., slopes E. Descend.
42.25	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground, to solid rock, and raise a mound of stone, 3 ft. base, 14 ins. high around post, for $\frac{1}{4}$ sec. cor., of sec. 12, marked on brass cap $\frac{1}{4}$ S 12 | 1917
	From which
	A cedar, 7 ins. dia., brs. N.7°E., 27 lks. dist., marked $\frac{1}{4}$ S 12 B T.
	A cedar, 10 ins. dia., brs. S.38°E., 9 lks. dist., marked $\frac{1}{4}$ S 12 B T.
	Note:- No trace of the old $\frac{1}{4}$ sec. cor. could be found.
46.50	Ravine, 70 ft. below $\frac{1}{4}$ sec. cor., course E. Ascend.
70.75	Top of ascent, 70 ft. above ravine, slopes E. Descend.
79.00	Ravine, 60 ft. below top of ascent, course S.80°E. Ascend.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 2 and 11, marked on brass cap T32S | S 2 / S11 R23E | 1917
	From which
	A cedar, 10 ins. dia., brs. S.65°W., 43 lks. dist., marked T 32 S R 23 E S 11 B T.
	A pinon, 10 ins. dia., brs. N.54°15'W., 59 lks. dist., marked T 32 S R 23 E S 2 B T.

CHAINS	
	Land, rough and broken, along slope of canyon. Drainage to the E.
	Soil, sandy loam, clay and loose rocks. Sandstone formation.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon pine.

	North, along E. bdy. of sec. 2, on resurvey line.
	Over rough and broken land, sloping E., through scattering undergrowth of sage brush and grass, and dense cedar and pinon timber.
	Ascend.
2.25	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 1 and 12, marked on brass cap T32S S 1 | S12 R23E 1917
	From which
	A cedar, 10 ins. dia., brs. N.43°E., 43 lks. dist., marked T 32 S R 23 E S 1 B T.
	A cedar, 10 ins. dia., brs. S.89°30'E., 58 lks. dist., marked T 32 S R 23 E S 12 B T.
	Note:- No trace of the old sec. cor. was found.
7.00	Top of ascent, 50 ft. above sec.cor., slopes E. Descend.
10.00	Ravine, 50 ft. deep, course E. Ascend.
15.75	Top of ascent, 50 ft. above ravine, slopes E. Descend.
35.00	Foot of descent, 55 ft. below top of ascent, brs. E. and W. Thence over rolling land, surface broken.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 2, marked on brass cap S $\frac{1}{2}$ 1917
	From which
	A pinon, 6 ins. dia., brs. S.7°W., 16 lks. dist.,

CHAINS

marked ¼ S 2 B T.

A pinon, 7 ins. dia., brs. N.80°45'W., 11 lks. dist., marked ¼ S 2 B T.

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

¼
S 1

1917

From which

A cedar, 12 ins. dia., brs. N.9°30'E., 19 lks. dist., marked ¼ S 1 B T.

A cedar, 4 ins. dia., brs. S.21°15'E., 42 lks. dist., marked ¼ S 1 B T.

54.75 Wash, 30 lks. wide, 3 ft. deep, course NE.

68.00 Descend into ravine, over sandstone ledge, brs. E. and W.

73.00 Bottom of ravine, 80 ft. below top, brs. E. and W.

Thence across nearly level bottom of ravine.

82.25 No trace of the old cor. of secs. 1, 2, 35 and 36, could be found.

87.25 Wash, 15 lks. wide, 2 ft. deep, course E.

89.25 Ascend from ravine, brs. E. and W.

95.00 Top of ravine, 110 ft. above ravine, brs. E. and W.

Thence over rolling land.

121.22 Intersect N. bdy. of Tp. 508 lks. E. of the cor. of secs. 1, 2, 35 and 36, which is a red sandstone, 15 x 12 x 5 ins., marked 1 notch on E. and 5 notches on W, edges, and witnessed by 4 bearing trees. I destroy the bearing trees pertaining to secs. 1 and 2, and at intersection

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

T31SR23E
S36

S 2 | S 1
T32S | R23E
C C
1917

From which

A pinon, 10 ins. dia., brs. S.26°45'E., 91 lks.

CHAINS	
	dist., marked C C T 32 S R 23 E S 1 B T.
	A pinon, 10 ins. dia., brs. S.14°15'W., 77 lks. dist., marked C C T 32 S R 23 E S 2 B T.
	Land, mountainous. Rough and broken slope, draining E.
	Soil, sandy loam, clay and loose rocks. Sandstone formation.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon pine.

	From the re-established cor. of secs. 24 and 25.
	N.88° 51'E., bet. secs. 24 and 25, on resurvey.
	Over level bottom of canyon, through undergrowth of sage brush and grass.
0.20	Old pole fence, brs. N. and S. Enter meadow land.
3.80	Marsh and seap, 2 chs. wide, drains N.
4.70	Wire fence, brs. N. and S.
6.50	Telephone line, brs. S.25°35'E., and N.25° 35'W. Moab to Monticello. Enter dense timber, brs. N. and SE.
	Ascend over sandstone ledges, brs. N. and SE.
11.00	Top of spur, 100 ft. above canyon, slopes S. Descend, over top of spur.
21.40	Head of ravine, 75 ft. below point of spur, course NW. Ascend.
28.70	Spur, 65 ft. above ravine, slopes S.70°W. Descend.
31.20	Swale, 40 ft. below spur, course S. Ascend.
37.50	Top of mesa, 40 ft. above swale, brs. NW. and SE. Descend gradually over rolling top of mesa.
40.33	The old $\frac{1}{4}$ sec. cor., which is a sandstone, 15 x 10 x 4 ins. above the ground, firmly set, marked and witnessed as described by the surveyor general.

	RETRACEMENT OF SUBDIVISION OF T.32 S.,R.23 E.
	From the old $\frac{1}{4}$ sec. cor. bet. secs. 24 and 25, I retrace East, bet. secs. 24 and 25
	Over rolling mesa top, through undergrowth of sage brush and grass, and scattering cedar and pinon timber.

CHAINS	
10.70	Old road, brs. N. and S.
16.00	Wash, in swale, 30 ft. below ¼ sec. cor., 15 lks. wide, 2 ft. deep, course S. Ascend.
25.00	Top of rolling ridge, 30 ft. above wash, brs. N. and S.
31.50	Swale, 20 ft. below top of ascent, course S.
35.00	Enter dense timber, brs. N. and S.
40.06	Fall 30 lks. N. of the cor. of secs. 24 and 25, on E. bdy. of Tp., which is a sandstone, 12 x 12 x 4 ins., above the ground, firmly set, marked and witnessed as described by the surveyor general.
	The course of this line is therefore, S.89°34'E., and the dist. is 40.06 chs.
	Land. of the W. half mile, rough and broken slope of mesa, draining W.; and the land of the E. half mile is rolling mesa top, draining S.
	Soil, of the W. half mile, sandy loam and loose rocks. Soil in bottom of canyon, rich sandy loam and clay. Soil of the E. half mile is a sandy loam, on sandstone.
	Formation, sandstone on the mile.
	Undergrowth, sage brush and grass.
	Timber, cedars and pinon pine.

RESURVEY OF THE SUBDIVISIONS OF T.32 S.,R.23 E.

	From the cor. of secs. 13 and 24, on E. bdy of Tp., which is an iron post, 3 ins. dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general; thence
	West, bet. secs. 13 and 24, on resurvey.
	Over rolling land, through dense sage brush and grass.
14.10	Wash, 10 lks. wide, 2 ft. deep, course S.
16.00	Enter dense timber, brs. N. and S.
40.00	After diligent search, no trace of the old ¼ sec. could be found.
	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for re-establihed ¼ sec. cor.., marked on brass cap

CHAINS

$\frac{1}{4}$ S13
S24

1917

From which

A cedar, 10 ins. dia., brs. N.26°15'W., 47 lks. dist., marked $\frac{1}{4}$ S 13 B T.

A cedar, 15 ins. dia., brs. S.26°E., 60 lks. dist., marked $\frac{1}{4}$ S 24 B T.

Land rolling mesa top, drainage S.

Soil, sandy loam on subsoil of clay.

Undergrowth, sage brush and grass.

Timber, cedars and pinon pine on W. 24.00 chs.

SUBDIVISIONS OF T.32 S.,R.23 E.

From the re-established $\frac{1}{4}$ sec. cor., bet. secs. 13 and 24,

West, bet. secs. 13 and 24, on random line.

40.02 Fall 50 lks. N. of the re-established cor. of secs. 13 and 24.

N.89° 17'E., bet. secs. 13 and 24, on true line.

Over rough and mountainous land, through scattering undergrowth of sage brush and grass, and dense cedar and pinon timber.

Descend.

2.00 Creek in bottom of canyon, 30 ft. below sec. cor., clear water, 10 lks. wide, 3 ins. deep, course NE.

Ascend.

32.00 Top of sandstone ledge, 165 ft. high, and top of mesa, 350 ft. above creek, brs. N.15°E., and S.15°W.

Over rolling mesa top.

40.03 The $\frac{1}{4}$ sec. cor.

Land, mountainous, rough and broken slope of canyon.

Soil, sandy loam and clay and loose rocks. Formation, sandstone.

Undergrowth, scattering sage brush and grass.

Timber, cedars and pinon pine.

CHAINS	
	From the cor. of secs. 12 and 13; thence
	East, bet. secs. 12 and 13, on a random line.
40.00	Set temp. ¼ sec. cor.
82.02	Intersect E. bdy. of Tp., 168 lks. S. of the cor. of secs. 12 and 13, which is an iron post, 3 ins. dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general. I destroy the marks on this cor. and mark same A P, for angle point, and at intersection
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 12 and 13, marked on brass cap
	T32S | T32S CC S12 | S7 S13 | R24E R23E 1917
	From which
	A pinon, 5 ins. dia., brs. S.40°25'W., 264 lks. dist., marked C C T 32 S R 23 E S 13 B T.
	A pinon, 4 ins. dia., brs. N.58°15'W., 153 lks. dist., marked C C T 32 S R 23 E S 12 B T.
	West, bet. secs. 12 and 13, on true line.
	Over rolling mesa top, through sage brush and grass undergrowth, and scattering cedar and pinon timber.
10.00	Enter dense timber, and scattering undergrowth, brs. N. and S.
21.70	Abrupt descent into canyon from mesa, brs. N.20°E., and S.20°W.
40.00	260 ft. below top of mesa.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., of sec. 13, marked on brass cap
	¼ S13 1917
	From which
	A cedar, 15 ins. dia., brs. S.20°15'E., 23 lks. dist., marked ¼ S 13 B T.

CHAINS	
	A cedar, 8 ins. dia., brs. S.69°30'W., 24 lks. dist., marked ¼ S 13 B T.
42.02	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., of sec. 12, marked on brass cap ¼ S12 1917 From which A cedar, 10 ins. dia., brs. N.79°30'E., 17 lks. dist., marked ¼ S 12 B T. A pinon, 10 ins. dia., brs. N.59°30'W., 44 lks. dist., marked ¼ S 12 B T.
77.25	Telephone line, brs. N. and S. Monticello to Moab.
77.40	State road, brs. N. and S. Monticello to Moab.
78.30	Creek in bottom of canyon, 585 ft. below top of mesa, stream of clear water, 15 lks. wide, 3 ins. deep, course N. Ascend.
82.02	The cor. of secs. 12 and 13. Land of the E. 21.70 chs., rolling top of mesa and the remaining portion is rough and broken slope of canyon. Soil of the E. 21.70 chs. sandy loam, and of the remaining portion sandy loam, clay and loose rocks. Sandstone formation. Undergrowth, sage brush and grass. Timber, cedars and pinon pine.

	From the re-established cor. of secs. 1 and 12, thence East, bet. secs. 1 and 12. Descend over rough and mountainous land, through scattering undergrowth of sage brush and grass, and cedar and pinon pine timber.
22.50	Wash in bottom of canyon, 200 ft. below sec. cor., 50 lks. wide, 20 ft. deep, course N.
	Leave timber, enter dense sage brush and grass. Thence across nearly level canyon bottom.

CHAINS

25.70 Irrigation ditch, course N.

28.45 Wire fence, brs. N. and S.

Telephone line, brs. N. and S. Monticello to Moab.

28.85 State road, brs. N. and S. Monticello to Moab.

30.65 Irrigation ditch, 6 lks. wide, 2 ft. deep, course N.

37.50 Enter dense timber, and scattering undergrowth, brs. N. and S. Ascend from canyon, over rough and broken slope, brs. N. and S.

40.00 40 ft. above bottom of canyon.

Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to solid rock, and raise a mound of stone, 3 ft. base, 14 ins. high around post, for ¼ sec. cor., marked on brass cap

¼ S 1 / S 12

1917

From which

A pinon, 10 ins. dia., brs. N.11°E., 26 lks. dist., marked ¼ S 1 B T.

A pinon, 5 ins. dia., brs. S.85°W., 33 lks. dist., marked ¼ S 12 B T.

82.09 340 ft. above ¼ sec. cor. on slope of canyon.

Intersect E. bdy. of Tp. 177 lks. S. of the cor. of secs. 1 and 12, which is an iron post, 3 ins. dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general. I destroy the marks on this cor. and mark same A P , for angle point. At intersection Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 1 and 12, marked on brass cap

CC T32S S 1 S12 R23E | T32S S6 R24E

1917

From which

A pinon, 10 ins. dia., brs. S.21°W., 14 lks. dist., marked C C T 32 S R 23 E S 12 B T.

CHAINS.

A pinon, 6 ins. dia., brs. N.59°30'W., 57 lks. dist., marked C C T 32 S R 23 E S 1 B T.

Land, mountainous; rough and broken slopes of canyon.

Soil, sandy loam, clay and loose rocks, except canyon bottom which is sandy loam and clay on subsoil of clay. Sandstone formation.

Undergrowth, scattering sage brush and grass.

Timber, cedars and pinon pine.

From the cor. of secs. 34 and 35, on S. bdy. of Tp., heretofore described, thence

North, bet. secs. 34 and 35, on sectional guide meridian,

Over rolling land, through undergrowth of sage brush and grass and scattering cedar and pinon timber.

16.50 Wash, 6 lks. wide, 1 ft. deep, course E.

21.00 Enter, dense timber and scattering undergrowth, brs. E. and W.

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

$$\begin{array}{c} \frac{1}{4} \\ \text{S 34} \mid \text{S 35} \\ 1917 \end{array}$$

From which

A pinon, 10 ins. dia., brs. S.58°30'W., 22 lks. dist., marked $\frac{1}{4}$ S 34 B T.

A cedar, 11 ins. dia., brs. S.14°E., 41 lks. dist., marked $\frac{1}{4}$ S 35 B T.

From this cor., cor. No.4 of H. E. S. No. 94, which is a cedar post, 4 ins. sq., 2 ft. above the ground, marked and witnessed as described by the surveyor general, brs. S.81°45'W., 52 lks. dist.

40.20 Wire fence, brs. E. and W. End of fence from the S. is W. of line 30 lks. dist.

63.30 Road, brs. N.60°E., and S.60°W.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 26, 27, 34 and 35, marked

CHAINS

on brass cap

T32S | R23E	
S27	S26
S34	S35

1917

From which

A cedar, 10 ins. dia., brs. N.53°15'E., 23 lks. dist., marked T 32 S R 23 E S 26 B T.

A cedar, 9 ins. dia., brs. S.55°15'E., 71 lks. dist., marked T 32 S R 23 E S 35 B T.

A pinon, 10 ins. dia., brs. S.53°30'W., 29 lks. dist., marked T 32 S R 23 E S 34 B T.

A pinon, 12 ins. dia., brs. N.78°30'W., 26 lks. dist., marked T 32 S R 23 E S 27 B T.

Land, rolling.

Soil, sandy loam and clay, on subsoil of clay.

Undergrowth, scattering sage brush and grass.

Timber, cedars and pinon pine.

S.89° 52'E., bet. secs. 26 and 35, on a random line.

40.00 Set temp. ¼ sec. cor.

80.80 Intersect N. and S. line 7 lks. S. of the cor. of secs. 26 and 35.

N.89° 55'W., bet. secs. 26 and 35, on true line.

Over rolling land, through sage brush and grass undergrowth and cedar and pinon timber.

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

$$\frac{1}{4}\ \frac{S\ 26}{S\ 35}$$

1917

From which

A cedar, 12 ins. dia., brs. N.87°W., 208 lks. dist., marked ¼ S 26 B T.

A cedar, 11 ins. dia., brs. S.81°W., 202 lks. dist., marked ¼ S 35 B T.

CHAINS	
49.10	Wash in bottom of swale, 20 lks. wide, 3 ft. deep, course NE.
52.80	Road, brs. NE. and SW.
	Enter dense timber and scattering undergrowth, brs. NE. and SW.
80.80	The cor. of secs. 26, 27, 34 and 35.
	Land, rolling. Drainage NE. Sandstone formation.
	Soil, sandy loam, and clay on subsoil of clay.
	Undergrowth, sage brush and grass.
	Timber, cedars and pinon pine.

	North, bet. secs. 26 and 27, on sectional guide meridian,
	Over rolling land, through scattering sage brush and grass undergrowth, and dense cedars and pinon pine.
27.50	Descend gradually into ravine, brs. NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock and raise a mound of stone, 4 ft. base, 20 ins. high around post, for ¼ sec. cor., marked on brass cap
	¼ S 27 | S 26 1917
	From which
	A cedar, 15 ins. dia., brs. S.69°W., 27 lks. dist., marked ¼ S 27 B T.
	A pinon, 24 ins. dia., brs. S.66°E., 67 lks. dist., marked ¼ S 26 B T.
41.00	Sandstone ledge, 10 ft. high, brs. NE. and SW. Descend.
46.00	Wash in ravine, 70 ft. below top, 15 lks. wide, 6 ft. deep, stream of clear water, 5 lks. wide, 1 in. deep, course N.30°E. Ascend.
51.00	Top of ledge, 15 ft. high, 70 ft. above wash, brs. N.30°E and S.30°W. Ascend gradually over rolling land.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 22, 23, 26 and 27, marked

CHAINS	
	on brass cap T32S | R23E S22 | S23 ✓ S27 | S26 1917
	From which
	A cedar,16 ins. dia., brs. N.46°30'E., 91 lks. dist., marked T 32 S R 23 E S 23 B T.
	A pinon, 10 ins. dia., brs. S.22°45'E., 66 lks. dist., marked T 32 S R 23 E S 26 B T.
	A cedar, 18 ins. dia., brs. S.70°45'W., 84 lks. dist., marked T 32 S R 23 E S 27 B T.
	A cedar, 10 ins. dia., brs. N.62°15'W., 106 lks. dist., marked T 32 S R 23 E S 22 B T.
	Land, rolling on the S. half and broken by ravines on N half mile. Drainage NE. Sandstone formation.
	Soil, sandy loam and clay on subsoil of clay. Loose rocks on N. half mile.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon pine.

	S.89° 55'E., bet. secs. 23 and 26, on a random line.
40.00	Set temp. ¼ sec. cor.
81.53	Intersect N. and S. line 7 lks. S. of the cor. of secs. 23 and 26.
	N.89° 58'W., bet. secs. 23 and 26, on true line.
	Ascend over broken land, through scattering sage brush and grass undergrowth and dense cedars and pinon pine.
0.20	State road, brs. N. and S. Monticello to Moab.
6.50	Top of canyon, 50 ft. above sec. cor., brs. N. and S.
	Thence over rolling land.
41.53	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap.
	¼ S23 / S26
	1917

SUBDIVISION OF T.32 S.,R. 23 E.

CHAINS	
	From which
	A cedar, 11 ins. dia., brs. N.67°W., 30 lks. dist., marked ¼ S 23 B T.
	A cedar, 12 ins. dia., brs. S.1°E., 73 lks. dist., marked ¼ S 26 B T.
60.60	Descend over ledge, 30 ft. high, into ravine, brs. N.20°E. and S.20°W.
65.10	Wash in ravine, 110 ft. below top , 1 ch. wide, 20 ft. deep, stream of clear water, 10 lks. wide, 3 ins. deep, course N.20°E. Ascend.
69.40	Top of ravine and ledge, 110 ft.above wash, brs. N.20°E., and S.20°W., Thence over rolling land.
81.53	The cor. of secs. 22, 23, 26 and 27.
	Land, rolling and broken by ravines. Sandstone formation. Drainage NE.
	Soil, sandy loam. On slopes of ravines, rocky.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon .

	North, bet. secs. 22 and 23, on sectional guide meridian,
	Over rolling land, through scattering sage brush and and grass, and dense cedars and pinon timber.
5.50	Descend into ravine, brs. E. and W.
8.60	Ravine, 90 ft. deep, course E. Ascend.
11.00	Top of ravine, brs. E. and W.
	Over rolling land, ascending gradually.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	1/4 S22 | S23 1917
	From which
	A cedar, 10 ins. dia., brs. S.88°E., 38 lks. dist., marked ¼ S 23 B T.
	A cedar, 14 ins. dia., brs. N.82°45'W., 25 lks. dist., marked ¼ S 22 B T.

CHAINS	
55.00	Top of gradual ascent, 50 ft. above top of ravine, brs. E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 14, 15, 22 and 23, marked on brass cap T32S R23E S15 | S14 ✓ S22 | S23 1917
	From which A cedar, 10 ins. dia., brs. N.9°45'E., 10 lks. dist.,marked T 32 S R 23 E S 14 B T. A cedar, 5 ins. dia., brs. S.48°30'E., 57 lks. dist., marked T 32 S R 23 E S 23 B T. A cedar, 12 ins. dia., brs. S.15°W., 17 lks. dist., marked T 32 S R 23 E S 22 B T. A pinon, 10 ins. dia., brs. N.64°W., 28 lks. dist., marked T 32 S R 23 E S 15 B T.
	Land, rolling. S. half mile broken by ravines, draining E. Sandstone formation.
	Soil, sandy loam and loose rocks.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon pine.
	S.89° 58'E., bet. secs. 14 and 23, on a random line.
40.00	Set temp. ¼ sec. cor.
81.78	Intersect N. and S. line 17 lks. N. of the cor. of secs. 14 and 23
	N.89° 51'W., bet. secs. 14 and 23, on true line.
	Descend over rough and broken slope of canyon, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.
1.80	Creek in bottom of canyon, 50 ft. below sec. cor., stream of clear water, 10 lks. wide, 4 ins. deep, course N.
	Ascend over rough and broken slope.
3.00	State road, brs. N. and S. Monticello to Moab.

SUBDIVISION OF T.32 S., R.23 E.

CHAINS	
8.10	Telephone line, brs. N. and S. Monticello to Moab.
26.50	Foot of sandstone ledge, brs. N. and S. Abrupt ascent.
30.00	Top of mesa and ledge, 400 ft. above creek, brs. N. and S.
	Thence over rolling top of mesa.
41.78	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground, to solid rock and raise a mound of stone, 3 ft. base, 14 ins. high around post, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}\frac{S14}{S23}$ 1917 From which A pinon, 10 ins. dia., brs. N.20°E., 13 lks. dist., marked $\frac{1}{4}$ S 14 B T. A pinon, 6 ins. dia., brs. S.25°15'E., 44 lks. dist., marked $\frac{1}{4}$ S 23 B T.
45.80	Head of ravine, course S.
52.00	Enter scattering timber, brs. N. and SW.
65.60	Enter dense timber, brs. N. and S.
81.78	The cor. of secs. 14, 15, 22 and 23.
	Land of the E. 30.00 chs. rough and broken slope of canyon, and of the remaining portion, rolling top of mesa.
	Soil, of the E. 30.00 chs. sandy loam and loose rocks, and of the remaining portion, sandy loam and scattering loose rocks, and is shallow. Formation sandstone.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon.

	North, bet. secs. 14 and 15, on sectional guide meridian,
	Over rolling mesa top, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to solid rock and raise a mound of stone, 3 ft. base, 14 ins. high around post, for $\frac{1}{4}$ sec. cor., marked on brass cap

CRAIGS

¼

S15 | S14

1917

From which

A cedar, 6 ins. dia., brs. S.1°30'E., 74 lks. dist., marked ¼ S 14 B T.

A pinon, 12 ins. dia., brs. N.85°15'W., 42 lks. dist., marked ¼ S 15 B T.

42.00 Abrupt descent over sandstone ledge, 20 ft. high, into canyon, brs. NE. and SW.

52.30 Bottom of canyon, 270 ft. deep, course NE. Ascend.

79.50 Top of canyon and ledge, 65 ft. high, brs. NE. and SW. Thence over rolling mesa.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., on sandstone ledge in a mound of stone, 5 ft. base, 2 ft. high, for the cor. of secs. 10, 11, 14 and 15, marked on brass cap

T32S | R23E
S10 | S11
S15 | S14

1917

From which

A pinon, 10 ins. dia., brs. N.53°E., 28 lks. dist., marked T 32 S R 23 E S 11 B T.

A pinon, 10 ins. dia., brs. S.3°45'E., 45 lks. dist., marked T 32 S R 23 E S 14 B T.

A cedar, 15 ins. dia., brs. S.57°45'W., 35 lks. dist., marked T 32 S R 23 E S 15 B T.

A pinon, 10 ins. dia., brs. N.33°15'W., 47 lks. dist., marked T 32 S R 23 E S 10 B T.

Land of the S. 42.00 chs. rolling mesa and of the remaining portion rough and broken canyon slopes. Drainage NE. Formation, sandstone.

Soil, sandy loam and loose rocks. Surface of the N.38.00 chs. covered with sandstone boulders.

Undergrowth, scattering sage brush and grass.

Timber, cedars and pinon pine.

CHAINS	
	S.89° 51'E., bet. secs. 11 and 14, on a random line.
40.00	Set temp. ¼ sec. cor.
79.88	Intersect N. and S. line 12 lks. S. of the cor. of secs. 11 and 14.
	N.89° 56'W., bet. secs. 11 and 14, on a true line.
	Over rough and mountainous land, through scattering sage brush and grass undergrowth and dense cedar and pinon timber.
	Descend.
2.50	Wash in bottom of canyon, 15 ft. below sec. cor., 50 lks. wide, 4 ft. deep, course NE.
	Ascend over rough and broken slope.
39.94	200 ft. above canyon.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	¼ S11 / S14 1917
	From which
	A cedar, 11 ins. dia., brs. N.64°15'W., 26 lks. dist., marked ¼ S 11 B T.
	A cedar, 12 ins. dia., brs. S.24°E., 32 lks. dist., marked ¼ S 14 B T.
79.50	Top of mesa and ledge, 65 ft. high, 180 ft. above ¼ sec. cor., brs. N. and S.
79.88	The cor. of secs. 10, 11, 14 and 15.
	Land, mountainous, rough and broken slope. Drainage E.
	Soil, sandy loam and clay and loose rocks. Surface covered with sandstone boulders. Formation, sandstone.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon.

	North, bet. secs. 10 and 11, on sectional guide meridian.
	Over broken top of rolling mesa, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.

CHAINS

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

¼

S10 | S11

1917

From which

A pinon, 9 ins. dia., brs. N.19°30'E., 22 lks. dist., marked ¼ S 11 B T.

A cedar, 10 ins. dia., brs. S.67°W., 30 lks. dist., marked ¼ S 10 B T.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 4 ins. in the ground to solid rock and raise a mound of stone, 4 ft. base, 20 ins. high around post, for the cor. of secs. 2, 3, 10 and 11, marked on brass cap

T32S, R23E

S3 | S2

S10 | S11

1917

From which

A pinon, 6 ins. dia., brs. N.60°E., 26 lks. dist., marked T 32 S R 23 E S 2 B T.

A pinon, 7 ins. dia., brs. S.31°45'E., 32 lks. dist., marked T 32 S R 23 E S 11 B T.

A cedar, 12 ins. dia., brs. S.54°45'W., 67 lks. dist., marked T 32 S R 23 E S 10 B T.

A cedar, 10 ins. dia., brs. N.20°45'W., 41 lks. dist., marked T 32 S R 23 E S 3 B T.

Land, rolling top of mesa, surface broken by sandstone outcropings. Drainage E.

Soil, sandy loam and loose rocks and numerous sandstone outcropings.

Undergrowth, scattering sage brush and grass.

Timber, cedars and pinon.

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

40.00 Set temp. ¼ sec. cor.

CHAINS	
79.86	Intersect N. and S. line, 18 lks. S. of the cor. of secs. 2 and 11.
	S.89° 56'W., bet. secs. 2 and 11, on true line.
	Over mountainous land, through scattering sage brush and grass undergrowth and dense cedar and pinon timber.
	Ascend.
20.00	Spur, 175 ft. above sec. cor., projects SE. Descend.
22.50	Ravine, 60 ft. below spur, course SE. Ascend.
39.93	140 ft. above ravine.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}\frac{S\ 2}{S11}$ 1917
	From which
	A cedar, 6 ins. dia., brs. N.70°E., 27 lks. dist., marked $\frac{1}{4}$ S 2 B T.
	A cedar, 7 ins. dia., brs. S.30°W.,45 lks. dist., marked $\frac{1}{4}$ S 11 B T.
72.00	Top of mesa and sandstone ledge, 85 ft. high, 130 ft. above $\frac{1}{4}$ sec. cor., brs. N. and S.
	Thence over rolling mesa, surface broken by sandstone outcropings.
79.86	The cor. of secs. 2, 3, 10 and 11.
	Land of the E. 72.00 chs. mountainous, rough and broken slopes. Drainage E. Land of the remaining portion, rolling top of mesa, surface broken by sandstone outcropings.
	Soil, sandy loam, clay and loose rocks. Surface of E. 72.00 chs. covered with sandstone boulders.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon.

	North, bet. secs. 2 and 3, on sectional guide meridian,
	Over rolling top of mesa, through sage brush and grass undergrowth, and dense cedar and pinon timber.

CHAINS

20.70 Descend from mesa over rough and broken slope, brs. E. and W.

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

$$\begin{array}{c|c} \multicolumn{2}{c}{\frac{1}{4}} \\ S3 & S2 \\ \multicolumn{2}{c}{1917} \end{array}$$

From which

A pinon, 10 ins. dia., brs. S.25°E., 15 lks. dist., marked ¼ S 2 B T.

A pinon, 10 ins. dia., brs. N.31°W.,10 lks. dist., marked ¼ S 3 B T.

108.00 Foot of mesa, 600 ft. below top, brs. NE. and SW.

Leave t imber and enter dense sage brush and grass and very scattering timber, brs. NE. and SW.

Thence over rolling flat.

121.34 Intersect N. bdy. of Tp. 536 lks. E. of the cor. of secs. 2, 3, 34 and 35, which is a sandstone, 22 x 15 x 6 ins marked and witnessed as described by the surveyor general. This cor. will hereafter pertain to secs. 34 and 35 only. At intersection

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

$$\begin{array}{c|c} \multicolumn{2}{c}{T31SR23E} \\ \multicolumn{2}{c}{S35} \\ \hline S3 & S2 \\ T32S & R23E \\ \multicolumn{2}{c}{CC} \\ \multicolumn{2}{c}{1917} \end{array}$$

From which

A cedar, 8 ins. dia., brs. S.20°E., 362 lks. dist., marked C C T 32 S R 23 E S 2 B T.

No available tree in sec. 3. Raise a mound of stone, 2 ft. base, 1½ ft. high S. of post.

Land of the S. 20.70 chs. rolling mesa, and of the N. 13.34 chs. rolling flat. The land of the remaining portion, mountainous. Rough and broken slope of mesa.

Soil, of the S. 108.00 chs. sandy loam and loose rocks.

CHAINS

The surface is covered with sandstone boulders. The soil of the N. 13.34 chs. is a rich sandy loam and clay, on a clay subsoil.

Undergrowth, scattering sage brush and grass on S. 108.00 chs. and dense on N. 13.34 chs.

Timber, dense cedars and pinon on S. 108.00 chs.

From the cor. of secs. 33 and 34, on S. bdy. of Tp., heretofore described. Thence

N.0° 01'W., bet. secs. 33 and 34.

Ascend over rolling hills, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.

8.00 Top of ascent, 30 ft. above sec. cor., slopes NE. Descend.

18.00 Foot of hill, 50 ft. below top of ascent, brs. E. and W. Thence over rolling land.

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

$\frac{1}{4}$

S33 | S34

1917

From which

A cedar, 8 ins. dia., brs. S.57°E., 8 lks. dist., marked $\frac{1}{4}$ S 34 B T.

A cedar, 10 ins. dia., brs. S.51°W., 7 lks. dist., marked $\frac{1}{4}$ S 33 B T.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in the ground to solid rock, and raise a mound of stone, 4 ft. base, 16 ins. high around post for the cor. of secs. 27, 28, 33 and 34, marked on brass cap

T32S | R23E

S28 | S27

S33 | S34

1917

From which

A cedar, 10 ins. dia., brs. N.40°30'E., 26 lks. dist., marked T 32 S R 23 E S 27 B T.

CHAINS	
	A cedar, 10 ins. dia., brs. S.8°30'E., 78 lks. dist., marked T 32 S R 23 E S 34 B T.
	A cedar, 12 ins. dia., brs. S.5°W., 37 lks. dist., marked T 32 S R 23 E S 33 B T.
	A cedar, 11 ins. dia., brs. N.24°30'W., 24 lks. dist., marked T 32 S R 23 E S 28 B T.
	Land of the S. 18.00 chs. rolling hills and of the remaining portion gently rolling. Drainage E.
	Soil of the S. 18.00 chs. sandy loam and loose rocks, and of the remaining portion sandy loam and clay on a subsoil of clay.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon.

	S.89° 47'E., bet. secs. 27 and 34, on a random line.
40.00	Set temp. ¼ sec. cor.
79.92	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 26, 27, 34 and 35.
	N.89° 49'W., bet. secs. 27 and 34, on true line.
	Over rolling land through scattering sage brush and grass undergrowth and dense cedar and pinon timber.
39.96	Set an iron post, 3 ft. long, 1 in. dia., 14 ins. in the ground, to solid rock and raise a mound of stone, 3 ft. base, 12 ins. high around post, for ¼ sec. cor., marked on brass cap
	¼ S27 / S34
	1917
	From which
	A cedar, 5 ins. dia., brs. N.64°45'E., 21 lks. dist., marked ¼ S 27 B T.
	A cedar, 11 ins. dia., brs. S.48°30'E., 51 lks. dist., marked ¼ S 34 B T.
41.00	Descend into ravine, brs. N. and S.
44.80	Wash in ravine, 30 ft. below ¼ sec. cor., 30 lks. wide, 5 ft. deep, course N. Ascend.

SUBDIVISION OF T.32 S.,R.23 E.

CHAINS	
45.40	Road, brs. N. and S.
49.00	Top of ravine, 30 ft. above wash, brs. N. and S.
	Thence over rolling land.
79.92	The cor. of secs. 27,28, 33 and 34.
	Land, rolling. Drainage N.
	Soil, sandy loam and scattering loose rocks. Subsoil of clay.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon.

	N.0° 01'W., bet. secs. 27 and 28.
	Over rolling land, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.
5.60	Descend into ravine, brs. E. and SW.
10.00	Wash, in bottom of ravine, 30 ft. below sec. cor., 1 ch. wide, 25 ft. deep, stream of water, 10 lks. wide, 2 ins. deep course N.80°E. Thence across bottom of ravine.
17.20	Wash, 30 ft. wide, 5 ft. deep, course SE. Ascend.
19.00	Top of ravine, 30 ft. above wash, brs. E. and W.
	Thence over rolling land, ascending gradually.
35.00	Top of ascent, 50 ft. above top of ravine, brs. E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	¼ S28 | S27 1917
	From which
	A cedar, 15 ins. dia., brs. N.63°30'E., 27 lks. dist., marked ¼ S 27 B T.
	A cedar, 18 ins. dia., brs. N.71°W.,31 lks. dist., marked ¼ S 28 B T.
59.40	Road, brs. E. and W. Enter scattering timber, brs. E. and W
60.50	Intersect S. bdy. H.E.S. No. 95 of Henry G. Black, 242 lks. S.89°16'E., of cor. No. 3 of H.E.S. No. 95 and cor. No.5 of H.E.S. No. 96, which is a sandstone, 9 x

CHAINS

8 x 6 ins., above the ground, marked and witnessed as described by the surveyor general. At intersection Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for closing cor. of secs. 27 and 28, marked on brass cap

HES 95
H G B

S28	S27
T32S	R23E

CC
1917

From which

A cedar, 12 ins. dia., brs. S.34°25'E., 505 lks. dist., marked C C T 32 S R 23 E S 27 B T.

A pinon, 8 ins. dia., brs. S.8°20'W., 535 lks. dist., marked C C T 32 S R 23 E S 28 B T.

Thence across homestead entry of Henry G. Black. Enter grain field, brs. E. and W.

71.50 Leave grain field, brs. E. and W.

79.75 Intersect N. bdy. of H.E.S. No. 95, of Henry G. Black's, 171 lks. E. of cor. No.4 of H.E.S. No. 95 and cor. No. 4 of H.E.S. No. 96, which is a sandstone, 22 x 26 x 8 ins., marked and witnessed as described by the surveyor general. At intersection

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for closing cor. of secs. 27 and 28, marked on brass cap

CC

T32S	R23E
S28	S27

HES 95
H G B
1917

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

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 21, 22, 27 and 28, marked on brass cap

T32S	R23E
S21	S22
S28	S27

1917

SUBDIVISION OF T.32 S.,R.23 E.

CHAINS

From which

A cedar, 12 ins. dia., brs. N.41°15'E., 169 lks. dist., marked T 32 S R 23 E S.22 B T.

A cedar, 11 ins. dia., brs. S.65°E., 92 lks. dist., marked T 32 S R 23 E S 27 B T.

A cedar, 10 ins. dia., brs. S.45°W., 164 lks. dist., marked T 32 S R 23 E S 28 B T.

A cedar, 10 ins. d ia., brs. N.37°W., 178 lks. dist., marked T 32 S R 23 E S 21 B T.

Land of the S. 19.00 chs. broken by ravines, draining E., and of the remaining portion rolling.

Soil of the S. 19.00 chs. sandy loam and loose rocks, and of the remaining portion, sandy loam and clay.

Undergrowth, scattering sage brush and grass.

Timber, cedars and pinon.

S.89° 49'E., bet. secs. 22 and 27, on a random line.

40.00 Set temp. ¼ sec. cor.

79.88 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 22, 23, 26 and 27.

N.89° 52'W., bet. secs. 22 and 27, on true line.

Over rolling land, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.

20.00 Enter scattering timber and dense sage brush, brs. N. and S.

20.15 Cor. No. 5, H.E.S. No. 95, which is a sandstone, 12 x 10 x 8 ins. above the ground, marked and witnessed as described by the surveyor general, brs. S. 7 lks. dist.

25.00 Brush fence, brs. N. and S.

38.00 Swale, course NE.

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

$$\frac{1}{4}\ \frac{S22}{S27}$$

1917

From which

CHAINS	
	A cedar, 12 ins. dia., brs. N.84°50'E., 60 lks. dist., marked ¼ S 22 B T.
	A pinon, 8 ins. dia., brs. S.42°45'W., 380 lks. dist., marked ¼ S 27 B T.
60.00	Enter dense timber and scattering undergrowth, brs. NE. and SW.
79.88	The cor. of secs. 21, 22, 27 and 28.
	Land, rolling. Drainage NE.
	Soil, rich sandy loam and clay, on clay subsoil.
	Undergrowth, sage brush and grass.
	Timber, cedars and pinon.

	N.0° 01'W., bet. secs. 21 and 22.
	Over rolling land, through dense cedars and pinon timber, and scattering sage brush and grass undergrowth.
8.00	Wash, 10 lks. wide, 2 ft. deep, course E.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S21 | S22 1917
	From which
	A cedar, 12 ins. dia., brs. S.29°45'E., 32 lks. dist., marked ¼ S 22 B T.
	A cedar, 12 ins. dia., brs. S.68°15'W., 39 lks. dist., marked ¼ S 21 B T.
52.00	Descend into ravine, brs. E. and W.
60.20	Ravine, 75 ft. deep, course E. Ascend.
80.00	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, marked on brass cap T32S | R23E S16 | S15 --- S21 | S22 1917
	From which

CHAINS

A cedar, 11 ins. dia., brs. N.65°45'E., 49 lks. dist., marked T 32 S R 23 E S 15 B T.

A cedar, 11 ins. dia., brs. S.81°30'E., 21 lks. dist., marked T 32 S R 23 E S 22 B T.

A cedar, 12 ins. dia., brs. S.70°15'W., 19 lks. dist., marked T 32 S R 23 E S 21 B T.

A cedar, 6 ins. dia., brs. N.21°W., 84 lks. dist., marked T 32 S R 23 E S 16 B T.

Land of the S. 52.00 chs. rolling and of the N. 28.00 chs. broken by ravine, draining NE.

Soil, rich sandy loam and clay on S. 52.00 chs., and on N. 28.00 chs. loose rocks and sandy loam and numerous sandstone outcroppings.

Undergrowth, sage brush and grass.

Timber, cedars and pinon.

S.89° 52'E., bet. secs. 15 and 22, on a random line.

40.00 Set temp. ¼ sec. cor.

79.94 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 14, 15, 22 and 23.

N.89° 48'W., bet. secs. 15 and 22, on true line.

Over rolling land, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.

14.00 Descend gradually, brs. N. and S.

24.00 Enter scattering timber and dense sage brush, brs. N. and S.

39.97 Set an iron post, 3 ft. long, 1 in. dia., on solid sandstone outcropping in a mound of stone, 5 ft. base, 26 ins. high for ¼ sec. cor., marked on brass cap

$$\frac{1}{4}\ \frac{S15}{S22}$$

1917

From which

A cedar, 8 ins. dia., brs. N.17°W., 530 lks. dist., marked ¼ S 15 B T.

CHAINS

A cedar, 5 ins. dia., brs. S.17°30'W., 190 lks. dist., marked ¼ S 22 B T.

40.25 Wash, 10 lks. wide, 2 ft. deep course N. Ascend.

45.00 Spur, 40 ft. above ¼ sec. cor., projects N. Descend.

58.65 Wash in bottom of canyon, 160 ft. deep, 40 lks. wide, 6 ft. deep, course NE. Ascend.

79.94 The cor. of secs. 15, 16, 21 and 22.

Land of the E. half mile rolling and of the W. half mile, broken by ravines, draining NE.

Soil of the E. half mile, sandy loam and clay, and of the W. half mile, sandy loam and loose rocks and numerous sandstone outcroppings.

Undergrowth, sage brush and grass.

Timber, dense cedars and pinon on E. 24.00 chs. and scattering on remaining portion of mile.

N.0° 01'W., bet. secs. 15 and 16.

Ascend over rough and broken land, through scattering sage brush and grass undergrowth and dense cedars and and pinon timber.

5.00 Spur, 25 ft. above sec. cor., projects NE. Descend.

15.50 Bottom of canyon, 210 ft. deep, course E. Ascend.

23.25 Top of canyon, brs. E. and W. Thence over rolling land ascending gradually over broken surface.

Enter scattering timber, brs. E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock and raise a mound of stone, 4 ft. base, 20 ins. high around post, for ¼ sec. cor., marked on brass cap

¼

S16 | S15

1917

From which

A cedar, 4 ins. dia., brs. S.15°E., 220 lks. dist., marked ¼ S 15 B T.

SUBDIVISION OF T.32 S.,R.23 E.

CHAINS	
	A cedar, 5 ins. dia., brs. N.53°15'W., 152 lks. dist., marked ¼ S 16 B T.
63.00	Top of ascent, 60 ft. above ½ sec. cor., brs. E. and W.
	Thence over rolling land.
89.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 9, 10, 15 and 16, marked on brass cap

T32S R23E
S 9 | S10
S16 | S15

1917

From which

A cedar, 6 ins. dia., brs. N.20°45'E., 230 lks. dist., marked T 32 S R 23 E S 10 B T.

A cedar, 12 ins. dia., brs. S.4°55'E., 404 lks. dist., marked T 32 S R 23 E S 15 B T.

A cedar, 12 ins. dia., brs. S.8°55'W., 338 lks. dist., marked T 32 S R 23 E S 16 B T.

A cedar, 10 ins. dia., brs. N.87°W., 501 lks. dist., marked T 32 S R 23 E S 9 B T.

Land of the S. 63.00 chs. rough and broken, draining E., and the land of the N. 17.00 chs. is rolling.

Soil, sandy loam and loose rocks. Numerous sandstone outcroppings on S. 63.00 chs.

Undergrowth, sage brush and grass.

Timber, cedars and pinon.

S.89° 48'E., bet. secs. 10 and 15, on a random line.

40.00 Set temp. ½ sec. cor.

80.00 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 10, 11, 14 and 15.

N.89° 44'W., bet. secs. 10 and 15, on true line.

Over rolling land, surface broken by sandstone outcroppings, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.

CHAINS	
40.00	Set an iron post, 3 ft. long, 1 in. dia., on sandstone outcropping in a mound of stone, 5 ft. base, 26 ins. high for ¼ sec. cor., marked on brass cap ¼ S10 / S15 1917 From which A pinon, 10 ins. dia., brs. N.58°W., 10 lks.dist., marked ¼ S 10 B T. A cedar, 12 ins. dia., brs.,S.71°15'E.,25 lks. dist., marked ¼ S 15 B T.
76.00	Enter scattering timber and dense sage brush, brs. N. and S.
80.00	The cor. of secs. 9, 10, 15 and 16. Land rolling. Drainage S. Soil, sandy loam and loose rocks. Numeroue sandstone outcropings. Undergrowth, scattering sage brush and grass. Timber, cedars and pinon on E. 76.00 chs.

	N.0° 01'W., bet. secs. 9 and 10. Over rolling land, through dense sage brush and grass undergrowth and scattering cedars and pinon timber.
11.50	Enter dense timber and scattering undergrowth, brs. E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 9 | S10 1917 From which A cedar, 12 ins. dia., brs. N.88°15'E., 52 lks. dist., marked ¼ S 10 B T. A pinon, 15 ins. dia., brs. S.34°W., 19 lks. dist., marked ¼ S 9 B T.

CHAINS	
73.00	Descend from top of mesa over rough and broken slope, brs. E. and W.
80.00	200 ft. below top of mesa, on rough and broken slope. 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, marked on brass cap T32S R23E S 4 | S 3 S 9 | S10 1917 From which A cedar, 8 ins. dia., brs. N.50°15'E., 28 lks. dist., marked T 32 S R 23 E S 3 B T. A cedar, 5 ins. dia., brs. S.60°45'E., 39 lks. dist., marked T 32 S R 23 E S 10 B T. A pinon, 10 ins. dia., brs. S.61°45'W., 61 lks. dist., marked T 32 S R 23 E S 9 B T. A pinon, 10 ins. dia., brs. N.66°15'W., 51 lks. dist., marked T 32 S R 23 E S 4 B T. Land of the S. 73.00 chs., rolling mesa top and of the N. 7.00 chs. rough and broken slope of mesa. Soil of the S. 73.00 chs. sandy loam and clay and of the N. 7.00 chs. sandy loam and loose rocks. Surface covered with sandstone boulders. Formation Sandstone. Undergrowth, dense sage brush and grass on S. 11.50 chs. of mile and scattering on remaining portion. Timber, dense cedars and pinon on N. 68.50 chs. of mile, and scattering on remaining portion.

	S.89° 44'E., bet. secs. 3 and 10, on a random line.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 2, 3, 10 and 11. N.89° 43'W., bet. secs. 3 and 10, on a true line. Over rolling top of mesa, surface broken, through scattering sage brush and grass undergrowth and dense cedars

CHAINS	
	and pinon timber.
40.02	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 3 / S 10 1917 From which A pinon, 6 ins. dia., brs. N.22°45'W., 26 lks. dist., marked ¼ S 3 B T. A pinon, 8 ins. dia., brs. S.40°E., 16 lks. dist., marked ¼ S 10 B T.
46.00	Descend from mesa, over rough and broken slope, brs. NE. and SW.
52.00	Foot of abrupt descent, 85 ft. below top of mesa, brs. NE. and SW. Descend gradually over rough and broken slope.
80.04	The cor. of secs. 3, 4, 9 and 10. Land, of the E. 46.00 chs. rolling top of mesa, surface broken by numerous sandstone outcropings, and the land of the remaining portion of mile is rough and broken slope of mesa, draining N. Soil, sandy loam and loose rocks. Surface of the W. 34.04 chs. covered with sandstone boulders. Undergrowth, scattering sage brush and grass. Timber, dense cedars and pinon .
	N.0° 01'W., bet. secs. 3 and 4. Descend over rough and broken slope of mesa, through sage brush and grass undergrowth and dense cedars and pinon timber.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 4 / S 3 1917 From which

CHAINS	
	A cedar, 12 ins. dia., brs. N.78°30'E., 44 lks. dist., marked ¼ S 3 B T.
	A pinon, 10 ins. dia., brs. S.48°W., 48 lks. dist., marked ¼ S 4 B T.
85.90	Foot of mesa, 400 ft. below sec. cor., brs. E. and W.
	Leave timber, enter sage brush and grass undergrowth, brs. E. and W. Thence over nearly level land.
99.70	Enter corn field, brs. E. and W.
112.30	Leave corn field, brs. E. and W. Enter scattering timber, brs. E. and W.
119.50	Foot of sandstone spur, brs. E. and W. Ascend.
120.87	Intersect N. bdy. of Tp. 547 lks. E. of the old cor. of secs. 3, 4, 33 and 34, which is a sandstone, 18 x 8 x 8 ins., marked and witnessed as described by the surveyor general. This cor. will pertain to secs. 33 and 34 only. At intersection
	Set an iron post, 3 ft. long, 2 ins. dia., on solid sandstone, in mound of stone, 5 ft. base, 2 ft. high, for the closing cor. of secs. 3 and 4, marked on brass cap

T31SR23E
S34

S 4 | S 3
T32S | R23E
CC
1917

	From which
	A pinon, 5 ins. dia., brs. S.47°15'E., 244 lks. dist., marked C C T 32 S R 23 E S 3 B T.
	A pinon, 7 ins. dia., brs. S.60°30'W., 164 lks. dist., marked C C T 32 S R 23 E S 4 B T.
	Land of the S. 85.90 chs. and N. 1.37 chs., very rough and broken, and of the remaining portion, gently rolling bottom land.
	Soil, of S. 85.90 chs. and N. 1.37 chs., sandy loam and loose rocks, surface covered with sandstone boulders. Soil of the remaining portion, rich sandy loam.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon .

SUBDIVISION OF T.32 S., R. 23 E.

CHAINS	
	From the cor. of secs. 32 and 33, on S. bdy. of Tp, heretofore described, thence
	N.0° 01'W., bet. secs. 32 and 33, over rolling land, through scattering sage brush and grass undergrowth, and dense cedars and pinon timber.
19.00	Descend into ravine, brs. NE. and SW.
22.50	Wash, in bottom of ravine, 40 ft. below top, 30 lks. wide, 10 ft. deep, stream of clear water, 10 lks. wide, 2 ins. deep, course NE. Ascend.
26.00	Top of ravine, 40 ft. above wash, brs. NE. and SW. Thence over rolling land.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S32 | S33 1917 From which A pinon, 12 ins. dia., brs. N.8°45'E., 16 lks. dist., marked $\frac{1}{4}$ S 33 B T. A cedar, 12 ins. dia., brs. N.71°W., 11 lks. dist., marked $\frac{1}{4}$ S 32 B T.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 28, 29, 32 and 33, marked on brass cap T32S | R23E S29 | S28 S32 | S33 1917 From which A pinon, 18 ins. dia., brs. N.54°45'E., 21 lks. dist., marked T 32 S R 23 E S 28 B T. A pinon, 18 ins. dia., brs. S.25°E., 13 lks. dist., marked T 32 S R 23 E S 33 B T. A cedar, 18 ins. dia., brs. S.17°30'W., 115 lks. dist., marked T 32 S R 23 E S 32 B T. A cedar, 18 ins. dia., brs. N.88°W., 15 lks. dist., marked T 32 S R 23 E S 29 B T.

CHAINS	
	Land, rolling, S. half mile broken by ravine. Drainage NE.
	Soil, sandy loam and scattering loose rocks. Clay subsoil.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon.

	N.89° 46'E., bet. secs. 28 and 33, on a random line.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 27, 28, 33 and 34.
	S.89° 45'W., bet. secs. 28 and 33, on a true line.
	Over rolling land, through scattering sage brush and grass undergrowth, and dense cedars and pinon timber.
3.70	Descend into ravine, brs. NE. and SW.
9.80	Wash in bottom of ravine, 30 lks. wide, 8 ft. deep, course NE. Ascend.
11.00	Top of ravine, 40 ft. above wash, brs. NE. and SW.
	Enter scattering timber and dense sage brush, brs. NE. and SW. Thence over rolling land, gradually ascending.
40.05	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	¼ S 28 / S 33
	1917
	From which
	A cedar, 12 ins. dia., brs. N.68°E., 82 lks. dist., marked ¼ S 28 B T.
	A cedar, 7 ins. dia., brs. S.71°45'E., 104 lks. dist., marked ¼ S 33 B T.
50.00	Enter dense timber and scattering undergrowth, brs. N. and S. Top of ascent, 50 ft. above top of ravine, brs. N. and S.
80.10	The cor. of secs. 28, 29, 32 and 33.
	Land, rolling. E. half mile broken by ravine. Drainage NE.
	Soil, sandy loam and clay on subsoil of clay.

CHAINS	
	Undergrowth, sage brush and grass.
	Timber, cedars and pinon. Dense on W. 30.10 chs. and scattering on E. portion of mile.

	N.0° 01'W., bet. secs. 28 and 29.
	Over rolling land, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.
3.50	Descend into ravine, brs. NE. and S.20°W.
6.00	Bottom of ravine, 55 ft. below top, wash in bottom 30 lks. wide, 10 ft. deep, course NE. Ascend.
15.00	Top of ravine, 55 ft. above bottom brs., NE. and SW.
	Thence over rolling land.
26.00	Descend into ravine, brs. E. and W.
28.20	Ravine, 40 ft. deep, course E. Ascend.
32.00	Top of ravine, 40 ft. above bottom, brs. E. and W.
	Thence over rolling land.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4}$ S29 | S28 1917
	From which
	A cedar, 12 ins. dia., brs. S.47°45'E., 34 lks. dist., marked $\frac{1}{4}$ S 28 B T.
	A cedar, 11 ins. dia., brs. S.46°15'W., 36 lks. dist., marked $\frac{1}{4}$ S 29 B T.
80.00	Set an irom post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 20, 21, 28 and 29, marked on brass cap
	T32S R23E S20 | S21 / S29 | S28 1917
	From which
	A pinon, 11 ins. dia., brs. N.80°15'E., 322 lks. dist., marked T 32 S R 23 E S 21 B T.

CHAINS	
	A cedar, 11 ins. dia., brs. S.54°20'E., 319 lks. dist., marked T 32 S R 23 E S 28 B T.
	A cedar, 6 ins. dia., brs. S.68°W., 345 lks. dist., marked T 32 S R 23 E S 29 B T.
	A cedar, 12 ins. dia., brs. N.25°30'W., 436 lks. dist., marked T 32 S R 23 E S 20 B T.
	Land, rolling, S. half mile broken by ravines. Drainage E.
	Soil, sandy loam and loose rocks, on S. half mile, and on N. half mile, sandy loam and clay on subsoil of clay.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon .

	N.89° 45'E., bet. secs. 21 and 28, on a random line.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 18 lks. N. of the cor. of secs. 21, 22, 27 and 28.
	S.89° 53'W., bet. secs. 21 and 28, on a true line.
	Over rolling land, through scattering cedars and pinon timber, and sage brush and grass undergrowth.
20.00	Enter dense timber and scattering undergrowth, brs. N. and S.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}\frac{S\ 21}{S\ 28}$ 1917
	From which
	A cedar, 8 ins. dia., brs. N.75°W., 62 lks. dist., marked $\frac{1}{4}$ S 21 B T.
	A pinon, 10 ins. dia., brs. S.2°E., 57 lks. dist., marked $\frac{1}{4}$ S 28 B T.
59.99	Cor. No. 3, of H.E.S. No. 96, which is a cedar, post, 6 ins. sq., 1 ft. above the ground, marked and witnessed as described by the surveyor general, brs. S. 22 lks. dist.

CHAINS	
	Fence, brs. N. and S. Fence, bearing W. S. of line 15 lks.
61.12	Fence, brs. N.89°55'W., and S.89°55'E.
70.00	Enter scattering timber and dense undergrowth, brs. N. and S.
80.02	The cor. of secs. 20, 21, 28 and 29.
	Land, rolling. Drainage SE.
	Soil, sandy loam and clay on subsoil of clay.
	Undergrowth sage brush and grass.
	Timber, cedars and pinon.

	N.0° 01'W., bet. secs. 20 and 21.
	Over rolling land, through sage brush and grass undergrowth and scattering cedars and pinon timber.
0.35	Wire fence, brs. E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	¼ S20 | S21 1917
	From which
	A cedar, 9 ins. dia., brs. S.84°15'E., 33 lks. dist., marked ¼ S 21 B T.
	A cedar, 11 ins. dia., brs. S.54°45'W., 27 lks. dist., marked ¼ S 20 B T.
50.00	Descend into ravine, brs. E. and W.
57.50	Ravine, 155 ft. deep, course E. Ascend.
64.40	Top of ravine, brs. E. and W. thence over rolling land.
76.00	Descend into ravine, brs. E. and W.
80.00	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, marked on brass cap
	T32S | R23E S17 | S16 --- S20 | S21 1917
	From which

CHAINS	
	A pinon, 11 ins. dia., brs. N.68°45'E., 78 lks. dist., marked T 32 S R 23 E S 16 B T.
	A cedar, 12 ins. dia., brs. S.39°30'E., 72 lks. dist., marked T 32 S R 23 E S 21 B T.
	A cedar, 16 ins. dia., brs. S.60°30'W., 89 lks. dist., marked T 32 S R 23 E S 20 B T.
	A cedar, 7 ins. dia., brs. N.49°45'W., 33 lks. dist., marked T 32 S R 23 E S 17 B T.
	Land of the S. 50.00 chs. rolling and of the remaining portion broken by ravines. Drainage E.
	Soil of the S. 50.00 chs. sandy loam and clay on a subsoil of clay. Soil of the remaining portion, sandy loam and loose rocks.
	Undergrowth sage brush and grass.
	Timber, cedars and pinon.

	N.89° 53'E., bet. secs. 16 and 21, on a random line.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 15, 16, 21 and 22.
	S.89° 57'W., bet. secs. 16 and 21, on a true line.
	Ascend over broken land, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.
8.00	Spur, 40 ft. above sec. cor., projects NE.
	Enter scattering timber and iron brush undergrowth, brs. NE. and SW. Descend.
39.98	175 ft. below top of spur, on slope of canyon.
	Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in the ground, to solid rock, and raise a mound of stone, 3 ft. base, 6 ins. high around post, for ¼ sec. cor., marked on brass cap
	¼ S 16 / S 21
	1917

CHAINS	
	From which
	A pinon, 4 ins. dia., brs. N.66°15'E., 110 lks.
	dist., marked $\frac{1}{4}$ S 16 B T.
	A pinon, 6 ins. dia., brs. S.82°30'E., 140 lks.
	dist., marked $\frac{1}{4}$ S 21 B T.
42.70	Canyon, 50 ft. below $\frac{1}{4}$ sec. cor., course N.60°E. Ascend.
53.50	Top of ascent, 55 ft. above canyon, slopes S. Descend.
60.00	Ravine, 50 ft. below top of ascent, course S.60°E.
	Ascend. Enter dense timber, brs. N.70°E., and S.70°W.
79.96	The cor. of secs. 16, 17, 20 and 21.
	Land, rough and broken by ravines. Drainage E.
	Soil, sandy loam and loose rocks. Surface covered with sandstone boulders.
	Undergrowth, sage brush, iron brush and grass.
	Timber, cedars and pinons.

	N.0° 01'W., bet. secs. 16 and 17.
	Descend over broken land, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.
4.20	Ravine, 50 ft. below sec. cor., course S.80°E.
	Ascend gradually over broken land.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4}$ S17 | S16 1917
	From which
	A pinon, 10 ins. dia., brs. S.59°45'E., 28 lks. dist., marked $\frac{1}{4}$ S 16 B T.
	A pinon, 8 ins. dia., brs. S.50°15'W., 21 lks. dist., marked $\frac{1}{4}$ S 17 B T.
53.00	Descend from mesa over rough and broken slope, brs. NE. and SW.
80.00	150 ft. below top of mesa, on rough and broken slope.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the

CHAINS	
	ground, for the cor. of secs. 8, 9, 16 and 17, marked on brass cap
	T32S | R23E S 8 | S 9 S17 | S16 1917
	From which
	A cedar, 24 ins. dia., brs. N.68°45'E., 39 lks. dist., marked T 32 S R 23 E S 9 B T.
	A pinon, 7 ins. dia., brs. S.12°45'E., 61 lks. dist., marked T 32 S R 23 E S 16 B T.
	A pinon, 5 ins. dia., brs. S.60°30'W., 23 lks. dist., marked T 32 S R 23 E S 17 B T.
	A pinon, 6 ins. dia., brs. N.53°W., 51 lks. dist., marked T 32 S R 23 E S 8 B T.
	Land of the S. 53.00 chs. rolling and broken by ravines, draining E.; and of the N. 27.00 chs. rough and broken slope of mesa, drainage W.
	Soil, sandy loam and loose rocks. Surface of N. 27.00 chs. covered with sandstone boulders.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinons.

	N.89° 57'E., bet. secs. 9 and 16, on a random line.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line, 18 lks. S. of the cor. of secs. 9, 10, 15 and 16.
	S.89° 49'W., bet. secs. 9 and 16, on a true line.
	Over rolling land, through sage brush and grass undergrowth and scattering cedars and pinon timber.
3.50	Swale, course NE.
3 8.50	Enter dense timber and scattering undergrowth, brs. N. and S.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

CHAINS

$\frac{1}{4}\frac{S\ 9}{S\ 16}$

1917

From which

A cedar, 11 ins. dia., brs. N.39°W., 13 lks. dist., marked $\frac{1}{4}$ S 9 B T.

A pinon, 7 ins. dia., brs. S.15°30'W., 13 lks. dist., marked $\frac{1}{4}$ S 16 B T.

63.00 Descend from mesa, brs. N.20°E., and S.20°W.

80.02 The cor. of secs. 8, 9, 16 and 17.

Land of the E. 63.00 chs. rolling mesa top, and of the W. 17.02 chs. rough and broken slope of mesa.

Soil of the E. 63.00 chs. sandy loam and clay on subsoil of clay and of the W. 17.02 chs. sandy loam and loose rocks, the surface being covered with loose sandstone boulders.

Undergrowth sage brush and grass on E. 38.50 chs. and scattering on remaining portion of mile.

Timber, dense cedars and pinon on W. 41.52 chs.

N.0° 01'W., bet. secs. 8 and 9.

Descending over rough and broken slope of mesa, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.

40.00 On slope of mesa, 100 ft. below sec. cor.

Set an iron post, 3 ft. long, 1 in. dia., on sandstone outcropping, in a mound of stone, 5 ft. base, 26 ins. high for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S8 | S9

1917

From which

A pinon, 7 ins. dia., brs. S.53°E., 42 lks. dist., marked $\frac{1}{4}$ S 9 B T.

A pinon, 6 ins. dia., brs. S.26°W., 21 lks. dist., marked $\frac{1}{4}$ S 8 B T.

CHAINS	
67.50	Ravine, 100 ft. below ¼ sec. cor., course NW. Ascend.
80.00	75 ft. above ravine.
	Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground to solid rock and raise a mound of stone, 5 ft. base, 18 ins. high around post, for the cor. of secs. 4, 5, 8 and 9, marked on brass cap
	T32S | R23E S 5 | S 4 S 8 | S 9 1917
	From which
	A pinon, 7 ins. dia., brs. N.53°30'E., 4.4 lks. dist., marked T 32 S R 23 E S 4 B T.
	A pinon, 8 ins. dia., brs. S.26°E., 50 lks. dist., marked T 32 S R 23 E S 9 B T.
	A cedar, 8 ins. dia., brs. S.46°30'W., 30 lks. dist., marked T 32 S R 23 E S 8 B T.
	A pinon, 6 ins. dia., brs. N.32°W., 68 lks. dist., marked T 32 S R 23 E S 5 B T.
	Land rough and broken slope of mesa. Drainage W.
	Soil, sandy loam and loose rocks. Surface covered with loose sandstone boulders.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon.

	N.89° 49'E., bet. secs. 4 and 9, on a random line.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 3, 4, 9 and 10.
	S.89° 47'W., bet. secs. 4 and 9, on true line.
	Descending gradually along slope of mesa which slopes N., through scattering sage brush and grass undergrowth, and dense cedars and pinon timber.
33.20	Descend abruptly into ravine, brs. NW. and SE.
40.03	200 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in.dia., 6 ins. in the

CHAINS	
	ground to solid rock, and raise a mound of stone, 4 ft. base, 20 ins. high around post, for $\frac{1}{4}$ sec. cor., marked oh brass cap $\frac{1}{4}\frac{S\ 4}{S\ 9}$ 1917 From which A pinon, 10 ins. dia., brs. N.24°30'E., 16 lks. dist., marked $\frac{1}{4}$ S 4 B T. A cedar, 6 ins. dia., brs. S.51°15'E., 34 lks. dist., marked $\frac{1}{4}$ S 9 B T.
65.30	Ravine, 30 ft. below $\frac{1}{4}$ sec. cor., course NW. Ascend.
68.99	Spur, 50 ft. above ravine, slopes NW. Descend.
80.06	100 ft. below spur. The cor. of secs. 4, 5, 8 and 9. Land, rough and broken slope of mesa, drainage N. and NW. Soil, sandy loam, clay and loose rocks. Surface covered with loose sandstone boulders. Undergrowth, scattering sage brush and grass. Timber, cedars and pinon.

	N.0° 01'W., bet. secs. 4 and 5. Ascend over rough and broken land, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.
8.00	Top of ascent, 40 ft. above sec. cor., slopes NW. Descend.
15.00	Ravine, 100 ft. below top of ascent, course N.60°W. Ascend over sandstone ledges.
25.00	Top of sandstone spur, projects W. Descend over sandstone ledges.
35.20	Ravine, 150 deep, course W. Ascend over sandstone spur.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $S5 \mid \frac{1}{4} \mid S4$ 1917

CHAINS

From which

A pinon, 8 ins. dia., brs. N.55°E., 12 lks. dist., marked ¼ S 4 B T.

A pinon, 7 ins. dia., brs. S.70°W., 40 lks. dist., marked ¼ S 5 B T.

44.50 Sandstone spur, 150 ft. high, projects W.

Descend over rough and broken sandstone slope.

100.00 Foot of sandstone spur, 125 ft. below top, brs. N.20°E. and S.20°W. Leave timber and enter dense sage brush, brs. N.20°E., and S.20°W.

Thence over rolling land.

121.04 Intersect N. bdy. of Tp. 585 lks. E. of the cor. of secs. 4, 5, 32 and 33, which is a sandstone, 24 x 10 x 8 ins. marked and witnessed as described by th surveyor general. This cor. will pertain to secs. 32 and 33 only, hereafter. At intersection

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 4 and 5, marked on brass cap

T31S R23E
S33

S 5 | S 4
T32S | R23 E
CC

1917

From which

A pinon, 12 ins. dia., brs. S.48°E., 210 lks. dist., marked C C T 32 S R 23 E S 4 B T.

A pinon, 10 ins. dia., brs. S.9°W., 184 lks. dist., marked C C T 32 S R 23 E S 5 B T.

Land, rough and broken sandstone slope on S. 100.00 chs. and E. of line of the remaining portion of mile. Land E. of line of the N. 20.04 chs. rolling sage brush land.

Soil, of the S. 100.00 chs. sandy loam and loose rocks, with numerous sandstone outcroppings. Soil of the N. 20.04 chs. sandy loam and clay.

Undergrowth, scattering sage brush and grass on S. 100.00

CHAINS	
	chs. and dense sage brush on N. 20.04 chs.
	Timber, cedars and pinon on S. 100.00 chs. and very scattering on N. 20.04 chs.

	From the cor. of secs. 31 and 32, on S. bdy. of Tp., heretofore described, thence
	N.0° 02'W., bet. secs. 31 and 32.
	Over rolling land, through scattering cedars and pinon timber, and undergrowth of sage brush and grass.
16.60	Wash, 10 lks. wide, 2 ft. deep, course SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4}$
	S31 | S32
	1917
	From which
	A pinon, 8 ins. dia., brs. S.22°30'E., 3 6 lks. dist., marked $\frac{1}{4}$ S 32 B T.
	A pinon, 8 ins. dia., brs. S.61°W., 25 lks. dist., marked $\frac{1}{4}$ S 31 B T.
77.40	Wash, 20 lks. wide, 2 ft. deep, course NE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in the ground, to solid rock and raise a mound of stone, 4 ft. base, 16 ins. high around post, for the cor. of secs. 29, 30, 31 and 32, marked on brass cap
	T32S | R23E
	S30 | S29
	S31 | S32
	1917
	From which
	A pinon, 6 ins. dia., brs. N.36°30'E., 88 lks. dist., marked T 32 S R 23 E S 29 B T.
	A pinon, 7 ins. dia., brs. S.43°30'E., 137 lks. dist., marked T 32 S R 23 E S 32 B T.
	A pinon, 12 ins. dia., brs. S.20°W., 191 lks. dist., marked T 32 S R 23 E S 31 B T.

CHAINS	
	A pinon, 15 ins. dia., brs. N.69°45'W., 295 lks. dist., marked T 32 S R 23 E S 30 B T.
	Land, rolling. Drainage NE.
	Soil, sandy loam, clay and scattering loose rocks, on subsoil of clay.
	Undergrowth, sage brush and grass.
	Timber, scattering cedars and pinon.

	S.89° 48'E., bet. secs. 29 and 32, on a random line.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 28, 29, 32 and 33.
	N.89° 52'W., bet. secs. 29 and 32, on true line.
	Over rolling land, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.
1.00	Descend into ravine, brs. N. and S.
4.60	Ravine, 80 ft. deep, wash in bottom, 30 lks. wide, 6 ft. deep, course N. Ascend.
10.00	Top of ravine, brs. N. and S.
	Enter scattering timber, brs. N. and S.
	Thence over rolling land.
39.95	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 29 / S 32 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
74.50	Wash, 10 lks. wide, 2 ft. deep, course NE.
79.90	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling on W. 69.90 chs. and the E. 10.00 chs. broken by ravine, draining N.
	Soil, sandy loam and scattering loose rocks. Sandstone formation.
	Undergrowth, sage brush and grass.
	Timber, cedars and pinon.

CHAINS	
	N.89° 56'W., bet. secs. 30 and 31, on random line.
40.00	Set temp. ¼ sec. cor.
84.35	Intersect W. bdy. of Tp. 5 lks. S. of the cor. of secs. 25, 30, 31 and 36, which is an iron post, 3 ins. dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general. Thence
	S.89° 54'E., bet. secs. 30 and 31, on true line.
	Descend over broken land, through undergrowth of sage brush, oak brush and grass and scattering cedars and pinon timber.
4.35	Ravine, 60 ft. below sec. cor., course NE. Ascend.
8.35	Point of spur, 50 ft. above ravine, slopes NE. Descend.
23.55	Canyon, 110 ft. below point of spur, wash in bottom of canyon, 50 lks. wide, 15 ft. deep, course N. Ascend.
27.00	Top of canyon, 100 ft. above bottom, brs. N. and S.
	Thence over rolling land, Leave oak brush, brs. N. and S.
44.35	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	¼ S 30 / S 31
	1917
	From which
	A cedar, 10 ins. dia., brs. N.64°15'W., 235 lks. dist., marked ¼ S 30 B T.
	A cedar, 7 ins. dia., brs. S.30°30'E., 87 lks. dist., marked ¼ S 31 B T.
48.00	Enter dense timber, and scattering undergrowth, brs. N. and S.
80.00	Enter scattering timber and medium undergrowth, brs. N. and S.
84.35	The cor. of secs. 29, 30, 31 and 32.
	Land of the W. 27.00 chs. rough and broken by ravines. drainage N. Land of the remaining portion rolling.
	Soil, of the W. 27.00 chs. sandy loam and loose rocks, and numerous sandstone outcropings. Soil of the remaining portion, sandy loam and clay on subsoil of clay.
	Undergrowth, sage brush and grass on W. half mile and

CHAINS	
	scattering sage brush and grass on E. half mile. Oak brush on W. 27.00 chs.
	Timber, scattering cedars and pinon on W. half mile and dense cedars and pinon on E. half mile.

	N.0° 02'W., bet. secs. 29 and 30.
	Over rolling land, through sage brush and grass undergrowth and scattering cedars and pinon timber.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S30 | S29 1917 From which
	A cedar, 10 ins. dia., brs. S.24°E., 46 lks. dist., marked ¼ S 29 B T.
	A cedar, 10 ins. dia., brs. S.3 °15'W.,33 lks. dist., marked ¼ S 30 B T.
52.00	Descend into ravine, brs. NE. and SW.
55.50	Ravine, 70 ft. deep, course NE.
	Enter dense timber, and scattering undergrowth, brs. NE. and SW. Ascend.
60.00	Top of ravine, brs. NE. and SW.
	Thence over rolling land.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to solid rock and raise a mound of stone, 4 ft. base, 18 ins. high around post, for the cor. of secs. 19, 20, 29 and 30, marked on brass cap T32S | R23E S19 | S20 S30 | S29 1917 From which
	A pinon 11 ins. dia., brs. N.47°15'E., 60 lks. dist., marked T 32 S R 23 E S 20 B T.
	A pinon, 10 ins. dia., brs. S.47°15'E., 60 lks. dist., marked T 32 S R 23 E S 29 B T.

CHAINS

A pinon, 12 ins. dia., brs. S.81°W., 38 lks. dist., marked T 32 S R 23 E S 30 B T.

A pinon, 6 ins. dia., brs. N.57°W.,34 lks. dist., marked T 32 S R 23 E S 19 B T.

Land, rolling. S. portion of N. half mile broken by ravine, draining NE.

Soil, sandy loam and scattering loose rocks.

Undergrowth, sage brush and grass on S. 55.50 chs. and scattering on remaining portion of mile.

Timber, scattering cedars and pinon on S. 55.50 chs. and dense on N. 24.50 chs.

S.89° 52'E., bet. secs. 20 and 29, on random line.

40.00 Set temp. ¼ sec. cor.

79.90 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 20, 21, 28 and 29.

N.89° 54'W., bet. secs. 20 and 29, on true line.

Over rolling land, through sage brush and grass undergrowth and scattering cedars and pinon timber.

5.00 Enter dense timber and scattering undergrowth, brs. N. and S.

25.00 Descend into ravine, brs. N.20°E., and S.20°W.

3 7.20 Ravine, 115 ft. deep, course N.20°E. Ascend.

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

¼ S 20 / S 29

1917

From which

A pine, 24 ins. dia., brs. N.5°30'E., 223 lks. dist., marked ¼ S 20 B T.

A pinon, 6 ins. dia., brs. S.14°E., 128 lks. dist., marked ¼ S 29 B T.

50.00 Top of ravine, brs. N.20°E., and S.20°W.

Thence over rolling land.

79.90 The cor. of secs. 19, 20, 29 and 30.

CHAINS	
	Land rolling and broken by ravine. Drainage NE.
	Soil, sandy loam and clay on subsoil of clay.
	Undergrowth dense sage brush and grass on E. 5.00 chs. and scattering on remaining portion of mile.
	Timber, scattering cedars and pinon on E. 5.00 chs. and dense on remaining portion of mile.

	N.89° 54'W., bet. secs. 19 and 30, on random line.
40.00	Set temp. ¼ sec. cor.
84.12	Intersect W. bdy. of Tp. 5 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is an iron post, 3 ins. dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general.
	S.89° 56'E., bet. secs. 19 and 30, on true line.
	Ascend over rough and broken slope of mesa, through scattering sage brush and grass undergrowth, and dense cedars and pinon timber.
16.00	Top of spur, 75 ft. above sec. cor., slopes NW. Descend.
19.15	Road, brs. N. and S.
21.50	Ravine, 40 ft. below spur, course N.10°W.
	Ascend gradually over rough and broken slope.
44.12	On rough slope of mesa, 40 ft. above ravine.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 19 / S 30 1917
	From which
	A cedar, 10 ins. dia., brs. N.72°W., 208 lks. dist., marked ¼ S 19 B T.
	A cedar, 12 ins. dia., brs. S.80°W., 236 lks. dist., marked ¼ S 30 B T.
	Ascend abruptly over sandstone ledges.
58.60	Top ofmesa, 190 ft.above ¼ sec. cor., brs. N. and S.20°W.
	End of wire fence, extending E., brs. S. 25 lks. dist.
	Thence over rolling mesa top.

CHAINS	
61.60	Wire fence, brs. N.89°50'E., and S.89°50'W.
84.12	The cor. of secs. 19, 20, 29 and 30.
	Land of the W. 58.60 chs., rough and broken slope of mesa and of the remaining portion rolling mesa top.
	Soil of the W. 58.60 chs. sandy loam, clay and loose rocks, surface covered with sandstone boulders. Soil of the remaining portion, sandy loam and loose rocks.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon.

	N.0° 02'W., bet. secs. 19 and 20.
	Over rolling land, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.
0.40	Wire fence, brs. E. and W.
25.00	Wash in small swale, 6 lks. wide, 1 ft. deep course E.
40.00	On brink of mesa.
	Set an iron post, 3 ft. long, 1 in. dia., on sandstone outcroping, in a mound of stone, 5 ft. base, 26 ins. high, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S19 | S20 1917
	From which
	A pinon, 10 ins. dia., brs. S.6°45'E., 48 lks. dist., marked $\frac{1}{4}$ S 20 B T.
	A pinon, 10 ins. dia., brs. S.66°W., 25 lks. dist., marked $\frac{1}{4}$ S 19 B T.
	Abrupt descent over sandstone ledge, 50 ft. high, brs. N.20°E., and S.20°W.
73.50	Ravine, 175 ft. below mesa, course N.20°E. Ascend.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 17, 18, 19 and 20, marked on brass cap T32S | R23E S18 | S17 S19 | S20 1917

CHAINS	
	From which
	A cedar, 8 ins. dia., brs. N.71°E., 59 lks. dist., marked T 32 S R 23 E S 17 B T.
	A pinon, 4 ins. dia., brs. S.76°15'E., 38 lks. dist., marked T 32 S R 23 E S 20 B T.
	A pinon, 10 ins. dia., brs. S.55°W., 42 lks. dist., marked T 32 S R 23 E S 19 B T.
	A pinon, 10 ins. dia., brs. N.39°W., 50 lks. dist., marked T 32 S R 23 E S 18 B T.
	Land of the S. half mile rolling top of mesa and of the N. half mile rough and broken slope of mesa.
	Soil of the S. half mile, sandy loam and scattering loose rocks, and the soil of the N. half mile, sandy loam and loose rocks. The surface is covered with sandstone boulders.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon.

	S.89° 54'E., bet. secs. 17 and 20, on random line.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line, 12 lks. S. of the cor. of secs. 16, 17, 20 and 21.
	N.89° 59'W., bet. secs. 17 and 20, on true line.
	Ascend, over broken land, through scattering sage brush and grass undergrowth and dense cedar and pinon timber.
10.00	Top of ravine, 30 ft. above sec. cor., brs. N. and S.
	Thence over rolling top of mesa.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock, and raise a mound of stone, 4 ft. base, 20 ins. high around post, for ¼ sec. cor., marked on brass cap ¼ S 17 / S 20 1917
	From which
	A pinon, 6 ins. dia., brs. N.47°W., 37 lks. dist.,

CHAINS	
	marked ¼ S 17 B T.
	A pinon, 5 ins. dia., brs. S.29°45'E., 17 lks. dist., marked ¼ S 20 B T.
43.40	Descend from mesa, over sandstone ledge, 60 ft. high, brs. NE. and SW.
66.20	Ravine, 175 ft. below mesa, course NW. Ascend.
70.00	Top of ascent, 25 ft. above ravine, slopes NW. Descend.
77.00	Ravine, 30 ft. deep, course N. Ascend.
80.02	The cor. of secs. 17, 18, 19 and 20.
	Land, of the E. 43.40 chs. rolling top of mesa and of the remaining portion rough and broken slope of mesa.
	Soil of the E. 43.40 chs. sandy loam and scattering loose rock and of the remaining portion, sandy loam and loose rock, the surface being covered with loose sandstone boulders.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon.
	N.89° 56'W., bet. secs. 18 and 19, on random line.
40.00	Set temp. ¼ sec. cor.
83.84	Intersect W. bdy. of Tp. 5 lks. N. of the cor. of secs. 13, 18, 19 and 24, which is an iron post, 3 ins. dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general.
	S.89° 58'E., bet. secs. 18 and 19, on true line.
	Over rolling land, through sage brush and grass undergrowth.
11.35	Wash, 70 lks. wide, 20 ft. deep, course NW.
22.00	Foot of mesa, brs. NE. and SW.
	Enter cedar and pinon timber and scattering undergrowth, brs. NE. and SW.
	Ascend over rough and broken slope.
34.00	Foot of sandstone ledge, brs. N. and SE. Abrupt ascent.
38 .35	Top of ledge, 100 ft. high, brs. N. and SE.
	Continue ascent over rough and broken slope of mesa.

CHAINS	
43.84	On slope of mesa, 175 ft. above foot. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 18 / S19 1917 From which A pinon, 6 ins. dia., brs. N.23°E., 30 lks. dist., marked ¼ S 18 B T. A pinon, 6 ins. dia., brs. S.45°30'W., 46 lks. dist., marked ¼ S 19 B T.
83.84	The cor. of secs. 17, 18, 19 and 20, 225 ft. above ¼ sec. cor. Land of the W. 22.00 chs. rolling valley, draining N., and of the remaining portion, rough and broken slope of mesa. Soil of the W. 22.00 chs. rich sandy loam and of the remaining portion of mile, sandy loam and loose rocks. Surface covered with loose sandstone boulders. Undergrowth, sage brush and grass on W. 22.00 chs. and scattering on remaining portion of mile. Timber, cedars and pinon on E. 61.84 chs.

	N.0° 02'W., bet. secs. 17 and 18. Descend over rough and broken slope of mesa, through scattering sage brush and grass undergrowth, and dense cedar and pinon timber.
18.30	Ravine, 160 ft. below sec. cor., course NW. Ascend.
22.00	Top of ascent, 50 ft. above ravine, slopes NW. Descend.
40.00	On rough and broken slope of mesa, 100 ft. below top of ascent. Set an iron post, 3 ft. long, 1 in. dia.,12 ins. in the ground to solid rock and raise a mound of stone, 4 ft. base, 14 ins. high around post for ¼ sec. cor., marked on brass cap
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CHAINS

$\frac{1}{4}$

S18 | S17

1917

From which

A pinon, 12 ins. dia., brs. N.23 °E., 30 lks. dist., marked $\frac{1}{4}$ S 17 B T.

A cedar, 36 ins. dia., brs. N.62°W., 42 lks. dist., marked $\frac{1}{4}$ S 18 B T.

52.00 Foot of mesa, 200 ft. below $\frac{1}{4}$ sec. cor., brs. E. and W.

Enter scattering timber, and medium growth of sage brush and grass, brs. E. and W.

Thence over rolling valley.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 7, 8, 17 and 18, marked on brass cap

T32S | R23E.
S 7 | S 8
S18 | S17

1917

From which

A cedar, 6 ins. dia., brs. N.87°45'E., 435 lks. dist., marked T 32 S R 23 E S 8 B T.

A cedar, 7 ins. dia., brs. S.54°35'E., 432 lks. dist., marked T 32 S R 23 E S 17 B T.

No bearing trees available in secs. 7 and 18.

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

Land of the S. 52.00 chs. rough and broken slope of mesa, and of the N. 28.00 chs. rolling valley. Drainage W.

Soil of the S. 52.00 chs. sandy loam, clay and loose rocks. Surface covered with sandstone boulders. Soil of the N. 28.00 chs. sandy loam , clay and scattering loose rocks.

Undergrowth, scattering sage brush and grass on S. 52.00 chs. and medium growth on N. 28.00 chs.

Timber, medium growth cedars and pinon on S. 52.00 chs. and scattering on N. 28.00 chs.

CHAINS	
	S.89° 59'E., bet. secs. 8 and 17, on random line.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 8, 9, 16 and 17.
	N.89° 57'W., bet. secs. 8 and 17.
	Descend over rough and broken slope of mesa, through scattering sage brush and grass undergrowth and dense cedars and pinon timber.
39.97	On broken slope of mesa, 215 ft. below sec. cor. Set an iron post, 3 ft. long, 1 in. dia., on sandstone outcroping, in mound of stone, 5 ft. base, 26 ins. high for ¼ sec. cor., marked on brass cap ¼ S 8 / S 17 1917 From which A pinon, 7 ins. dia., brs. N.76°30'E., 20 lks. dist., marked ¼ S 8 B T. A pinon, 6 ins. dia., brs. S.2°30'E., 20 lks. dist., marked ¼ S 17 B T.
50.60	Ravine, 150 ft. below ¼ sec. cor., course N.70°W.
	Ascend.
52.00	Top of ascent, 50 ft. above ravine, slopes NW. Descend.
54.90	Ravine, 85 ft. below top of ascent, course NW. Ascend.
69.00	Spur, 50 ft. above, ravine, projects N.20°W. Descend.
76.00	Foot of mesa, 90 ft. below spur, brs. NE. and S.
	Leave timber, brs. NE. and S.
	Thence over rolling land.
79.94	The cor. of secs. 7, 8, 17 and 18.
	Land of the E. 76.00 chs. rough and broken slope of mesa, and of the remaining portion rolling valley.
	Soil of the E. 76.00 chs. sandy loam, clay and loose rocks. Surface covered with sandstone boulders. Soil of the W. 3.96 chs. sandy loam on subsoil of clay.
	Undergrowth, scattering sage brush and grass.
	Timber, cedars and pinon on E. 76.00 chs. of mile.

CHAINS	
	N.89° 58'W., bet. secs. 7 and 18, on random line.
40.00	Set temp. ¼ sec. cor.
83.66	Intersect W. bdy. of Tp. 32 lks. S. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, 3 ins. dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general.
	S.89° 45'E., bet. secs. 7 and 18.
	Over rolling land, through sage brush and grass undergrowt and few scattering cedars and pinon.
12.25	Wash, 50 lks. wide, 15 ft. deep, course N. Ascend spur.
18.00	Wire fence, brs. N. and S.
36.00	Spur, 50 ft. above wash, projects N. Descend.
43.66	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 7 / S 18 1917
	From which
	A cedar, 12 ins. dia., brs. N.84°W., 464 lks. dist., marked ¼ S 7 B T.
	A cedar, 15 ins. dia., brs. S.46°W., 342 lks. dist., marked ¼ S 18 B T.
51.80	Wash at foot of spur, 50 ft. below top, 10 lks. wide, 3 ft. deep, course NW.
	Thence over rolling land.
54.50	Enter plowed land, brs. N. and S.
56.50	Leave plowed land, brs. N. and S.
75.35	Road, brs. N. and S.
83.66	The cor. of secs. 7, 8, 17 and 18.
	Land rolling valley, except E. portion of W. half mile, which is broken by rolling hills. Drainage of land, N.
	Soil, sandy loam and clay on subsoil of clay.
	Undergrowth, sage brush and grass.
	Timber, very scattering cedars and pinons.

CHAINS	
	N.0° 02'W., bet. secs. 7 and 8.
	Over rolling land, through sage brush and grass undergrowth.
15.00	Road, brs. NE. and SW.
20.00	Enter plowed land, brs. E. and W.
30.00	Leave plowed land, brs. E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S7 | S8 1917 Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
69.60	Road, brs. E. and W.
80.00	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, marked on brass cap T32S | R23E S 6 | S 5 S 7 | S 8 1917 Dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist.
	Land rolling valley, Drainage NW.
	Soil rich sandy loam and clay, on subsoil of clay.
	Undergrowth, sage brush and grass.
	No timber.

	S.89° 57'E., bet. secs. 5 and 8, on random line.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 4, 5, 8 and 9.
	N.89° 58'W., bet. secs. 5 and 8, on true line.
	Descend over rough and broken slope of mesa, through scattering sage brush and grass undergrowth and medium growth of cedar and pinon timber.
7.70	Ravine, 150 ft. below sec. cor., course NW. Ascend.

CHAINS	
11.00	Top of ascent, 50 ft. above ravine, slopes NW. Descend.
16.00	Foot of mesa, 50 ft. below top of ascent, brs. N. and SW.
	Thence over rolling land. Leave timber, enter sage brush and grass, brs. N. and S.
39.95	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap
	¼ S 5. / S 8.
	1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
52.00	Enter plowed land, brs. N. and S.
66.50	Leave plowed land, brs. N. and S.
79.90	The cor. of secs. 5, 6, 7 and 8.
	Land of the E. 16.00 chs. rough and broken slope of mesa, and of the remaining portion rolling valley.
	Soil of the E. 16.00 chs. sandy loam, clay and loose rocks. Surface covered with sandstone boulders. Soil of the remaining portion, rich sandy loam, clay on subsoil of clay.
	Undergrowth, sage brush and grass. Scattering on E. 16.00 chs.
	Timber, cedars and pinon on E. 16.00 chs.

	N.89° 45'W., bet. secs. 6 and 7, on random line.
40.00	Set temp. ¼ sec. cor.
83.53	Intersect W. bdy. of Tp., 5 lks. S. of the cor. of secs. 1, 6, 7 and 12, which is an iron post, 3 ins. dia., 12 ins. above the ground, marked and witnessed as described by the surveyor general.
	S.89° 43'E., bet. secs. 6 and 7, on true line.
	Descend over rolling hills, through sage brush and grass undergrowth, and very scattering cedar and pinon timber.
32.00	Foot of hills, 75 ft. below sec. cor., brs. N. and S.
	Leave scattering timber, brs. N. and S.
	Thence over rolling land.

CHAINS	
36.90	Wire fence, brs. N. and S.
43.53	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 6 / S 7 1917
	Dig pits, 18 x 18 x 12 ins.,E. and W. of post, 3 ft. dist.
53.00	Wash, 70 lks. wide, 15 ft. deep, course N.
56.00	Road, brs. NW. and SE. Road forks 50 lks. S. of line, one brs. to the E., and one to the SW.
77.00	Road, brs. N. and S.
83.53	The cor. of secs. 5, 6, 7 and 8.
	Land of the W. 32.00 chs. rolling hills and of the remaining portion of mile, rolling valley. Drainage N.
	Soil, of the W. 32.00 chs., sandy loam and loose rocks, and of the remaining portion, rich sandy loam and clay, on subsoil of clay.
	Undergrowth, sage brush and grass.
	Timber, very scattering cedars and pinon on W. 32.00 chs.

	N.0° 02'W., bet. secs. 5 and 6.
	Over rolling land, through sage brush and grass undergrowth.
22.50	Road, brs. NE. and SW.
	Ascend gradually over rolling hills, brs. NE. and SW.
30.00	Top of sandstone knoll. Descend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S6 | S5 1917
	From which
	A cedar, 18 ins. dia., brs. S.88°E., 413 lks. dist., marked ¼ S-5 B T.
	A pinon, 8 ins. dia., brs. S.44°W., 424 lks. dist., marked ¼ S 6 B T.

CHAINS

Thence over rolling land, brs. NE. and SW.

55.30 Wash, 10 lks. wide, 2 ft. deep, course W. Ascend.

57.00 Wire fence brs. E. and W.

67.00 Top of ascent, 20 ft. above wash, brs. NW. and SE.

Thence over rolling land.

85.00 Descend, brs. E. and W.

92.00 Wash, 20 lks. wide, 4 ft. deep, course W. Ascend.

110.00 Top of sandstone knoll, 75 ft. above wash. Descend.

120.00 Intersect N. bdy. of Tp. 573 lks. E. of the cor. of secs. 5, 6, 31 and 32, which is a sandstone, 18 x 6 x 4 ins. marked and witnessed as described by the surveyor general. I destroy the marking on trees pertaining to secs. 5 and 6, making this cor. for secs. 31 and 32 only. At intersection

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

T31S R23E
S 32

S 6 | S 5
T32S | R23E
C C

1917

From which

A pinon, 10 ins. dia., brs. S.57°45'E., 65 lks. dist., marked C C T 32 S R 23 E S 5 B T.

A pinon, 12 ins. dia., brs. S.38°30'W., 278 lks. dist., marked C C T 32 S R 23 E S 6 B T.

Land rolling and rolling hills. Drainage N.

Soil, sandy loam and scattering loose rocks. Sandstone outcroppings on portion of mile.

Undergrowth, sage brush and grass.

Timber, few scattering cedars and pinon at ¼ sec. cor and at N. end of mile.

BOUNDARIES OF T.32 S.,R.23 E.

Latitudes, departures, and closing errors.

Line designated	Bearing	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
		Chs.	Chs	Chs.	Chs.	Chs.
S.bdy. sec. 36,	N.89°59'W	80.08	0.03			80.08
S.bdy. sec. 35,	N.89°52'W	80.54	0.18			80.54
S.bdy. sec. 34,	N.89°56'W	40.21	0.05			40.21
	N.89°38'W	40.03	0.26			40.03
S.bdy. sec. 33	S.89°37'W	39.82		0.27		39.82
	S.89°55'W	38.82		0.06		38.82
S. bdy. sec. 32	N.89°45'W	40.76	0.18			40.76
	N.89°52'W	39.50	0.09			39.50
S. bdy. sec. 31,	N.89°57'W	39.98	0.03			39.98
	N.89°56'W	44.78	0.05			44.78
W. bdy. of Tp.	North	520.62	520.62			
N. bdy. of Tp.	East,	485.08			485.08	
E. bdy of Tp secs.1,12 &13	South	277.10		277.10		
sec. 24	S.0°09'E	80.23		80.23	0.21	
Secs.25 and 36	S.0°48'W	123.54		123.54		1.72
sec. 36	South,	40.06		40.06		
Convergency					0.57	
			521.49	521.26	485.86	486.24
			521.26			485.86
Error in lat. and dep.			.23			.38

GENERAL DESCRIPTION.

The land of this township consists of rolling mesa, broken by numerous ravines and canyons, rolling valley and rough and broken slopes of mesa.

The soil of the valley through a portion of secs. 1, 6 and 7, is a rich sandy loam, covered with a medium growth of sage brush and grass, and will produce crops with irrigation.

The soil of the mesa land, through the SE. portion of township is generally a rich sandy loam and clay, covered with a dense growth of cedars and pinon timber. There are numerous sage brush flats found on the mesa land, and the soil will produce good crops without irrigation. The soil of the remaining portion of this township, which is mostly rough and broken slopes of canyons and mesa, is a sandy loam and loose rocks, covered with a medium growth of cedar and pinon timber and scattering undergrowth of sage brush and grass. This land is only valuable for grazing purposes.

A small stream of clear water is found in ravine flowing through secs. 32,33, 27, 26, 23 and in canyon flowing through secs. 26, 24, 23, 13 and 12. There is also a a small stream flowing through secs. 35 and 36,

GENERAL DESCRIPTION OF T.32 S.,R.23 E.

There are settlers in sec.s. 34, 35, 27, 28, [illegible] 6.

The main crops raised are hay and grain.

No indications of mineral were found on this township.

WATER LOCATIONS.

W.½ of W.½ sec. 12.
W.½ of W.½ sec. 13.
SW¼ of NE.¼ sec.14, and SE.¼ of SE.¼ sec. 14.
E.½ of E.½ ; SW¼ of SW.¼ of sec. 23.
SW¼ of SW¼ of sec. 24.
E½ of E.½; and W½ of NW¼ sec. 26.
SE.¼ of NE.¼ ; NE.¼ of SE.¼;SW.¼ of SE.¼ and S.½ of SW¼ of sec. 27.
SE.¼ of SE¼ of sec. 28.
E.½ of NE.¼; SW.¼ of NE.¼ and N.½ of SW.¼ of sec. 33.
E.½ of SE.¼ ; SW.¼ of SE.¼ and SE.¼ of SW.¼ of sec.32.

The following Homestead Entries are within this township: No.94, Milton E.Johnson, claimant; No. 95 Henry G. Black, claimant; No. 96 Samuel E. Black, claimant.

4—680

BOOK A-434

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.	
Elliot Bird	July 1, 1917	Sept. 4, 1917	Chainman.
Harry F. Elliott	" " "	" " "	"
Oral Hall	" " "	" " "	Flagman.
H. Ruben Allen	July 19, 1917	Aug. 18, 1917	Cornerman.

The above assistants were employed in the survey of all the lines embraced in the survey of T. 32 S., R. 23 E., on the dates stated.

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

Ralph Gurney

~~U. S. Surveyor.~~

U.S. Cadastral Engineer.

7—2761

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

I, Ralph Gentry U.S. Cadastral Engineer do certify on honor, ~~U. S. Surveyor, do solemnly swear~~ that, in pursua
of special instructions received from the U. S. Surveyor General for Utah
bearing date of the 27 day of July, 1916, 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
retracement and resurvey of the south boundary; retracement and res
and survey of the subdivision of T. 32 S., R. 23 E.; and the resurvey
part of the Colorado Guide Meridian through T. 32 S., Rs. 23 and
of the Salt Lake Base
and Meridian, in the State of Utah, which are represented
by the foregoing field notes and date diagram on page 1 as having been executed by me on dates shown on said diagram
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.

January, 19, 1918. Ralph Gentry
U. S. Surveyor.
U.S. Cadastral Engineer.

~~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. 13, 1918.

The foregoing field notes of the ~~survey of~~ retracement and resurvey of the south boundary of Township No. 32 South, Range No. 23 East; resurvey of a portion of the Colorado Guide Meridian through Township No. 32 South, between Ranges 23 and 24 East; and the retracement, resurvey a survey of the subdivisional lines of Township No. 32 South, Range No. 23 East of the Salt Lake Base and Meridian, Utah,
executed by Ralph Gentry
under his special instructions dated July 27, 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.

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.

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Page

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Page

U. S. JUL 19 1917 SALT LAKE CITY, UTAH

BOOK A-434 A.

FIELD NOTES

RETRACEMENT AND RESURVEY
OF THE SURVEY OF THE

— EIGHTH STANDARD PARALLEL SOUTH THROUGH RANGE 2 WEST.; RESURVEY OF PORTION OF THE EAST AND SOUTH BOUNDARIES & SUBDIVISION OF T. 41 S., R. 2 W.,

— AND THE SURVEY OF THE—

— EAST AND WEST BOUNDARIES & SUBDIVISION OF T. 41 S., R. 2 W.,

Of the SALT LAKE BASE AND *Meridian,*

In the State of — UTAH —

EXECUTED BY

Jos. C. Thoma U. S. Surveyor,

Wm. R. Johnston, U. S. Transitman,

Andrew Nelson, U. S. Surveyor

In the capacity of U. S. Surveyor, under instructions dated February 1, *1916, issued by the United States Surveyor General to govern surveys included in Group No.* 43, *which were approved by the Commissioner of the General Land Office,* March 2, *1916,* and under Assignment Instructions dated Aug. 17, 1916 issued by the Asst. Supervisor of Surveys for Utah; and supplemental assignment instructions dated Oct. 27, 1916.

Survey commenced September 11, *1916*

Survey completed November 16, *1916*

6—151

A Plat F.B.B. Notes E.B.B.

B Computations E.B.B.

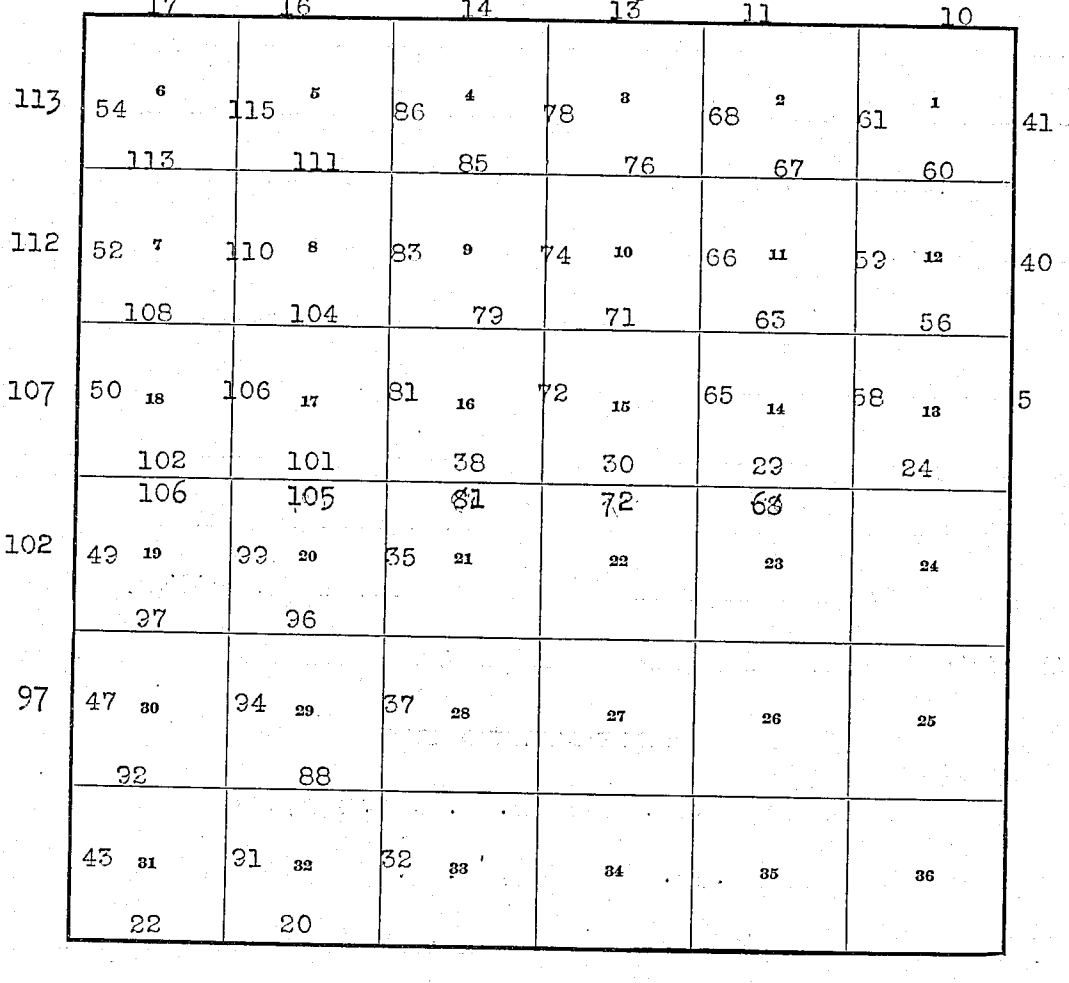
Comparing

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

BOOK A-434

INDEX DIAGRAM.

Township 41 South, *Range* 2 West,



	17	16	14	13	11	10	
113	54 6 113	115 5 111	86 4 85	78 3 76	68 2 67	61 1 60	41
112	52 7 108	110 8 104	83 9 79	74 10 71	66 11 63	59 12 56	40
107	50 18 102	106 17 101	81 16 38	72 15 30	65 14 29	58 13 24	5
102	106 49 19 97	105 99 20 96	81 35 21	72 22	68 23	24	
97	47 30 92	94 29 88	37 28	27	26	25	
	43 31 22	91 32 20	32 33	34	35	36	

Names and Ratios of Assistants

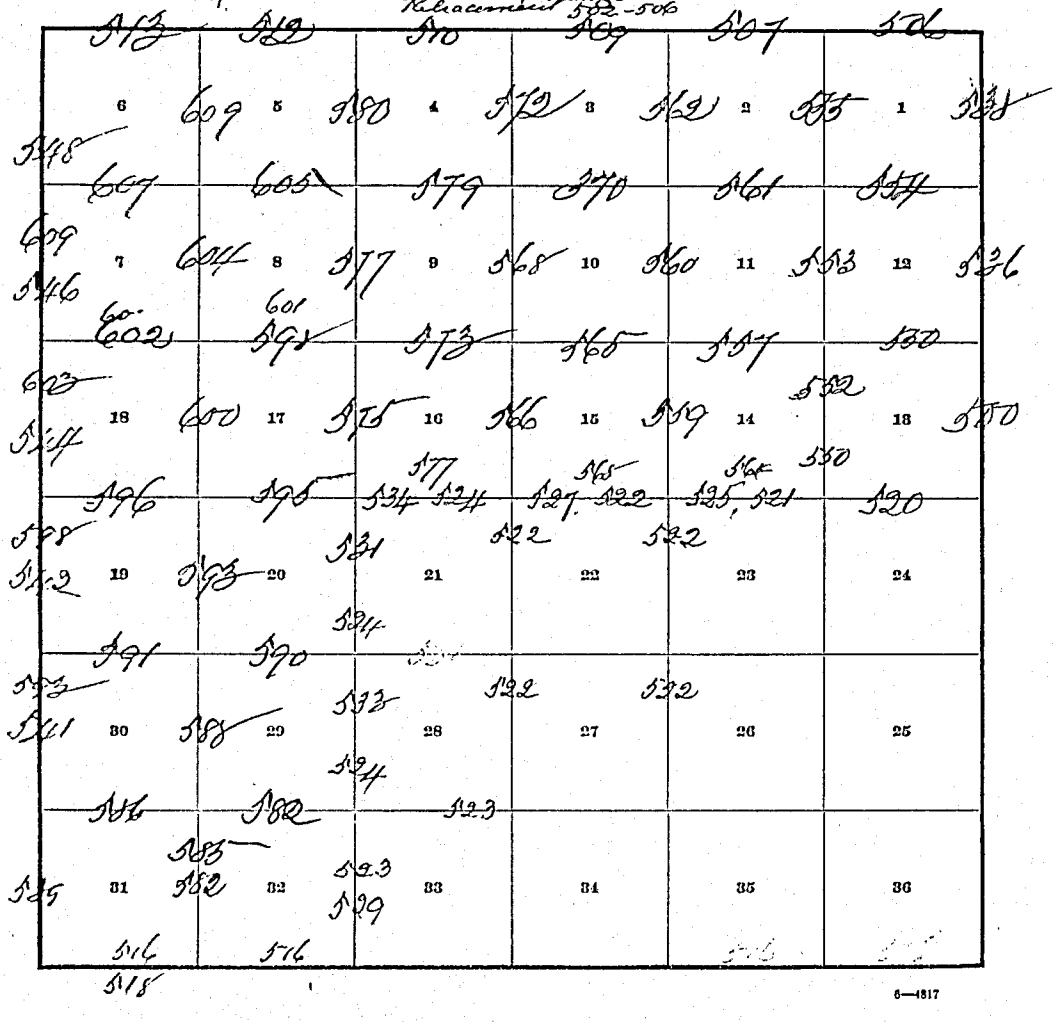
6—151

BOOK A-434

4—679 b

INDEX DIAGRAM.

Township 41 S Range 2 W



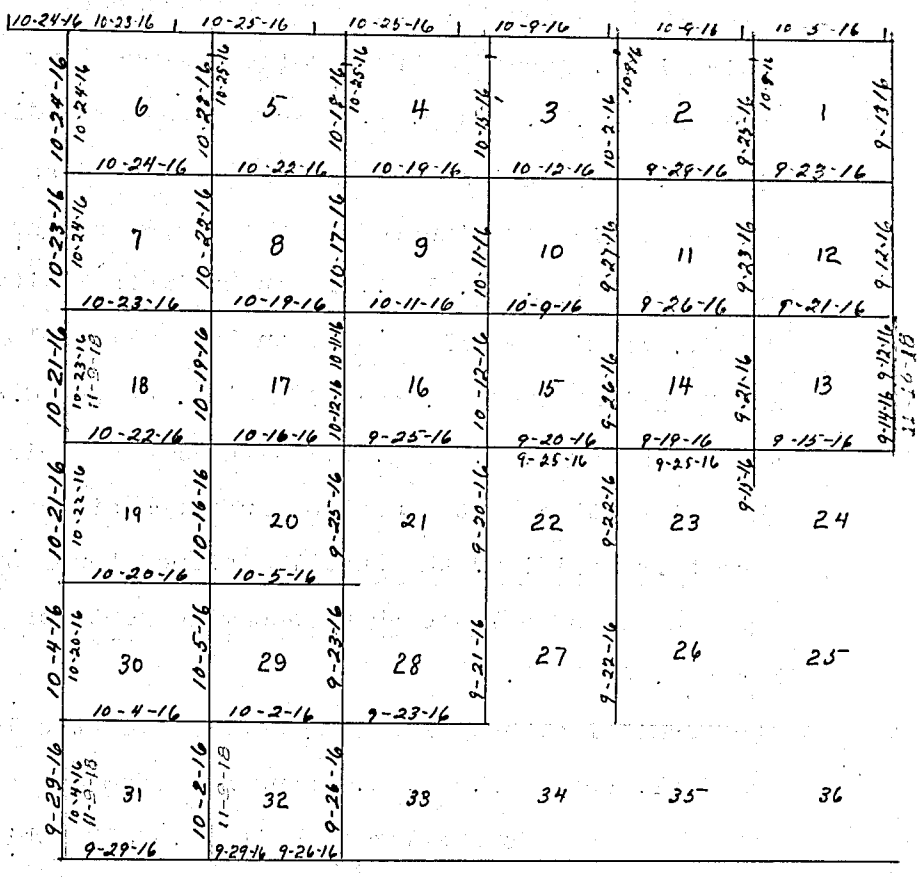
6—1817

Resurvey of the East Boundary of T. 41 S., R. 2 W.

Chains

Survey commenced

DATE DIAGRAM



——Lines along which dates are colored black were surveyed by Jos. C. Thoma, U. S. Surveyor.

——Lines along which dates are colored red, were surveyed by Wm. R. Johnston, U. S. Transitman.

——Lines along which dates are colored green, were surveyed by Andrew Nelson, U.S.Surveyor.

Survey commenced September 11, 1916, and executed with Buff and Buff solar transit No. 9218, and Young and Sons light mountain transit No. 8589, both transits equipped with Smith solar attachments. The horizontal limbs are provided with two double verniers placed opposite to each other, reading to single minutes of arcs 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 Assistant Supervisor of Surveys for Utah August 17, 1916, conditional upon satisfactory field test.

Chains

I examine the adjustments of the transit, find them correct then, to test the solar apparati, by comparing their 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 in the center of the N½ of sec. 18, T. 41 S., R. 1 W., in approximate latitude 37° 15' N., longitude 111°59' W., on Sept. 11, 1916, I set off 37°15' on the lat. arc, 4° 26' N. on the decl. arc, and at 3h 30m p. m., app. t., determine a meridian with the solar attached to Buff and Buff transit No. 9218; from this meridian, the sharply defined trunk of a cedar tree on top of a ledge about one mile north of station bears N. 0°01' W.

At the same time, and with same settings on the latitude and decl. arcs, Mr. Wm. R. Johnson determines a meridian with Young and Sons solar transit No. 8589; this meridian practically agrees with the meridian determined with the Buff and Buff transit No. 9218.

I observe Polaris in accordance with the Manual of Instructions, using the same trunk of the cedar tree about one mile dist. as reference point:

	Angle	Watch time.
Telescope direct		
Reference point	0° 00' 00"	
Star	1° 15' 00"	6h 34m 20s p.m.
Reference point	0° 00' 00"	
Star	1° 16' 00"	6h 35m 50s p.m.
Reference point	0° 000 00"	
Telescope reversed		
Reference point	0°000' 00"	
Star	1° 17' 00"	6h 37m 50s p.m.
Reference point	0° 00' 00"	
Star	1° 17' 00"	6h 39m 20s p.m.
mean	1° 16' 15"	6h 36m 50s p.m.
watch fast of l.m.t.		18 50
L.m.t. of obs.		6h 18m 00s p.m.
U.C.Pol. Sept.11, 1916,		2h 11.8 m a.m.
Correction for long.		1.2
U.C.Pol. at station		2h 10.6 m a.m.
Hour angle of Pol.		16h 07.4 m.
Time argument		7h 48.6 m.
Azimuth of Pol. at obs.		1° 16' E.
Angle E., flag to star,		1° 16' 15"
True bearing of reference		N.0° 00' 15"W.

Chains

September 12, 1916: At 8h 30m a. m., app. t., I set off 37°15' on the lat. arc; 4° 10' N. on the decl. arc, and determine a meridian with the solar attached to Buff and Buff transit No. 3218. This meridian practically falls on the trunk of the cedar tree whose bearing was found to be practically due north by the Polaris observation.

At the same time, and with the same settings on the lat. and decl. arcs, Mr. Wm. R. Johnson determines a meridian with the solar attached to Young and Sons transit No. 8589, which coincides with the meridian determined by observations on Polaris.

At apparent noon, I set off 4° 06' N. on the decl. arc and observe the sun in the meridian; the resulting lat. is 37°15'.

At the same time and with same decl. setting, Mr. Wm. R. Johnson observes the sun in the meridian, with the resulting lat. 37° 15'.

I therefore conclude that the adjustments of both instruments are satisfactory, and that the instruments continued in satisfactory adjustment throughout the survey was evidenced by frequent tests on a Polaris meridian and by daily noon observations for latitude.

Five-chain steel tapes, and clinometers for determining slope angles were used in measuring all distances, and the tapes were frequently tested by comparison with a standard one-chain tape kept for this purpose exclusively.

Resurvey of the East Bdy. of
T. 41 S., R. 2 W.

After making diligent search for the old. cor. of secs. 13, 18, 19 and 24 on the E. bdy. of Tp., find a mound of stone on bare sandstone ledge, 200 lks. S. of wash draining E., and 2.70 chs. S. of old road, which precise-

Chains	
	ly agrees with the topography returned by Bailey and Burrill, D.S. Although no marked stone could be found in the mound of stone, from the topography, the nature of the mound of stone and other indivations, the mound of stone is accepted as the old cor. of secs. 13, 18, 19 and 24.
	Re-establish the cor. as follows:
	Mark a cross (X) on solid sandstone under center of the old mound of stone, and set an iron post, 3 ft. long, 2 ins. dia., over the cross on the solid ledge of sandstone, in a mound of stone, 4 ft. base, 2 ft. high, for re-established cor. of secs. 13, 18, 19 and 24, with brass cap mkd.
	T 41 S R 2 W | R 1 W S 13 | S 18 --- S 24 | S 19 1916
	On account of natural obstructions it is impracticable to raise a mound of stone to witness cor. There are no bearing trees within limits.
	Thence,
	North, retracing, bet. secs. 13 and 18
39.54	Fall 30 lks. W. of the old ¼ sec. cor., which is a sandstone, 28 x 14 x 7 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	The true course of this line is therefore N. 0° 26'E., and the dist., 39.54 chs.
	Offset to the ¼ sec. cor., and continue N., retracing.
42.66	Fall 168 lks. W. of the old cor. of secs. 7, 12, 13 and 18, which is a sandstone, 16 x 6 x 16 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	The true course of this line is therefore N. 2° 15' E., and the dist., 42.69 chs.

Retracement and
Resurvey of the East Boundary of T.41 S.,R.2 W.

Chains	
	From the re-established cor. of secs. 13,18,19 and 24 on E. bdy. of tp.
	N. 0°26' E., resurveying, bet. secs. 13 and 18.
	Over mountainous land, desc. through scarub cedar timber and sage undergrowth.
2.00	Wash, 30 lks.wide,5ft.deep, 50ft. below cor.,drains E.
2.70	Road, from Kanab to Pahreah, bears E. and W., on sandstone spur, 65 ft. above wash, projects E. about 5 chs.: desc. gradually over N. slope, 20 ft. to
9.10	Wash, 10 lks. wide, 3 ft. deep, drains NE.:asc. S. slope.
15.80	Spur, 95ft. above wash, projects E.,about 6chs.; desc.
20.90	Draw, 70ft. below spur, drains NE.:asc. S. slope.
25.00	Spur, 20ft. above draw, projects SE. 3chs.:desc. N. slope.
26.40	Draw, 35ft. below spur, drains SE.;asc. SW. slope.
34.10	Spur, 25ft. above draw,projects SE.,about 10chs.:desc.
39.54	The old ¼ sec. cor.
	Re-establish cor. at same point for sec. 18 only as follows:
	Set an iron post, 3 ft. long, 1 in. dia.,6 ins. in ground to solid rock beside the old cor.,and 20 ins. in a mound of stone, 4ft. base, for ¼ cor of sec. 18 only, with brass cap marked
	¼ S18 1916
	raise a mound of stone, 2ft. base, 1½ft. high, E. of cor.
	Thence,
	N. 2°15' E., resurveying bet. secs. 13 and 18.
2.66	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground for ¼ cor. of sec. 13 only, with brass cap mkd.
	¼ S13 1918
	raise a mound of stone, 2ft. base, 1½ft. high, W. of cor.
	Note: This cor. was established Nov. 16, 1918.
4.10	Gulch, 20 ft. below ¼ sec. cor., drains SE.
	Asc. to top of clay ridge.

chains

14.70 Clay ridge, 220 ft. above gulch, bears N:40°W., and S. 40° E.

Descend.

27.20 Gulch, 240 ft. below ridge; drains N.70°E.

Ascend.

35.20 Ridge, 140 ft. above gulch, bears NW. and SE.; descend.

40.20 Gulch, 105 ft. below ridge, drains E.

42.69 The old cor. of secs. 7, 12, 13 and 18, 20 ft. above gulch

Re-establish the cor. as follows:

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground beside old stone, for re-established cor. of secs. 7, 12, 13 and 18, with brass cap marked

T41S
R2W | R1W
S12	S7
S13	S18
1916

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

Land, mountainous, general E. drainage from steep N. and S. slopes.

Soil, south half, light sandy loam, shallow on sandstone; N. half, barren clay on steep slopes.

Undergrouth, sage on S. half, very little on N. half.

Timber, scattered scrub cedar and pinon.

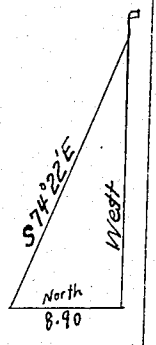
Poor grazing.

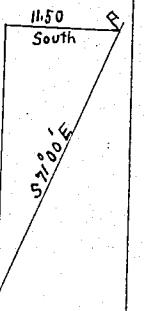
Resurvey of the Eight St. Par. through R. 2 W.

The old St. cor. of T.40 S., Rs. 1 and 2 W. is a sandstone, 5 x 8 x 18 ins. above ground, firmly set, mkd.

Chains	
	with 6 grooves on N. E. and W. faces, not witnessed.
	Re-establish the cor. at the same point as follows:
	Set an iron post, 3 ft. long, 3 ins. dia., 18 ins. in the ground to solid rock, beside the old stone, and 6 ins. in a mound of stone, 3 ft. base, for re-established St. cor. of T. 40 S., Rs. 1 and 2 W., with brass cap mkd.
	SC T 40 S R 2 W | R 1 W S 36 | S 31 1916
	from which
	A cedar, 6 ins. dia., bears N. 8° W., 50 lks. dist., mkd. T 40 S R 2 W S 36 BT.
	A pinon, 6 ins. dia., bears N. 66° E., 89 lks. dist., mkd. T 40 S R 1 W S 31 BT.
	Thence,
	West, retracing, on S. bdy. sec. 36
40.11	Fall 41 lks. S. of the old St. ¼ sec. cor., which is a sandstone, 6 x 12 x 12 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	The true course of this line is therefore N. 89°25' W., and the dist., 40.11 chs.
	Offset to ¼ sec. cor. and continue west, retr.
40.08	Fall 27 lks. N. of the St. cor. of secs. 35 and 36, which is a sandstone, 20 x 16 x 6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	The true course of this line is therefore S. 89°37' W., and the dist., 40.08 chs.
	From the St. cor. of secs. 35 and 36,
	West, retracing on S. bdy. sec. 35.
8.38	To east edge of canyon, which cannot be chained. To deter-

Chains	
	mine the dist. to bottom of canyon, proceed as follows: Set a flag at the 8.38 ch. point, then set a point on line west, in bottom of Paria canyon; there being no suitable place on top of ledge to obtain a base, proceed to point in bottom of canyon, from which lay off a base, north, 8.90 chs. dist., to a point from which the flag on top of ledges bears S. 74° 22' E. From the south end of the base, the flag on top of ledges bears east. The dist. is therefore
	base x tan 74°22' = 8.90 x 3.57357 = 31.80, which added to 8.38 makes
40.78	Triangulation point in bottom of canyon.
40.00	Point for old St. ¼ sec. cor. falls in creek bed. No trace of the old cor. can be found, after diligent search.
	West of this point rise high sandstone ledges on west side of Paria canyon, which cannot be chained. To determine the dist. to top of ledges, proceed as follows:
	Return to triangulation point at 40.78 chs., from which set a flag west on top of ledges, then measure a base, south, 11.50 chs. dist., to a point from which the flag on top of ledges bears N. 71°00' W. From the flag on top of ledge, the N. end of the base bears east, and the S. end of the base bears S. 71°00' E. The dist. is therefore
	base x tan 71°00' = 11.50 x 2.90421 = 33.40 chs., which added to 40.78 makes
74.18	Triangulation point on top of ledges.
80.00	After diligent search, no trace of the old St. cor. can be found. Set temp. point for St. cor. of secs. 34 and 35.
	Continue west, retracing.
148.38	Fall 52 lks. S. of the old St. ¼ sec. cor. on S. bdy. of sec. 34, which is a sandstone, 12 x 10 x 6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	The true course of this one and one-half miles is there-





Chains	
	fore N. 89°48' W., and the dist., 148.38 chs. The lengths of the halfmiles will therefore be 49.46 chs.
	Offset to the St. ¼ sec. cor., and continue west, retr.
39.64	Fall 21 lks. N. of the old St. cor. of secs. 33 and 34, which is a cross (X) cut in solid sandstone, mkd. and witnessed as described by the surveyor general.
	The true course of this line is therefore S. 89°42' W., and the dist., 39.64 chs.

	From the St. cor. of secs. 33 and 34,
	West, retr. on S. bdy. of sec. 33.
40.14	Fall 4 lks. S. of the old St. ¼ sec. cor., which is a sandstone, 6 x 8 x 10 ins. above ground, mkd. and witnessed as described by the surveyor general.
	The true course of this line is therefore N. 89°57' W., and the dist., 40.14 chs.
	Offset to the ¼ sec. cor. and continue west, retr.
40.11	Fall 1 lk. N. of the old St. cor. of secs. 32 and 33, which is a sandstone, 6 x 12 x 6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	The true course of this line is therefore S. 89°59' W., and the dist., 40.11 chs.

	From the old cor. of secs. 32 and 33,
	West, retr., on S. bdy. sec. 32.
40.57	Fall 2 lks. S. of the old St. ¼ sec. cor., which is a sandstone, 5 x 12 x 16 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	The true course of this line is therefore N. 89°58' W., and the dist., 40.57 chs.
	Offset to ¼ sec. cor. and continue west, retr.
39.38	Fall 7 lks. S. of the old St. cor. of secs. 31 and 32,

Chains

which is a sandstone, 5x 10 x 8 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

The true course of this line is therefore N. 89°54' W., and the dist., 39.38 chs.

From the old St. cor. of secs. 31 and 32,

West, retracing on S. bdy. sec. 31.

40.23 Fall 7 lks. S. of the old St. ¼ sec. cor., which is a cedar post, 3 ins. square, firmly set and extending 18 ins. above ground, mkd. and witnessed as described by the surveyor general.

The true course of this line is therefore N. 89°54' W., and the dist., 40.23 chs.

Offset to the ¼ sec. cor., and continue west, retr.

40.00 Intersect the old St. cor. of Ts 40 S., Rs. 2 and 3 W., which is a sandstone, 36 x 8 x 6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

The true course of this line is therefore west, and the dist., 40.00 chs.

From the re-established St. cor. of T. 40 S., Rs. 1 and 2 W., heretofore described,

N. 89°25' W., retracing on S. bdy. sec. 36.

Over rough and broken mountainous land, desc. gradually through dense pinon and cedar timber and sage and deer brush.

8.80 Desc. abruptly over broken sandstone ledges, bear NE. and SW.

28.10 Ravine, 550 ft. below the St. Tp. cor., drains SW.

Asc. abruptly over broken sandstone ledges.

39.50 Top of broken ledges, bear N. 20° E. and S. 20° W.,

Chains	
	Asc. gradually to top of ridge.
40.11	The old St. ¼ sec. cor., on top of ridge, 600 ft. above ravine, bears N. 20° E. and S. 20° W.
	Cor. is well set; accept the old bearing trees.
	Impracticable to re-establish this cor. with iron post.
	Thence,
	S. 89°37' W., retracing on S. bdy. sec. 36.
	Desc. abruptly over broken sandstone ledges.
29.60	Ravine, 450 ft. below the St. ¼ sec. cor., drains S.60° W.
	Asc. over broken ledges facing SE.
37.00	Spur, 220 ft. above ravine, projects S.
	Desc.
39.28	The closing cor. of secs. 1 and 2 is later set at this point.
40.08	The old St. cor. of secs. 35 and 36. Cor. is well set, leave cor. mkd. and witnessed as described by the surveyor general.
	Impracticable to re-establish this cor. with iron post.
	Land, rough and brokem mountainous, steep slopes from broken sandstone ledges, general SW. drainage.
	Soil, sandy and rocky loam, and broken sandstone boulders on sandstone ledges.
	Undergrowth, sage and deer brush., poor grazing grasses.
	Timber, pinon and cedar.

	N. 89°48' W., resurveying on S. bdy. sec. 35.
	Over rough and broken mountainous land, sandstone formation, desc. through pinon and cedar timber and sage and deer brush undergrowth.
8.98	Triangulation point on top of ledges, bear N. and S.
	Desc. abruptly over broken sandstone ledges, to Paria River.
16.50	Foot of ledges, bear NW. and SE, 1100 ft. below the St. sec. cor., bears NW. and SE.
	Thence over bottom of Paria canyon.

Chains	
41.10	Paria River, 25 lks. wide, 14 ins. deep, course S. 20° E. alkaline water, 20 ft. below foot of ledges, thence over flood bottoms.
45.20	Asc. over clay bank 15 ft. high, bears NW. and SE.
49.46	True point for restored St. ¼ sec. cor. falls on unsafe land, therefore at
51.46,	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for W. C. to St. ¼ sec. cor., with brass cap mkd.

$$\frac{S\ \frac{1}{4}\ C}{S\ 35} \qquad W\ C$$

1916

dig pits, 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.

No trace of the old St. ¼ sec. cor. can be found.

No suitable bearing trees within limits.

Asc. to foot of ledges on west side of canyon.

67.00	Foot of ledges, bear NW. and SE. Asc. abruptly over ledges.
74.18	Triangulation point on ledges, bear NW. and SE., 300 ft. above the witness cor.
	Asc. to ridge.
75.50	Ridge, 1000 ft. above the witness cor., bears N. 20° E. and S. 20° W.
	Desc.
79.00	The closing cor. of secs. 2 and 3 is later set at this point.
84.40	Desc. abruptly over broken sandstone ledges, bear N. and S.
96.30	Ravine, 200 ft. below ridge, drains N. 30° E.
	Asc. abruptly over sandstone ledges.
99.32	Proportionate measurement.

On SE. slope of ledges, 30 ft. above ravine,

Set an iron post, 3 ft. long, 3 ins. dia., 20 ins. in the ground, to solid rock, and 4 ins. in a mound of stone,

Chains

3 ft. base, for restored St. cor. of secs. 34 and 35, with brass cap mkd.

S C
T 40 S R 2 W

S 34 | S 35

1916

from which

A pinon, 8 ins. dia., bears N. 53° E., 30 lks. dist., mkd. T 40 S R 2 W S 35 BT.

A cedar, 12 ins. dia., bears N. 25° W., 82 lks. dist., mkd. T 40 S R 2 W S 34 BT.

Land, very rough and broken mountainous, steep E. and W. slopes of sandstone ledges, E. half drains E, and W. half drains N.

Soil, rocky and sandy loam, coarse, shallow on sandstone ledges and mixed with broken sandstone boulders.

Undergrowth, sage and deer brush, with scant grass for grazing.

Timber, pinon and cedar.

N. 89°48' W., retracing on S. bdy. sec. 34.

Over rough and mountainous land, asc. abruptly over broken sandstone ledges, through cedar and pinon timber and sa sage and deer brush undergrowth.

5.00 Spur, 100 ft. above the cor., projects NE.

Desc.

8.30 DRaw, 30 ft. below the spur, drains NE.

Asc.

13.00 Spur, 35 ft. above draw, projects NE., about 5 chs.

Desc.

17.00 Draw, 35 ft. below spur, drains N. 60° E.

Asc.

29.00 Ridge, 80 ft. above draw, bears N. and S.

Desc.

Chains	
37.30	Desc. abruptly over broken sandstone ledges, bear NW. and SE.
38.30	Foot of ledges, bear NW. and SE., desc. gradually to draw.
47.50	Draw, 160 ft. below ridge, drains SW. Asc.
49.46	The old St. ¼ sec. cor., 20 ft. above draw, on SE. slope. Cor. is well established, leave it mkd. and witnessed as described by the surveyor general. Impracticable to re-establish cor. with iron post. Thence, S. 89°42' W., retracing , on S. bdy. sec. 34.
10.30	Spur, 70 ft. above the ¼ sec. cor., projects SW., about 4 chs. Desc. over sandstone ledges.
10.56	The closing cor. of secs. 3 and 4 is later set at this point.
18.40	Ravine, 320 ft. below spur, drains N. 20° W. Asc. over sandstone ledges.
28.50	Spur, 210 ft. above ravine, projects NE. about 5 chs. Desc. over broken sandstone ledges
39.64	The old St. cor. of secs. 33 and 34, 320 ft. below spur. The cor. is well established, leave same mkd. and witnessed as described by the surveyor general. Impracticable to re-establish this cor. with iron post. Land, very rough and broken mountainous, steep E. and W. slopes of broken sandstone ledges, general N. drainage. Soil, rocky and sandy loam, broken sandstone slide rock, on sandstone ledges. Undergrowth, sage deer brush and cactus, scant grass for grazing. Timber, pinon and juniper.

N. 89°57' W., retracing on S. bdy. sec. 33.

Over rough and broken mountainous land, desc. over sand-

Chains	
	stone ledges through pinon and cedar timber and sage and deer brush undergrowth.
3.00	Ravine, 70 ft. below the cor. drains N. 70° E. Small spring branch in bottom, 7 lks. wide, 2 ins. deep, clear water, course N. 70° E.
	Asc. over sandstone ledges.
6.20	Spur, 60 ft. above ravine, projects S. about 2 chs. Desc.
7.60	Same stream, in ravine, 55 ft. below spur, course SE. Asc.
10.30	Spur, 60 ft. above ravine, projects N. about 1 ch. Desc.
13.00	Same stream, in ravine 50 ft. below spur, course NE. Asc. over sandstone ledges, bear N. and S.
20.00	Spur, 160 ft. above ravine, projects SE. about 5 chs. Desc.
32.00	Ravine, 185 ft. below spur, SE. Asc. abruptly over sandstone ledges.
37.70	Top of abrupt asc. over ledges, bear N. 30° W. and S.30°E., asc. gradually.
40.14	The old St. ¼ sec. cor., 200 ft. above ravine. The cor. is well established; leave same mkd. and witnessed as described by the surveyor general. Impracticable to re-establish this cor. with iron post. Thence, S. 89°59' W., resurveying, on S. bdy. sec. 33.
11.09	The closing cor. of secs. 4 and 5 is later set at this point.
12.50	Spur, 30 ft. above the St. ¼ sec. cor., projects S., about 6 chs., desc.
17.50	Gully, 30 ft. below spur, drains S. 40° E., Asc.
20.50	Spur, 30 ft. above gulley, projects SE, about 5 chs. Desc.
29.40	Gulch, 20 ft. below spur, drains S. 60° E, Asc.
32.00	Spur, 100 ft. above gulch, projects N. 2 chs. dist.

Chains	
	desc.
35.30	Draw, 10 ft. below spur, drains NE.
	Asc.
40.11	The old St. cor. of secs. 32 and 33, 110 ft. above draw.
	Re-establish the cor. at same point as follows:
	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground beside the old stone, for re-established St. cor. of secs. 32 and 33, with brass cap mkd.

S | C
T 40S | R 2 W
S 32 | S 33

1916

The old bearing trees are well mkd. Leave corc witnessed as described by the surveyor general.

Land, rough and broken mountainous, general N. drainage from steep slopes of broken sandstone ledges.

Soil, sandy and rocky, mixed with broken boulders and slide rock.

Undergrowth, sagebrush, deer brush and cactus, with poor grazing grasses.

Timber, cedar and pinon.

N. 89°58' W., retracing on S. bdy. sec. 32.

Over rough and broken mountainous land, asc. through cedar and pinon timber, sage and deer brush and cactus.

9.30	Ridge, 110 ft. above the St. cor., bears NE. and SW.
	Desc.
19.25	Ravine, 180 ft. below ridge, drains NE.
	Asc.
23.50	Spur, 130 ft. above ravine, projects N., 6 chs.
	Desc.
32.30	Ravine, 180 ft. below spur, drains N. 20° E.
	Asc.
40.57	The old St. ¼ sec. cor., on SE. slope 20 ft. above bottom

Chains

of ravine.

The old cor. is well established; leave same mkd. and witnessed as described by the surveyor general.

Impracticable to re-establish this cor. with iron post.

Thence,

N. 89°54' W., resurveying, on S. bdy. sec. 32.

4.00 Spur, 110 ft. above the St: ¼ sec. cor:, projects N., about 10 chs. Desc.

10.54 The closing cor. of secs. 5 and 6 later set at this point.

11.30 Draw, 50 ft. below the spur, drains N.

Asc.

25.20 Ridge, 170 ft. above draw, bears NE. and SW.

Desc.

39.38 The old St. cor. of secs. 31 and 32, 150 ft. below ridge.

Re-establish the cor. at same point as follows:

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground beside the old stone, for re-established St. cor. of secs. 31 and 32, with brass cap mkd.

S C
T 40 S R 2 W

S 31 | S 32

1916

Accept old bearing trees, as described by the surveyor general.

Land, rough and broken mountainous, general N. slope and drainage, from steep slopes.

Soil, sand and sandstone sliderock, on sandstone ledges.

Undergrowth, sage, deer brush, and cactus, scanty growth of grazing grasses.

Timber, scrub cedar and pinon.

N. 89°54' W., resurveying on S. bdy. sec. 31.

Over rough and broken mountainous land, desc. through scrub pinon and cedar timber, and sage and deer brush and cactus.

Chains

9.00 Ravine, 150 ft. below the St. sec. cor., drains N. 10° E.,
Asc.

11.50 Spur, 70 ft. above ravine, projects N.,
Desc.

17.50 Gulch, 60 ft. below spur, drains N. 20° E.
Asc.

40.37 The old St. ¼ sec. cor., 120 ft. above gulch.
Re-establish the cor. at same point as follows:
Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground beside the old stake, for re-established St. ¼ sec. cor. on S. bdy. sec. 31, with brass cap mkd.

S C
¼ S 31
1216

dig pits, 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.
Thence,
West, resurveying, on S. bdy. sec. 31.

4.40 Ridge, 60 ft. above the St. ¼ sec. cor., bears N. 30° E. and S. 30° W.
Desc.

5.71 The closing cor. of T. 41 S., Rs. 2 and 3 W. is later set at this point.

40.00 The old St. cor. of Ts. 40 S., Rs. 2 and 3 W., 400 ft. below ridge.
Re-establish the cor. at same point as follows:
Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground beside the old stone, for re-established cor. of T. 40 S., Rs. 2 and 3 W., with brass cap mkd.

S C
T 40 S
R 3 WR 2 W
S 36 | S 31
1216

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

Resurvey of the 8th. St. Par. S., through R. 2 W.

Chains

cor.

No bearing trees within limits.

Land, rough and broken mountainous, general N. and NW. drainage from steep slopes of sandstone ledges.

Soil, rocky and sandy, mith sandstone slide rock and broken boulders, on sandstone ledges.

Undergrowth, sage, deer brush and cactus, with scanty grasses for grazing.

Timber, pinon and cedar.

Resurvey of Portion of South Bdy. of T. 41 S., R. 2 W.

The old cor. of secs. 4, 5, 32 and 33 on the S. bdy. of Tp. is a cedar post, 4 ins. square, firmly set and extending 12 ins. above ground, mkd. as described by the surveyor general, with dim trace of old mound of earth.

Re-establish the cor at same point as follows:

Set an iron post, 3 ft. long 2 ins. dia., 24 ins. in the ground, for re-established cor. of secs. 4, 5, 32 and 33, with brass cap mkd.

T 41 S R 2 W

S 32	S 33
S 5	S 4

T 42 S
1916

from which

A cedar, 10 ins. dia., bears S. 25° E., 149 lks. dist., mkd. T 42 S R 2 W S 4 BT.

A cedar, 24 ins. dia., bears S. 79° W., 52 lks. dist., mkd. T 42 S R 2 W S 5 BT.

A cedar, 12 ins. dia., bears N. 40° W., 85 lks. dist., mkd. T 41 S R 2 W S 32 BT.

No bearing tree available in sec. 33.

Retracement of Portion of S. Bdy. of T. 41 S., R. 2 W.

Chains	
	Dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist.,
	Thence,
	S. 89°53' W., record course, retracing, bet. secs. 5 and 32.
39.38	Fall 90 lks. N. of the old ¼ sec. cor., which is a sandstone, 10 x 3 x 6 ins. above ground, mkd. and witnessed as described by the surveyor general, and firmly set.
	The true course of this line is therefore S. 88°36' W., and the dist., 39.99 chs.
	Offset to the ¼ sec. cor. and continue S. 89°53' W., retr.
39.61	Fall 53 lks. S. of the old cor. of secs. 5, 6, 31 and 32, which is a cedar post, 4 x 4 x 36 ins. above ground firmly set, and mkd. and witnessed as described by the surveyor general.
	The true course of this line is therefore N. 89°21' W., and the dist., 39.61 chs.
	S. 89°53' W., retracing bet. secs. 6 and 31.
39.77	Fall 27 lks. S. of the old ¼ sec. cor., which is a sandstone, 10 x 6 x 6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	The true course of this line is therefore N. 89°44' W., and the dist., 39.77 chs.
	Offset to the ¼ sec. cor. and continue S. 89°53' W., retr.
39.63	Fall 47 lks. S. of the old cor. of Ts. 41 and 42 S., Rs. 2 and 3 W., which is a sandstone, 12 x 10 x 12 ins. above ground, firmly set, and mkd. and witnessed as described by the surveuor general.
	The true course of this line is therefore N. 89°30' W., and the dist., 39.63 chs.
	From the re-established cor. of secs. 4, 5, 32 and 33, heretofore described,
	S. 88°36' W., resurveying, bet. secs. 5 and 32.

Resurvey of portion of the S. bdy. of T. 41 S., R. 2 W.

Chains	
	Over rolling land, through scattered cedar and pinon timber and dense sage undergrowth.
33.70	Wash, 60 lks. wide, 9 ft. deep, drains SE.
39.99	The old ¼ sec. cor.
	Re-establish the cor. at same point as follows:
	Set an iron post, 3 ft. long, 1 in dia., 26 ins. in the ground beside the old stone, for re established ¼ sec. cor., with brass cap mkd.

S 32
¼
S 5
1916

from which

A cedar, 30 ins. dia., bears S. 11°30' E., 125 lks. dist., mkd. ¼ S 5 BT.

No other suitable bearing trees within limits in sec. 32.

Dig pits, 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.

Thence,

N. 89°21' W., resurveying bnt. secs. 5 and 32.

39.61 The old cor. of secs. 5, 6, 31 and 32, 90 ft. above the ¼ sec. cor.

Re-establish the cor. at same point as follows:

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground beside the old post, for re-established cor. of secs. 5, 6, 31 and 32, with brass cap mkd.

T 41 S R 2 W
S 31 | S 32
S 6 | S 5
T 42 S
1916

from which

A cedar, 24 ins. dia., bears S. 85°30' E., 212 lks. dist., mkd. T 42 S R 2 W S 5 BT.

A cedar, 6 ins. dia., bears S. 4° W., 371 lks. dist., mkd. T 42 S R 2 W S 6 BT

No other bearing trees available.

Dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist.,

Resurvey of Portion of the S. bdy. of T. 41 S., R. 2 W.

Chains	
	Land. rolling, general SE. slope and drainage
	Soil, red sandy loam, dry, coarse, 2 ft. or more deep.
	Undergrowth, dense sage, scattered Brigham tea, and fair grazing.
	Timber, scattered cedar and pinon.

	N. 89°44' W., resurveying, bet. secs. 31 and 6.
	Over rolling land, asc. through dense sage, scattered Brigham tea and yellow top.
2.40	Spur, 15 ft. above the cor., projects N. about 10 chs. Desc. gradually over W. slope.
23.90	Wash, 10 lks. wide, 3 ft. deep, 60 ft. below spur, drains S. Asc. gradually over E. slope.
36.30	Spur, 20 ft. above the wash, projects SE. Desc. gradually over W. slope.
39.77	The old ¼ sec. cor., 20 ft. below spur.
	Re-establish the cor. at same point as follows:
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground beside the old stone, for re-established ¼ sec. cor. with brass cap mkd.
	S 31 ¼ S 6 1916
	from which
	A cedar, 8 ins. dia., bears S. 59° E., 37 lks. dist., mkd. ¼ S 6 BT.
	No suitable bearing tree within limits in sec. 31.
	Dig pits, 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.
	Thence,
	N. 89°30' W., resurveying bet. secs. 6 and 31.
4.00	Wash, 10 lks. wide, 3 ft. deep, 15 ft. below the ¼ sec. cor., drains SE.
	Asc. gradually over E. slope.

Resurvey of portion of the S. bdy. of T. 41 S., R. 2 W.

Chains	
9.60	Spur, 25 ft. above the wash, projects S.
	Desc. gradually over W. slope.
15.70	Draw, 25 ft. below spur, drains S.
	Asc. gradually over E. slope.
34.00	Ridge, 55 ft. above the draw, bears NW. and SE.
	Desc. gradually over SW. slope.
39.65	The old cor. of Ts. 41 and 42 S., Rs. 2 and 3 W., 20 ft. below the ridge.

Re-establish the cor. at same point as follows:

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for re-established cor. of Ts. 41 and 42 S., Rs. 2 and 3 W., with old stone beside the post, with brass cap mkd.

T 41 S
R 3 W | R 2 W
S 36 | S 31

S 1 | S 6
T 42 S
1916

from which

A pinon, 16 ins dia., bears N. 11° E., 229 lks. dist., mkd. T 41 S R 2 W S 31 BT.

A cedar, 20 ins. dia., bears S. 79° E., 99 lks. dist., mkd. T 42 S R 2 W S 6 BT.

A cedar, 18 ins. dia., bears S. 57° W., 221 lks. dist., mkd. T 42 S R 3 W S 1 BT.

A cedar, 8 ins. dia., bears N. 59° W., 36 lks. dist., mkd. T 41 S R 3 W S 36 BT.

Land, rolling and rolling mountainous, general S. drainage from E. and W. slopes.

Soil, sandy loam, dry, coarse, 2 ft. or more deep.

Undergrowth, sagebrush, yellow top, Brigham tea, and fair grasses for grazing.

Timber, scattered pinon and cedar.

Chains

From the re-established cor. of secs. 13, 18, 19 and 24, on E. bdy. of Tp., heretofore described,

S. 89°53' W., retracing, bet. secs. 13 and 24.

40.00 After diligent search, no trace of the old ¼ sec. cor. can be found.

79.83 Intersect N. and S. line 4.07 chs. S. of the true point for cor. of secs. 13, 14, 23 and 24, or, 93 lks. north of the old witness cor. to the cor. of secs. 13, 14, 23 and 24, established 5.00 chs. S. of the true point for cor., which is a gypsum stone, 16 x 10 x 4 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

At a point 5.00 chs. N. of the W.C., record dist.,

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

T 41 S R 2 W
S 14 | S 13
S 23 | S 24
1916

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

Thence,

S. 87°12' E., resurveying, bet. secs. 13 and 24.

Over rough and broken mountainous land, through scattered pinon and cedar timber, sage brush, yellow top and bunch grass, desc.

38.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for witness cor. to the restored ¼ sec. cor., with brass cap mkd.

¼ S 13 / S 24 — WC
1916

from which

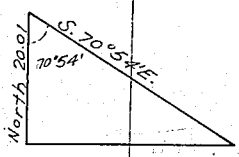
A pinon, 10 ins. dia., bears S. 72°36' W., 228 lks. dist., mkd. WC ¼ S 24 BT.

Resurvey of Subdivisions in T. 41 S., R. 2 W.

Chains	
	A cedar, 8 ins. dia., bears N. 51° W., 168 lks. dist., mkd WC ¼ S 13 BT.
39.00	Asc. over sandstone ledges, bear N. and SE.
39.96½	Point for the re-stored ¼ sec. cor. falls on face of sandstone cliff, where it cannot be set.
42.00	Top of sandstone spur, 200 ft. above the WC. ¼ sec. cor., projects S.
	Desc. over sandstone ledges.
50.00	Foot of desc. over ledges, bear N. and S., thence desc. gradually.
56.00	Road, from Kanab to Pahreah, bears NE. and SW.
56.20	Wash, 40 lks. wide, 5 ft. deep, drains NE., 210 ft. below top of spur. Asc.
61.00	Asc. over sandstone ledges, bear N. 70° E. and S.
63.00	Top of asc., 100 ft. above wash, bears N. 70° E. and S., thence along top of ledges, paralleling same.
79.93	The re-established cor. of secs. 13, 18, 19 and 24, on level with top of asc.
	Land, mountainous, general E. drainage from E. and W. slopes of ledges.
	Soil, sand, clay, silt hills and gypsum beds, and sandstone outcroppings.
	Undergrowth, scattered sagebrush, yellow top, and bunch grass, good grazing.
	Timber, scattered cedar and pinon.

	From the established cor. of secs. 13, 14, 23 and 24,
	West, record course, retracing bet. secs. 14 and 23.
1.13	To east side of canyon which cannot be chained. To determine dist. to point on west side of canyon, proceed as follows: Set a flag for triangulation at the 1.13 ch. point, and there being no suitable place for a base at this point, set a point on line west across canyon, from which lay off a base, north, 20.01 chs. dist., to a point from which the flag on E. side of canyon bears

Resurvey of Subdivisions in T. 41 S., R. 2 W.

Chains	
	 S. 70° 54' E. From the S. end of base the flag on E. side of canyon bears east. The dist. is therefore base x tan 70°54' = 20.01 x 2.88783 = 57.79 chs., which added to 1.13 makes 58.92 chs.
	Measure back east 18.92 chs. to
40.00	Diligent search fails to reveal any trace of the old ¼ sec. cor. Set temp. point for the cor. (Record dist.)
80.00	Record dist. Set temp. point for the cor. of secs. 14, 15, 22 and 23.
	No trace of the old cor. found, after diligent search.
	From the temp. point for the cor. of secs. 14, 15, 22 and 23,
	South, record course, retracing bet. secs. 22 and 23.
	At 40.00 chs. find no trace of the old ¼ sec. cor., continue line south, finding no old corners until at
159.44	Fall 3.36 chs. W. of the old cor. of secs. 26, 27, 34 and 35, which is a sandstone, 15 x 4 x 12 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	From the temp. point for the cor. of secs. 14, 15, 22 and 23,
	S. 89°53' W., record course, retracing bet. secs. 15 and 22.
39.90	Record dist. Diligent search fails to reveal any trace of the old ¼ sec. cor. Set temp. point for the ¼ sec. cor.
79.80	Record dist. No trace of the old cor. of secs. 15, 16, 21 and 22 can be found. Set temp. point for the cor.
	From the temp. cor. of secs. 15, 16, 21 and 22,
	South, record course, retracing bet. secs. 21 and 22.
	At 40.00 chs. no trace of the old ¼ sec. cor. can be found.

Chains	
	Continue the line south, finding no old cors., until at
159.68	Fall 2.59 chs. W. of the old cor. of secs. 27, 28, 33 and 34, which is a cedar stake, 4 x 4 x 24 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	From the cor. of secs. 27, 28, 33 and 34, just described,
	West, record course, retracing bet. secs. 28 and 33.
40.17	Fall 21 lks. N. of the old ¼ sec. cor., which is a cedar stake, 4 x 4 x 18 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	The true course of this line is therefore S. 89°42' W., and the dist., 40.17 chs.
	Offset to the ¼ sec. cor. and continue west.
20.21	Fall 26 lks. N. of the old witness cor. to the cor. of secs. 28, 29, 32 and 33, which is a gypsum stone, broken and badly disintegrated, originally about 16 x 10 x 4 ins., marks not legible, in an old mound of stone.
	The true course of this line is therefore S. 89°15' W., and the dist., 20.21 chs.
	Offset to the old witness cor., thence,
	West on random line, bet. secs. 28 and 33.
20.00	Record dist., set temp. point for the cor. of secs. 28, 29, 32 and 33.
	From the cor. of secs. 4, 5, 32 and 33, on S. bdy. of Tp. heretofore described,
	North, retracing bet. secs. 32 and 33.
39.90	Fall 2.98 chs. E. of the true point for the ¼ sec. cor., which point is 65 lks. N. 75° W. of old cedar bearing tree 8 ins. dia. mkd. ¼ S BT. No trace of the sandstone set for the cor. can be found.
	The true course of this line is therefore N. 4° 16' W., and the dist., 40.01 chs.
	Offset to the true point for ¼ sec. cor., thence,

Chains	
	North, on random line, bet. secs. 32 and 33.
39.37	Fall 79 lks. W of the temp. point for the cor. of secs. 28, 29, 32 and 33.
	From the temp. point for the cor. of secs. 28, 29, 32 and 33,
	North, record course, retracing bet. secs.28 and 29.
	At 40.00 chs. no trace of the old ¼ sec. cor. can be found. Continue north, finding no old corners, setting temp. points for ¼ sec. and sec. cors. at intervals of 40.00 chs.
160.00	Record dist. No trace of the old cor. of secs. 16, 17, 20 and 21 can be found. Set temp. point for the cor.
	From the temp. point for the cor. of secs. 16, 17, 20 and 21,
	N. 89°53' E., record course, retracing bet. secs. 16 and 21.
40.08	Record dist. No trace of the old ¼ sec. cor. can be found. Set temp. point for the ¼ sec. cor.
77.53	Fall 6 lks. N. of the temp. point for the cor. of secs. 15, 16, 21 and 22.
	The cor. of secs. 14, 15, 22 and 23 will be restored by distributing the difference in latitude and departure existing between the record traverse of the lines bet. secs. 14 and 23, 22 and 23, and 26 and 27 and the true position of the old cors. of secs. 13, 14, 23 and 24, and 26, 27, 34 and 35.
	This proportionment places the point for restored cor. of secs. 14, 15, 22 and 23 at 1.12 chs. E. and 0.19 chs. N. of the temp. point for the cor. At this point,

Resurvey of subdivisions in T. 41 S., R. 2 W.

Chains	
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the restored cor. of secs. 22 and 23 (knowing that and extra corner will be necessary for secs. 14 and 15) with brass cap mkd.
	T 41 S R 2 W S 22 | S 23 1916
	from which
	A cedar, 8 ins. dia., bears S. 9°50' E., 114 lks. dist., mkd. T 41 S R 2 W S 23 BT.
	A cedar, 10 ins. dia., bears S.10°50' W., 90 lks. dist., mkd. T 41 S R 2 W S 22 BT.
	Thence,
	S. 89°52' E., on resurvey line on N. bdy. sec. 23.
	Over rough and broken mountainous land, desc. abruptly over NE. slope of clay and gypsum hills through scattered cedar and pinon timber and sagebrush, brigham tea and yellow top undergrowth.
8.00	Ravine, 160 ft. below the cor., drains SE. Asc.
20.00	Ridge, 35 ft. above ravine, bears NW. and SE. Desc.
21.09	Triangulation point.
28.00	Draw, 60 ft. below ridge, drains SE. Asc.
37.90	Ridge, 40 ft. above draw, bears NW. and SE. Desc.
38.98	The ¼ sec. cor. for sec. 14 is later set at this point.
39.44	Proportionate measurement.
	On NE. slope, 40 ft. below ridge,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for restored ¼ sec. cor. on N. bdy. sec. 23, with brass cap mkd.
	¼ S 23 1916
	dig pits, 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.

Resurvey of Subdivisions in T. 41 S., R. 2 W.

Chains

Thence across canyon which could not be chained.

70.00 (Approximately) Bottom of canyon, drains S. 20° W.

77.75 Triangulation point on E. side of canyon.

78.88 The cor. of secs. 13, 14, 23 and 24.

Land, mountainous, steep slopes from clay and gupsum hills, and sandstone ledges, general S. and SE. drainage.

Soil, sand, clay and gypsum ledges.

Undergrowth, sagebrush, brigham tea and yellow top, scanty grazing.

Timber, scattered cedar and pinon.

The cor. of secs. 15, 16, 21 and 22 will be restored by proportionment of courses and distances between the old cor. of secs. 27, 28, 33 and 34 and the restored cor. of secs. 22 and 23.

This proportionment places the point for the restored cor. at 161 lks. E. and 23 lks. N. of the temp. point for the cor.

As this point falls in bottom of wash where the cor. cannot be permanently set, measure 1.00 chs. N. 89°55' E. and

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

T 41 S R 2 W

WC

S 21 | S 22

1916

from which

A cedar, 14 ins. dia., bears S. 63° E., 1.48 chs. dist., mkd. WC T 41 S R 2 W S 22 BT.

A cedar, 10 ins. dia., bears S. 71°35'W., 2.47 chs dist., mkd. WC T 41 S R 2 W S 21 BT.

Thence, from true point for restored cor. of secs. 21 and

Chains	
	and 22,
	N. 89°55' E., resurveying, on N. bdy. of sec. 22.
	Over rolling and broken clay hills, through scattered cedar and pinon timber, sagebrush, brigham tea and yellow top undergrowth.
0.05	Bottom of wash, 10 lks. wide, 4 ft. deep, drains SE.
1.00	The witness cor. to cor. of secs. 21 and 22.
2.30	Draw, 20 ft. below the witness cor., drains SE.
	Asc. gradually over W. slope.
12.30	Ridge, 45 ft. above draw, bears NW. and SE.
	Desc. gradually over E. slope.
20.40	Draw, 65 ft. below ridge, drains SE. Asc.
23.30	Abrupt asc. bears N. and S.
28.50	Ridge, 75 ft. above draw, bears N. and S.
	Desc. abruptly over E. slope.
33.30	Ravine, 60 ft. below ridge, drains SE.
	Asc. abruptly over W. slope.
34.20	Spur, 25 ft. above ravine, projects S. about 2 chs.
	Desc. abruptly over E. slope.
36.50	Ravine, 30 ft. below spur, drains S.
	Asc. abruptly over W. slope.
38.43	The ¼ sec. cor. for sec. 15 later set at this point.
38.50	Spur, 65 ft. above ravine, projects S., about 15 chs.
	Desc. abruptly over E. slope.
39.65½	Proportional measurement.
	On E. slope, 10 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for restored ¼ sec. cor. Sec. 22, brass cap mkd.

¼
S 22
1916

from which

A pinon, 10 ins. dia., bears S. 17°5' E., 87 lks. dist., mkd. ¼ S 22 BT.

A pinon, 12 ins. dia., bears S. 33°30' W., 190 lks. dist., mkd. ¼ S 22 BT.

Chains	
42.30	Ravine, 65 ft. below the ¼ sec. cor., drains SE. Asc. abruptly over W. slope.
42.50	West rim of bench, bears N. and S., 80 ft. above ravine, Desc. gradually over bench land.
66.30	Draw, 45 ft. below west rim of bench, drains SE. Asc. gradually.
66.70	Spur, 5 ft. above draw, projects SE. Desc. gradually.
72.31	The restored cor. of secs. 22 and 23, 50 ft. below spur. Land, rolling and broken bench land and clay hills, general S. and SE. drainage. Soil, heavy clay loam, 2 ft. or more deep. Undergrowth, sagebrush, brigham tea and yellow top, with scanty grazing. Timber, scattered cedar and pinon.

The true course of the two miles between the restored point for cor. of secs. 21 and 22 and the old cor of secs. 27, 28, 33 and 34 is N. 0°21' W., and the dist., 159.31 chs.

The true course of the two miles bet. the cor. of secs. 22 and 23 and the old cor. of secs. 26, 27, 34 and 35 is N. 0°48' W., and the dist., 159.63 chs.

On account of the great distance between the old witness cor. to the cor. of secs. 28, 29, 32 and 33 and the true point for that cor., it is advisable to establish this cor. by using both the call from the witness cor. and the call from the ¼ sec. cor. bet. secs. 32 and 33, giving twice the weight to the call from the witness cor. This proportionment places the point for the cor. of secs. 28, 29, 32 and 33 at 86 lks. W. and 21 lks.

Resurvey of Subdivisions in T. 41 S., R. 2 W.

Chains	
	N. of the temp. point for the cor. At this point,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, with brass cap mkd.
	T 41 S R 2 W S 29 | S 28 S 32 | S 33 1916
	from which
	A cedar, 8 ins. dia., bears N. 42° E., 1.59 chs. dist., mkd. T 41 S., R 2 W S 28 BT.
	A cedar, 8 ins dia., bears S. 74° E., 1.61 chs. dist., mkd. T 41 S R 2 W S 33 BT.
	No other bearing trees available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Thence,
	S. 0°46' W., resurveying bet. secs. 32 and 33.
	Over rolling clay and gypsum hills, asc. through scattered cedar and pinon timber and sagebrush, service berry and yellow top undergrowth.
7.90	Spur, 60 ft. above the cor., projects NE.
	Desc. gradually over S. slope.
16.00	Ravine, 50 ft. below spur, drains E. thence NE.
	Asc. abruptly over N. slope.
18.70	Spur, 50 ft. above ravine, projects NE.
	Desc. gradually over S. slope.
26.50	Draw, 10 ft. below spur, drains NE.
	Asc. gradually over N. slope.
30.40	Ridge, 20 ft. above draw, bears NE. and SW.
	Desc. gradually over SE. slope.
33.58	The true point for the ¼ sec. cor., 65 lks. N. 75° W. from old bearing tree. At true point,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for restored ¼ sec. cor., with brass cap mkd.

Chains	
	$\frac{1}{4}$ S 32 | S 33 1916
	from which
	The old bearing tree, a cedar, 8 ins. dia., bears S. 75° E., 65 lks. dist., mkd. $\frac{1}{4}$ S 33 BT.
	A cedar, 12 ins. dia., bears N. 72° E., 86 lks. dist., mkd. $\frac{1}{4}$ S 33 BT.
	No bearing tree in sec. 32 within limits.
	Dig pits, 18 x 18 x 12 ins. N and S. of post, 3 ft. dist.,
	Cor. stands on SE. slope 25 ft. below ridge.
	Thence,
	S. 4° 16' E., resurveying bet. secs. 32 and 33.
2.20	Draw, 20 ft. below the $\frac{1}{4}$ sec. cor., drains NE.
	Asc. gradually.
8.00	Ridge, 20 ft. above draw, bears NE. and SW.
	Desc. gradually over S. slope, and enter dense cedar and pinon timber, bears E. and W.
30.60	Old road, from Kanab to Pahreah, bears E. and W.
40.01	The cor. of secs. 4, 5, 32 and 33, heretofore described, 30 ft. below the ridge.
	Land, rolling clay and gypsum hills on N. half and rolling bench land on S. half, general NE. drainage from NW. and SE. slopes.
	Soil, heavy clay and gypsum, 2 ft. or more deep.
	Undergrowth, sagebrush, service berry and yellow top, fair grazing.
	Undergrowth, cedar and pinon timber, heavy on S. half.

	The course of the line bet. the cor. of secs. 28, 29, 32 and 33 and the witness cor. to this cor. is now N. 83°24' W., and the dist., 20.26 chs. Change the old witness cor. to angle point, with AP mkd. on N. face.

Resurvey of Subdivisions in T. 41 S., R. 2 W.

Chains	
	Proportioning the difference between the record and true latitude and departure between the cor. of secs. 28, 29, 32 and 33 and the point for restored cor. of secs. 21 and 22 gives the location for the restored cor. of secs. 16, 17, 20 and 21 at 76 lks. west and 18 lks. north of the temp. point for that cor. At this point, Set an iron post, 3 ft. long, 2 ins dia., 24 ins. in the ground for restored cor. of secs. 20 and 21, with brass cap mkd.
	T 41 S R 2 W S 20 | S 21 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
	Thence,
	S. 0°11' E., resurveying bet. secs. 20 and 21.
	Over rough and broken clay and gypsum hills, through scattered pinon and cedar timber and sagebrush and yellow top, asc.
6.20	Spur, 70 ft. above the cor., projects E.
	Desc. abruptly over S. slope.
11.20	Ravine, 95 ft. below spur, drains E.
	Asc. abruptly over N. slope.
14.00	Ridge, 70 ft. above ravine, bears E. and W.
	Desc. abruptly over S. slope.
22.00	Ravine, 85 ft. below ridge, drains E.
	Asc. abruptly over N. slope.
24.00	Ridge, 40 ft. above raving, bears E. and W.
	Desc. gradually over SE. slope.
29.50	Draw, 70 ft. below ridge, drains SE.
	Ascc abruptly over NW. slope.
31.30	Spur, 35 ft. above draw, projects NE. about 10 chs.
	Desc. abruptly over SE. slope.
33.30	Ravine, 50 ft. below spur, drains SE.

Resurvey of Subdivisions in T. 41 S., R. 2 W.

Chains	
	Asc.gradually over N. slope.
36.90	Spur, 40 ft. above ravine, projects E.
	Desc. abruptly over S. slope.
39.99½	Proportional measurement.
	On S. slope, 30 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for restored ¼ sec. cor., with brass cap mkd.
	S 20 | S 21 ¼ 1916
	from which
	A cedar, 12 ins. dia., bears S. 81° E., 36 lks. dist., mkd. ¼ S 21 BT.
	No bearing tree available in Sec. 20.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
49.80	Ravine, 125 ft. below the ¼ sec. cor., drains NE.
	Asc. abruptly over N. slope.
55.20	Spur, 55 ft. above ravine, projects E.
	Desc. gradually over S. slope.
63.20	Draw, 40 ft. below spur, drains E.
	Asc. gradually over N. slope.
74.20	Ridge, 55 ft. above draw, bears E. and W.
	Desc. abruptly over S. slope.
78.30	Ravine, 120 ft. below ridge, drains SE. 2 chs. thence NE.
	Asc. N. slope.
79.99	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, fornrestored cor. of secs. 20, 21, 28 and 29, with brass cap mkd.
	T 41 S R 2 W S 20 | S 21 S 29 | S 28 1916
	from which
	A pinon, 8 ins. dia., bears N. 22° E., 81 lks.

Resurvey of Subdivisions in T. 41 S., R. 2 W.

Chains

dist., mkd. T 41 S R 2 W S 21 BT.

A cedar, 8 ins. dia.; bears S. 80° E., 17 lks.

dist., mkd. T 41 S R 2 W S 28 BT.

No other bearing trees suitable for marking.

Dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist.

Land, rough and broken clay and gypsum hills, bad lands, general E. drainage from steep N. and S. slopes.

Soil, heavy gypsum clay, 2 ft. or more deep.

Undergrowth, scattered sagebrush and yellow top, poor grazing.

Timber, scattered cedar and pinon.

S. 0° 11' E., resurveying, bet. secs. 28 and 29.

Over rough and broken bad lands, clay and gypsum hills, asc. through scattered sagebrush, brigham tea and service berry brush, and scattered cedar and pinon timber.

5.20 Spur, 80 ft. above the cor., projects E. about 10 chs. Desc. abruptly over S. slope.

13.90 Ravine, 100 ft. below spur, drains NE. Asc. abruptly over N. slope.

32.70 Ridge, 120 ft. above ravine, bears E. and W. Desc. abruptly over S. slope.

39.99 Proportionate measurement.

On S. slope, 70 ft. below ridge,

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

S 29 | ¼ | S 28

1916

from which

A cedar, 12 ins. dia., bears S. 15° E., 176 lks. dist., mkd. ¼ S 28 BT.

No other bearing tree available.

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.

Chains	
40.90	Ravine, 40 ft. below the ¼ sec. cor., drains E.
	Asc. abruptly over N. slope.
47.20	Spur, 80 ft. above ravine, projects NE.
	Desc. abruptly over S. slope.
51.90	Ravine, 90 ft. below spur, drains NE.
	Asc. abruptly over NW. slope.
60.50	Spur, 105 ft. above ravine, projects NE.
	Desc. gradually over S. slope.
63.70	Draw, 30 ft. below spur drains E.
	Asc. gradually over N. slope.
68.30	Spur, 30 ft. above draw, projects E. about 5 chs.
	Desc. gradually over S. slope.
70.40	Draw, 30 ft. below spur, drains E. 3 chs. thence NE.
	Asc. gradually over NW. slope.
72.30	Spur, 15 ft. above draw, projects E. about 2 chs.
	Desc. gradually over S. slope.
75.50	Draw, 30 ft. below spur, drains NE.
	Asc. gradually over NW. slope.
79.98	The cor. of secs. 28, 29, 32 and 33, 25 ft. above draw.
	Land, rough and broken bad lands and rolling clay and gypsum hills, general E. drainage from N. and S. slopes.
	Soil, heavy and dense gypsum and clay, 2 ft. or more deep.
	Undergrowth, scattered sagebrush, brigham tea and service berry, with poor grazing.
	Timber, scattered pinon and juniper.

From the restored cor. of secs. 20 and 21,
N. 89°56' E., resurveying on N. bdy. of sec. 21.
Over rough and broken bad lands, clay and gypsum hills, through scattered sagebrush, and service berry, and scattered cedar and pinon timber, asc.

2.20	Spur, 50 ft. above the cor., projects N. about 5 chs.
	Desc. gradually over E. slope.
14.50	Desc. abruptly over NE. slope, bears NW. and SE.

Resurvey of Subdivisions in T. 41 S., R. 2 W.

Chains	
24.50	Bottom of canyon, 280 ft. below spur; drains SE. Asc. gradually over SW. slope.
27.00	Spur, 25 ft. above the canyon, projects S. about 10 chs. Desc. gradually.
31.00	Draw, 25 ft. below spur, drains S. 2 chs. thence SE. Asc. abruptly over SW. slope.
35.50	Spur, 110 ft. above draw, projects SE. about 10 chs. Desc. abruptly over E. slope.
38.43½	The ¼ sec. cor. for sec. 16 later set at this point.
39.60	Draw, 80 ft. below spur, drains S. Asc. abruptly over loose clay slide, steep W. slope.
39.94½	The point for restored ¼ sec. cor., proportional measurement, falls on loose clay slide where the corner cannot be perpetuated. Therefore, at
40.83,	On W. slope, 30 ft. above draw, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for witness cor. to the restored ¼ sec. cor., with brass cap mkd.

WC
¼ S 21
1916

from which

A cedar, 8 ins. dia., bears S. 6°10' E., 65 lks. dist., mkd. WC ¼ S 21 BT.

A cedar, 6 ins. dia., bears S. 34°45' W., 172 lks. dist., mkd. WC ¼ S 21 BT.

45.70	Ridge, 50 ft. above the WC. ¼ sec. cor., bears NW. and SE. Desc. gradually over E. slope.
59.60	Draw, 125 ft. below ridge, drains SE. Asc. gradually over W. slope.
72.50	Spur, 20 ft. above draw, projects S. about 5 chs. Desc. gradually over E. slope.
79.89	In bottom of wash, 10 lks. wide, 4 ft. deep, drains SE., 25 ft. below spur.
	The true point for restored cor. of secs. 21 and 22, which is 1.00 ch. S. 89°55' W. from the WC.
	Land, rough and broken bad lands, clay and gypsum hills,

Chains	
	general SE. drainage.
	Soil, dense and heavy clay and gypsum.
	Undergrowth, scattered sagebrush and service berryy with poor grazing.
	Timber, scattered cedar and pinon.

East Boundary of T. 41 S., R. 2 W.

	From the re-established cor. of secs. 7 12, 13 and 18, North, bet. secs. 7 and 12.
	Over bottom land; asc. over clay hills through scattered cedar and pinon timber and sage undergrowth.
4.40	Spur, 30 ft. above the cor., projects E. about 1 ch. Desc. to Paria Creek.
6.30	Desc. over clay bank 10 ft. high bears NW. and SE. into main wash.
17.70	Paria Creek, 20 lks. wide, 16 ins. deep, course S. 20° E., fair water, 50 ft. below spur.
33.60	Asc. out of main wash over clay bank 10 ft. high, bears N. 30° W. and S. 30° E.
	Thence over rolling bottom lands.
36.00	Enter grove of cottonwood trees, bear N. 70° E. and S. 70° W.
37.00	Leave cottonwood trees, bear N. 70° E. and S. 70° W.
40.00	On SW. slope, 40 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.

$$\frac{S\ 12 \mid \frac{1}{4} \mid S\ 7}{1916}$$

from which

A Cottonwood, 12 ins. dia., bears N. 82° E., 2.43 chs. dist., mkd. ¼ S 7 BT.

A cottonwood, 18 ins. dia., bears N. 78° W., 31 lks. dist., mkd. ¼ S 12 BT.

East Boundary of T. 41 S., R. 2 W.

Chains	
	No trace of the old ¼ sec. cor. found.
41.60	Commence abrupt asc. over clay foot-hills, bear NW. and SE.
53.00	The old witness cor. to the cor. of secs. 1, 6, 7 and 12, a sandstone, bears west, 3 lks. Destroy the cor.
57.80	Spur, 280 ft. above the ¼ sec. cor., projects W. about 10 chs.
	Desc. abruptly.
61.40	Draw, 60 ft. below spur, drains SW.
	Asc.
67.30	Ridge, 70 ft. above draw, bears E. and W.
	Desc.
69.50	Draw, 70 ft. below ridge, drains W.
	Asc.
80.00	On SW. slope, 100 ft. above draw,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 1, 6, 7 and 12, with brass cap mkd.

T 41 S
R 2 W | R 1 W

S 1	S 6
S 12	S 7

1916

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

Land, rolling bottom and clay foothills, general SW. drainage into Paria River.

Soil, sandy and gravelly clay on clay hills.

Undergrowth, sage.

Timber, scattered cedar and pinon, and cottonwood trees along the creek.

Fair grazing.

North, bet. secs. 1 and 6.

East Boundary of T 41 S., R. 2 W.

Chains.	
	Over rough and broken clay hills, asc. through scattered cedar and pinon timber and sage and cactus undergrowth.
19.30	Asc. abruptly over sandstone ledges, bear NW. and SE
40.00	On SW. slope of ledges, 475 ft. above the sec. cor., Set an iron post, 3 ft. long, 1 in. dia., 26 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.
	¼ S 1 | S 6 1916
	from which
	A pinon, 6 ins. dia., bears N. 56° E., 20 lks. dist., mkd. ¼ S 6 BT.
	A pinon, 8 ins. dia., bears S. 42° W., 47 lks. dist., mkd. ¼ S 1 BT.
40.38	The old ¼ sec. cor., a sandstone, bears east 3 lks. dist. Destroy all traces of the cor.
42.00	Spur, 40 ft. above the ¼ sec. cor., projects W. Desc.
58.50	Draw, 125 ft. below spur, drains W. Asc.
68.10	Spur, 60 ft. above draw, projects W. Desc.
70.80	Draw, 120 ft. below spur, drains W. Asc.
80.60	Spur, 80 ft. above draw, projects S. 70° W. Desc.
85.60	Draw, 20 ft. below spur, drains SW. Asc.
85.83	Intersect the 8th. St. Par. S. at 2.60 chs. east of the St. cor. of T. 40 S., Rs. 1 and 2 W., heretofore described. At intersection, Set an iron post, 3 ft. long, 3 ins. dia., on solid ledge of sandstone, 26 ins. in a mound of stone, 5 ft. base, for closing cor. of T. 41 S., Rs. 1 and 2 W., with brass

Chains	
	cap marked
	T40S R1 W S31 S1 | S6 R2W | R1W T41S C C 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, S. of the cor.
	The old closing cor. a cross on ledge, bears east 12 lks. dist. Obliterate the cor.
	Land, rough and broken ledges, general SW. slope and drainage.
	Soil, sand, gravel and slide rock, on sandstone ledges.
	Undergrowth, sage and cactus.
	Timber, cedar and pinon. Scanty grazing.

East Boundary of T. 41 S., R. 2 W.

Note: For description of sec. and ¼ sec. cors. along this bdy. for R. 2 W. see subdivisional lines closing upon E. bdy.

From the re-established cor. of Ts. 41 and 42 S., Rs. 2 and 3 W., heretofore described.

North, bet. secs. 31 and 36.

Over rolling land; asc. through dense sage and scattered cedar and pinon timber.

13.30	Ridge, 25 ft. above the cor., bears NW. and SE.; descend abruptly N. slope.
14.80	Draw, 30 ft. below ridge, drains E.; asc. gradually.
20.00	Spur, 25 ft. above draw, projects SE.
	Descend gradually.
25.00	Draw, 5 ft. below spur, drains SE.
	Ascend abruptly.
28.70	Spur, 70 ft. above draw, projects SE. about 10 chs.
	Descend gradually

West Boundary of T. 41 S., R. 2 W.

Chains	
33.00	Head of draw, 5 ft. below spur, drains SE.
	Asc. abruptly.
40.00	On S. slope, 100 ft. above head of draw.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked
	¼ S36 | S31 1916
	dig pits, 18x 18x 12 ins., N. and S. of post, 3 ft. dist. No trace of old cor. found.
41.00	Spur, 20 ft. above the ¼ sec. cor., projects NE.
	Descend abruptly.
49.80	Draw, 115 ft. below spur, drains SE.
	Ascend abruptly.
52.00	Spur, 35 ft. above draw, projects SE.
	Descend abruptly.
55.00	Draw, 35 ft. below spur, drains SE.
	Ascend gradually.
72.20	Spur, 280 ft. above draw, projects SE.
	Descend abruptly.
73.20	Head of draw, 15 ft. below spur, drains SE.
	Ascend abruptly.
79.28	The cor. of secs. 19 and 30 is later set at this point.
80.00	On SW. slope, 145 ft. above head of draw.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in ground for the cor. of secs. 25 and 36, with brass cap marked
	T41S R3W S25 S36 1916
	from which
	A cedar, 10 ins. diam., bears N. 63° W., 210 lks. dist., marked T41S R3W S25 BT

West Boundary of T. 41 S., R. 2 W.

Chains

A pinon, 6 ins. dia., bears S. 25° W., 60 lks. dist., mkd. T 41 S R 3 W S 36 BT.

Land, rolling and rough mountainous, general SE. drainage.

Soil, heavy clay and sandy loam, and sandstone boulders.

Undergrowth, scattered sage, service and yellow top, with fair grazing.

Timber, pinon and cedar.

North, on E. bdy. secs. 25.

Over rough and broken mountainous land, asc. over sandstone ledges, through scattered cedar and pinon timber and sage, service and yellow top undergrowth.

9.20 Ridge, 315 ft. above the sec. cor., bears E. and W. Desc. gradually.

17.30 Ravine, 60 ft. below the ridge, drains W. Asc. gradually.

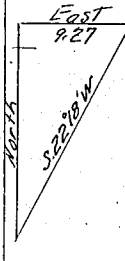
23.90 Spur, 40 ft. above the ravine, projects W. Desc.

26.10 Draw, 10 ft. below the spur, drains W. Asc. abruptly.

30.10 Sandstone spur, 110 ft. above draw, projects W. Desc. gradually.

33.93 On south side of canyon which cannot be chained. To determine distance across, set a flag at 33.93 ch. point, then set a flag on line north, on N. side of canyon. From this flag measure north 8. 30 chs. from which measure a base, east, 9.27 chs., to a point from which the flag on S. side of canyon bears S. 22°18' W. The dist. is therefore

base x cot 22°18' = 9.27 x 2.43825 = 22.60 chs., which minus 8.30 makes 14.30 chs. for distance between flags. 33.93 plus 14.30 makes 48.23 chs. to flag on N. side of canyon.



34.90 On S. rim of canyon, bears E. and W., 40 ft. below spur, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for witness cor. to ½ sec. cor. on E. bdy. of

West Boundary of T. 41 S., R. 2 W.

Chains

sec. 25, and also for witness cor. to ¼ sec. cor. on west bdy. sec. 30, (Knowing this cor. cannot be set in true position) with brass cap mkd.

WC ¼ WC
S 25 | S 30
1916

from which

A pinon, 8 ins. dia., bears S. 55°30' E., 57 lks. dist., mkd. WC ¼ S 30 BT.

A pinon, 10 ins. dia., bears N. 83° W., 32 lks. dist., mkd. WC ¼ S 25 BT.

39.30 Later found to be true point for ¼ sec. cor. on W. bdy. sec. 30.

40.00 The true point for ¼ sec. cor. on E. bdy. sec. 25, falls on inaccessible sandstone ledges in canyon.

48.23 Triangulation point on N. rim of canyon, bears NE. and W. Asc.

79.32 The cor. of secs. 19 and 30 is later set at this point.

80.00 On SW. slope, 65 ft. above N. rim of canyon,

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 24 and 25, with brass cap mkd.

T 41 S
R 3 W
S 24
S 25
1916

from which

A pinon, 16 ins. dia., bears S. 13°45' W., 66 lks. dist., mkd. T 41 S R 3 W S 25 BT.

A pinon, 12 ins. dia., bears N. 81°30' W., 63 lks. dist., mkd. T 41 S R 3 W S 24 BT.

Land, rough and broken mountainous, general west drainage.

Soil, sandy loam, sandstone ledges and broken sandstone boulders.

Undergrowth, sage, deer and scattered service-brush.

West Boundary of T. 41 S., R. 2 W.

Chains.	
	Timber, scattered pinon and cedar.
	Fair grazing.
	North, on E. bdy. sec. 24.
	Over rough mountainous land, asc. through dense cedar and pinon timber and scattered sage, deer and service brush and yellow top.
1.50	Spur, 25 ft. above the cor., projects NW.
	Desc. abruptly over N. slope.
15.20	Ravine, 220 ft. below spur, drains W.
	Asc. abruptly over S. slope.
20.60	Spur, 65 ft. above ravine, projects W.
	Desc. abruptly over N. slope.
24.80	Ravine, 65 ft. below spur, drains SW.
	Asc. abruptly over S. slope.
32.40	Spur, 105 ft. above ravine, projects W.
	Desc. gradually over N. slope.
39.26	The ¼ sec. cor. for sec. 19 is later set at this point.
40.00	On N. slope, 30 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, 4 ft. base, for ¼ sec. cor. on E. bdy. sec. 24, with brass cap mkd.
	¼ S 24 | 1916
	from which
	A cedar, 10 ins. dia., bears S. 80° W., 35 lks. dist., mkd. ¼ S 24 BT.
	A cedar, 30 ins. dia., bears N. 25° W., 29 lks. dist., mkd. ¼ S 24 BT.
41.70	Draw, 10 ft. below the ¼ sec. cor., drains W.
	Asc. gradually over S. slope.
44.90	Spur, 40 ft. above draw, projects W.,

West Boundary of T. 41 S., R. 2 W.

Chains	
	Desc. gradually over N. slope.
59.60	Draw, 140 ft. below spur, drains W.
	Asc. gradually over S. slope.
61.30	Spur, 10 ft. above draw, projects W.
	Desc. gradually over N. slope.
68.30	Draw, 65 ft. below spur, drains W.
	Asc. gradually over S. slope.
71.70	Spur, 50 ft. above draw, projects SW.
	Desc. abruptly over N. slope.
72.70	Ravine, 30 ft. below spur, drains SW.
	Asc. abruptly over S. slope.
79.20	The cor. of secs. 18 and 19 is later set at this point.
80.00	On S. slope, 80 ft. above ravine,

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

T 41 S
R 3 W
S 13 | S 24

1916

from which

A cedar, 34 ins. dia., bears S. 38°30' W., 13 lks. dist., mkd. T 41 S R 3 W S 24 BT.

A pinon, 16 ins. dia., bears N. 62°30' W., 83 lks. dist., mkd. T 41 S R 3 W S 13 BT.

Land, rough and broken mountainous, general west drainage.

Soil, light, loose sandy loam, sandstone ledges and sandstone boulders.

Undergrowth, sage, deer and service brush and yellow top with fair grazing.

Timber dense cedar and pinon.

North, on E. bdy. sec. 13.

Over rolling mountainous land, asc. through dense cedar

West Boundary of T. 41 S., R. 2 W.

Chains	
	and pinon timber and sage brush, deer brush, service berry and bunch grass undergrowth.
7.40	Ridge, 65 ft. above the sec. cor., bears E. and W.
	Desc. gradually over N. slope.
37.80	The ¼ sec. cor. for sec. 18 is later set at this point.
39.60	Draw, 185 ft. below ridge, drains W.
	Asc. gradually over S. slope.
40.00	On S. slope, 5 ft. above bottom of draw,
	Set an iron post, 3 ft. long, 1min. dia., 26 ins. in the ground, for ¼ sec. cor. for sec. 13, with brass cap mkd.
	¼ S 13 | 1916
	from which
	A cedar, 24 ins. dia., bears S. 62° W., 93 lks. dist., mkd. ¼ S 13 BT.
	A cedar, 6 ins. dia., bears N. 48° W., 119 lks. dist., mkd. ¼ S 13 BT.
55.30	Spur, 150 ft. above draw, projects SW.
	Desc. abruptly over N. slope.
56.30	Draw, 20 ft. below spur, drains SW.
	Asc. abruptly over SW. slope.
59.00	Spur, 45 ft. above draw, projects SW.
	Desc. gradually over NW. slope.
64.00	Draw, 35 ft. below spur, drains SW.
	Asc. abruptly over S. slope.
69.80	Spur, 145 ft. above draw, projects W.
	Desc. gradually over N. slope.
75.80	Head of draw, 20 ft. below spur, drains W.
	Asc. gradually.
77.80	The cor. of secs. 7 and 18 is later set at this point.
80.00	On S. slope, 35 ft. above draw,
	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. 12 and 13, with brass cap

West Boundary of T. 41 S., R. 2 W.

Chains	
	mkd.
	T 41 S R 3 W S 12 | S 13 1916
	raise a mound of stone, 3 ft. base, 2 ft. high, west of cor.
	No suitable bearing trees available.
	Land, rolling mountainous, general W. drainage from N. and S. slopes.
	Soil, light, loose sandy loam, sandstone ledges and sandstone boulders.
	Undergrowth, sagebrush, deer brush, service berry and bunch grass, good grazing.
	Timber, cedar and pinon.
	North, on E. bdy. sec. 12.
	Over rolling mountainous land, desc. along broken SW. slope through scattered cedar and pinon timber and scattered sagebrush, oak brush, deer brush and brigham tea undergrowth.
14.40	Ravine, 175 ft. below the sec. cor., drains SW.
	Asc. abruptly over SE. slope.
37.40	Ridge, 235 ft. above ravine, bears E. and W.
	Desc. gradually over N. slope.
37.73	The ¼ sec. cor. for sec. 7 is later set at this point.
40.00	On N. slope, 40 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor. sec. 12, with brass cap mkd.
	¼ S 12 1916

Chains	
	from which
	A cedar, 6 ins. dia., bears S. 35° W., 14 lks. dist., mkd. ¼ S 12 BT.
	A cedar, 10 ins. dia., bears N. 85° W., 13 lks. dist., mkd. ¼ S 12 BT.
46.10	Draw, 105 ft. below ¼ sec. cor., drains NW.
	Asc. gradually over NW. slope.
48.60	Spur, 20 ft. above draw, projects NW.
	Desc. abruptly over N. slope.
51.70	Ravine, 110 ft. below spur, drains W.
	Asc. Abruptly.
53.50	Spur, 55 ft. above ravine, projects SW.
	Desc. gradually over NW. slope.
60.00	Draw, 25 ft. below spur, drains SW.
	Asc. abruptly over SE. slope.
65.20	Ridge, 155 ft. above draw, bears NW. and SE.
	Desc. gradually over N. slope.
76.80	Draw, 175 ft. below ridge, drains SW.
	Asc. abruptly over SE. slope.
77.56	The cor. of secs. 6 and 7 is later set at this point.
80.00	On SE. slope, 65 ft. above draw,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 1 and 12, with brass cap mkd.

T 41 S
R 3 W
S 1
S 12
1916

from which

A cedar, 20 ins. dia., bears S. 50° W., 201 lks. dist., mkd. T 41 S R 3 W S 12BT.

A cedar, 8 ins. dia., bears N. 24° W., 50 lks. dist., mkd. T 41 S R 3 W S 1 BT.

Land, rolling mountainous, general west drainage.

Soil, deep sandy loam, sandstone outcroppings and sandstone boulders.

West Boundary of T. 41 S., R. 2 W.

Chains.

Undergrowth, scattered sagebrush, oak brush, deer brush and brigham tea brush, fair grazing.

Timber, scattered cedar and pinon.

North, on E. bdy. sec. 1.

Over mountainous land. asc. through scattered cedar and pinon timber and sagebrush, oak brush, deer brush and brigham tea undergrowth.

12.30 Ridge, 50 ft. above the cor., bears E. and W.

Desc. gradually over N. slope.

8.60 Abrupt desc. over N. slope, bears E. and W.

13.05 Brush fence, bears E. and W.

15.10 Ravine, 290 ft. below ridge, drains SW.

Asc. abruptly over S. slope.

24.70 Spur, 70 ft. above ravine, projects W. about 10 chs.

Desc. gradually over N. slope.

27.50 Draw, 40 ft. below spur, drains SW.

Asc. abruptly over S. slope.

34.20 Ridge, 170 ft. above draw, bears E. and W.

Desc. graduallyhover N. slope.

37.66 The ¼ sec. cor. for sec. 6 is later set at this point.

40.00 On N. slope. 70 ft. below ridge,.

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

¼

S 1

1916

from which.

A pinon, 12 ins. dia., bears S. 22°30' W., 189 lks. dist., mkd. ¼ S 1 BT.

A pinon, 10 ins. dia., bears N. 10° W., 73 lks dist.. mkd. ¼ S 1 BT.

40.70 Draw, 120 ft. below the ¼ sec. cor., drains W.

Asc. gradually over S. slope.

West Boundary of T. 41 S., R. 2 W.

Chains	
56.20	Spur, 55 ft. above draw, projects W.
	Desc. gradually over N. slope.
59.00	Abrupt desc. over N. slope bears E. and W.
62.10	Draw, 140 ft. below spur drains W.
	Asc. abruptly over S. slope.
68.50	Spur, 60 ft. above draw, projects W.
	Desc. gradually over N. slope.
70.30	Ravine, 110 ft. below spur, drains SW.
	Asc. abruptly over S. slope.
73.10	Spur, 85 ft. above ravine, projects SW about 5 chs.
	Desc. gradually over N. slope.
76.60	Draw, 30 ft. below spur, drains W.
	Asc. abruptly over sandstone ledges bear E. and W.
82.80	Ridge, 170 ft. above draw, bears E. and W. Desc.
84.73	On N. slope, 20 ft. below ridge,
	Intersect the Eighth St. Par. S. at 5.71 chs. west of the St. ¼ sec. cor. on S bdy. sec. 31, heretofore described.
	At intersection,
	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for closing cor. of T. 41 S., Rs. 2 and 3 W., with brass cap mkd.

T 40 S R 2 W
S 31

S 1 | S 6
R 3 W | R 2 W
T 41 S
C C
1916

from which

A cedar, 18 ins. dia., bears S. 45°30' W., 101 lks. dist., mkd. CC T 41 S R 3 W S 1 BT.

No other bearing trees available.

Dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 4 ft. and S. of post 8 ft. dist.

Land, rough mountainous, general west drainage from steep N. and S. slopes.

West Boundary of T 41 S., R. 2 W.

Chains	
	Soil, light, loose sandy loam, sandstone ledges and broken sandstone boulders.
	Undergrowth, dense sagebrush, deer brush, scattered oak and brigham tea brush; fair grazing.
	Timber, scattered cedar and pinon.

Subdivision of T. 41 S., R. 2 W.

	From the cor. of secs. 13, 14, 23 and 24, heretofore described,
	North, on random line, bet. secs. 13 and 14.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. cor. of secs. 11, 12, 13 and 14.

	East, on random line, bet. secs. 12 and 13.
40.00	Set temp. Point for ¼ sec. cor.
81.37	Intersect N. and S. line 1.53 chs. N. of the cor. of secs. 7, 12, 13 and 18, heretofore described.
	Thence, from the cor. of secs. 7. 12, 13 and 18,
	West, on sectional correction line bet. secs. 12 and 13,
	Over rough clay hills, asc. through scrubby cedar and pinon timber, no undergrowth.
7.40	Ridge, 105 ft. above the cor., bears N. 80° E. and S. 80° W.
	Desc.
11.80	Draw, 110 ft. below ridge, drains N. 60° E.
	Asc. to clay ridge
21.50	Clay ridge. 140 ft. above draw, bears NE. and SW.
	Desc.
25.70	Draw, 125 ft. below ridge, drains NE.
	Asc. abruptly.
41.37	Point for ¼ sec. cor. falls on steep clay slide, where cor. cannot be perpetuated. Therefore, at

Chains	
42.00	On NE. slope, 210 ft. above draw,
	Set an iron post, 3 ft. long 1 in. dia. 26 ins. in the ground for witness cor. to ¼ sec. cor., with brass cap mkd.
	¼ S 12 ——— WC S 13 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
43.50	Asc. over sandstone ledges bear NW. and S.
61.00	Ridge, 1000 ft. above the witness cor., bears N. 20° W. and S. 20° E.
	Desc. abruptly over sandstone ledges.
79.00	Foot of abrupt desc. over sandstone ledges, bear N. and S E.
81.97	1000 ft. below top of ridge.
	Set an iron post, 3 ft. long, 2 ins. dia., 22 ins. in the ground to solid rock and 6 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 11, 12, 13 and 14, with brass cap mkd.
	T 41 S R 2 W S 11 | S 12 ———+——— S 14 | S 13 1916
	from which
	A cedar 10 ins. dia., bears N. 86° E., 103 lks. dist., mkd. T 41 S R 2 W S 12 BT.
	A cedar, 8 ins. dia., bears S. 37° E., 155 lks. dist., mkd. T 41 S R 2 W S 13 BT.
	A cedar, 12 ins. dia., bears S. 3°45' W., 61 lks. dist., mkd. T 41 S R 2 W S 14 BT.
	A cedar, 12 ins. dia., bears N. 8° W., 53 lks. dist., mkd. T 41 S R 2 W S 11 BT.
	Land, rough and broken mountainous, general N. drainage from sandstone ledges.
	Soil, sand and clay loam, slide rock, sandstone ledges

Chains	
	and broken sandstone boulders.
	Scattered sage undergrowth on W. half.
	Scattered cedar and pinon timber.
	South, on true line, bet. secs. 13 and 14.
	Over mountainous land, desc. through scattered cedar and pinon timber, and scattered sage undergrowth.
20.40	Head of draw, 270 ft. below the cor., drains S. 65° E.
	Asc.
23.20	Ridge, 60 ft. above head of draw. bears N. 40° W. and S. 40° E.
	Desc.
28.60	Draw, 85 ft. below ridge, drains SW.
	Asc.
29.30	Spur, 35 ft. above draw, projects W. about 3 chs.
	Desc.
40.00	Point for ¼ sec. cor. falls on bottom of draw, 180 ft. below spur, drains E., where the cor. cannot be made permanent, Therefore at
41.83,	On N. slope, 10 ft. above bottom,
	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground for witness cor. to ¼ sec. cor., with brass cap mkd.
	W C ¼ S 14 | S 13 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
48.10	Spur, 100 ft. above the W.C. ¼ sec. cor., projects E.
	Desc.
65.40	Draw, 80 ft. below ridge, drains S. 35° W.
	Asc.
76.30	Ridge, 30 ft. above draw, bears N. 10° E. and S. 10° W.
	Desc.

Subdivision of T. 41 S., R. 2 W.

Chains	
78.47	The cor of secs. 13, 14, 23 and 24. 30 ft. below ridge.
	Land, rough and broken mountainous, general SW. drainage from steep slopes.
	Soil, light sand and clay loam, slide rock and broken sandstone boulders.
	Undergrowth, scattered sage.
	Timber, scattered cedar and pinon.

	From cor. of secs. 11, 12, 13, and 14,
	North, on sectional guide meridian, bet. secs. 11 and 12.
	Over rough and broken mountainous land, asc. abruptly over sandstone ledge, which cannot be chained, through scattered cedar and pinon timber and scattered sage undergrowth.
	Offset around west edge of ledges, as follows:
	West, 3.41 chs., thence
	North, on offset line, through sec. 11.
	14.20 Spurs 100 ft. above the cor. projects W. about 10 chs. Desc.
	30.50 Desc. abruptly into ravine.
	34.40 Ravine, 320 ft. below spur, drains NE. Asc. abruptly.
	40.00 offset
	East, 3.41 chs., to true line.
40.00	Point for ¼ sec. cor. falls on steep slope where cor. cannot be perpetuated. Cor. not set. Therefore at
40.25	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for witness cor to ¼ sec. cor., with brass cap mkd.

¼

S 11 | S 12

W | C

1916

from which

A cedar, 6 ins. dia. bears N. 55° E., 25 lks.

Subdivision of T. 41 S., R. 2 W.

Chains	
	dist., mkd. WC ¼ S 12 BT.
	A cedar, 6 ins. dia., bears N. 42° W., 86 lks. dist., mkd. WC ¼ S 11 BT.
45.10	Spur, 30 ft. above the witness cor., projects S. 70° E., about 8 chs.
	Desc.
57.70	Desc. abruptly, bears E. and W.
59.40	Draw, 90 ft. below spur, drains E.
	Asc.
68.20	Spur, 40 ft. above draw, projects E. about 15 chs.
	Desc.
70.30	Draw, 80 ft. below spur, drains E.
	Asc.
73.30	Spur, 85 ft. above draw, projects E. about 12 chs.
	Desc.
80.00	On. N. slope, 50 ft. below spur,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs.1, 2, 11 and 12, with brass cap mkd.

T 41 S R 2 W

S 2	S 1
S 11	S 12

1916

	raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
	Land, rough and broken mountainous, general E. drainage
	Soil, sand and clay loam, sandstone ledges, and boulderss
	Undergrowth, scattered sage, fair grazing.
	Timber, cedar and pinon.
	East, on random line, bet. secs. 1 and 12.
40.00	Set temp. point for ¼ sec. cor.
81.80	Intersect E. bdy. of Tp. 7 lks. S. of the cor. of secs. 1, 6, 7 and 12, heretofore described.

Subdivision of T. 40 S., R. 2 W.

Chains	
	Thence,
	S. 89° 57' W., on true line, bet. secs. 1 and 12.
	Over rough mountainous and broken land, desc. through sage undergrowth.
5.30	Ravine, 160 ft. below the cor., drains S. 80° W.
	Asc.
17.60	Spur, 140 ft. above ravine, projects SW. about 10 chs.
	Desc.
36.80	Ravine, 360 ft. below spur drains N. 80° W.
	Asc.
41.80	On spur, 40 ft. above ravine, projects N. about 1 ch.,
	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.1 / S 12 / 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, north of cor.
43.70	Ravine, 50 ft. below spur, drains S. 80° W.
	Asc. gradually.
50.00	Low spur, 30 ft. above ravine, projects SW.
	Desc. to Paria River.
62.20	Paria River, 100 lks. wide, 1 ft. deep, course S., muddy water, 30 ft. below spur.
	Asc.
73.40	Asc. over clay foot hills, bear N. and S.
81.80	The cor. of secs. 1, 2, 11 and 12, 225 ft. above Paria River.
	Land, rough and broken mountainous, general S. drainage.
	Soil, sand, gravel and clay loam, and sandstone ledges.
	Undergrowth, scattered sage, poor grazing.
	No timber.

	North, on Sectional Guide meridian, bet. secs. 1 and 2.
	Over broken mountainous land, desc. over E. slope, through

Subdivision of T. 41 S., R. 2 W.

Chains	
	scattered cedar and pinon timber and scrubby sage under-growth.
18.00	Foot of broken desc., bears N. 20° W. and S. 20° E., desc. gradually over canyon bottom.
38.50	On right bank of Paria River, 280 ft. below the sec.cor., Set an iron post, 3 ft. long 1 in. dia., 26 ins. in the ground for witness cor. to ¼ sec. cor., with brass cap mkd.

W C
¼
S 2 | S 1
1916

from which

A cottonwood, 6 ins. dia., bears S. 23° E., 174 lks. dist., mkd. WC ¼ S 1 BT.

A cottonwood, 10 ins. dia., bears S. 35° W., 193 lks. dist., mkd. WC ¼ S 2 BT.

	Enter scattered cottonwood trees along river banks, bear SE and SW.
38.90	Desc. over 10 ft. clay bank, bears N. 20° W. and S. 20°E. into gravelly bottom of wash.
39.90	Paria River, 1 ch. wide, 2 ft. deep, course S. 20° E., muddy water, 10. ft. below the ¼ sec. cor.
40.00	The point for ¼ sec. cor. falls in the river. where it cannot be set.
42.90	Leave wash, asc. over 5 ft. clay bank, bears N. 20° W. and S. 20° E., thence over broken west slope.
59.35	Spur, 200 ft. above the creek, projects W. about 10 chs. Desc.
69.80	Ravine, 190 ft. below spur, drains W. Asc.
86.18	On top of sandstone ledge, bears E. and W., 330 ft. above ravine,

Intersect the Eighth St. Par. S., 80 lks. N. 89°37' E. of the St. cor. of secs. 35 and 36, heretofore described. At intersection,

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the

Subdivision of T. 41 S., R. 2 W.

Chains	
	ground for closing cor. to secs. 1 and 2, with brass cap mkd.
	T 40 S R 2 W S 36 S 2 | S 1 T 41 S | R 2 W C C 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
	Land, rough and broken mountainous, and canyon bottom, general SE. drainage from NE. and SW. slopes.
	Soil, sandy clay loam, gravel, sandstone ledges and boulders.
	Undergrowth, scattered sage and rabbit brush.
	Timber, scattered cedar and pinon timber.
	From cor. of secs. 11, 12, 13, and 14,
	West, on sectional correction line, bet. secs. 11 and 14.
	Over rough and broken mountainous land, desc. over NW. slope of spur, through sage and deer brush undergrowth and scattered scrubby cedar and pinon timber.
14.30	Ravine, 310 ft. below the cor., drains S. 20° W.
	Asc. abruptly.
24.00	Spur, 160 ft. above ravine, projects S. about 3 chs.
	Desc. abruptly.
28.80	Draw, 90 ft. below spur, drains S. 80° E.
	Asc.
33.80	Spur, 100 ft. above draw, projects SE. about 5 chs.
	Desc.
40.00	On SW. slope, 40 ft. below spur,
	Set an iron post, 3 ft. long, 1¼ in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	S 11 S 14 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of

Subdivision of T. 41 S., R. 2 W.

Chains	
	cor.
41.30	Draw, 20 ft. below the ¼ sec. cor., drains SE.
	Asc.
47.90	Spur, 130 ft. above draw, projects S 70° E., about 10 chs.
	To pass unsurveyable ledges projecting south, offset as follows:
	South, 9. 40 chs., thence,
	West, on offset line, through sec. 14. (counting the dist. from the cor. of secs. 11, 12, 13 and 14).
	66.00 Point of spur projecting S., 270 ft. above the offset point. Desc.
	74.50 Draw, 40 ft. below point of spur, drains S
	Asc.
	76.80 Ridge, 45 ft. above draw, bears N. 20° E. and S. 20° W. Desc.
	80.00 Offset 9. 40 chs. N. to
80.00	On true line, 30 ft. below ridge,
	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, 3 ft. base, for cor. of secs. 10, 11, 14 and 15, with brass cap mkd.

T 41 S R 2 W

S 10	S 11
S 15	S 14

1916

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

Land, rough and broken mountainous, general S. drainage from steep slopes of sandstone ledges.

Soil, rocky, sandy loam and clay, with broken sandstone boulders and sandstone ledges.

Undergrowth, sage and deer brush, poor grazing.

Timber, scattered scrubby cedar and pinon.

Subdivision of T. 41 S., R. 2 W.

Chains	
	S. 0°01' E., on true line, bet. secs. 14 and 15.
	Over mountainous land, desc. along west slope of ridge, through scattered sage and deer brush and scattered scrubby cedar and pinon timber.
40.00	On W. side of top of ridge, 390 ft. below the sec. cor., Set an iron post, 3 ft. long, 1 ins dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 15 | S 14

1916

	raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.
51.60	Ravine, 400 ft. below the $\frac{1}{4}$ sec. cor., drains S. 70° E.
	Asc.
59.30	Clay ridge, 70 ft. above ravine, bears NW. and SE.
	Desc.
64.30	Enter draw, drains from NW. to S.
69.30	Leave draw, drains from N. to SE., 70 ft. below clay ridge.
	Asc.
78.57	Intersect the N. bdy. of sec. 22 at 92 lks. S. 89°55' W. of the cor. of secs. 22 and 23.
	At intersection,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 14 and 15, with brass cap mkd.

T 41 S | R 2 W

S 15 | S 14

1916

from which

A cedar, 30 ins. dia., bears N. 30° E., 23 lks. dist., mkd. T 41 S R 2 W S 14 BT.

A cedar, 8 ins. dia., bears N. 66° W., 272 lks. dist. mkd. T 41 S R 2 W S 15 BT.

Chains	
	Land, rough and broken mountainous, general S. and SE. drainage.
	Soil, rocky and sandy loam, gravel and sandstone boulders, shallow on sandstone ledges.
	Undergrowth, scattered sage and deer brush, scant grazing.
	Timber, scattered cedar and pinon timber.
	From cor. of secs. 10, 11, 14, and 15,
	N. 0°01' W., bet. secs. 10 and 11 ridian, bet. secs.
	Over rough and broken mountainous land, asc. abruptly through sage and deer brush undergrowth, and scattered scrubby cedar and pinon timber.
13.70	Ridge, 320 ft. above the cor., bears N. 70° W. and S. 50°E. Desc. and enter dense cedar and pinon timber, bears NW and SE.
30.80	Wash, 20 lks. wide, 10 ft. deep, in draw, 240 ft. below ridge, drains N. 30° E. Asc.
37.80	Spur, 60 ft. above wash, projects E. about 3 chs. Desc.
40.00	On N. slope, 30 ft. below spur. 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 10 | S 11

1916

from which

A cedar, 6 ins. dia., bears N. 73° E., 34 lks. dist., mkd. ¼ S 11 BT.

A pinon, 8 ins. dia., bears S. 32° W., 30 lks. dist., mkd. ¼ S 10 BT.

44.20	Desc. abruptly over broken sandstone ledges and clay hills, bear E. and W.

Subdivision of T. 41 S., R. 2 W.

Chains	
79.00	Canyon, 720 ft. below the ¼ sec. cor., drains N. 70° E. Asc. over clay hills.
80.00	On S. slope, 50 ft. above the canyon, Set an iron post, 3 ft. long 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 2, 3, 10 and 11, with brass cap mkd.

T 41 S R 2 W

S 3	S 2
S 10	S 11

1916

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

No suitable bearing trees within limits.

Land, rough and broken mountainous, general N. and S. Slope from high ridge.

Soil, loose sand, slide rock, clay and sandstone boulders.

Undergrowth, scattered sage and deer brush.

Timber, scattered cedar and pinon, dense on high ridge.

East, on random line, bet: secs. 2 and 11.

40.00	Set temp. point for ¼ sec. cor.
79.92	Intersect N. and S. line 28 lks. N. of the cor. of secs. 1, 2, 11 and 12.

Thence,

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

Over rough and broken mountainous land, asc. over sandstone ledges, bear NW. and SE, through scattered scrubby cedar and pinon timber and sage and deer brush undergrowth.

15.60	Top of red ledges, 280 ft. above the cor., bear N. 20° E. and S. 20° W. Desc. abruptly.
30.10	Gulch, 220 ft. below ledges, drains N. 20° E. Asc. abruptly.
35.10	Spur, 60 ft. above gulch, projects N. about 15 chs.

Chains	
	Desc. abruptly.
39.96	On W. slope, 335 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	S 2 ¼ S 11 1916
	from which
	A pinon, 10 ins. dia., bears S 34° E., 14 lks. dist., mkd. ¼ S 11 BT
	A pinon, 8 ins. dia., N. 20° E., 44 lks. dist., mkd. ¼ S 2 BT.
48.30	Draw, 100 ft. below ¼ sec. cor., drains N. 10° E.
	Asc.
52.70	Spur, 60 ft. above draw, projects N. about 10 chs.
	Desc.
62.40	Draw, 220 ft. below spur, drains NE.
	Asc.
65.30	Spur, 40 ft. above draw, projects N 30° E. about 5 chs.
	Desc.
70.10	Draw, 100 ft. below spur, drains NE.
	Asc.
75.00	Spur, 50 ft. above draw, projects NE. about 3 chs.
	Desc.
79 32	The cor. of secs. 2, 3, 10 and 11, 50 ft. below spur.
	Land, rough and broken mountainous, general N. and E. drainage from steep slopes.
	Soil, light sand, clay loam, and sandstone outcroppings.
	Undergrowth, sage and deer brush, scanty grazing.
	Timber, scrubby cedar and pinon.

	N. 0°01' W., bet. secs. 2 and 3.
	Over rough mountainous land, asc. abruptly over clay hills through scrubby cedar and pinon timber and sage and

Subdivision of T. 41 S., R. 2 W.

Chains	
	deer brush undergrowth.
17.10	Top of ledges, bear E. and W., 630 ft. above the sec. cor. Asc. to top of ridge, and enter dense cedar and pinon timber, bears E. and W.
29.70	Ridge, 95 ft. above top of ledge, bears E. and W. Desc.
40.00	On N. slope, 70 ft. below top of ridge, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	S 3 | ¼ | S 2
	1916
	from which.
	A juniper 10 ins. dia., bears S. 31° W., 94 lks. Dist., mkd. ¼ S. 3 BT.
	A pinon, 12 ins. dia., bears N. 77° E., 117 lks. dist., mkd. ¼ S 2 BT.
56.50	Gulch, 220 ft. below the ¼ sec. cor., drains NW. Asc.
59.00	Sandstone spur, 70 ft. above gulch, projects W., about 3 chs. Desc.
62.00	Gulley, 40 ft. below spur, drains S. 70° W. Asc.
67.00	Spur, 90 ft. above gulley, projects W. 10 chs. Desc.
71.00	Gully, 60 ft. below spur, drains S. 70° W. Asc.
74.30	Ridge, 60 ft. above gulley, bears E. and W. Desc.
77.20	Draw, 70 ft. below ridge, drains W. Asc.
80.10	Spur, 95 ft. above draw, projects W. about 12 chs. Desc.
86.49	On N. slope, 70 ft. below spur, Intersect Eighth St. Par. S. at 19.92 chs. S. 82°48' E.

Chains

of the St. cor. of secs. 34 and 35, heretofore described.

At intersection,

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, 3 ft. base, for the closing cor. of secs. 2 and 3, with brass cap mkd.

T 40 S R 2 W
S 35

S 3 | S 2
T 41 S | R 2 W

C C
1916

from which

A juniper, 24 ins. dia., bears S. 60° W., 8 lks. dist., mkd. CC T 41 S R 2 W S 3 BT.

A pinon, 8 ins. dia., bears S. 12° E., 80 lks. dist., mkd. CC T 41 S R 2 W S 2 BT.

Land, rough and brokem mountainous; general SE. and W. drainage from high ridge.

Soil, light sand, clay, slide rock and broken sandstone boulders and ledges.

Undergrowth, sage and deer brush, scanty grazing.

Timber, cedar and pinon.

At a point 46 lks. N. 89°52' W. of the restored ¼ sec. cor. on N. bdy. sec. 23, which point is midway between the cor. of secs. 14 and 15 and the cor. of secs. 13, 14, 23 and 24,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ¼ sec. cor. on S. bdy. sec.14, with brass cap mkd.

¼ S 14

1916

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

Chains	
	of cor.
	From cor. of secs. 10, 11, 14, and 15,
	West, on Sectional correction line, bet. secs. 10 and 15.
	It being impossible to chain west from this cor. on ace count of deep canyon with vertical walls, set a flag on line west on top of sandstone ledge, from which a flag on the ¼ sec. cor., bet. secs. 14 and 15 bears S. 36° 42' E. This ¼ sec. cor. bears S. 0°01' E., 40.00 chs. from the cor. of secs. 10, 11, 14 and 15. The dist. is therefore
	$\frac{\text{base} \times \sin 36°41'}{\sin 53°18'}$ log 40.00 = 1.602060; log sin 36°41' = 9.776259; colog sin 53°18' = 0.095947
	log dist. = 1.474266; dist. = 29.80
29.80	Top of ledges, bear NE. and SW
	Thence over rolling mountain top, through cedar and pinon timber, and scattered sage and brigham tea brush 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.
	$\frac{1}{4}\ \frac{S\ 10}{S\ 15}$ 1916
	from which
	A pinon, 16 ins. dia., bears N. 54°15' E., 31 lks. dist., mkd. ¼ S 10 BT.
	A cedar, 8 ins. dia., bears S. 8°30' W., 48 lks. dist., mkd. ¼ S 15 BT.
	Asc.
56.50	Spur, 60 ft. above the ¼ sec. cor., projects NE.
	Desc. gradually over W. slope.
61.30	Draw, 35 ft. below spur, drains NE.
	Asc. gradually.
63.30	Spur, 40 ft. above draw, projects NE.

Chains	
	Desc.
72.40	Draw, 60 ft. below spur, drains NE.
	Asc. gradually over E. slope.
80.00	On E. slope, 30 ft. above draw,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 9, 10, 15 and 16, with brass cap mkd.

T 41 S | R 2 W

S. 9 | S 10

S 16 | S. 15

1916

from which

A cedar, 14 ins. dia., bears N. 13° E., 55 lks. dist., mkd. T 41 S R 2 W S 10 BT.

A pinon, 14 ins. dia., bears S. 24°30' E., 67 lks. dist., mkd. T 41 S R 2 W S 15 BT.

A pinon, 14 ins. dia., bears S. 20° W., 85 lks. dist., mkd. T 41 S R 2 W S 16 BT.

A pinon, 14 ins. dia., bears N. 46° W., 25 lks. dist., mkd. T 41 S R 2 W S 9 BT.

Land rough and bruken mountainous, E half drains S. and the W. half drains NE.

Soil, loose sandy loam, sandstone ledges and broken sandstone boulders.

Undergrowth, scattered sage and brigham tea brush, bunch grass, fair grazing.

Timber, scattered cedar and pinon.

S. 0°01' E., bet. secs. 15 and 16.

Over rough and broken mountainous land, asc. over sandstone ledges through dense cedar and pinon timber and scattered sagebrush, yellow top and bunch grass undergrowth.

5.70	Ridge, 180 ft. above sec. cor., bears E. and W.

Chains	
	Desc. gradually over S. slope.
15.30	Draw, 210 ft. below ridge, drains SE.
	Asc. abruptly over NW. slope.
20.70	Sandstone spur, 100 ft. above draw, projects SE.
	Desc. abruptly over sandstone ledges, bear NW. and SE.
40.00	On SW. slope, 135 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground, for ¼ sec. cor., with brass cap mkd.

¼

S 16 | S 15

1916

from which

A cedar, 20 ins. dia., bears N. 34°30' E., 35 lks. dist., mkd. ¼ S 15 BT.

A cedar, 8 ins. dia., bears S. 87°30' W., 82 lks. dist., mkd. ¼ S 16 BT.

47.20	Draw, 125 ft. below the ¼ sec. cor., drains SE.
	Asc. gradually over NW. slope.
49.70	Spur, 20 ft. above the draw, projects SE.
	Desc.
77.30	Draw, 370 ft. below spur, drains SE.
	Asc. gradually over N. slope.
78.85	On N. slope 20 ft. above draw,
	Intersect N. bdy. sec. 21 at 1.53 chs. S. 89°56' W. of the true point for the restored cor. of secs. 21 and 22.
	At intersection,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 15 and 16, with brass cap mkd.

T 41 S | R 2 W

S 16 | S 15

1916

from which

A cedar, 8 ins. dia., bears N. 13°10'E., 31 lks.

Chains

dist., mkd. T 41 S R 2 W S 15 BT.

A cedar, 12 ins. dia., bears N. 54° W., 110 lks. dist., mkd. T 41 S R 2 W S 15 BT.

Land, rough and broken mountainous, general SE. drainage from steep slopes of spurs.

Soil, deep sandy loam, sandstone slide rock and broken sandstone boulders, on sandstone ledges.

Undergrowth, scattered sage brush, yellow top, bunch grass, fair grazing.

Timber, cedar and pinon.

At a point 1.22½ chs. S. 89°55' W. of the ¼ sec. cor. on N. bdy. sec. 22, which point is midway between the cor. of secs. 14 and 15, and the true point for the cor. of secs. 15 and 16,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins in the ground for ¼ sec. cor. on S. bdy. sec. 15, with brass cap mkd.

¼ S 15

1916.

from which

A cedar, 8 ins. dia., bears N. 58° E., 53 lks. dist., mkd. ¼ S 15 BT.

A cedar, 10 ins. dia., bears N. 48°30' W., 140 lks. dist., mkd. ¼ S 15 BT.

From cor. of secs. 9, 10, 15, and 16,
. 0°01' W., bet. secs. 9 and 10.

Over rough and broken mountainous land, desc. over sandstone ledges, bear NW. and SE., through scattered cedar and pinon timber and scattered sage, deer and oak brush undergrowth.

11.00 Head of ravine, 45 ft. below the cor., drains E.

Asc. over broken sandstone ledges.

Subdivision of T. 41 S., R. 2 W.

Chains	
14.50	Sandstone spur, 90 ft. above head of ravine, projects N. 80° E.
	Desc.
16.70	Head of ravine, 130 ft. below spur, drains E.
	Asc. abruptly over sandstone ledges, bear NW. and SE.
26.30	Sandstone spur, 330 ft. above head of ravine, projects E. about 10 chs.
	Desc. abruptly.
35.20	Gulch, 310 ft. below spur, drains SE.
	Asc. abruptly over sandstone ledge, bears NW. and SE.
37.10	Top of ledge, bears NW. and SE., 100 ft. above gulch,
	asc. to top of sandstone ridge.
40.00	On SW. slope, 40 ft. above top of ledge,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	S 9 | S 10
	1910
	from which
	A pinon, 10 ins. dia., bears N. 52° E., 87 lks. dist., mkd.] S 10 PT.
	A cedar, 8 ins. dia., bears S. 75° W., 77 lks. dist., mkd.] S 9 PT.
55.50	Top of ridge, 370 ft. above the ¼ sec. cor., bears NE. and S. 70° W.
	Desc. abruptly over N. slope.
66.20	Desc. over perpendicular sandstone ledge, 175 ft. high, bears E. and W.
72.40	Gulch, 535 ft. below ridge, drains NW.
	Asc. and enter more dense timber, bears E. and W.
77.90	Spur, 55 ft. above gulch, projects W., about 2 chs.
	Desc.
80.00	On N. slope, 40 ft. below spur,
	Set an iron post, 3 ft. long, 2 ins. dia., 20 ins. in the ground to solid rock and 6 ins. in a mound of stone,

Chains

2 ft. base, for the cor. of secs. 3, 4, 9 and 10, with brass capmmkd.

T 41 S R 2 W

S 4 | S 3

S 9 | S 10

1916

from which

A cedar, 6 ins. dia., bears N. 68° E., 35 lks. dist., mkd. T 41 S R 2 W S 3 BT.

A pinon, 24 ins. dia., bears S. 54° E., 35 lks. dist., mkd. T 41 S R 2 W S 10 BT.

A cedar, 8 ins. dia., bears S. 40° W., 65 lks. dist., mkd. T 41 S R 2 W S 9 BT.

A cedar, 8 ins. dia., bears N. 87° W., 25 lks. dist., mkd. T 41 S R 2 W S 4 BT.

Land, rough and broken mountainous, general N. drainage.

Soil, light, loose sandy loam, sandstone ledges and broken sandstone boulders.

Undergrowth, scattered sage, oak and deer brush.

Timber, cedar and pinon.

East, on random line, bet. secs. 3 and 10.

40.00 Set temp. ¼ sec. cor.

79.85 Intersect the cor. of secs. 2, 3, 10 and 11.

Thence,

West, on true line, bet. secs. 3 and 10.

Over rough mountainous land, asc. abruptly over sandstone ledges and clay hills, through scrub cedar and timber timber and scattered sage and deer brush undergrowth.

33.50 Top of ledges, bear N. 60° E. and S. 60° W., thence asc. to point of high spur.

36.20 Point of high sandstone spur, projecting S., 775 ft. above the cor..

Desc.

Subdivision of T. 41 S., R. 2 W.

Chains	
36.00	Head of gulch, 140 ft. below point of spur, drains S.
	Asc.
36.70	Point of sandstone spur projecting S., 150 ft. above head of gulch.
	Desc.
39.32½	The point for ¼ sec. cor. falls sandstone ledges where the cor. cannot be set.
41.25	On W. slope, 50 ft. below point of 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 witness cor to ¼ sec. cor., with brass cap mkd.
	S 3
	¼ ——— WC
	S 10
	1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor
43.80	Head of draw, 20 ft. below the ¼ sec. cor., drains SE.
	Asc.
60.50	Sandstone ridge, 160 ft. above head of draw, bears NE. and SW.
	Desc.
63.30	Desc. over perpendicular sandstone ledge, 150 ft. high, bears N. and S.
68.40	Gulch, 160 ft. below ridge, drains NW.
	Asc. over broken slope.
77.00	Spur, 30 ft. above gulch, projects N. about 8 chs.
	Desc.
79.85	The cor. of secs. 3, 4, 9 and 10, 60 ft. below spur.
	Land, rough and broken mountainous, sandstone formation. general S. drainage.
	Soil, loose sand, sandstone sliderock, ledges and boulders.
	Undergrowth, sage and deer brush, fair grazing.
	Timber, cedar and pinon.

Subdivision of T. 41 S., R. 2 W.

Chains	
	N. 0°01' W., bet. secs. 3 and 4.
	Over mountainous land, desc. along NW. slope through scrub cedar and pinon timber and scattered sage, deer and scrub mahogany undergrowth.
5.30	Desc. abruptly, bears NW. and SE.
14.60	Ravine, 250 ft. below the cor., drains N. 30° W.
	Asc. abruptly.
24.40	Spur, 80 ft. above ravine, projects NW. about 3 chs.
	Desc.
31.20	Ravine, 170 ft. below spur, drains NW.
	Asc. abruptly over sandstone ledges, bear NW. and SE.
40.00	Point for ¼ sec. cor., falls on sandstone ledges where the cor. cannot be set.
44.20	Spur, 330 ft. above ravine, projects W., about 10 chs.
	Desc.
44.50	On N. side of topmof 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, 3 ft. base, for witness cor. to ¼ sec. cor., with brass cap mkd.
	¼ S 4 | S 3 W C 1916
	from which
	A cedar, 12 ins. dia., bears S. 52° E., 51 lks. dist., mkd. WC ¼ S 3 BT.
	A cedar, 10 ins. dia., bears S. 63° W., 30 lks. dist., mkd. WC ¼ S 4 BT.
45.20	Desc. abruptly, bears E. and W.
51.10	Gulch, 250 ft. below the witness cor. to ¼ sec. cor., drains W.
	Asc. over sandstone ledges.
66.00	Spur, 150 ft. above gulch, projects N. 70° W., 5 chs.
	Desc. abruptly.

Subdivision of T. 41 S., R. 2 W.

Chains	
72.85	Gulch, 230 ft. below spur, drains W.
	Asc. abruptly over sandstone ledges.
77.10	Spur, 120 ft. above gulch, projects W., about 3 chs.
	Desc.
78.50	Gulley, 40 ft. below spur, drains W,
	Asc.
86.43	On S. slope, 225 ft. above gulley,
	Intersect the Eighth St. Par. S. 10.56 chs. S. 89°42' W.
	of the St. ¼ sec. cor. on S. bdy. secs 34.
	At intersection,
	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 closing cor. to secs. 3 and 4, with
	brass cap mkd.

T 40 S R 2 W
S 34

S 4 | S 3
T 41 S | R 2 W
CC
1916

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

Land, rough and broken mountainous, sandstone formation, general NW. drainage.

Soil, loose sand, sandstone slide rock and boulders.

Undergrowth, sage and deer brush and scattered scrubby mahogany.

Timber, cedar and pinon.

From cor. of secs. 9, 10, 15, and 16,

West, on sectional correction line, bet. secs. 9 and 16.

Over rough and broken mountainous land, asc. over sandstone ledges, broken boulders, through cedar and pinon timber and sage brush, scattered oak, service under growth.

1.20	Spur, 15 ft. above the sec. cor., projects NE.

Subdivision of T. 41 S., R. 2 W.

Chains	
	Desc. gradually.
3.20	Head of canyon, 30 ft. below spur, drains NE.
	Asc. abruptly over E. slope.
22.60	Ridge, 365 ft. above head of canyon, bears N. and S.
	Desc. gradually over W. slope.
40.00	On W. slope, 50 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.
	S 9 / ¼ / S 16
	1916
	from which
	A pinon, 14 ins. dia., bears N. 6° E., 167 lks. dist., mkd. ¼ S 9 BT.
	A cedar, 10 ins. dia., bears S. 20° E., 110 lks. dist., mkd. ¼ S 16 BT.
57.20	Head of canyon, 240 ft. below ridge, drains NE.
	Asc. abruptly over E. slope.
71.40	Ridge, 260 ft. above head of canyon, bears NW. and SE.
	Desc. gradually over SW. slope.
80.00	On SW. slope, 60 ft. below ridge,
	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.
	T 41 S R 2 W S 8 | S 9 S 17 | S 16 1916
	from which
	A cedar, 10 ins. dia., bears N. 8° E., 59 lks. dist., mkd. T 41 S R 2 W S 9nBT.
	A cedar, 12 ins. dia., bears S. 55°30' E., 142 lks. dist., mkd. T 41 S R 2 W S 16 BT.
	A cedar, 10 ins. dia., bears S. 21° W., 63 lks. dist., mkd. T 41 S R 2 W S 17 BT.

Chains

A cedar, 8 ins. dia., bears N. 61° W., 61 lks. dist., mkd. T 41 S R 2 W S 8 BT.

Land, rough and rolling mountainous, general N. and S. drainage from high ridge.

Soil, light sandy loam, sandstone ledges and boulders.

Undergrowth, sage, scattered oak and servise brush.

Timber, cedar and pinon.

S. 0°02' E., on true line, bet. secs. 16 and 17.

Over rolling mountainous land, desc. through scattered cedar and pinon timber and sagebrush, yellow top and bunch grass undergrowth.

5.00 Drew, 30 ft. below the sec. cor., drains W.

Asc. gradually over E. slope.

20.60 Set Flag for triangulation on top of perpendicular sandstone cliffs bear E. and W., over which it is impossible to chain. To determine dist. to bottom of cliffs set a flag on line S. 0°02' E., and there being no suitable place for a base on top of cliffs, proceed to flag at bottom of ledges, from which lay off a base, S. 75°27'W. 5.00 chs. dist., (no longer base possible on account of ledges) from which the flag on top of cliffs bears N. 18°32' E. The dist. is therefore

$$\frac{\text{base} \times \sin 56°55'}{\sin 18°34'}$$

log sin 18°34' = 0.497016
log sin 56°55' = 9.923181
log 5.00 = 0.698970

log dist. = 1.119167
dist. = 13.16 chs., which

added to 20.60 makes

33.84 Triangulation point at foot of cliffs, 1000 ft. below top.

Continue desc. over clay hills.

40.00 On SW. slope, 50 ft. below T.P.

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 | S 16

1916

Subdivision of T. 41 S., R. 2 W.

Chains	
	from which
	A cedar, 12 ins. dia., bears N. 23° E., 18 lks. dist., mkd. ¼ S 16 BT.
	A pinon, 10 ins. dia., bears N. 65°30' W., 25 lks. dist., mkd. ¼ S 17 BT.
49.40	Draw, 215 ft. below ¼ sec. cor., drains NW.
	Asc. abruptly over N. slope.
53.30	Spur, 50 ft. above draw, projects NW.
	Desc.
58.70	Ravine, 55 ft. below spur, drains SE.
	Asc.
66.10	Spur, 120 ft. above ravine, projects SE.
	Desc.
70.50	Ravine, 160 ft. below spur, drains NE.
	Asc. abruptly over N. slope.
78.60	Set temp. point.
78.69	(Later) Intersect N. bdy. sec. 20 at 1.49 chs. S.89°55' W. of the restored cor. of secs. 20 and 21.
	At intersection,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 16 and 17, with brass cap mkd.
	T 41 S | R 2 W S 17 | S 16 1916
	raise a mound of stone, 2 ft. base 1½ ft. high, N. of cor.
	Land, rough and broken mountainous, general SE. drainage
	Soil, sand, slide rock, broken sandstone boulders, and sandstone ledges, and heavy clay loam.
	Undergrowth, sage and deer brush, scattered mahogany deer brush, yellow top and bunch grass.
	Timber, cedar and pinon.

Subdivision of T. 41 S., R. 2 W.

Chains

At a point 1.51 chs. S. 89°56' W. from the true point for ¼ sec. cor. on N. bdy. sec. 21, or midway bet. the cor. of secs. 16 and 17 and the cor. of secs. 15 and 16, 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 ¼ sec cor. on S. bdy. sec. 16, with brass cap mkd.

¼ S 16

1916

from which

A cedar, 6 ins. dia., bears N. 8°05' E., 114 lks. dist., mkd. ¼ S 16 BT.

A cedar, 8 ins. dia., bears N. 25° W., 36 lks. dist., mkd. ¼ S 16 BT.

From cor. of secs. 8, 9, 16, and 17,

N. 0°02' W., bet. secs. 8 and 9.

Over rolling mountainous land, asc. gradually through scattered cedar and pinon timber and sage and deer brush undergrowth.

4.00 Ridge 40 ft. above the cor., bears NW. and SE. Desc. abruptly over broken NE. slope.

40.00 On broken NE. slope, 500 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., with brass cap mkd.

¼

S 8 | S 9

1916

from which

A pinon, 6 ins. dia., bears N. 82° W., 22 lks. dist., mkd. ¼ S 8 BT.

A pinon, 10 ins. dia., bears S. 12° E., 67 lks.

Subdivision of T. 41 S., R. 2 W.

Chains	
	dist., mkd. ¼ S 9 BT.
40.00	Unable to set cor. full depth in ground on account of sandstone bedrock.
40.20	Desc. over vertical sandstone ledge 50 ft. high, bears NW. and SE.
56.50	Ravine, 200 ft. below the ¼ sec. cor., drains N. 20° E.
	Asc.
73.80	Spur, 120 ft. above ravine, projects NE.
	Desc.
76.50	Gulch, 70 ft. below spur, drains N. 75° E.
	Asc. over smooth sandstone bedrock.
80.00	The point for the cor. of secs. 4, 5, 8 and 9 falls on smooth sandstone bedrock where post cannot be set, 60 ft. above gulch. Therefore, at
89.50	On SW. slope of spur, 200 ft. above gulch,

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, 2 ft. base, for witness cor. to the cor. of secs. 4, 5, 8 and 9, with brass cap mkd.

T. 41 S. R. 2 W.

S 5	S 4
S 8	S 9

WC
1916

from which

A pinon, 6 ins. dia., bears N. 65° E., 70 lks. dist., mkd. WC T 41 S R 2 W S 4 BT.

A pinon, 10 ins. dia., bears S. 63° E., 114 lks. dist., mkd. WC T 41 S R 2 W S 4 BT.

A cedar, 10 ins. dia., bears S. 3° W., 73 lks. dist., mkd. WC T 41 S R 2 W S 5 BT.

A cedar, 12 ins. dia., bears N. 30° W., 10 lks. dist., mkd. WC T 41 S R 2 W S 5 BT.

Land, rolling and rough mountainous, general NE. drainage.

Soil, loose sand, sandstone slide rock and boulders.

Undergrowth, sage and deer brush.

Subdivision of T. 41 S., R. 2 W.

Chains	
	Timber, cedar and pinon.
	From the witness cor. to cor. of secs. 4, 5, 8 and 9, 9.50 chs. N. 0°02' W. of the true point,
	East, on random offset line through sec. 4, to pass precipitous sandstone buttes.
40.00	Unable to regain true random line at this point on account of impassable cliffs.
47.00	On offset line. Set temp. point for witness cor. to ¼ sec. cor.
49.50	Offset 9.50 chs. S. 0°02' E. to true line., thence continue east on random line bet. secs. 4 and 9.
80.22	Intersect N. and S. line 9 lks. S. of the cor. of secs. 3, 4, 9 and 10.
	Thence
	S. 89°56' W., on true line, bet. secs. 4 and 9.
	Over rough and broken mountainous land, desc. through scrub cedar and pinon timber and scattered sage, oak and deer brush undergrowth.
1.30	Ravine, 50 ft. below the cor., drains N. 10° E. Asc. abruptly over broken sandstone ledges, and barren sandstone outcroppings.
30.72	On bare sandstone ledge, bears NW. and SE., 480 ft. above ravine,
	Mark a cross (X) and WC ¼ on ledge for witness cor. to ¼ sec. cor. No mound of stone possible, and no bearing trees within limits.
	Thence N. 0°02' W. 9.50 chs. to offset line, thence
	S. 89°56' W. on offset line.
33.20	On the offset line.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for witness cor. to ¼ sec. cor. with brass cap mkd.

S 4
¼ S 9
WC 1916

Subdivision of T. 41 S., R. 2 W.

Chains	
	from which
	A pinon, 6 ins. dia., bears N. 40° E.,
	66 lks. dist., mkd. WC ¼ S 4 BT.
	A cedar, 12 ins. dia., bears S. 12° E.,
	105 lks. dist., mkd. WC ¼ S 4 BT.
	The witness cor. is therefore 9.50 chs. N. and 6.91 chs. N. 89°56' E. of true point.
	No suitable place within 20.00 chs. of the true point to set an iron post, for the cor.
	Continue over rugged N. slope.
80.22	The witness cor. to the cor. of secs. 4, 5, 8 and 9, 9.50 chs. N. 0°02' W. of the true point.
	Land, rugged mountainous, partly inaccessible, general N and NE. drainage from sandstone cliffs.
	Soil. loose sand, sandstone boulders, ledges and outcroppin
	Undergrowth, sage, oak and deer brush.
	Timber scattered scrubby cedar and pinon.

	From the true point for the cor. of secs. 4, 5, 8 and 9, N. 0°02' W., on true line, bet. secs. 4 and 5.
9.50	The witness cor. to the cor. of secs. 4, 5, 8 and 9.
	Thence, over rough and broken mountainous land, asc. through scattered scrubby cedar and pinon timber and sage and deer brush undergrowth.
10.40	Sandstone spur, 20 ft. above the witness cor., projects SE. Desc.
11.70	Gulch, 60 ft. below spur, drains SE. Asc.
21.40	Ridge, 170 ft. above gulch, bears E. and W. Desc. over sandstone ledges.
40.00	Point for ¼ sec. cor. falls on sandstone ledges, where post cannot be set.
43.60	Gulch, 160 ft. below ridge, drains E. Asc. over sandstone ledges.

Subdivision of T. 41 S., R. 2 W.

Chains	
49.50	On S. slope of spur, 30 ft. abovehgulch,
	Set an iron post, 3 ft. long, 1 in. dia., 5 ins. in the ground to bed rock and 20 ins. in a mound of stone, 4 ft. base, for witness cor. to ¼ sec. cor. with brass cap mkd.
	¼ S 5 | S 4 WC 1916
	from which
	A pinon, 12 ins. dia., bears S. 85° E., 63 lks. dist., mkd. WC ¼ S 4 BT.
	A pinon, 10 ins. dia., bears N. 40° W., 42 lks. dist., mkd. WC ¼ S 5 BT.
50.40	Spur, 10 ft. above the W.C., projects East.
	Desc,
52.25	Gulch, 30 ft. below spur, drains E.
	Asc. over broken sandstone ledges, bear NE. and SW.
59.20	Spur, 80 ft. above gulch, projects E.
	Desc.
65.60	Ravine, 200 ft. below spur, drains N. 70° E. Small stream of alkaline water, 2 lks. wide, 2 ins. deep, in bottom of ravine, course N. 70° E.
	Asc.
71.20	Spur, 100 ft. above ravine, projects E. 8 chs.
	Desc.
76.00	Gulch, 80 ft. below spur, drains S. 20° E.
	Asc.
86.60	On SW. slope, 205 ft. above gulch,
	Intersect Eighth St. Par. S., 11.09 chs. S. 89°59' W. of the St. ¼ sec. cor. on S. bdy. sec. 33, heretofore described.
	At intersection,
	Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the ground to solid rock and 6 ins. in a mound of stone, 3

Chains	
	ft. base, for closing cor. of secs. 4 and 5, with brass cap mkd.
	T 40 S R 2 W S 33 S 5 | S 4 T 41 S | R 2 W CC 1916
	from which
	A pinon, 18 ins. dia., bears S. 86° E., 70 lks. dist., mkd. CC T 41 S R 2 W S 4 BT.
	A pinon, 20 ins. dia., bears S 69° W., 137 lks. dist., mkd. CC T 41 S R 2 W S 5 BT.
	Land, rough and broken mountainous, general NE. drainage.
	Soil, loose sand, sandstone slide rock, boulders and ledges.
	Undergrowth, sage and deer brush.
	Timber, scattered scrubby cedar and pinon.
	From the cor. of secs. 5, 6, 31 and 32, on S. bdy. of Tp. heretofore described,
	North, on random line, bet. secs. 31 and 32.
40.00	Set temp. ¼ sec. cor.
80.00	Set temp. cor. of secs. 29, 30, 31 and 32.
	East, on random line, bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
77.08	Intersect N. and S. line 16 lks. N. of the cor. of secs. 28, 29, 32 and 33.
	Thence,
	West, on sectional correction line bet. secs. 29 and 32,
	Over rough mountainous land, desc. abruptly over NW. slope through scattered sagebrush, service berry and yellow top undergrowth, and cedar and pinon timber.
1.00	Draw, 35 ft. below the cor., drains N.

Subdivision of T. 41 S., R. 2 W.

Chains	
	Asc.
8.00	Spur, 85 ft. above draw, projects NE.
	Desc.
10.00	Draw, 40 ft. below spur, drains NE.
	Asc. abruptly.
20.50	Spur, 150 ft. above draw, projects S.
	Desc. abruptly.
28.10	Ravine, 140 ft. below spur, drains NE.
	Asc. abruptly.
75.00	Spur, 145 ft. above ravine, projects SE.
	Desc. gradually.
77.00	On SW. slope, 10 ft. below spur,
	Set an iron post, 2 ft. long, 1 in. dia., 28 ins. in the ground for ¼ sec. cor. on E. bdy. sec. 32, with brass cap mkd.

¼ S 32

1916

from which

A cedar, 14 ins. dia., bears N. 16° E., 115 lks. dist., mkd. ¼ S 32 BT.

77.70	Draw, 30 ft. below the ¼ sec. cor., drains SE.
	Asc. gradually.
78.34	On E. slope, 16 ft. above draw,
	Set an iron post, 2 ft. long, 1 in. dia., 18 ins. in the ground to solid rock and 6 ins. in a mound of stone, 2 ft. base, for ¼ sec cor. on E. bdy. sec. 32, with brass cap mkd.

¼ S 32

1916

from which

A cedar, 10 ins. dia., bears S. 17° E., 14 lks. dist., mkd. ¼ S 32 BT.

A pinon, 10 ins. dia., bears S. 40° W., 80 lks. dist., mkd. ¼ S 32 BT.

Chains	
57.80	Spur, 150 ft. above the ¼ sec. cor., projects S.
	Desc. gradually.
59.40	Draw, 30 ft. below spur, drains SE.
	Asc. gradually.
62.50	Spur, 55 ft. above draw, projects SE.
	Desc. gradually.
64.00	Draw, 15 ft. below spur, drains SE.
	Asc. gradually.
77.08	On E. slope, 105 ft. above draw,

Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the ground to solid rock and 6 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 29, 30, 31 and 32, with brass cap mkd.

T 41 S R 2 W
S 30 | S 29
S 31 | S 32
1916

from which

A cedar 12 ins. dia., bears N. 35° E., 24 lks. dist., mkd. T 41 S R 2 W S 29 BT.

A cedar, 10 ins. dia., bears S. 53° E., 40 lks. dist., mkd. T 41 S R 2 W S 32 BT.

A cedar, 14 ins. dia., bears S. 28° W., 58 lks. dist., mkd. T 41 S R 2 W S 31 BT.

A cedar, 10 ins. dia., bears N. 21° W., 72 lks. dist., mkd. T 41 S R 2 W S 30 BT.

Land, rough and rolling mountainous, general NE. and SE. drainage.

Soil, loose sand and clay loam, sandstone boulders, and gypsum.

Undergrowth, scattered sagebrush, yellow top and service berry.

Timber, scattered cedar and pinon.

Subdivision of T 41 S., R. 2 W.

Chains	
	South, on true line, bet. secs. 31 and 32.
	Over rolling mountainous land, desc. through scattered cedar and pinon timber and sagebrush and yellow top undergrowth.
24.10	Draw, 100 ft. below the cor., drains SE.
	Asc.
30.40	Spur, 15 ft. above draw, projects SE.
	Desc. gradually.
39.92	No trace of the old ¼ sec. cor. found.
	On SW. slope, 20 ft. below spur.
	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 31 | S 32 1916
	from which
	A cedar, 8 ins. dia., bears S. 15° E., 26 lks. dist., mkd. ¼ S 32 BT.
	A cedar, 6 ins. dia., bears S. 52° W., 51 lks. dist., mkd. ¼ S 31 BT.
50.00	No trace of the old witness cor. to ¼ sec. cor. found.
55.00	Draw, 100 ft. below the ¼ sec.cor., drains SE.
	Asc. gradually.
55.00	Spur, 20 ft. above draw, projects SE.
	Desc. gradually.
70.00	Swale, 55 ft. below spur, drains SE.
	Asc. gradually.
70.60	Old road bears E. and W.
79.84	The cor. of secs. 5, 6, 31 and 32, 10 ft. above swale.
	Land, rolling mountainous, general SE. drainage.
	Soil, loose clay and sand loam, and boulders.
	Undergrowth, scattered sagevrush and yellow top, fair grazing.
	Timber, scattered cedar and pinon.

Subdivision of T. 41 S., R. 2 W.

Chains	
	From cor. of secs. 29, 30, 31 and 32, West, on sectional correction line bet. secs. 30 and 31,
	Over rolling mountainous land, asc. through scattered cedar and pinon timber, and scattered shadscale, sage a and buffalo grass undergrowth.
1.10	Spur, 15 ft. above the cor., projects S.
	Desc. abruptly.
3.80	Ravine, 75 ft. below spur, drains S.
	Asc. abruptly.
6.80	Spur, 100 ft. above ravine, projects S.
	Desc. gradually.
9.40	Head of draw, 25 ft. below spur, drains S.
	Asc.
15.60	Ridge, 40 ft. above draw, bears N. and S.
	Desc.
20.50	Draw, 115 ft. below ridge, drains SW.
	Asc. gradually.
22.00	Spur, 66 ft. above draw, projects SW.
	Desc.
30.50	Draw, 30 ft. below spur, drains S.
	Asc.
33.80	Ridge, 15 ft. above draw, bears NE. and SW.
	Desc.
39.40	Ravine, 105 ft. below ridge, drains SW.
	Asc. gradually.
40.00	On SE. slope, 20 ft. above ravine.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	$\frac{\frac{1}{4}\text{ S 30}}{\text{S 31}}$ 1916
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
41.80	Spur, 50 ft. above the ¼ sec. cor., projects SW.
	Desc.
43.50	Ravine, 60 ft. below spur, drains S.

Subdivision of T. 41 S., R. 2 W.

Chains	
	Ascend abruptly.
52.80	Ridge, 90 ft. above ravine, bears N. and S.
	Descend.
59.70	Draw, 20 ft. below ridge, drains S.
	Ascend gradually.
68.10	Spur, 70 ft. above draw, projects S.
	Descend gradually.
72.40	Head of ravine, 10 ft. below spur, drains S.
	Ascend gradually.
79.46	On E. slope, 70 ft. above head of ravine.
	Intersect W. bdy. of tp. 72 lks. S. of the cor. of secs. 25 and 36, heretofore described.
	At intersection.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for the corner of secs. 30 and 31, with brass cap marked

T41S
R2W
S30

S31

1916

from which

A cedar, 20 ins. dia., bears N. 23° E., 95 lks. dist., marked T41 S R2W S30 BT

A pinon, 14 ins. dia., bears S. 66½° E., 121 lks. dist., marked T41S R2W S31 BT

Land, rolling mountainous, general S. drainage from E. and W. slopes.

Soil, light sand and heavy clay loam, sandstone and conglomerate boulders.

Undergrowth, scattered shadscale, sage and buffalo grass.

Timber, cedar and pinon.

Fair grazing.

Subdivision of T. 41 S., R. 2 W.

Chains	
	From the cor. of secs. 29, 30, 31, and 32,
	N. 0°12' W., bet. secs. 29 and 30.
	Over mountainous land, ascend through scattered cedars
	and pinon timber and scattered sage, service berry
	and yellow top undergrowth.
8.60	Ridge, 95 ft. above the sec. cor., bears E. and W.
	Descend.
13.00	Draw, 45 ft. below ridge, drains E.
	Ascend abruptly
26.00	Ridge, 200 ft. above draw, bears E. and W.
	Descend abruptly.
29.40	Head of draw, 70 ft. below ridge, drains E.
	Ascend gradually.
32.70	Ridge, 10 ft. above draw, bears E. and W.
	Descend gradually.
40.00	On N. slope, 40 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in
	ground, for $\frac{1}{2}$ sec. cor., with brass cap marked

$\frac{1}{4}$

S 30 | S 29

1916

from which

A cedar, 18 ins. dia., bears N. 48°30' E., 55 lks. dist., marked $\frac{1}{4}$ S 29 BT

A pinon, 18 ins. dia., bears N. 36°30' W., 44 lks. dist., marked $\frac{1}{4}$ S 30 BT

Chains	
42.10	Draw, 100 ft. below ¼ sec. cor., drains NE.
	Asc. abruptly.
44.70	Spur, 25 ft. above draw, projects NE.
	Desc. abruptly.
47.50	Ravine, 80 ft. below spur, drains NE.
	Asc. abruptly.
51.80	Spur, 35 ft. above ravine, projects NE.
	Desc. abruptly.
61.20	Ravine, 210 ft. below spur drains NE.
	Asc. abruptly.
67.40	Ridge, 300 ft. above ravine, bears NE. and SW.
	Desc. abruptly.
69.20	Draw, 65 ft. below ridge, drains NE.,
	Asc. abruptly.
71.30	Ridge, 65 ft. above draw, bears E. and W.
	Desc. gradually.
74.60	Ravine, 85 ft. below ridge, drains E.
	Asc. abruptly.
77.00	Spur, 25 ft. above ravine, projects E.
	Desc. abruptly.
80.00	On N. slope, 50 ft. below spur,

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.

T41 S R 2 W

S 19 | S 20

S 30 | S 29

1916

from which

A pinon, 10 ins. dia., bears N. 20° E., 29 lks. dist., mkd. T 41 S R 2 W S 20 BT.

A cedar, 30 ins. dia., bears S. 74° E., 30 lks. dist., mkd. T 41 S R 2 W S 29 BT.

A cedar, 36 ins. dia., bears S. 69° W., 28 lks.

Chains	
	dist., mkd. T 41 S R 2 W S 30 BT.
	A cedar, 12 ins. dia., bears N . 66° W.; 78 lks. dist., mkd. T 41 S R 2 W S 19 BT.
	Land, rolling and rough mountainous, general NE. drainage from steep NW. and SE. slopes.
	Soil. loose sand, heavy clay, gravel and sandstone boulders, on sandstone formation.
	Undergrowth, scattered sage, service berry and yellow top, fair grazing.
	Timber, scattered cedar and pinon.

	East, on random line, bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
77.15	Intersect N. and S. line 7 lks. S. of the restored cor. of secs. 20, 21, 28 and 29.
	Thence,
	S. 89°57' W., on true line, bet. secs. 20 and 29.
	Over rolling mountainous land, asc. through cedar and pinon timber and scattered sage, service berry and yellow top undergrowth.
3.70	Spur, 10 ft. above the cor., projects N. Desc.
5.75	Draw, 35 ft. below spur, drains N. for 2 chs., thence NE. Asc. abruptly.
6.500	Spur, 70 ft. above draw, projects NE. Desc.
14.15	Draw, 350ft. below spur, drains N. Asc. abruptly.
33.05	Spur, 210 ft. above draw, projects N. Desc. gradually.
35.15	Draw, 35 ft. below spur, drains N. Asc. gradually.
37.15	On E. slope, 30 ft. above draw, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the

Chains	
	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, N. of cor.
	No suitable bearing trees available.
41.45	Spur, 20 ft. above the ½ sec. cor., projects N.
	Desc. gradually.
49.35	Draw, 50 ft. below spur, drains NE.
	Asc. gradually.
61.05	Spur, 35 ft. above draw, projects NE.
	Desc. gradually.
62.35	Draw, 30 ft. below spur, drains NE. 5 chs. thence E.
77.15	The cor. of secs. 19, 20, 29 and 30, 150 ft. above draw.
	Land, rolling mountainous, general NE. to E. drainage.
	Soil, deep sand, clay, gravel and sandstone boulders, on sandstone formation.
	Undergrowth, scattered sage, service berry and yellow top, fair geazing.
	Timber, cedar and pinon.

	West, on true line, bet. secs. 19 and 30.
	It being impossible to chain west from this cor. on account of impassable sandstone cliff, set a point on line, west, and, there being no suitable place for a base at foot of cliffs, proceed to point on top of cliff, from which lay off a base, north, 11.03 chs., to a point from which the cor. of secs. 19, 20, 29 and 30 bears S.58°01'E.
	The dist. is therefore
	base x tan 58°01' = 11.03 x 1.60137 = 17.66 chs.
	From the cor. of secs. 19, 20, 29 and 30, asc. abruptly over sandstone cliffs and ledges bear N. and S., through scattered cedar and pinon timber and scattered sage.

Chains

17.66 Triangulation point on top of sandstone cliff, 1000 ft. above the sec. cor., bears N. and S.

Thence, over rolling mountainous land, asc. gradually through dense cedar and pinon timber, and enter service berry, brigham tea and deer brush undergrowth, bears N. and S.

30.30 Top of ridge, 45 ft. above top of cliff, bears N. and S. Desc. gradually.

40.00 On W. slope, 50 ft. below top of ridge,

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

$$\frac{S\ 13}{\frac{1}{4}}$$

S30
1916

from which

A cedar, 12 ins. dia., bears N. 9° E., 35 lks. dist., mkd. ¼ S 13 BT.

A pinon, 14 ins. dia., bears S. 17° W., 11 lks. dist., mkd. ¼ S 30 BT.

73.30 Head of ravine, 200 ft. below the ¼ sec. cor., drains NW. Asc. gradually.

75.00 Spur, 25 ft. above head of ravine, projects NW. Desc. gradually.

79.33 On SW. slope, 20 ft. below spur,

Intersect west bdy. of Sp. at 68 lks. S. of the cor. of secs. 24 and 25, heretofore described.

At intersection,

Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the ground to solid rock and 6 ins. in a mound of stone, 3 ft. base, for the cor. of secs. 13 and 30, with brass cap mkd.

T 41 S
R 2 W
S 13

S 30
1916

Subdivision of T. 41 S., R. 2 W.

Chains

from which

A pinon, 10 ins. dia., bears N. 49° E., 32 lks. dist., mkd. T 41 S R 2 W S 19 BT.

A pinon, 12 ins. dia., bears S. 32°30' E., 27 lks. dist., mkd. T 41 S R 2 W S 30 BT.

Land, E half rough and broken mountainous land, E. drainage, W. half rolling mountainous, general W. drainage.

Soil, heavy sandy loam, sandstone boulders, outcroppings, cliffs and ledges.

Undergrowth, sagebrush, deer brush, brigham tea, and service berry, fair grazing.

Timber, cedar and pinon.

The true point for ¼ sec. cor. on west bdy. of sec. 30 falls on inaccessible sandstone ledges, where post cannot be set. This point is 70 lks. south of the true point for ¼ sec. cor. on E. bdy. sec. 25, or, 4.40 chs. N. of the witness cor. mkd. for both ¼ S 25 and ¼ S 30. This cor. is therefore a witness cor. to both points for ¼ sec. cors.

From cor. of secs. 19, 20, 29, and 30,
N. 0°12' W., bet. secs. 19 and 20.

Over rough and broken mountainous land, desc. through scattered cedar and pinon timber and scattered sage and yellow top undergrowth.

1.50 Head of draw, 60 ft. below the cor., drains NE.
Asc. abruptly.

3.60 Spur 15 ft. above draw, projects NE.
Desc. gradually.

8.00 Head of ravine, 60 ft. below spur, drains NE.
Asc. abruptly.

16.80 Spur, 105 ft. above head of ravine, projects E.
Desc. gradually.

23.00 Desc. abruptly, bears E. and W.

Subdivision of T. 41 S., R. 2 W.

Chains	
30.10	Ravine, 210 ft. below spur, drains SE.
	Asc. abruptly over sandstone ledges, bear NW. and SE.
40.00	On steep SW. slope, 400 ft. above ravine,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S19 | S20 1916
	raise a mound of stone, 3 ft. base, 2 ft. high, W of cor.
	No suitable trees within limits.
46.30	Top of sandstone ledges, bear E. and W., 200 ft. above the ¼ sec. cor.
	Desc. gradually over N. slope.
54.00	Draw, 20 ft. below top of ledges, drains SW.
	Asc. gradually.
70.00	Spur, 135 ft. above draw, projects SW.
	Desc gradually.
77.20	Draw 35 ft. below spur, drains W.
	Asc. gradually.
80.00	On S. slope, 25 ft. above draw,
	Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to solid rock and 20 ins. in mound of stone, 4 ft. base, for the cor. of secs. 19 and 20, only,
	with brass cap mkd.
	T 41 S R 2 W S 19 | S 20 1916
	from which
	A pinon, 12 ins. dia., bears S. 11° E., 125 lks. dist., mkd. T 41 S R 2 W S 20 BT.
	A pinon, 8 ins. dia., bears S. 11° W., 153 lks. dist., mkd. T 41 S R 2 W S 19 BT.
	Land, rough and broken mountainous, S. half drains SE.

Chains	
	and N. half drains NE:
	Soil, heavy sandy loam, sandstone boulders, ledges and sliderock, sandstone formation.
	Undergrowth, sage and yellow top; poor grazing.
	Timber, cedar and pinon.

	N. 89°57' E. on random line, on N. bdy. sec. 20.
40.00	Set temp. ¼ sec. cor.
77.30	Intersect N. and S. line 4 lks. S. of the restored cor. of secs. 20 and 21.
	Thence, S. 89°55' W., on true line, on N. bdy. sec. 20.
	Over rough mountainous land, desc. through cedar and pinon timber and scattered sagebrush, shadscale, deer brush and yellow top undergrowth.
1.43	The cor. of secs. 16 and 17 is later set at this point See line bet. secs. 16 and 17.
4.80	Ravine, 65 ft. below the sec. cor., drains NE. Asc. abruptly over SW. slope.
33.30	Spur, 625 ft. above ravine; projects NE. Desc. gradually.
36.30	Draw, 35 ft. below spur, drains NE. Asc. abruptly.
37.30	On SW. slope, 10 ft. above draw, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor. on N. bdy. sec. 20, with brass cap mkd.
	¼ S 20 1316
	from which
	A cedar, 10 ins. dia., bears S. 16°30' E., 41 lks. dist., mkd. ¼ S 20 BT.
	A cedar, 16 ins. dia., bears S. 13° W., 26 lks. dist., mkd. ¼ S 20 BT.

Subdivision of T. 41 S., R. 2 W.

Chains	
41.44	The ¼ sec. cor. on S. bdy. sec. 17 is later set at this point.
53.50	Spur, 350 ft. above the ¼ sec. cor., projects NE.
	Desc. gradually.
60.50	Draw, 10 ft. below spur drains NE.
	Asc.
66.30	Spur, 80 ft. above draw, projects S.
	Desc.
72.10	Head of draw, 25 ft. below spur, drains SW.
	Asc.
74.30	Ridge, 65 ft. above head of draw, bears NE. and SW.
	Desc.
77.30	The cor. of secs. 19 and 20, 20 ft. below ridge.
	Land, rough mountainous, general NE. drainage on E. 60 chs., SW. drainage on remainder.
	Soil, loose sandy loam, sandstone ledges, boulders, and outcroppings.
	Undergrowth, scattered sage shadscale, yellow top and deer brush, fair grazing.
	Timber, cedar and pinon.

	West, on N. bdy. sec. 19.
	Over rolling mountainous land, desc gradually through cedar and pinon timber and scattered sage and deer brush and yellow top.
4.09	The cor. of secs. 17 and 18 is later set at this point.
	See line bet. secs. 17 and 18.
10.80	Draw, 125 ft. below the cor., drains S.
	Asc. gradually.
19.80	Spur, 40 ft. above draw, projects SW.
	Desc. gradually.
28.30	Draw, 230 ft. below spur, drains NW.
	Asc. gradually.
30.30	Spur, 20 ft. above draw, projects NW.
	Desc. gradually.

Subdivision of T. 41 S., R. 2 W.

Chains	
35.60	Same draw, 35 ft. below spur, drains NW.
	Asc.
40.00	On SW. slope, 10 ft. above draw,
	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
	1916
	from which
	A pinon, 16 ins. dia., bears S. 42° E., 64 lks. dist., mkd. ¼ S 19 BT.
	A pinon, 14 ins. dia., bears S. 50° W., 47 lks. dist., mkd. ¼ S 19 BT.
44.09	The ¼ sec. cor. for sec. 18 is later set at this point.
64.40	Re-cross draw, 74 ft. below the ¼ sec. cor., drains SW.
	Asc.
66.10	Spur, 50 ft. above draw, projects S.
	Desc. gradually.
72.20	Draw, 75 ft. below spur, drains S.
	Asc. gradually.
78.75	Intersect west bdy. of Tp. 80 lks. S. of the cor. of secs. 13 and 24.
	At intersection, 45 ft. above draw,
	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 the cor. of secs. 18 and 19, with brass cap mkd.
	T 41 S.
	R 2 W.
	S 18
	S 19
	1916
	from which
	A cedar, 8 ins. dia., bears N. 55° E., 60 lks. dist., mkd. T 41 S R 2 W S 18 BT.
	A pinon, 6 ins. dia., bears S. 47° E., 119 lks.

Subdivision of T. 41 S., R. 2 W.

Chains	
	dist., mkd. T 41 S R 2 W S 19 BT.
	Land, rolling mountainous, general westerly drainage.
	Soil, deep sand, sandstone boulders and outcroppings, sandstone formation.
	Undergrowth, sage and deer brush, yellow top, fair grazing.
	Timber, cedar and pinon.

	At a point 74 lks. S. of the ¼ sec. cor. on E. bdy. sec. 24, which point is midway bet. the cor. of secs. 19 and 30 and the cor of secs. 18 and 19,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor. for sec. 19, with brass cap, mkd.
	¼ S 19 1916
	from which
	A pinon, 12 ins. dia., bears N. 40°15' E., 16 lks. dist., mkd. ¼ S 19 BT.
	A cedar, 10 ins. dia., bears S. 52°40' E., 29 lks. dist., mkd. ¼ S 19 BT.

	From cor. of secs. 8, 9, 16, and 17,
	West, on sectional correction line, bet. secs. 8 and 17.
	Over mountainous land, desc. through cedar and pinon timber and scattered sage, deer and service berry undergrowth.
11.30	Head of ravine, 30 ft. below the cor., drains S.
	Asc. gradually.
22.80	Spur, 50 ft. above ravine, projects S.
	Desc. gradually.
33.45	On W. slope, 50 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for witness cor. to ¼ sec. cor., with brass cap mkd.

Chains

WC ¼ S 8 / S 17 / 1916

from which

A pinon, 30 ins. dia., bears S. 65° E., 9 lks. dist., mkd. WC ¼ S 17 BT.

A pinon, 8 ins. dia., bears N. 69° W., 40 lks. dist., mkd. WC ¼ S 8 BT.

The true point for the ¼ sec. cor. will fall on sandstone ledges where the post cannot be set.

To pass inaccessible ledges, offset as follows:

South, 15.00 chs.,

West 40.00 chs.,

North, 15.00 chs., to

73.45 On true line, at west base of ledges, bear N. and S.

Desc:

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor of secs. 7, 8, 17 and 18, with brass cap mkd.

T 41 S R 2 W

S 7	S 8
S 18	S 17

1916

from which

A pinon, 8 ins. dia., bears N. 60°30' E., 48 lks. dist., mkd. T 41 S R 2 W S 8 BT.

A pinon, 16 ins. dia., bears S. 66° E., 85 lks. dist., mkd. T 41 S R 2 W S 17 BT.

A pinon, 14 ins. dia., bears S. 36° W., 23 lks. dist., mkd. T 41 S R 2 W S 18 BT.

A cedar, 10 ins. dia., bears N. 80° W., 142 lks. dist., mkd. T 41 S R 2 W S 7 BT.

Land, rough mountainous, general N. drainage.

Soil, loose sandy loam, sandstone ledges and outcroppings, sandstone formation.

Undergrowth, scattered sage, deer and service berry.

Chains	
	Timber, cedar and pinon.
	S. 0°03' E., on true line, bet. secs. 17 and 18.
	Over mountainous land, asc. through cedar and pinon timber and scattered sage, service berry and brigham tea under-growth.
25.00	Spur, 95 ft. above the cor., projects SW.
	Desc. gradually.
34.60	Draw, 105 ft. below spur, drains W.
	Asc. gradually.
40.00	On N. slope, 20 ft. above draw,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	S 18 | ¼ | S 17
	1916
	from which
	A cedar, 12 ins. dia., bears S. 78°30' E., 137 lks. dist., mkd. ¼ S 17 BT.
	A cedar, 14 ins. dia., bears S. 24° W., 72 lks. dist., mkd. ¼ S 18 BT.
62.00	Spur, 180 ft. above the ¼ sec. cor., projects W.
	Desc. abruptly.
65.50	Head of ravine, 30 ft. below spur, drains W.
	Asc. abruptly.
68.00	Spur, 35 ft. above head of ravine, projects W.
	Desc. abruptly.
69.50	Draw, 20 ft. below spur, drains W.
	Asc. abruptly.
75.00	Spur, 100 ft. above draw, projects W.
	Desc. abruptly over S. slope.
78.62	On S. slope, 50 ft. below spur,
	Intersect N. bdy. sec. 19 at 4.03 chs. W. of the cor. of secs. 19 and 20. At intersection,

Subdivision of T. 41 S., R. 2 W.

Chains

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 17 and 18, with brass cap mkd.

T 41 S R 2 W
S 18 | S 17

1916

from which

A cedar, 10 ins. dia., bears N. 49° E., 77 lks. dist., mkd. T 41 S R 2 W S 17 BT.

A cedar, 12 ins. dia., bears N. 38°30' W., 61 lks. dist., mkd. T 41 S R 2 W S 18 BT.

Land, rolling mountainous general W. and SW drainage.

Soil, deep sandy loam, broken sandstone slide rock and boulders, and sandstone ledges and outcroppings.

Undergrowth, sage, brigham tea and service berry brush, fair grazing.

Timber, cedar and pinon.

At a point 4.14 chs. S. 89°55' W. of the ¼ sec. cor. for sec. 20, which point is midway between the cor. of secs. 16 and 17 and the cor. of secs. 17 and 18,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor. on S. bdy. sec. 17, with brass cap mkd.

¼ S 17

1916

from which

A cross (X) on sandstone ledge mkd. ¼ S 17 BO bears N. 83° W., 17 lks. dist.

No bearing trees available.

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

Subdivision of T. 41 S., R. 2 W.

Chains

At a point 4.09 chs. west of the ¼ sec. cor. on N. bdy. sec. 19, which point is 40.00 chs. west of the cor. of secs. 17 and 18,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor. on S. bdy. sec. 18, with brass cap mkd.

¼ S 18

1916

from which

A cedar, 8 ins. dia., bears N. 62°30' E., 29 lks. dist., mkd. ¼ S 18 BT.

A pinon, 18 ins. dia., bears N. 70°30' W., 102 lks. dist., mkd. ¼ S 18 BT.

From cor. of secs. 7, 8, 17, and 18,

West, on sectional correction line, bet. secs. 7 and 18.

From the cor. of secs. 7, 8, 17 and 18, the U. S. G. S. triangulation station on Molly's Nipple bears N. 3°29'W.

See line bet. secs. 5 and 6 for the other tie.

Desc. over rolling mountainous land through cedar and pinon timber and sage deer and service berry brush and enter scattered oak brush, bears NW. and SW.

14.60 Draw, 80 ft. below the cor., drains S.

Asc. gradually.

23.10 Spur, 45 ft. above draw, projects S.

Desc. gradually.

38.80 Ravine, 160 ft. below spur, drains S.

Asc. abruptly.

40.00 On steep E. slope, 50 ft. above ravine,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ½ sec. cor., with brass cap mkd.

S 7

¼

S 18

1916

from which

Subdivision of T. 41 S., R. 2 W.

Chains.	
	A pinon, 30 ins. dia., bears N. 28° E. 25 lks. dist., mkd. ¼ S 7 B T
	A pinon, 14 ins. dia., bears S. 58° 30' E. 49 lks. dist., mkd. ¼ S 18 B T
59.40	Ridge, 235 ft. above the ¼ sec. cor., bears N. and SW.
	Desc. gradually.
72.90	Desc. abruptly, bearing N. and SE.
74.70	On steep W. slope, 200 ft. below ridge,
	Intersect west bdy. of Tp. at 2.20 chs. S. of the cor. of secs. 12 and 13. At intersection,
	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, 3 ft. base for the cor. of secs. 7 and 18, with brass cap mkd.

T 41 S
R 2 W
S 7
S 18
1916

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

No suitable bearing trees within limits.

Land, rolling mountainous; general S. drainage.

Soil, deep, loose sandy loam, sandstone boulders, ledges and outcroppings.

Undergrowth, sage, service berry, deer and oak brush.

Fair grazing.

Timber, cedar and pinon.

At a point 2.20 chs. S. of the ¼ sec. cor. on E. bdy. sec. 13 which point is 40.00 chains south of the corner of sections 7 and 18,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., on W. bdy. sec. 18, with brass cap mkd.

Chains.	
	$\frac{1}{4}$ S 18 1916
	from which
	A cedar, 8 ins.dia., bears N. 1° 22' E. 104 lks. dist., mkd. $\frac{1}{4}$ S 18 B T
	A cedar, 16 ins.dia., bears N. 40° 59' E. 12 lks. dist., mkd. $\frac{1}{4}$ S 18 B T
	From cor.of secs.7, 8, 17, and 18,
	N. 0° 03' W. bet.secs.7 and 8,
	Over mountainous land; desc. through scattered cedar and pinon timber and sage, deer, and oak brush undergrowth.
12.50	Draw, 260 ft.below the cor., drains N. 20° E.
	Asc.
28.10	Spur, 70 ft.above draw, projects NE.
	Desc.
37.80	Draw, 100 ft.below spur, drains S. 60° E.
	Asc.
40.00	On SW. slope, 20 ft.above draw,
	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 7 $\frac{1}{4}$ S 8 1916
	from which
	A pinon, 10 ins.dia., bears N. 46° 30' W. 20 lks. dist., mkd. $\frac{1}{4}$ S 7 B T
	A pinon, 8 ins.dia., bears S. 23° E. 66 lks.dist. mkd. $\frac{1}{4}$ S 8 B T
	From this cor., the triangulation station on Molly's Nipple, bears N. 15° 17' W.
40.40	Spur, 30 ft.above the $\frac{1}{4}$ sec.cor., projects E.
	Desc.
53.70	Ravine, 200 ft.below spur, drains N. 70° E.
	Asc.

Subdivision of T. 41 S., R. 2 W.

Chains	
66.25	Point of sandstone spur, 130 ft. above ravine, projects E. Desc.
73.20	Head of gulch, 30 ft. below spur, drains S. 70° E. Asc.
80.00	Point for the cor. of secs. 5, 6, 7, and 8 falls on sandstone ledges where post cannot be set.
80.20	On top of sandstone ledge, 100 ft. above head of gulch, bears E. and W.

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 3 ft. base, for witness cor. to the cor. of secs. 5, 6, 7 and 8, with brass cap mkd.

T 41 S R 2 W

S 6	S 5
W 7	S 8

WC

1916

from which

A pinon, 6 ins. dia., bears N. 46° E., 14 lks. dist., mkd. WC T 41 S R 2 W S 5 BT.

A pinon, 8 ins. dia., bears S. 7° E., 27 lks. dist., mkd. WC T 41 S R 2 W S 5 BT.

A pinon, 8 ins. dia., bears S. 75° W., 65 lks. dist., mkd. WC T 41 S R 2 W S 6 BT.

A pinon, 8 ins. dia., bears N. 43° W., 70 lks. dist., mkd. WC T 41 S R 2 W S 6 BT.

Land, mountainous, general E. drainage.

Soil, loose sand, sandstone boulders, slide rock, ledges and outcroppings.

Undergrowth, sage, deer and oak brush, fair grazing.

Timber, cedar and pinon.

From the true point for the cor. of secs. 5, 6, 7 and 8, East, on random line, bet. secs. 5 and 8,

Subdivision of T. 41 S., R. 2 W.

Chains	
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 15 lks. S. of the true point for the cor. of secs. 4, 5,,8 and 9.
	Thence,
	S. 89°54' W., on true line, bet. secs. 5 and 8., from the true point for. cor.
	Over mountainous land, asc. through cedar and pinon timber and scattered sage undergrowth.
11.30	Spur, 180 ft. above the cor. point, projects S.
	Desc.
24.40	Draw, 50 ft. below spur, drains S. 20° W.
	Asc.
36.80	Spur, 90 ft. above draw, projects S.
	Desc.
39.95	On W. slope, 50 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	$\frac{\frac{1}{4}\ \text{S 5}}{\text{S 8}}$ 1916
	from which
	A pinon, 10 ins. dia., bears N. 18° W., 80 lks. dist., mkd. ¼ S 5 BT.
	A pinon, 8 ins. dia., bears S. 35° E., 65 lks. dist., mkd. ¼ S 8 BT.
46.40	Draw, 50 ft. below the ¼ sec. cor., drains S. 20° W.
	Asc.
56.30	Asc. over sandstone ledge, 100 ft. high, bears NE. and SW.
60.00	Spur, 220 ft. above draw, projects S. 30° E.
	Desc.
72.40	Draw, 100 ft. below spur, drains SE.
	Asc.
78.30	Ridge, 30 ft. above draw, bears N. 60° W. and S. 60° E.
	Desc.
79.90	The true point for the cor. of secs. 5, 6, 7 and 8, 10 ft.

Subdivision of T. 41 S., R. 2 W.

Chains	
	below ridge.
	Land, mountainous, general S. and SE. drainage from steep slopes.
	Soil, deep, loose sand, sandstone slide rock, boulders and ledges.
	Undergrowth, sage.
	Timber, cedar and pinon.

	From the true point for the cor. of secs. 5, 6, 7 and 8, West, on true line, bet. secs. 6 and 7.
	Over mountainous land, desc. through cedar and pinon timber and scattered sage undergrowth.
4.50	Draw, 60 ft. below point for cor., drains SE.
	Enter scattered deer and oak brush, bears NW. and SW.
	Asc.
13.60	Spur, 220 ft. above draw; projects SE.
	Desc.
20.40	Draw, 80 ft. below spur, drains SE.
	Asc.
29.10	Ridge, 145 ft. above draw, bears N. and S.
	Desc. gradually.
40.00	On W. slope, 40 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.
	S 6 ¼ S 7 1916
	from which
	A cedar, 6 ins. dia., bears N. 21° E., 147 lks. dist., mkd. ¼ S 6 BT.
	A pinon, 10 ins. dia., bears S. 80° W., 363 lks. dist., mkd. ¼ S 7 BT.
42.70	Swale, 10 ft. below the ¼ sec. cor., drains SW.
	Asc.

Subdivision of T. 41 S., R. 2 W.

Chains	
45.00	Enter dense cedar and pinon timber, bears N. and W.
48.00	Spur, 30 ft. above swale, projects N.
	Dese.
52.00	Draw, 20 ft. below spur, drains S. 20° E.,
	Asc.
54.00	Spur, 70 ft. above draw, projects W.
	Timber becomes scattered, bears W. and S.
	Dese.
74.00	Draw, 100 ft. below spur, drains SW.
	Asc.
74.73	On E. slope, 30 ft. above draw,
	Intersect West bdy. of Tp at 3.74 chs. S. of the cor. of secs. 1 and 12, heretofore described. At intersection,
	at an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 6 and 7, with brass cap mkd.

T 41 S
A 2 W
S 6
E 7
1916

from which

A pinon, 6 ins. dia., bears N. 75° E., 65 lks. dist., mkd. T 41 S R 2 W S 6 B7.

A pinon, 10 ins. dia., bears S. 15° E., 60 lks. dist., mkd. T 41 S R 2 W S 7 B7.

Land, rough mountainous, general SE. and SW. drainage.

Soil, deep and loose sandy loam, sandstone slide rock, ledges and boulders.

Undergrowth, sage, oak and deer brush.

Timber, cedar and pinon.

At a point 2.27 chs. S. of the 1/4 sec. cor. on E. bdy. sec. 12, which point is midway between the cor. of secs. 6 and 7 and the cor. of secs. 7 and 18,

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

Chains

ground, for ¼ sec. cor. on W. bdy. sec. 7, with brass cap mkd.

$\frac{1}{4}$
S 7
1916

from which

A pinon, 14 ins. dia., bears N. 32° E., 31 lks. dist., mkd. ¼ S 7 BT.

A pinon, 12 ins. dia., bears S. 18° E., 73 lks. dist., mkd. ¼ S 7 BT.

At a point 2.34 chs. S. of the ¼ sec. cor. on E. bdy. sec. 1, which point is 40.00 chs. N. of the cor. of secs. 6 and 7,

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

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

from which

A pinon, 8 ins. dia., bears N. 41°00' E., 288 lks. dist., mkd. ¼ S 6 BT.

No other bearing tree suitable for marking.

Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.

From the true point for the cor. of secs. 5, 6, 7 and 8, N. 0°03' W., on true line, bet. secs. 5 and 6.

.20 The witness cor. to cor. of secs. 5, 6, 7, and 8.

Thence over mountainous land, asc. through cedar and pinon timber and scattered sage and deer brush.

13.00 Ridge, 160 ft. above the witness cor., bears NW. and SE.

Subdivision of T. 41 S., R. 2 W.

Chains

Desc.

22.30 Draw, 145 ft. below ridge, drains S. 80° E.

Asc.

32.60 Ridge, 66 ft. above draw, bears E. and W.

Desc.

40.00 On N. slope, 130 ft. below ridge,

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.

¼

S 6 | S 5

1916

from which

A pinon, 12 ins. dia., bears S. 72° E., 27 lks. dist., mkd. ¼ S 5 BT.

A pinon, 8 ins. dia., bears S. 67° W., 88 lks. dist., mkd. ¼ S 6 BT.

42.30 Draw. 130 ft. below the ¼ sec. cor., drains N. 70° E.

Asc.

50.90 Ridge, 80 ft. above draw, bears N. 70° E. and S. 70° W.

Desc.

61.40 Gulch, 120 ft. below ridge, drains N. 70° E.

Asc.

64.20 Asc. over sandstone ledge, 60 ft. high, bears NE. and SW.

67.20 Ridge, 90 ft. above gulch, bears N. 70° E. and W.

Desc.

80.30 On NE. slope, 260 ft. below ridge,

Intersect the Eighth St. Par. S., 10.54 chs. N. 89°54' W. of the St. ¼ sec. cor. on S bdy. sec. 32, heretofore described.

At intersection,

Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground to solid rock and 6 ins. in a mound of stone, 2 ft. base, for closing cor. of secs. 5 and 6, with brass cap mkd.

Chains

T 40 S R 2 W
S 32

S 6	S 5
T 41 S	R 2 W

6 C
1916

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

No suitable bearing trees within limits.

Land, rough and broken mountainous, general E. drainage from high butte.

Soil, loose sand, sandstone slide rock, boulders, ledges and outcroppings.

Undergrowth, sage and deer brush, scanty grazing.

Timber, cedar and pinon.

T 41 S., R. 2 W.

Latitudes, Departures and Closing Errors.

Line Designated	Course	Distance Chs.	Latitudes N. Chs.	Latitudes S. Chs.	Departures E. Chs.	Departures W. Chs.
East Boundary.	N. 0°26'E.	39.54	39.54	.....	00.30	.....
" "	N. 2°15'E.	42.69	42.66	.....	1.68	.....
" "	North....	165.83	165.83	.....	.....	.....
North Boundary or 8th Stand. Par. S.	West.....	2.60	.....	.....	.....	2.60
" "	N.89°25'W.	40.11	0.41	.....	.....	40.11
" "	S.89°37'W.	40.08	.....	0.27	.....	40.08
" "	N.89°48'W.	148.38	0.52	.....	.....	148.38
" "	S.89°42'W.	39.64	.....	0.21	.....	39.64
" "	N.89°57'W.	40.14	0.04	.....	.....	40.14
" "	S.89°59'W.	40.11	.....	0.01	.....	40.11
" "	N.89°58'W.	40.57	0.02	.....	.....	40.57
" "	N.89°54'W.	39.38	0.07	.....	.....	39.38
" "	N.89°54'W.	40.23	0.07	.....	.....	40.23
" "	West.....	5.71	.....	.....	.....	5.71
West Boundary	South....	484.73	.....	484.73	.....	.....
South Boundary	S.89°30'E.	39.63	.....	0.35	39.63	.....
" "	S.89°44'E.	39.77	.....	0.19	39.77	.....
" "	S.89°21'E.	39.61	.....	0.45	39.61	.....
" "	N.88°36'E.	39.98	0.9	.....	39.98	.....
E.bdy.sec.32	N. 4°16'W.	40.01	39.90	.....	.....	2.98
" "	N. 0°46'E.	39.58	39.58	.....	0.53	.....
E.bdrs.secs.29&20	N. 0°11'W.	159.97	159.97	.....	.....	0.51
N.bdy.sec.21	N.89°56'E	79.89	0.09	.....	79.89	.....
N. bdy. sec. 22	N.89°55'E.	79.31	0.12	.....	79.31	.....
N. bdy. sec. 23	S.89°52'E.	78.88	.....	0.19	78.88	.....
N. bdy. sec. 24	S.87°12'E.	79.93	.....	3.91	79.83	.....
Convergency.....	.....	.....	.....	.....	.....	0.37
Totals			489.80 489.7	490.31 489.80	479.41	480.81 479.41
Error in lat.....				0.51		
Error in dep.....						1.40

General Description of T. 41 S., R. 2 W.

The land embraced on the area of this township newly surveyed is generally very rugged and mountainous, ranging from sheer sandstone cliffs and ledges to broken clay hills, with general easterly and northerly drainage into Paria Creek. Practically no farming is possible anywhere on the area surveyed.

On the higher portions, in the north and west, the soil is merely deep, loose sand, mixed with sandstone slide rock, broken boulders, and on sandstone ledges and outcroppings. The soil on the lower portion is made up of a heavy dense clay, with variegated colors, and supports little vegetation, being saturated with gypsum.

Scattered growths of scrubby sage, oak brush, deer brush, yellow top and service berry brush occur on the Tp., with a scanty growth of grazing grasses, mostly bunch and grammar grass.

A scattered growth of cedar and pinon timber, denser in the higher regions, is found, and some scattered, scrubby mahogany was encountered along the northern part.

The water in Paria River, although abundant, is poor for culinary purposes, being charged with gypsum and alkali, and is muddy. Spring branches of slightly alkaline water were found in secs. 4 and 5, but this water is very difficult of access. No other water was encountered.

No evidence of mineral was found, although it is believed that the blue clays carry flour gold.

No settlers were living within the area surveyed.

The only improvement found was a brush fence in sec. 6.

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Page

NE¼ sec. 2 Paria River.
W½ SW¼ sec. 1 " "
E½ NW¼ sec. 12 " "
SE¼ sec. 12 " "
E½ NE¼ sec. 5 spring branch.
NW¼ NW¼ sec. 4 " "
N½ NE¼ sec. 4 " "

Jos. C. Thomas
United States Surveyor.

Volume
#
R0434

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Page

4—080

BOOK A-434

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 .....

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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~~ OF UNITED STATES SURVEYOR.

I, Jos. C. Thoma, 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 first day of February, 191 6, 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 Eighth St. Par. S. through R. 2 W.; the east, west and south bdrs. and subdivision of T. 41 S., R. 2 W., and surveyed all those parts or portions of the east, west bdrs. and subdivision of T. 41 S., R. 2 W., of the Salt Lake Base and Meridian, in the State of Utah, which are represented in and index diagram on page 1 of same- and on dates shown on said diagram; the foregoing field notes as having been executed by me, and under my direction; and I do further certify on honor ~~solemnly swear~~ 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.

Jos. C. Thoma
U. S. Surveyor.

Dated June 26, 1917

~~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

BOOK A-434

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 .....

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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

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

I, Wm. R. Johnston, 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 first 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 Eighth St. Par. S. through R. 2 W., the east bdy. and subdivision of T. 41 S., R. 2 W., and surveyed all those parts or portions on the East bdy. and subdivision of T. 41 S., R. 2 W.,

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 diagram;

Wm R. Johnston

Dated July 10, 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.

C—2761

BOOK A-434

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 .....

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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 OF UNITED STATES SURVEYOR.

I, Andrew Nelson, 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 first 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 West Boundary, subdivisions and resurvey of east boundary of T. 41 S., R. 2 W.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in 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 further certify on honor ~~solemnly swear~~ 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.

Andrew Nelson
U. S. Surveyor.

Dated Dec. 18, 1918

~~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, Feb. 17, 1919.

The foregoing field notes of the ~~survey of~~ retracement and resurvey of the Eighth Standard Parallel South through Range No. 2 West; resurvey of portion of the east and south boundaries and subdivision; and the survey of the east and west boundaries and subdivision of Township No. 41 South, Range No. 2 West, of the Salt Lake Base and Meridian, Utah,

executed by Jos. C. Thoma, Wm. R. Johnston, and Andrew Nelson under ~~his~~ special instructions dated February 1, 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.

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—5781