Volume

# #

R0433

BOOK A-433 B.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT, RESURVEY OF THE SOUTH ½ OF THE WEST BOUNDARY,

SURVEY OF THE EAST BOUNDARY,

SURVEY OF THE EIGHTH ST. PAR. THROUGH R. 1 W.;

AND

THE RETRACEMENT, RESURVEY AND SURVEY OF THE SUBDIVISION

O F

T. 41 S., R. 1 W.

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

Thos. C. Rathbone and Jos. C. Thoma, U. S. Surveyors,

and

Lyman E. Bolinger and W. R. Johnston, U. S. Transitmen.

~~*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.* 49, *which were approved by the Commissioner of the General Land Office,* March 9, *1916* and under assignment instructions Dates Aug. 17, 1916 and May 3, 1917, issued by the Assistant Supervisor of Surveys for Utah.

Survey commenced Sept. 12, *1916*

Survey completed Sept. 28, *1917.*

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

Computations F.B.J.

Comparing

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

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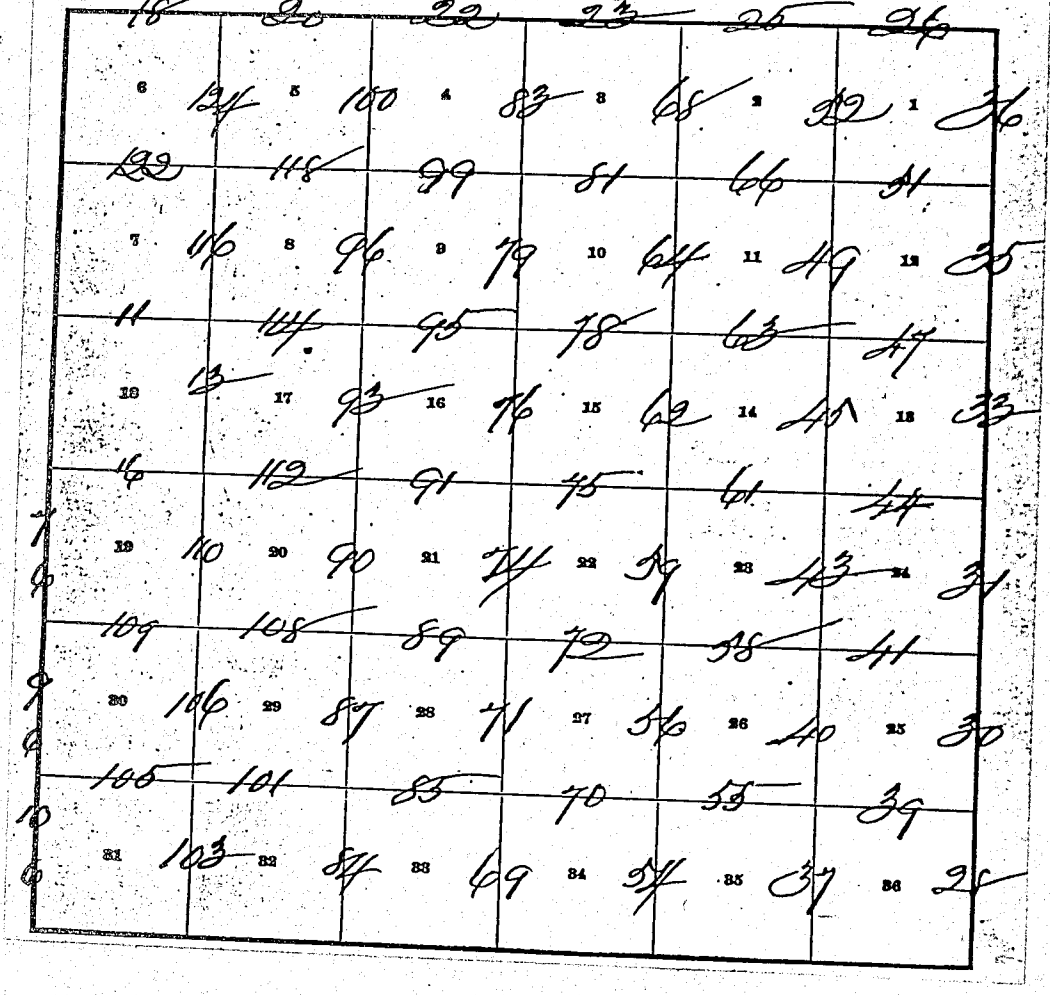
INDEX DIAGRAM.

Township 41 S, Range 1 W.



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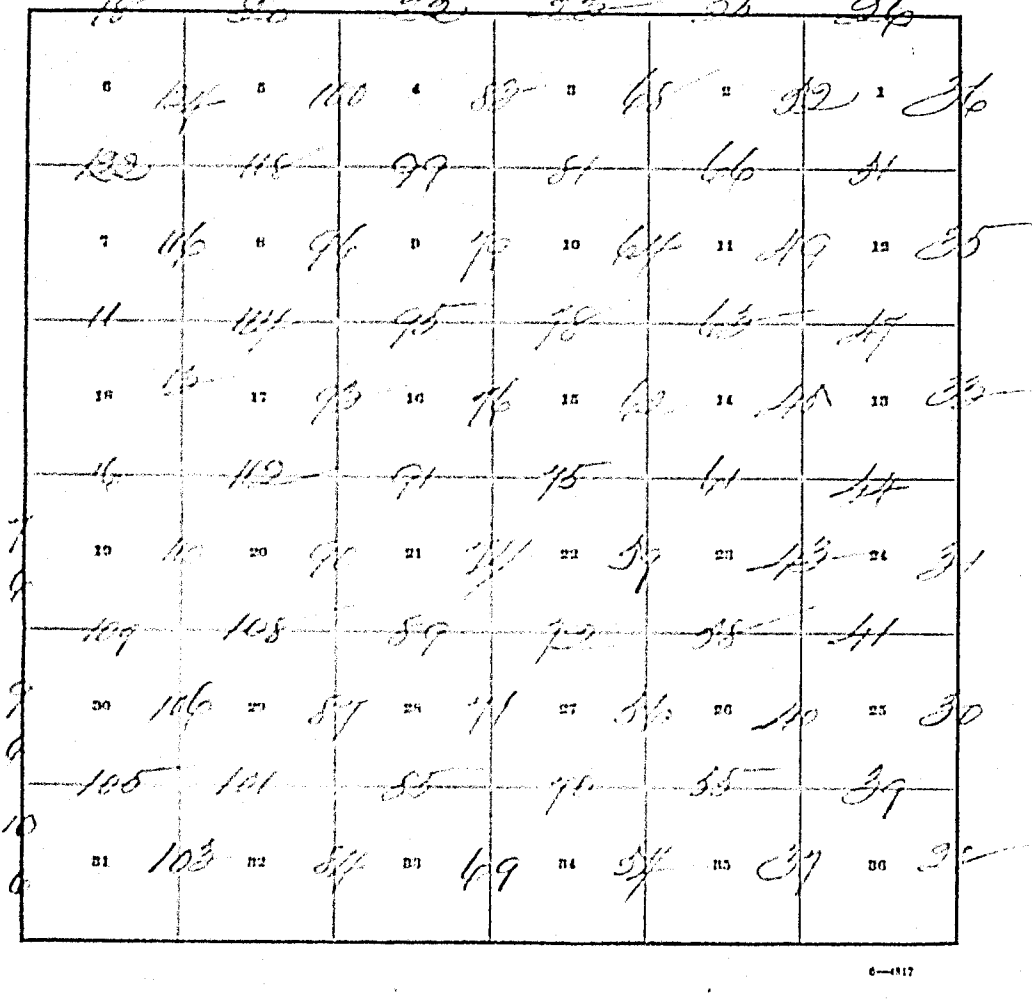
INDEX DIAGRAM.

Township 141 5, Range 1 W.



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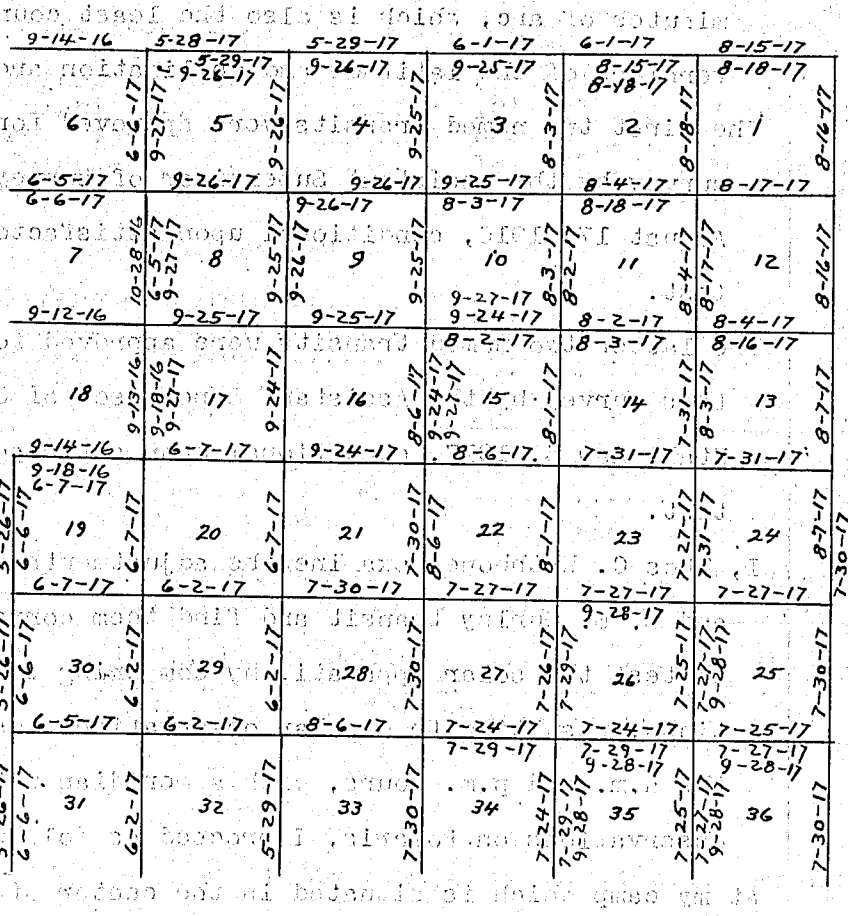
Date Diagram.



——— Lines along which dates are colored green were surveyed by Jos. C. Thoma, U. S. Surveyor.

——— Lines along which dates are colored yellow were surveyed by W. R. Johnston, U. S. Transitman.

——— 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.

Survey commenced Sept. 12, 1916 and executed with Buff and Buff solar transit number 9218, and Young and Sons light mountain transit number 8589, and Young and Sons light mountain transit number 8584, all transits equipped with Smith solar attachments, and W. and L.E. Gurley light mountain transit number 20, memo D., equipped with Burt solar attachment. The horizontal limbs of all transits are provided with two double verniers,

placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The first two named transits were approved for use on this survey by the Assistant Supervisor of Surveys for Utah August 17, 1916, conditional upon satisfactory field test.

The latter two named transits were approved for use on this survey by the Assistant Supervisor of Surveys for Utah, May 3, 1917, conditional upon satisfactory field test.

I, Thos C. Rathbone, 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 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 sec. 18, T. 41 S., R. 1 W., in approximate latitude 37° 15' N., longitude 111° 59' W., on May 25, 1917, I set off 37° 15' N. on the latitude arc, 21° 00' N. on the declination arc and at 4h 20m p.m., apparent time, determine a meridian with the solar attachment on the W. and L.E. Gurley transit number, 20; from this meridian, a sharply defined point on ledge about 3 miles dist. bears N. 3° 01' W.

At the same time and with the same settings on the latitude and declination arcs, Mr. Lymam E. Bolinger, after testing and finding correct the adjustments of the Young and Sons' transit number 8584, determines a meridian with the solar apparatus of that transit and finds that the meridian thus determined agrees with the meridian determined by me, with the W. and L.E. Gurley transit number 20.

I observe Polaris in accordance with the Manual of Instructions using the same point on ledge about 3 miles dist. as

Chains

reference point:

Telescope Direct	Angle	Watch Time
Reference point	0° 00' 00"	. . . . .
Polaris	2° 18' 00"	. . . 7h 46m 30s p.m.
Reference point	0° 00' 00"	. . . . .
Polaris	2° 18' 00"	. . . 7h 49m 30s p.m.
Reference point	0° 00' 00"	. . . . .
Telescope Reversed		
Reference point	0° 00' 00"	. . . . .
Polaris	2° 20' 00"	. . . 7h 51m 30s p.m.
Reference point	0° 00' 00"	. . . . .
Polaris	2° 20' 00"	. . . 7h 52m 30s p.m.
Reference point	0° 00' 00"	. . . . .
Mean	2° 19' 00"	. . . 7h 49m 57s p.m.
Watch fast of l.m.t.		0h 27m 00s
l.m.t. of obs.		7h 22m 57s p.m.
U.C. Pol. May 25, 1917		9h 30.1m a.m.
Correction for long.		1.2m
U.C.Pol. at station		9h 18.9m a.m.
Hour angle of Polaris		10h 07.3m
Azimuth of Pol. at obs.		0° 40.5' W.
True bearing of reference point		N. 2° 59.5' W.

May 26, 1917, at 7h 00m a.m. apparent time, I set off 37° 15'N. on the lat. arc; 88° 00' N. on the declination arc and determine a meridian with the solar attached to the W. and L. E. Gurley transit number 20. The meridian thus determined agrees with the meridian determined by observations on Polaris.

At the same time and with the same settings on the lat. and declination arcs Mr. Lyman B. Bolinger determines a meridian with the solar attached to Young and Sons. transit number 8584, which meridian coincides with the meridian determined by observations on Polaris.

At apparent noon I set off 81° 08' N. on the declination arc of the W. and L. E. Gurley transit and observe the sun in the meridian, with the resulting lat. of 37° 15'.

At the same time and with the same decl. setting on the Young and Sons. transit number 8584, 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 remained

Chains

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.

All refractions in declination were corrected for 4000 ft. elevation.

The magnetic bearing of the true meridian, at the Polaris station is N. 16° 15' W., on May 26, 1917.

For the tests of the Buff and Buff solar transit number 3218, and the Young and Sons. light mountain transit number 8589 see the notes of T. 41 S., R. 2 W., Utah.

That these transits remained in satisfactory adjustment throughout the course of the survey was evidenced by frequent comparison with the Polaris meridian and by daily observations for latitude whenever possible.

All refractions in declination were corrected for 4000 feet elevation.

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 tapes kept for this purpose exclusively.

RETRACEMENT AND RESURVEY OF FRACTION OF THE WEST BOUNDARY OF T. 41 S., R. 1 W.

I begin at the cor. of T. 41 and 42 S., R. 1 and 2 W., described in the notes of T. 42 S., R. 1 W.

Thence,

North, retracing bet. secs. 31 and 36.

40.00 No trace of the old ¼ cor. of secs. 31 and 36 can be found. Set temp point.

70.00 No trace of the old cor. of secs. 25, 30, 31 and 36

Chains	
	can be found. Set temp. point and continue N. retracing.
120.00	No trace of the old ¼ cor. of secs. 25 and 30 can be found. Set temp.point.
160.00	No trace of the old cor. of secs. 19, 24, 25 and 30 can be found. Set temp point and continue N. retracing.
200.00	No trace of the old ¼ cor. of secs. 19 and 24 can be found. Set temp. point.
236.03	Fall 2.28 chs. dist. E. of the cor. of secs. 13, 18, 19 and 24, described in the notes of T. 41 S., R. 2 W.
	Thence,
	S. 0° 33' E., resurveying, bet. secs. 19 and 24.
	Over broken mountainous land, asc. gradually through scattered cedar timber and scattered service-berry and sgaebrush undergrowth.
34.00	Spur, 150 ft. above scc. cor., projects NE. Desc. gradually.
37.76	On gradual SE. slope, 10 ft. below spur,
	Set an iron post, 3 ft. lon , 1 in. dia., 18 ins. in the ground to bedrock, 8 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of sec. 19, with brass cap mkd.,
	¼ S 19 1917
	From which,
	A cedar, 12 ins. dia., bears S. 80° E., 42 lks. dist., mkd., ¼ S 19 B T.
	No more suitable bearing trees available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, east of the cor.
	Desc. gradually.
38.34	On gradual SE. slope, 20 ft. below spur, by proportional measurement,
	Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground to bedrock, 18 ins. in a mound of stone, 4 ft. base, for the restored ¼ cor. of sec. 24, with brass cap mkd.,

chains	
	$\frac{1}{4}$ S 24 | 1917
	From which,
	A cedar, 10 ins. dia., bears N. 32° W., 80 lks. dist. mkd., $\frac{1}{4}$ S 24 B T.
	No more suitable bearing trees available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Desc. gradually.
44.00	Wash, 50 ft. below spur, 20 lks. wide, 3 ft. deep, drains NE. Asc. gradually.
50.00	Spur, 60 ft. above wash, projects SE. Desc. gradually.
74.00	Along E. side of clay ridge, nears N. 10° W., and S. 10° W., Desc. gradually along steep SE. slope.
77.36	On steep SE. slope, 60 ft. below spur,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 19 and 30, with brass cap mkd.,
	T 41 S S 19 | S 30 R 1 W 1917
	No suitable bearing trees available, no stone for mound, therefore dig pits, 24 x 24 x 12 ins., in each sec. 6 ft. dist.
	Desc. gradually.
78.68	Proportional distance, on steep SE. slope, 10 ft. below cor. secs. 19 and 30,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the restored cor. of secs. 24 and 25, with brass cap mkd.,
	T 41 S S 24 | S 25 R 2 W 1917

Retracement and resurvey of a fraction of the W. bdy. of T. 41 S., R. 1 W.

Chains	
	No bearing trees or stone available, therefore dig pits, 24 x 24 x 12 ins., in each sec. 6 ft. dist. from cor.
	Land, very broken mountainous, general E. and NE. drainage.
	Soil, light dry sandy clay loam, subsoil same. Sandstone on N. portion of mile.
	Timber, scattered cedar.
	Undergrowth, scattered service-berry and sagebrush. Poor grazing.
	———————————
	S. 0° 33' E., resurveying, along the E. bdy. of sec. 25.
	Over rough mountainous land, desc. abruptly through scattered cedar timber and scattered service-berry, chaparral and sagebrush undergrowth.
4.70	Ravine, 30 ft. below sec. cor., course N. 60° E. Asc. abruptly.
21.10	Spur, 220 ft. above ravine, projects NE. Desc. abruptly over almost impassable sandstone ledges on steep E. slope.
28.68	True point for the ¼ cor. of sec. 30, falls on ledges where cor. cannot be set.
32.74	True point for the restored ¼ cor. of sec. 25, falls on sandstone ledges where cor. cannot be set.
43.37	On spur, 120 ft. below spur, projects E.,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the W. C. to the ¼ cor. of sec. 30 and the restored ¼ cor. of secs. 25, with brass cap mkd.,
	WC ¼ S 25 | WC ¼ S 30
	1917
	No stone available for mound, no bearing trees available, therefore dig pits, 18 x 18 x 18 ins., N. and S. of the cor. 3 ft. dist.
	Desc. over broken E. slope.

Chains	
78.68	Proportional dist., 50 ft. below spur, Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the ground to bedrock, 6 ins. ina mound of stone, 2 ft. base, for the restored cor. of secs. 25, 30, 31 and 36, with brass cap mkd., T 41 S R 2 W | R 1 W 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 and broken mountainous, general drainage to the E. Soil, light, dry, red sandy clay loam mixed with sandstone subsoil same. Timber, scattered cedar. Undergrowth, scattered service-berry, chaparral and sage-brush. Poor grazing.
	S. 0° 33' E., resurveying along the E. bdy. of sec. 36 or bet. secs. 31 and 36. Over rolling mountainous land, asc. gradually through scattered cedar timber and scattered sagebrush under-growth.
7.60	Low divide, 30 ft. above cor., bears E. and W. Desc. gradually.
33.34	On rolling sagebrush flat, 10 ft. below divide, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the restored ¼ cor. of sec. 36, with brass cap mkd., cor. restored by proportional distance, ¼ S 36 | 1917 No bearing trees or stone available, therefore dig pits, 18 x 18 x 12 ins., N. and S. of the cor. 3 ft. dist.

Retracement and resurvey of a fraction of the W. bdy. of T. 41 S., R. 1 W.

Chains	
40.00	Level with ¼ cor. sec. 36,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of sec. 31, with brass cap mkd.,
	¼ | S 31 1917
	No bearing trees or stone available, therefore, dig pits, 18 x 18 x 12 ins., N. and S. of the cor., 3 ft. dist.
61.50	Swale, 10 ft. below ¼ cor. drains N. 60° W. Asc. gradually.
78.68	The cor. of T. 41 and 42 S., R. 1 and 2 W., 20 ft. above wash.
	Land, rolling sagebrush flat, general drainage to the NW.
	Soil, light, dry, red sandy clay loam, subsoil same.
	Timber, scattered cedar.
	Undergrowth, scattered sagebrush. Very poor grazing.

RESURVEY OF SUBDIVISION OF FRACTION OF T. 41 S., R. 1 W.

From the cor. of secs. 7, 12, 13 and 18, described in the notes of T. 41 S., R. 2 W.,

East, resurveying bet. secs. 7 and 18.

Over rolling mountainous land, desc. gradually through scattered cedar timber and scattered sagebrush, service-berry and yellow-top undergrowth.

2.20	W. bank of Paria river, bears NW. and SE. Leave timber bears same. Desc. into river.
3.80	Paria river, 20 ft. below sec. cor., stream of alkali water, 20 lks. wide, 6 ins. deep, course SE.
12.50	E. bank of Paria river, 8 ft. above river; bears with river. Thence over rolling valley land.
34.32	Fall 33 lks. N. of the old ½ W. C. for secs. 7 and 18, which is a sandstone, 12 x 6 x 3 ins. above ground, firmly set, mkd. and witnessed as described by the

Chains	
	surveyor-general.
	The true course of this line is therefore, S. 89° 27' E., and the distance, 34.32 chs.
	Continue E. from the ¼ W. C., resurveying. Asc. abruptly.
37.50	Spur, 130 ft. above river, projects S. about 5.00 chs. dist. Desc. abrupt E. slope.
39.54	On E. slope, 30 ft. below spur, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for a W. C. to the ¼ cor. of secs. 7 and 18 with brass cap mkd., ¼ S 7 / S 18 WC / 1916 Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the W. C.
	Desc. into gulch.
39.82	The true point for the ¼ cor. of secs. 7 and 18, (5.50 chs. dist. E. of the ¼ old W. C), point falls in gulch, 10 ft. below ¼ W. C. at 39.54 chs., course SW. Asc. abruptly over steep W. slope. (¼ cor. not set).
44.40	Spur, 130 ft. above gulch, projects SW. about 10.00 chs. dist. Desc. abruptly.
45.60	Gully, 20 ft. below spur, course SW. Asc. abrupt W. slope.
49.50	Enter scattered cedar and pinon timber, bears N. 30° W. and S. 30° E.
58.20	Sandstone ridge, 520 ft. above gully, bears N. 20° W. and S. 20° E.
63.50	Desc. abruptly over sandstone ledges.
66.20	Ravine, 200 ft. below ridge, course SE. Asc. abruptly over sandstone ledges.
68.40	Sandstone spur, 40 ft. above ravine, projects SE. about 10.00 chs. dist. Desc. abrupt E. slope.
74.50	Ravine, 160 ft. below spur, course S. Asc. abrupt W. slope.
78.20	Rocky spur, 110 ft. above ravine, projects SE. about 10.00 chs. dist. Desc. abruptly over sandstone

Chains	
	ledges and boulders.
79.42	Subsequently, On rocky NE. slope, 20 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, 2½ ft. base, for the cor. of secs. 7 and 18, with brass cap mkd., T 41 S R 1 W $\frac{S\ 7}{S\ 18}$ | 1916
	From which,
	A cedar, 18 ins. dia., bears S. 56° 50' W., 55 lks. dist., mkd., T 41 S R1 W S 18 B T.
	A pinon, 12 ins. dia., bears S. 21° W., 73 lks. dist., mkd., T 41 S R 1 W S 18 B T.
	A pinon, 16 ins. dia., bears N. 46½° W., 65 lks. dist., mkd., T 41 S R 1 W S 7 B T.
79.82	Set temp. cor. for secs. 7 and 18.
	Land, W. ½ mile, rolling mountainous, E. ½ mile, rough mountainous. General drainage to the S. and SW.
	Soil, heavy sand and clay loam, mixed with sandstone ledges and boulders on E. ½ mile. Subsoil same.
	Timber, scattered cedar and pinon.
	Undergrowth, scattered sagebrush, service-berry, and yellow top. Fair grazing on W. ½ mile, balance of mile too rough.
	South, on random line, bet. secs. 17 and 18, from the temp. cor. of secs. 7 and 18.
32.50	No trace of old W.C.
40.00	Set temp. point.
68.46	Top of sandstone ledges over which it is impossible to chain, therefore triangulate as follows, set flag at this point and then set a point on line S. at base of ledges, and from the latter point measure a base line, W. a dist. of 5.00 chs. From the W. end of base

Chains

line the flag at top of ledges bears N. 35° 52' E., the dist. is then,

5.00 x cotan. 35° 52' or 1.38314 = 6.92 chs.

75.78 Triangulation point. No trace of the old W. C. was found.

73.96 Fall 40 lks. dist. E. of the old cor. of secs. 17, 18, 19 and 20, which is a sandstone 4 x 3 x 2½ ft. above ground, firmly set, mkd. and witnessed as described by the surveyor-general. I reestablish this cor. as follows,

Set an iron post, 3 ft. long, 2 ins. dia., along side of the old cor., 26 ins. in the ground, for the cor. of sec. 18 only, with brass cap mkd.,

T 41 S R 1 W
S 18

1916

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

Thence from the cor. of secs. 7 and 18, heretofore described,

Thence,

South, on true resurvey, along the E. bdy. of sec. 18.

Over rough mountainous land, asc. over sandstone ledges and boulders, through scattered cedar and pinon timber and scattered sagebrush, mountain rush and grass undergrowth.

4.20 Rocky spur, 10 ft. below cor., projects SE. about 12.00 chs. dist. Desc. abruptly over sandstone ledges and boulders on S. slope.

9.30 Rocky ravine, 180 ft. below spur, course SE. Asc. rocky NE. slope.

17.30 Sandstone spur, 80 ft. above ravine, projects E. about 7.00 chs. dist.

24.30 Rocky ravine, 120 ft. below spur, course E. Asc. abrupt N. slope.

32.80 Rocky spur, 60 ft. above ravine, projects SE. about

Chains	
	8.00 chs. dist. Desc. gradual S. slope.
37.70	Ravine, 50 ft. below spur, course SE. Asc. gradual N. slope.
38.70	Spur, 20 ft. above ravine, projects SE. about 5.00 chs. dist. Desc. gradual S. slope.
39.00	Subsequently, on gradual S. slope, 5 ft. below spur, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground for the ¼ cor. of sec. 17 only, with brass cap mkd.,

¼ S 17
1917

From which,

A pinon, 10 ins. dia., bears N. 17° E., 71 lks. dist. mkd., ¼ S 17 B T.

No other suitable bearing tree available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, east of the cor.

Desc. gradually.

39.38 Cn gradual S. slope, 10 ft. below 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 ¼ cor. of sec. 18 only, with brass cap mkd.,

¼
S 18
1916

From which,

A pinon, 12 ins. dia., bears S. 59½° W., 74 lks. dist., mkd., ¼ S 18 B T.

A pinon, 8 ins. dia., bears N. 9½° W., 90 lks. dist., mkd., ¼ S 18 B T.

Desc. gradual S. slope.

43.70 Gully, 60 ft. below spur, course E. Asc. gradual N. slope.

45.00 Spur, 30 ft. above gully, projects E. about 2.00 chs. dist. Desc. abrupt S. slope.

Chains	
47.50	Ravine, 60 ft. below spur, course NE. Asc. abrupt N. slope.
51.50	Rocky spur, 80 ft. above ravine, projects W. about 10.00 chs. dist. Desc. gradually.
68.46	Triangulation point on top of sandstone ledges and rim of Paria canyon, 140 ft. below spur, bears NW. and SE. Desc. abruptly over high sandstone ledges.
75.38	Triangulation point at base of ledges, 180 ft. below top, bear NW. and SE. Thence over rolling Paria valley.
77.40	Paria river, 180 ft. below ledges, stream of alkali water, 30 lks. wide, 5 ins. deep, course SE. Asc. gradually.
79.02	The point for the closing cor. of secs. 17 and 20.
79.96	The cor. of sec. 18, 30 ft. above river.
	Land, rough mountainous, general drainage to the E. and SE.
	Soil, shallow, rocky, sandy clay loam, on sandstone bedrock.
	Timber, scattered cedar and pinon.
	Undergrowth, scattered sagebrush, mountain rush and grass. Too rough for grazing.

From the restored cor. of secs. 13, 18 19 and 24, desc. in the notes of T. 41 S., R. 2 W.

E. on retracement, bet. secs. 18 and 19.

Line passes over sandstone ledges over which it is impracticable to chain, therefore triangulate to top of high red bluffs as follows, set a point on line E. at top of ledges, and from a point 6.05 chs. E. of the sec. cor., measure a base line N. a dist. of 15.00 chs. From the N. end of the base line the point at top of ledges E. bears S. 66° 22' E., the dist. is then,

15.00 x tan. 66° 22' or 2.28528 = 34.28 chs.

40.31	Triangulation point at top of red bluffs.

Chains	
41.32	Set temp. point.
81.32	Fall 2.25 chs. S. of the reestablished cor. of sec. 18. The course of this mile is therefore, S. 88° 25' W. and the distance is 81.35 chs.
	From the reestablished cor. of sec. 18, S. 88° 25' W., resurveying along the S. boundary of sec. 18.
	Over rough mountainous land, asc. abruptly over sandstone ledges through scattered sagebrush, mountain rush and grass undergrowth.
1.20	Top of sandstone cliff, 140 ft. above sec. cor., bears NW. and SE. Enter scattered cedar and pinon timber, bears with cliff. Asc. over sandstone ledges and boulders.
5.90	Spur, 110 ft. above cliff, projects N. about 10.00 chs. dist. Desc. abrupt W. slope.
9.80	Ravine, 40 ft. below spur, course NW. Asc. abrupt E. slope over sandstone ledges and boulders.
18.60	Spur, 220 ft. above ravine, projects SE. about 10.00 chs. dist. Desc. abruptly over sandstone ledges.
27.80	Draw, 40 ft. below spur, drains SE. Asc. abruptly over sandstone ledges and boulders.
40.67½	Proportional measurement, on rocky E. slope, 230 ft. above draw,
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of sec. 18 only, with brass cap mkd.,
	¼ S 18
	1916
	No suitable bearing trees available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
41.01	Triangulation point.
41.24	Subsequently, on rocky top of mountain, 10 ft. above

Chains	
	¼ cor. of sec. 18,
	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 sec. 13, only, with brass cap mkd.,
	¼ S 13
	1917
	No suitable bearing trees available therefore, raise a mound of stone, 2 ft. base, 1½ ft. high, south of the cor.
41.40	Desc. abruptly over high sandstone ledges, bear N. and SW.
75.72	Triangulation point.
81.75	The restored cor. of secs. 17, 18, 13 and 24, 600 ft. below top of ledges.
	Land, rough mountainous, general drainage N.
	Soil, sandy clay loam, with sandstone ledges and boulders on E. ½ mile. Subsoil clay loam and sandstone.
	Timber, scattered cedar and pinon.
	Undergrowth, scattered sagebrush, mountain rush and grass. Poor grazing.

SURVEY OF THE EIGHTH STANDARD PARALLEL SOUTH THROUGH R. 1 W.

From the standard corner of Township 40 South, Ranges 1 and 2 W., described in the notes of T. 41 S., R. 2 W.

East, on true line, along the S. bdy. of sec. 31.

Over rough mountainous land, asc. gradually through dense cedar and pinon timber and scattered sagebrush, mountain rush, cacti, and grass undergrowth.

2.00	The closing cor. of T. 41 S., R. 1 and 2 W., described in the notes of T. 41 S., R. 2 W.
10.20	Small ridge, 80 ft. above sec. cor., bears NE. and SW. Desc. gradually.
13.00	Draw, 10 ft. below ridge, drains SW. Asc. gradually.

Chains	
21.90	N. edge of sandstone boulder, about 50 lks. square.
30.30	Ridge, 60 ft. above draw, bears N. 20° E. and S. 20° W. Desc. gradually.
40.00	On gradual E. slope, 110 ft. below ridge, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the St. ¼ cor. of sec. 31, with brass cap mkd., SC / ¼ S 31 / 1916 / From which, A pinon, 12 ins. dia., bears N. 03° W., 85 lks. dist., mkd., S C ¼ S 31 B T. A pinon, 10 ins. dia., bears N. 37° W., 110 lks. dist., mkd., S C ¼ S 31 B T.
	Desc. gradually.
42.30	Desc. abruptly over high red sandstone ledges into Hackberry canyon, bear N. and S.
80.00	Wash, 1030 ft. below ¼ cor., 50 lks. wide, 10 ft. deep, drains SE. Impracticable to set cor. in wash, as it would soon wash away.
80.50	On E. side of wash, on W. edge of Hackberry valley, 1000 ft. below ¼ cor., Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for WC S. C. of secs. 31 and 32, with brass cap mkd., S C / T 40 S R 1 W / S 31 | S 32 / WC / 1916 / No suitable bearing trees available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Land, rough mountainous, with high sandstone ledges, along Hackberry canyon, general drainage to the E. and SW.

Chains	
	Soil, sand and clay loam, on sandstone bedrock.
	/Timber, dense cedar and pinon.
	/Undergrowth, scattered sagebrush, mountain rush, cacti and grass. Poor grazing.
	From the true point for S. C. secs. 31 and 32.
	East, on true line, along the S. bdy. of sec. 32.
	Over rolling Hackberry valley, desc. gradually through scattered cedar and pinon timber and scattered sage-brush, rabbit-brush, mountain rush and grass undergrowth.
.50	The WC. S. C. of secs. 31 and 32.
1.37	Point for C. C. of secs. 5 and 6.
2.30	Hackberry creek, in wash 2.00 chs. wide, 15 ft. deep, 20 ft. below true cor.point for S.C. secs. 31 and 32, stream of clear water, 10 lks. wide, 2 ins. deep, course SE. Asc. over bank of wash, 10 ft. high, thence over rolling Hackberry valley. Scattered cottonwood timber along Hackberry canyon.
10.40	Foot of high sandstone ledges, leave valley and asc. abruptly over sandstone ledges over which it is impossible to chain, therefore triangulate as follows, set a point on top of ledges, and from the 10.40 chs. point measure a base line N. 43° E. a dist. of 18.35 chs. from which point the angle between the 10.40 chs. point and the point at top of ledges is 60° 14'. The dist. is then,
	log. 18.35 + log.sin. 60° 14' + log.sin. 78° 46' = 1.263636 + 9.938547 + 0.0084010=1.210584 = antilog. = 16.24 chs.
26.64	E. triangulation point on top of vertical ledges, 590 ft. above creek, bear N. and S. Thence asc. abruptly over sandstone ledges. Cedar and pinon become dense.
33.50	Ridge, 660 ft. above creek, bears N. and S. Desc. gradually over broken sandstone ledges and boulders.
40.00	On gradual rocky E. slope, 80 ft. below ridge,

Chains	
	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 S. ¼ cor. of sec. 32, with brass cap mkd.,
	S C ¼ S 32 1917
	No suitable bearing trees available for cor., therefore raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Desc. over rocky E. slope.
48.80	Sandstone ravine, 80 ft. below ¼ cor., course N. Asc. over broken sandstone ledges.
69.30	Sandstone ridge, 100 ft. above ravine, bears N. and S. Desc. gradually over rolling E. slope.
80.00	On rolling E. slope, 60 ft. below ridge,
	Set an iron post, 3 ft. long, 3 ins. dia., on bare sandstone, 24 ins. in a mound of stone, 4 ft. base, for the S. C. of secs. 4, 5, 32 and 33, with brass cap mkd.,
	S C T 40 S R 1 W S 32 | S 33 S 5 | S 4 T 41 S 1917
	From which,
	A cedar, 16 ins. dia., bears N. 43¼° E., 4.01 chs. dist., mkd., S C T 40 S R 1 W S 33 B T.
	A cedar, 18 ins. dia., bears S. 7¾° E., 5.09 chs. dist., mkd., S C T 41 S R 1 W S 4 B T.
	A cedar, 10 ins. dia., bears S. 47¼° W., 4.58 chs. dist., mkd., S C T 41 S R 1 W S 5 B T.
	A cedar, 15 ins. dia., bears N. 49° W., 2.32 chs. dist., mkd., S C T 40 S R 1 W S 32 B T.
	Land, broken and rough mountainous, general drainage to the N. and E. and S.
	Soil, shallow, sandy clay loam, on sandstone bedrock.
	Timber, dense cedar and pinon. Cottonwoods along Hackberry

Chains	
	canyon.
	Undergrowth, scattered sagebrush, rabbit-brush, mountain rush and grass. Fair grazing on E. portion of mile.
	East, on true line, along S. bdy. Sec. 33.
	Over rolling mountainous land, through dense cedar and pinon timber, and scattered sagebrush, mountain rush, rabbit-brush and grass undergrowth.
13.20	Desc. abruptly over broken sandstone ledges, bear N. and S.
30.80	Ravine, 50 ft. below sec. cor., course SW. Asc. gradually.
40.00	On gradual NW. slope, 20 ft. above ravine,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the St. ¼ cor. of secs. 33 and 4, with brass cap mkd.,
	S C ¼ S 33 S 4 1917
	From which,
	A pinon, 8 ins. dia., bears N. 43½° W., 59 lks. dist., mkd., S C ¼ S 33 B T.
	A pinon, 12 ins. dia., bears N. 37½° E., 85 lks. dist., mkd., S C ¼ S 33 B T.
	No suitable bearing tree in sec. 4, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Asc. gradually.
58.70	W. edge of sandstone chasm, 20 ft. above ¼ cor., 2.00 chs. wide, 50 ft. deep, drains N. Asc. gradually from E. side of chasm.
66.70	Sandstone spur, 100 ft. above bottom of chasm, projects N. Desc. abruptly over steep NE. sandstone slope.
78.20	Steep sandstone ravine, 200 ft. below spur, course SE. Asc. abrupt SW. slope.

Chains	
80.00	On rocky SW. slope, 110 ft. above ravine, Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, forthe S. C. of secs. 33,34, 3 and 4, with brass cap mkd.,

S C
T 40 S R 1 W

S 33	S 34
S 4	S 3

T 41 S

1917

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

Land, rolling and broken mountainous, general drainage SE. and N.

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

Timber, dense cedar and pinon.

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

East, on true line, along S.bdy. Sec. 34.

Over broken mountainous land, asc. gradually through scattered cedar and pinon timber and scattered sage-brush, mountain rush, rabbit-brush and grass undergrowth.

6.30	W. edge of sandstone chasm, 30 ft. above sec. cor., 100 ft. deep, 1.00 ch. dist. wide, drains SE. into ravine.
9.10	Desc. abruptly over sandstone ledges, into Cottonwood canyon, bear N. and S.
16.00	Cotton wood creek, in canyon, 270 ft. below ledges, stream of clear water, 1 lk. wide, 2 ins. deep, in wash, 3.00 chs. wide, 6 ft. deep., course S. Asc. gradually.
35.40	Leave Cottonwood canyon, asc. more abruptly over steep W. slope, sandstone ledges and boulders, bear N. and S.
40.00	On steep W. slope of canyon side, 100 ft. above creek, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the

Chains

ground for St. $\frac{1}{4}$ cor. of secs. 34 and 3, with brass cap mkd.,

S C
S 34
$\frac{1}{4}$
S 3
1917

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

Asc. abruptly over steep. ledgy W. slope.

63.30 Sandstone ridge, 880 ft. above $\frac{1}{4}$ cor., bears N. and S.

Desc. abruptly over sandstone ledges, bear with ridge.

75.60 Gulch, 440 ft. below ridge, course S. 30° W. Asc. gradually. Timber becomes dense, bears N. and S.

80.00 On gradual rocky W. slope, 60 ft. above gulch,

Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the ground to bedrock, 6 ins. in a mound of stone, 2 ft. base, for the S. C. of secs. 34, 35, 2 and 3, with brass cap mkd.,

S C
T 40 S R 1 W
S 34 | S 35
S 3 | S 2
T 41 S
1917

From which,

A pinon, 14 ins. dia., bears S. 55° E., 144 lks. dist. mkd., S C T 41 S R 1 W S 2 B T.

A pinon, 14 ins. dia., bears S. 10° W., 122 lks. dist., mkd., S C T 41 S R 1 W S 3 B T.

A cedar, 12 ins. dia., bears N. 3° E., 122 lks. dist., mkd., S C T 40 S R 1 W S 35 B T.

A pinon, 10 ins. dia., bears N. 63° W., 125 lks. dist., mkd., S C T 40 S R 1 W S 34 B T.

Land, rough mountainous, general drainage to the S.

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

Chains	
	Timber, scattered and dense cedar and pinon.
	Undergrowth, scattered sagebrush, mountain rush, rabbit-brush and grass. Fair grazing in Cottonwood canyon and extreme E. portion of mile, balance too rough.
	East, on true line, along S. bdy. sec. 35.
	Over broken mountainous land, asc. gradually over broken sandstone on W. slope, through dense cedar and pinon timber and scattered sagebrush, mountain rush, greasewood, rabbit brush and grass undergrowth.
14.00	Asc. abruptly over high gray sandstone ledges, on steep W. slope of gray bluffs, bear N. and S.
28.60	Top of ledges and high gray bluffs, 790 ft. above gulch, bear N. and S. Desc. gradually over broken sandstone ledges.
33.30	Head of ravine, 50 ft. below top of bluffs, course NE. Asc. gradually.
40.00	On sharp spur, 30 ft. above ravine, projects NE.
	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 St. ¼ cor. of secs. 35 and 2, with brass cap mkd.,
	SC ¼ S 35 S 2 1917
	From which,
	A pinon, 10 ins. dia., bears S. 79° W., 112 lks. dist., mkd., S C ¼ S 2 B T.
	A pinon, 10 ins. dia., bears N. 83° W., 120 lks. dist., mkd., S C ¼ S 35 B T.
	Thence along rocky SE. slope, desc. gradually over sandstone ledges and boulders.
59.60	Sandstone ravine, 130 ft. below spur, course NE. Asc. abruptly over sandstone ledges.

Chains

70.00 On ledgy sandstone ridge, bears E. and W., 100 ft. above ravine,

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 S. C. of secs. 35, 36, 1 and 2, with brass cap mkd.,

S C
T 40 S. R 1 W.

S 35	S 36
S 2	S 1

T. 41 S.

1917

From which,

A pinon, 12 ins. dia., bears N. 34½° E., 30 lks. dist., mkd., S C T 40 S R 1 W S 36 B T.

A cedar, 8 ins. dia., bears S. 5½° E., 72 lks. dist., mkd., S C T 41 S R 1 W S 1 B T.

A pinon, 8 ins. dia., bears S 66½° W., 36 lks. dist. dist., mkd., S C T 41 S R 1 W S 2 B T.

A sandstone ledge , bears N. 47½° W., 31 lks. dist. mkd., S C T 40 S R 1 W S 35 B C.

Land, broken and rough mountainous, with high sandstone bluffs and ledges, general drainage to the SW. and NE.

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

Timber, dense cedar and pinon.

Undergrowth, scattered sagebrush, mountain rush, greasewood, rabbit-brush and grass. W. portion of mile, fair grazing, balance too rough.

East, on true line, along S.bdy. sec. 36,

Over rough mountainous land, desc. abruptly over high sandstone ledges on steep NE. slope, through scattered cedar and pinon timber and scattered sagebrush, mountain rush, greasewood, shadscale, rabbit-brush and grass undergrowth.

Chains	
29.20	Steep ledgy canyon, 610 ft. below cor., course SE. This is a fork of Coyote canyon. Asc. abruptly over sandstone ledges on rough SW. slope.
40.00	On steep, ledgy SW. slope, 150 ft. above canyon, 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 St. ¼ cor. of secs. 36 and 1, with brass cap mkd.,

S C
¼ S 36
S 1
1917

From which,

A pinon, 10 ins. dia., bears S. 4½° E., 17 lks. dist., mkd., S C ¼ S 1 B T.

A cedar, 8 ins. dia., bears N. 35¼° W., 64 lks. dist., mkd., S C ¼ S 36 B T.

Asc. abruptly over sandstone ledges.

42.10	Base of high sandstone point of mountain, 350 ft. high, projects about 10.00 chs. S. 30° E. It is impossible to ascend this point, therefore offset S. a dist. of 12.27 chs., thence E. on offset line along steep ledgy S. slope of mountain.
72.46	Offset N. a dist. of 12.27 chs. to true line, thence E. on true line.
72.70	Fork of Coyote canyon, 600 ft. below high point of mountain, course S. Asc. gradually over broken sandstone ledges on W. slope.
80.00	On rocky W. slope, 30 ft. above canyon, 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 S. C. of T. 40 and 41 S., R. 1 W. and R. 1 E. with brass cap mkd.,

S C.
T 40 S
R 1 W | R 1 E
S 36 | S 31
S 1 | S 6
T 41 S
1917

Chains

From which,

A cedar, 8 ins. dia., bears N. 22¼° E., 121 lks. dist. mkd., S C T 40 S R 1 E S 31 B T.

A cedar, 20 ins. dia., bears S. 32¾° E., 32 lks. dist., mkd., S C T 41 S R 1 E S 6 B T.

A pinon, 8 ins. dia., bears S. 17½° W., 77 lks. dist., mkd., S C T 41 S R 1 W S 1 B T.

A cedar, 10 ins. dia., bears N. 12¾° W., 67 lks. dist., mkd., S C T 40 S R 1 W S 36 B T.

Land, rough mountainous, with high sandstone ledges throughout the mile, general drainage to the S. and SE.

Soil, shallow, rocky sandy clay loam, on sandstone bed-rock.

Timber, scattered cedar and pinon.

Undergrowth, scattered sagebrush, mountain rush, grease-wood, shadscale, rabbit-brush and grass. Too rough for grazing.

SURVEY OF THE SALT LAKE MERIDIAN THROUGH T. 41 S.

From the cor. of T. 41 and 42 S., R. 1 E. and R. 1 W., which is an iron post, 3 ins. dia., firmly set, mkd., and witnessed as described in the notes of T. 42 S., R. 1 W.

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

Over broken bench land through scattered cedar and pinon timber and scattered service-berry, mountain rush, shadscale, yellow-top and grass undergrowth.

11.00 Edge of bench land and top of sandstone and shale ledges, level with sec. cor., bear E. and W. Desc. abruptly over sandstone ledges to lower bench.

19.00 Base of ledges and edge of lower bench, 70 ft. below bench, bears E. and W. Thence desc. gradually over rolling bench land.

22.00 Wash, 30 ft. below upper bench, 10 lks. wide, 2 ft. deep, drains SE. Thence asc. gradually over rolling bench land.

Chains	
40.00	On rolling bench land, 10 ft. above wash, Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground to bedrock, 16 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 31 and 36, with brass cap mkd.,

¼

S 36 | S 31

1917

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

Desc. gradually from + cor.

44.30	Wash, 10 ft. below ¼ cor., 10 lks. wide, 1 ft. deep, drains SE. Asc. gradually.
51.30	Clay and sandstone spur, 50 ft. above wash, projects SE. Thence desc. gradually over broken E. slope.
59.10	Point of red sandstone spur, 10 ft. below spur, projects E. Asc. gradually over rocky gradual SE slope of bench.
80.00	On gradual, rocky SE. slope, 200 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. 25, 30, 31 and 36, with brass cap mkd.,

T 41 S

R 1 W | R 1 E

S 25 | S 30

S 36 | S 31

1917

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

Land, rolling and broken benches, general drainage to the E.

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

Timber, scattered cedar and pinon. Very little timber on the N. ½ mile.

Chains	
	Undergrowth, scattered service-berry, mountain rush, shadscale, yellow-top and grass. Good grazing on benches.
	North, on true line, bet. secs. 25 and 30.
	Over broken bench land, desc. gradually over gradual NE. slope, through scattered shadscale, yellow-top mountain rush, service-berry and grass undergrowth.
28.00	Cattle trail, from the Coyote springs to grazing on the benches and slopes to the west, bears E. and W.
40.00	On E. slope, 50 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, 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. into Coyote canyon.
41.00	Coyote wash, dry, 60 ft. below ¼ cor., 1.00 ch. wide, 6 ft. deep, drains SE. About ½ mile down this canyon, SE., is Coyote spring, which is a spring of good clear water, carrying some iron and alkali, which flows a stream of about 15 lks. wide, 2 ins.deep, for about ½ mile, dist. then disappears in the sand. This spring is good water and is the only water in the locality, available for stock.
	Asc. abruptly over broken, rocky SW. slope of mountain.
80.00	On broken, steep, rocky SW. slope, 200 ft. above Coyote wash, Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone bedrock, 24 ins. in a mound of stone, 3 ft. base, for the cor. of secs. 19, 24, 25 and 30, with brass cap mkd.,

Chains	
	T 41 S R 1 W R 1 E S 24 | S 19 S 25 | S 30 1917
	It is impracticable to raise a mound of stone, or dig pits as a witness for this cor. on account of the steep slope around the cor.
	Land, rough, broken and rolling benches and steep ledgy slopes of mountain, general drainage to the E. and W. into Coyote canyon draining SE.
	Soil, shallow, rocky, sandy loam, on sandstone bedrock, numerous sandstone boulders and ledges.
	Timber, none.
	Undergrowth, scattered shadscale, yellow-top, mountain rush, service-berry and grass. Fair grazing.
	North, on true line, bet. secs. 19 and 24.
	Over rough, broken mountainous land, asc. abruptly over sandstone ledges and boulders on steep SW. slope, through scattered shadscale, sagebrush,, mountain rush, greasewood, rabbitbrush and grass undergrowth.
7.00	Broken ledgy sandstone spur, 40 ft. above sec. cor., projects W. Desc. abruptly over steep ledgy NW. slope of spur.
10.00	Enter scattered cedar and pinon timber, bears E. and W. Continue abrupt descent.
40.00	On rocky, broken W. slope, 180 ft. below spur, Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid sandstone bedrock, 20 ins. in a mound of stone, 4 ft. base, for the 1/4 cor. of secs. 19 and 24; with brass cap mkd., S 24 | S 19 1917 From which,

Chains

A cedar, 6 ins. dia., bears N. 84½° W., 15 lks. dist., mkd., ½ S 24 B T.

A cedar, 8 ins. dia., bears S. 78° E., 38 lks. dist., mkd., ½ S 19 B T.

Desc. abruptly over broken sandstone ledges and boulders into Coyote canyon.

47.40 Coyote wash, dry, 80 ft. below ¼ cor., 40 lks. wide, 2 ft. deep, course SW. Asc. abruptly over sandstone ledges.

53.00 Top of ledges and rim of point of mesa, 250 ft. above Coyote wash, projects W. Thence over rocky point of mesa.

61.20 Leave broken point of mesa, bears NE. and SW. Desc. abruptly over sandstone ledges and boulders.

67.70 Coyote wash, 210 ft. below point of mesa, 1.00 ch. wide, 4 ft. deep, course SE. Asc. abruptly over high sandstone ledges and boulders, bear with canyon.

72.30 Rocky sandstone spur, 270 ft. above wash, projects S. 70° E., asc. abruptly over broken sandstone ledges and boulders.

80.00 On rocky SE. slope, 70 ft. above spur,

Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 17, 18, 19 and 24, with brass cap mkd.,

T 41 S
R 1 W | R 1 E
S 13 | S 18.
S 24 | S 19
1917

from which,

A cedar, 12 ins. dia., bears N. 43½° E., 1.00 ch. dist., mkd., T 41 S R 1 E S 18 B T.

A cedar, 8 ins. dia., bears S. 74° E., 1.75 chs. dist., mkd., T 41 S R 1 E S 19 B T.

A pinon, 8 ins. dia., bears S. 50° W., 60 lks.

Chains	
	dist. mkd., T 41 S R 1 W S 24 B T.
	A pinon, 10 ins. dia., bears N. 17½° W., 10 lks. dist., mkd., T.41 S R 1 W S 13 B T.
	Land, rough mountainous, with numerous sandstone ledges, general drainage to the SE. and SW.
	Soil, shallow, sandy clay loam, on sandstone bedrock.
	Timber, scattered cedar and pinon.
	Undergrowth scattered sagebrush, mountain rush, greasewood, shadscale, rabbit-brush and grass. Fair grazing.
	North, on true line, bet. secs. 13 and 18.
	Over rough mountainous land, asc. over sandstone ledges, through dense cedar and pinon timber, and scattered sagebrush, mountain rush, greasewood, shadscale, rabbit-brush, yellow-top and grass undergrowth.
3.30	Sandstone spur, 30 ft. above sec. cor., projects SW. Asc. over sandstone ledges.
9.30	Top of ledges, 120 ft. above sec. cor., bear NE. and SW. Thence desc. gradually over rocky, broken mesa land.
28.40	Wash, 110 ft. below broken mesa, 14 lks. wide, 1 ft. deep, drains E. Asc. abruptly over high sandstone ledges.
32.80	Topof ledges and edge of broken mesa, 80 ft. above wash, bears NE. and SW. Desc. gradually over rocky, broken mesa.
40.00	On gradual rocky N. slope, 20 ft. below top of ledges, 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. 13 and 18, with brass cap mkd.,

¼

S 13 | S 18

1317

From which,

A pinon, 12 ins. dia., bears S. 69½° E., 22 lks. dist., mkd., ¼ S 18 B T.

Chains	
	A cedar, 10 ins. dia., bears N. 13½° W., 76 lks. dist., mkd., ½ S 13 B T.
	Thence desc. gradually over gradual N. slope of rocky, broken mesa land.
45.20	Wash, 20 ft. below ¼ cor., 14 lks. wide, 2 ft. deep, drains NE. Continue gradual descent.
55.00	Gulch, 50 ft. below ¼ cor., course NE. This point is S. edge of gulch, which is 4.00 chs. wide, and 280 ft. deep. Desc. gradually from N. edge of gulch.
72.00	Desc. over sandstone ledges, leave mesa, bears N. 20° W. and S. 20° E.
80.00	At base of sandstone ledge, 6 ft. high, 20 ft. below mesa, bear with mesa,
	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. 7, 12, 13 and 18, with brass cap mkd.,

T 41 S
R 1 W | R 1 E
S 12 | S 7
S 13 | S 18
1917

From which,

A pinon, 10 ins. dia., bears N. 83° E., 80 lks. dist., mkd., T 41 S R 1 E S 7 B T.

A cedar, 11 ins. dia., bears S. 46½° E., 72 lks. dist., mkd., T 41 S R 1 E S 18 B T.

A cedar, 6 ins. dia., bears S. 89° W., 81 lks. dist., mkd., T 41 S R 1 W S 13 B T.

A cedar, 18 ins. dia., bears N. 59½° W., 7 lks. dist., mkd., T 41 S R 1 W S 12 B T.

Land, broken and rough mountainous, general drainage E. into Coyote canyon draining S.

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

Timber, dense cedar and pinon.

Chains	
	Undergrowth, scattered sagebrush, mountain rush, greasewood, shadscale, rabbit-brush, yellow-top and grass. Fair grazing.
	North, on true line, bet. secs. 7 and 12. Over broken mountainous land, desc. gradually through dense cedar and pinon timber, and scattered sagebrush, mountain rush, greasewood, shadscale, rabbit-brush and grass undergrowth.
39.90	Wash, 40 ft. below cor., 20 lks. wide, 3 ft. deep, drains SE. This is Coyote wash. Asc. gradually.
40.00	Point falls on edge of wash where cor. cannot be set.
40.32	On gradual SW. slope, 10 ft. above wash, 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. 7 and 12, with brass cap mkd., ¼ S 12 W | S 7 C 1917 From which, A cedar, 8 ins. dia., bears S. 45° E., 150 lks. dist., mkd W C ¼ S 7 B T. A cedar, 8 ins. dia., bears N. 79¼° W., 35 lks. dist., mkd W C ¼ S 12 B T. Asc. gradually.
66.50	Wash, 10 ft. above ¼ cor., 10 lks. wide, 4 ft. deep, drains SW. Asc. gradually. Leave cedar and pinon timber, bears with wash.
80.00	At base of high gray bluffs, 20 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 cor. of secs. 1, 6, 7, and 12, with brass cap mkd., T 41 S R 1 W | R 1 E S 1 | S 6 S 12 | S 7 1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor..
	Land, broken mountainous, general drainage to the SE.
	Soil, shallow, sandy clay loam, on sandstone bedrock. Much sandstone on surface.
	Timber, dense cedar and pinon, on S. ¾ mile, no timber on N. ¼ mile.
	Undergrowth, scattered sagebrush, mountain rush, greasewood, shadscale, rabbit-brush and grass. Fair grazing.
	North, on true line, bet. secs. 1 and 6,
	Over rough ledgy foothills, asc. over sandstone ledges through scattered sagebrush, shadscale, greasewood and grass undergrowth.
8.20	Sandstone spur, 180 ft. above sec. cor., projects W. Desc. abruptly over sandstone ledges.
13.50	Rocky ravine, 160 ft. below spur, course W. Asc. abruptly over sandstone ledges, Enter cedar and pinon timber.
36.30	Top of ledges, 150 ft. above ravine, bear E. and W. Thence desc. gradually along rocky W. slope of high mountain.
40.00	On rocky W. slope of mountain, 20 ft. below top of ledges, Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 1 and 6, with brass cap mkd.,
	¼ S.1 | S.6 1917.
	From which,
	A cedar, 5 ins. dia., bears S. 37¾° E., 43 lks. dist., mkd., ¼ S 6 B T.
	A cedar, 8 ins. dia., bears S. 50½° W., 81 lks. dist., mkd., ¼ S 1 B T.
	Desc. abruptly from ¼ cor.
55.60	Wash, 150 ft. below ¼ cor., 30 lks. wide, 3 ft. deep,

Chains	
	drains W. Asc. abruptly over sandstone ledges.
75.00	Broken sandstone spur, 110 ft. above wash, projects W. about 5.00 chs. dist. Desc. over broken sandstone ledges and boulders.
85.31	Intersect the Standard corner of Townships 40 and 41 S., R. 1 E. and R. 1 W., heretofore described.
	Land, broken and rough mountainous, general drainage to the W. into Coyote wash, draining S.
	Soil, shallow, rocky, sandy clay loam, on sandstone bed-rock.
	Timber, scattered cedar and pinon.
	Undergrowth, scattered sagebrush, shadscale, greasewood and grass. Fair grazing.

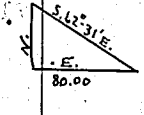
SURVEY OF THE SUBDIVISION OF T. 41 S., R. 1 W.

From the true point for the cor. of secs. 1, 2, 35 and 36, which is 1.00 ch. dist. E. of the W. C. of secs. 1, 2, 35 and 36, described in the notes of T. 42 S., R. 1 W.

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

Over rough mountainous land, desc. abruptly over sandstone ledges through scattered cedar and pinon timber and scattered sage-brush, shadscale, mountain rush, service-berry and grass undergrowth.

It is impracticable to chain N. from the true cor. point on account of high sandstone ledges, therefore triangulate as follows across deep gulch, set a point N. across gulch, and from the latter point the cor. of T. 41 and 42 S., R. 1 E. and R. 1 W., which is 80.00 chs. dist. E. of the true cor. point for secs. 1, 2, 35 and 36, bears S. 62° 31' E., the dist. is then;



80.00 x cotan. 62° 31' or .52020 = 41.62 chs.

20.00	Approximate bottom of rocky gulch, 500 ft. below true cor. point, course E. Asc. abruptly over high sandstone ledges, bear NE. and SW.

Chains	
40.00	Point falls in ledges, where cor. cannot be set, therefore W. 1 lk. dist. of the
41.62	Triangulation point at top of ledges and rim of mesa, 500 ft. above gulch, bear N. 70° E. and S. 70° W., 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. 35 and 36, with brass cap mkd.,

¼

S 35 | S 36

W C

1917

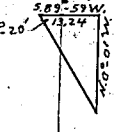
From which,

A cedar, 6 ins. dia., bears N. 46½° E., 65 lks. dist., mkd W C ¼ S 36 B T.

A cedar, 12 ins. dia., bears N. 54¾° W., 89 lks. dist., mkd W C ¼ S 35 B T.

Thence over rolling, rocky, mesa top, enter dense cedar and pinon timber, bears with mesa. From ¼ cor., N. 0° 01' W. 1 lk.

53.60 Rim of mesa, 20 ft. below ¼ cor., bears S. 70° E. and N. 70° W. Desc. abruptly over high sandstone ledges over which it is impracticable to chain, therefore triangulate as follows, set a point On line N. 0° 01' W. across deep gulch, and from the latter point measure a base line S. 89° 59' W., a dist. of 13.24 chs., from which point the point on line at 53.60 chs. makes an angle of 63° 20' with the N. triangulation point, the dist. is then,



13.24 x tan. 63° 20' Or 1.99116 = 26.36 chs.

71.50 Approximate bottom of deep rocky gulch, 550 ft. below mesa, course E. Asc. abruptly over high sandstone ledges. Leave timber, bears with gulch.

79.36 Triangulation point.

80.00 On rocky, ledgy, S. slope, 150 ft. above gulch, Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone ledges, 24 ins. in a mound of stone, 4 ft. base,

Chains	
	for the cor. of secs., 25, 26, 35 and 36, with brass cap mkd.,
	T 41 S R 1 W. S 26 | S 25 S 35 | S 36 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rough mountainous and rolling points of high mesa, general drainage to the E.
	Soil, shallow, rocky, sandy clay loam, on sandstone bedrock.
	Timber, dense and scattered cedar and pinon.
	Undergrowth, scattered sagebrush, shadscale, mountain rush, service-berry and grass. Fair grazing.
	East, on random line, bet. secs. 25 and 36.
40.00	Set temp. point for ¼ cor.
79.93	Intersect the E. bdy. of the Tp. 2 lks. S. of the cor. of secs. 25, 30, 31 and 36, heretofore described.
	Thence,
	S. 89° 59' W., on true line, bet. secs. 25 and 36.
	Over broken mountainous land, asc. over broken sandstone ledges and boulders through scattered cedar and pinon timber and scattered shadscale, mountain rush, service-berry and grass undergrowth.
39.96½	On rocky S. slope of mountain, 120 ft. above 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. 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 cor.

Chains

Asc. gradually over rocky S. slope.

58.80 Asc. abruptly over sandstone ledges and boulders.

72.97 The cor. of secs. 25, 26, 35 and 36, 110 ft. above ¼ cor.

Land, broken and rough mountainous, general drainage S. and E.

Soil, shallow, rocky, sandy clay loam, on sandstone bed-rock.

Timber, few scattered cedar and pinons.

Undergrowth, scattered shadscale, mountain rush, service-berry and grass. Fair grazing.

N. 0° 01' W., on true line, bet. secs. 25 and 26.

Over rough mountainous land, asc. abruptly over high sandstone ledges and boulders through scattered shadscale, mountain rush, service-berry and grass undergrowth.

6.70 Top of ledges and rim of high mesa, 320 ft. above sec. cor., bears S. 70° W. and N. 70° E. Thence over rolling mesa top, enter dense cedar and pinon timber, bears with mesa.

32.00 Leave timber, enter dense sagebrush, bear E. and W. Thence over nearly level sagebrush flat.

40.00 On rolling sagebrush flat, 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 26, with brass cap mkd.,

S 26 | S 25

1917.

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

Desc. gradually.

60.00 Sagebrush becomes scattered, enter dense cedar and pinon timber, bears E. and W. Thence asc. gradually over more broken mesa.

Chains	
71.40	Top of ascent, 30 ft. above ¼ cor., thence desc. over rocky N. slope of rocky mesa,
80.00	On rocky N. slope, 30 ft. below top of ascent, Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the ground to bedrock, 6 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 23, 24, 25 and 26, with brass cap mkd.,

T 41 S R 1 W

S 23	S 24
S 26	S 25

1917

From which,

A pinon, 10 ins. dia., bears S. 26° W., 8 lks. dist., mkd., T 41 S R 1 W S 26 B T.

A cedar, 8 ins. dia., bears N. 58¾° E., 27 lks. dist., mkd., T 41 S R 1 W S 24 B T.

A cedar, 6 ins. dia., bears S. 63¾° E., 104 lks. dist., mkd., T 41 S R 1 W S 25 B T.

A pinom, 6 ins. dia., bears N. 60½° W., 83 lks. dist., mkd., T 41 S R 1 W S 23 B T.

Land, rough mountainous, and rolling and broken mesa top, general drainage to the E. and N.

Soil, on mesa, light sandy loam, subsoil same, on rough mountainous part of mile, shallow, sandy clay loam, on sandstone bedrock.

Timber, dense cedar and pinon.

Undergrowth, scattered shadscale, mountain rush, service-berry and grass and dense and scattered sagebrush.

Good grazing on mesa, balance too rough.

N. 89° 59' E., on random line bet. secs. 24 and 25.

39.25 Set temp. point for ¼ W. C.

40.00 Falls on ledges where cor. can ot be set.

80.16 Intersect the E. bdy. of the Tp. or the Salt Lake Meridian 5 lks. S. of the cor. of secs. 19, 24, 25 and 30, heretofore described.

Chains	
	Thence,
	S. 89° 57' W., on true line, bet. secs. 24 and 25.
	Over rough mountainous land, desc. abruptly over sandstone ledges and boulders through scattered cedar and pinon timber, and scattered sagebrush, mountain rush, greasewood, and grass undergrowth.
14.00	Coyote canyon, dry, 280 ft. below sec. cor., course S. Asc. abruptly over high sandstone ledges and sandstone boulders on NE. slope.
40.08	Falls on sandstone ledges where cor. cannot be set.
40.91	On rugged NE. slope of mountain, 490 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 W. C. to the ¼ cor. of secs. 24 and 25, with brass cap mkd.,
	¼ S 24 / S 25 W C 1917
	From which,
	A pinon, 10 ins. dia., bears S. 68½° W., 49 lks. dist., mkd., W C ¼ S 25 B T.
	A cedar, 12 ins. dia., bears N. 79° E., 161 lks. dist., mkd., W C ¼ S 24 B T.
	Asc. abruptly over sandstone ledges. Timber becomes dense.
43.40	Top of ledges and rim of mesa, 80 ft. above ¼ W. C.; bear S. 70° E. and N. 70° W. Thence desc. gradually over broken sandstone ledges and boulders.
69.30	Swale, 90 ft. below top of ledges, drains N. Thence asc. gradually over broken N. slope of mesa.
80.16	The cor. of secs. 23, 24, 25 and 26, 20 ft. above swale.
	Land, rough and broken mountainous, general drainage to the N. and S.
	Soil, shallow, rocky, sandy clayloam, on sandstone bedrock.
	Timber, scattered cedar and pinon on E. portion of mile, dense cedar and pinon on W. portion.

Chains	
	Undergrowth, scattered sagebrush, mountain rush, greasewood, and grass. Good grazing on mesa and in canyon, balance toorough.
	N. 0° 01' W., on true line, bet. secs. 23 and 24.
	Over rough mountainous land, desc. abruptly over high sandstone ledges on steep N. slope, through scattered cedar and pinon timber, and scattered sagebrush, mountain rush, shadscale and grass undergrowth.
15.50	Wash, in dry fork of Coyote canyon, 320 ft. below sec. cor., 40 lks. wide, 4 ft. deep, drains S. 70° E. Asc. abruptly over high sandstone ledges on steep S. slope.
20.20	Point of mountain, 250 ft. above wash, projects E, about 5.00 chs. dist. Desc. abrupt NE. slope over sandstone ledges.
40.00	On rocky NE. slope, 200 ft. below point of mountain, Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. ina mound of stone, 4 ft. base, for the $\frac{1}{4}$ cor. of secs. 23 and 24, with brass cap mkd., $\frac{1}{4}$ / S 23 | S 24 / 1917
	From which,
	A pinon, 6 ins. dia., bears N. 40° W., 116 lks. dist., mkd., $\frac{1}{4}$ S 23 B T.
	A pinon, 8 ins. dia., bears S. 70° E., 7 lks. dist., mkd., $\frac{1}{4}$ S 24 B T.
	Desc. abruptly.
45.30	Coyote canyon, 80 ft. below $\frac{1}{4}$ cor., course SE. Asc. abruptly overhigh sandstone ledges on steep SW. slope.
56.00	Top of ledges and rim of mesa, 400 ft. above canyon, bears E. and W. Thence over broken mesa top.
78.80	Gulch, 30 ft. below top of ledges, course NW. Desc. gradually.
80.00	On gradual S. slope of mesa, 40 ft. above gulch,

Chains

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. 13, 14, 23 and 24, with brass cap mkd.,

T 41 S R 1 W

S 14	S 13
S 23	S 24

1917

From which,

A pinon, 4 ins. dia., bears S. 11½° W., 30 lks. dist., mkd., T 41 S R 1 W S 23 B T.

A pinon, 12 ins. dia., bears N. 27½° W., 1.00 ch. dist., mkd., T 41 S R1 W S 14 B T.

A pinon, 12 ins. dia., bears N. 13¼° E., 75 lks. dist., mkd., T 41 S R 1 W S 13 B T.

A pinon, 10 ins. dia., bears S. 61½° E., 1.35 chs. dist., mkd., T 41 S R 1 W S 24 B T.

Land, rough and broken mountainous, general drainage to the SE.

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

Timber, scattered cedar and pinon.

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

N. 89° 57' E., on random line, bet. secs. 13 and 24.

40.00 Set temp. point for ¼ cor.

80.08 Intersect the E. bdy. of the Tp. on Salt Lake Meridian, at the cor. of secs. 13, 18, 19 and 24, heretofore described.

Thence,

S. 89° 57' W., on true line, bet. secs. 13 and 24.

Over rough mountainous land, asc. abruptly over sandstone ledges through dense cedar and pinon timber and scattered sagebrush, mountain rush, greasewood, shadscale and grass undergrowth.

Chains	
5.90	Top of ledges and rim of mesa, 80 ft. above sec. cor., bears NW. and SE. Desc. gradually.
10.90	Ravine, 40 ft. below top of ledges, course SE. Asc. abruptly over sandstone ledges.
15.80	Asc. gradually over E. slope.
37.40	Ridge, 40 ft. above ravine, bears N. and S. Desc. gradually over broken mesa land.
40.04	On W. slope of ridge, 10 ft. below top, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 13 and 24, with brass cap mkd.,
	¼ S 13 / S 24 / 1917
	From which,
	A cedar, 8 ins. dia., bears N. 21° 20' E., 105 lks. dist., mkd., ¼ S 13 B T.
	A cedar, 10 ins. dia., bears S. 40½° E. 75 lks. dist., mkd., ¼ S 24 B T.
	Thence desc. gradual W. slope, timber becomes scattered bears N. and S.
45.10	Wash, 10 ft. below cor., 14 lks. wide, 2 ft. deep, drains NW. Asc. gradually.
75.10	Timber becomes dense, bears N. and S.
80.08	The cor. of secs. 13, 14, 23 and 24, 40 ft. above wash. Land, broken mesa, general drainage to the SE. and NW. Soil, light, sandy clay loam, on sandstone bedrock and sandy clay subsoil. Timber, dense and scattered cedar and pinon. Undergrowth, scattered sagebrush, mountain rush, greasewood, shadscale and grass. Fair grazing.

	N. 0° 01' W., on true line, bet. secs. 13 and 14. Over broken mesa land, desc. gradually through dense cedar and pinon timber and scattered sagebrush, shadscale,

Chains	
	mountain rush, rabbit-brush and grass undergrowth.
11.50	Old cattle trail, bears E. and W.
12.60	S. edge of chasm, 20 ft. below sec. cor., 150 lks. wide, 50 ft. deep, drains W. Asc. gradually from N. edge of chasm.
13.00	Old trail, bears NW. and SE., 70 ft. above bottom of chasm, desc. gradually.
20.00	Head of ravine, level with trail, course NW. Asc.
37.40	Small spur, 20 ft. above head of ravine, projects W. Desc. gradually.
38.64	On S. edge of ledgy ravine, 20 ft. below spur, Set a sandstone 18 x 10 x 4 ins., 4 ins. in the ground to bedrock, 12 ins. in a mound of stone, 3 ft. base, for the W. C. to the ¼ cor. of secs. 13 and 14, mkd., W. C. ¼ on the W. face. No iron post was available for the cor.
	From which,
	A pinon, 12 ins. dia., bears S. 60½° E., 202 lks. dist., mkd., W C ¼ S 13 B T.
	A cedar, 16 ins. dia., bears N. 88½° W., 27 lks. dist., mkd., W C ¼ S 14 B T.
	Desc. abruptly into rocky ravine.
40.00	Point falls on sandstone ledges, where cor. cannot be set.
42.70	Ledgy ravine, 50 ft. below W. ¼ C., course W. Asc. gradually over rocky, broken S. slope.
57.50	Asc. abruptly over steep, ledgy S. slope of mountain.
62.20	Leave timber, bears E. and W.
66.22	Set flag.
68.30	Spur; 460 ft. above ravine, projects SW. about 20.00 chs. dist. Desc. abruptly over rocky W. slope of mountain.
72.20	Ravine, 80 ft. below spur, course W. Asc. abruptly over sandstone ledges and boulders.
73.80	Rocky spur, 70 ft. above ravine, projects W. about 10.00 chs. dist. Desc. gradually.
80.00	On rocky W. slope of upper gray bluffs, 20 ft. below spur,

Chains

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. 11, 12, 13 and 14, with brass cap mkd.,

T 41 S R 1 W

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, S. portion broken mesa, N. portion rough W. slope of high mountain, general drainage to the W. and SW.

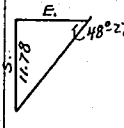
Soil, shallow, heavy clay loam, on sandstone bedrock.

Timber, dense cedar and pinon on S. portion. No timber on N. portion.

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

N. 89° 57' E., on random line, bet. secs. 12 and 13.

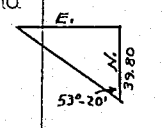
It is impossible to chain E. from this cor. on account of high sandstone ledges, therefore triangulate as follows, set a point E. at top of ledges, from which point observe that the flag previously set 11.78 chs. S. of the cor. of secs. 11, 12, 13 and 14, makes an angle of 48° 27' with the sec. cor., the dist. is then



11.78 x cotan. 48° 27' or .88628 = 10.44 chs.

10.44 Triangulation point. Offset N. 1. lk. dist., to random line, thence N. 89° 57' E., on random line.

26.66 Impossible to chain farther on account of sandstone ledges, therefore triangulate as follows, as it is impossible to get a base line in this locality on account of sandstone ledges, I go to the cor. of secs. 7, 12, 13 and 18, and from this point observe that the flag set at 26.66 chs. bears S. 89° 47' W., corresponding to



Chains	
	a falling of 15 lks. S. of the cor. of secs. 7, 12, 13 and 18. Then to determine the distance from the flag at 26.66 chs. to the sec. cor., I proceed as follows, knowing that I cannot get a base line W. of the sec. cor., on account of ledges, I proceed to the ¼ cor. of secs. 13 and 18, and from this point observe that the angle bet. the sec. cor., and the point at 26.66 chs. is 53° 20', the dist. is then,
	(40.00 - 20 lks.) x tan. 53° 20' or 1.34323 = 53.46 chs.
80.12	On true random line, intersect the E. bdy. of the Tp. 15 lks. S. of the cor. of secs. 7, 12, 13 and 18,
	Thence, I chain,
	S. 89° 51' W., on true line, bet. secs. 12 and 13.
	Over rough mountainous land, asc. abruptly over rocky broken steep E. slope of high gray bluffs, through dense cedar and pinon timber and scattered sagebrush, mountain rush, shadscale, greasewood and grass undergrowth.
21.50	Head of rocky gulch, 80 ft. above sec. cor., course N. 75° E., Thence asc.more abruptly over high sandstone ledgesand boulders.
40.06	On ledgy E. slope of mountain, at base of impassable sandstone ledges, 470 ft above 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. 12 and 13, with brass cap mkd.,
	¼ S 12 / S 13 1917
	From which,
	A cedar, 12 ins. dia., bears N. 46½° W., 40 lks. dist., mkd., ¼ S 12 B T.
	A cedar, 10 ins. dia., bears S. 10° E., 120 lks. dist., mkd., ¼ S 13 B T.
	Thence asc. abruptly over impassable sandstone ledges.

Chains

It was impossible to get a base line for triangulation in this locality on account of the ledges along upper bluffs cuttingoff the flag point on line.

53.46 Triangulation point at top of high ledges, 480 ft. above ¼ cor., bear NE. and SW. Thence desc. over rocky broken top of high gray bluffs.

60.60 Rocky ravine, 60 ft. below top of ledges, course NW. Asc. gradually.

65.60 Main ridge, 50 ft. above ravine, bears N. and S. Desc. gradually. Leave timber, bears N. and S.

69.68 Triangulation point on edge of high gray bluffs, 20 ft. below top of ridge, bear N. and S. Thence desc. abruptly over high impassable sandstone ledges.

80.12 The cor. of secs. 11, 12, 13 and 14, 500 ft. below top of ledges.

Land, rough, rugged upper gray bluffs and ledgy slopes of same, general drainage to the E. and W.

Soil, rocky, sandy clay, on sandstone bedrock.

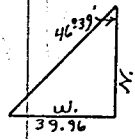
Timber, dense cedar and pinon on E. ¾ mile, balance of mile, no timber.

Undergrowth, scattered sagebrush, mountain rush, shadscale, greasewood and grass. Fair grazing on extreme E. portion of mile, no grazing on balance, too rough.

N. 0° 01' W., on true line, bet. secs. 11 and 12.

Over extremely rough, rugged mountainous land, desc. abruptly over sandstone ledges through scattered sagebrush, shadscale, mountain rush, and grass undergrowth.

It is impossible to chain N. from this cor. on account of high sandstoneledges, therefore triangulate as follows, set a point N. of the sec. cor., on top of high gray bluffs and from this latter point observe that the ¼ cor. of secs. 11 and 14, makes an angle of 46° 39' with the sec. cor., the ¼ cor. of secs. 11 and



Chains

14 is 39.96 chs. dist. W. and 7½ lks. dist. S. of the cor. of secs. 11, 12, 13 and 14, the dist. is then, 39.96 x cotan. 46° 39' or .24400 - (7½ lks.) = 37.65 chs.

25.00 Approximate bottom of rocky ravine, 380 ft. below sec. cor., course SW. Asc. abruptly over high impassable sandstone ledges.

37.65 Triangulation point at top of gray bluffs and S. edge of narrow neck of mountain, 860 ft. above ravine, bears N. 70° W., and S. 70° E. Thence over rocky top of narrow neck of mountain. Enter scattered cedar and pinons.

37.72 On narrow neck of mountain, 1 lk. west.,

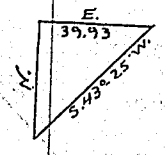
Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the W. C. to the ¼ cor. of secs. 11 and 12, with brass cap mkd.,

W C
¼
S 11 | S 12
1917

No suitable bearing trees available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W.C.

From the ¼ W. C., a chimney rock, visible for many miles E. S. or W., 70 ft. high, 20 ft. base, bears W. 1.00 ch. dist.

38.01 N. edge of narrow neck of mountain, level with ¼ W. C., bears N. 70° W. and S. 70° E. Desc. abruptly over impassable sandstone ledges, over which it is impossible to chain, therefore triangulate as follows, set a point N. from which point measure a base line E. a dist. of 39.93 chs., and from the E. end of base line, observe that the point at 38.01 chs. bears S. 43° 25' W. The dist. is then,



39.93 x cotan. 43° 25' or 1.05685 = 42.20 chs.

40.00 Point falls on sandstone ledges, where point cannot be reached.

Chains	
80.21	Triangulation point, measure S. a dist. of 21 lks. and W. a dist. of 1½ lks., and at
80.00	On rugged E. slope of mountain, 420 ft. below neck of mountain,
	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, 11 and 12, with brass cap mkd.,

T 41 S R 1 W

S 2	S 1
S 11	S 12

1917

From which,

A cedar, 6 ins. dia., bears N. 37½° E., 39 lks. dist., mkd., T 41 S R 1 W S 1 B T.

A cedar, 18 ins. dia., bears S. 14¼° E., 65 lks. dist., mkd., T 41 S R 1 W S 12 B T.

A cedar, 12 ins. dia., bears S. 22½° W., 245 lks. dist., mkd., T 41 S R 1 W S 11 B T.

A cedar, 6 ins. dia., bears N. 15° W., 65 lks. dist., mkd., T.41 S R 1 W S 2 B T.

Land, extremely rough, rugged mountainous, with many high sandstone ledges, general drainage to the SW. and E.

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

Timber, none on S. portion, scattered cedar and pinon on N. portion.

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

N. 89° 51' E., on random line, bet. secs. 1 and 12.

40.00 Set temp. point for ¼ cor.

79.36 Intersect the E. bdy. of the Tp. at the cor. of secs. 1, 6, 7 and 12, heretofore described.

Thence,

S. 89° 51' W., on true line, bet. secs. 1 and 12.

Chains	
	Over broken mountainous land, desc. gradually through scattered mountain rush, greasewood, shadscale, sagebrush and grass undergrowth.
13.20	Coyote wash, 50 ft. below cor., 1.00 ch. wide, 3 ft. deep, drains SE. Enter medium growth of cedar and pinon timber, bears with wash. Asc. gradually.
39.98	On broken E. slope, 80 ft. above wash, Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 1 and 12, with brass cap mkd., ¼ S 1 / S 12 / 1917 From which, A cedar, 8 ins. dia., bears south, 5 lks. dist., mkd., ½ S 12 B T. A cedar, 10 ins. dia., bears N. 5° E., 9 lks. dist., mkd., ½ S 1 B T.
	Asc. gradually over broken E. slope of high gray bluffs.
60.00	Asc. abruptly over high sandstoneledges and boulders, on steep E. slope of mountain.
79.96	The cor. of secs. 1, 2, 11 and 12, 510 ft. above ¼ cor. Land, broken and rough mountainous, general drainage to the E. and SE. Soil, shallow, rocky; sandy clay loam, on sandstone bedrock. Timber, medium growth of cedar and pinon. Undergrowth; scattered mountain rush, greasewood, shadscale, sagebrush and grass. Fair grazing.
	N. 0° 01' W., on true line, bet. secs. 1 and 2.
	Over rough mountainous land, asc. abruptly over high sandstone ledges through scattered cedar and pinon timber and scattered mountain rush, greasewood, shad-

Chains	
	scale, sagebrush and grass undergrowth.
	It is impossible to chain or triangulate over high projecting sandstone ledges, therefore make detour to point previously set while running line bet. secs. 2 and 11, a dist. of 11.31 chs. N. 0° 01' W., of the cor. of secs. 1, 2, 11 and 12.
11.31	Point on E. edge of narrow neck of mountain, 380 ft. above sec. cor., bears N. 30° E. and S. 30° W. Thence across rocky top of neck of mountain.
13.50	W. edge of neck of mountain, level with E. edge, bears N. 30° E. and S. 30° W. Thence desc. abruptly over sandstone ledges and boulders on steep NW. slope of mountain.
40.00	On rugged, ledgy, NW. slope of mountain, 360 ft. below top, 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 2, with brass cap mkd.,

$$\frac{\frac{1}{4}}{S\ 2 \mid S\ 1}$$

1917

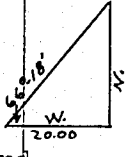
From which,

A pinon, 8 ins. dia., bears S. 34¾° E., 20 lks. dist., mkd., $\frac{1}{4}$ S 1 B T.

A pinon, 6 ins. dia., bears N. 17° W., 49 lks. dist., mkd., $\frac{1}{4}$ S 2 B T.

From the $\frac{1}{4}$ cor., junction of rocky canyons from the S. and SW., thence N. 30° E., bears W. about 20.00 chs. dist.

It is impossible to chain N. from the $\frac{1}{4}$ cor. on account of high, rugged sandstone ledges, therefore to determine the dist. to north boundary of the Tp., proceed as follows, observe that the cor. of secs. 1, 2, 35 and 36 bears N. 0° 01' W. Then from the $\frac{1}{4}$ cor. measure a base line, W a dist. of 20.01½ chs., and from the W. end of base line observe that the cor. of secs. 1, 2, 35 and 36 makes an angle of 66° 18' with the $\frac{1}{4}$ cor., the



Chains	
	dist. is then,
	20.00 x tan. 66° 18' or 2.27806 = 45.56 chs.
65.00	Approximate bottom of main canyon, 380 ft. below ¼ cor., course E. Asc. abruptly over high sandstone ledges, bear with canyon.
85.56	Triangulation point. Intersect the N. bdy. of the Tp. at the S. C. of secs. 1, 2, 35 and 36, heretofore described, 530 ft. above canyon.
	Land, extremely rugged, rough mountainous land, with high sandstone ledges throughout mile, general drainage to the NW. S. and E.
	Soil, shallow, rocky, sandy clay loam, on sandstone bedrock.
	Timber, scattered cedar and pinon.
	Undergrowth, scattered mountain rush, greasewood, shadscale, sagebrush and grass. Too rough for grazing.
	From the cor. of secs. 34 and 35 on S. bdy. of Tp. heretofore described in the notes of T. 42 S., R. 1 W.
	N. 0° 01' W., on true line, bet. secs. 34 and 35.
	Over rolling mesa land, desc. gradually through dense cedar and pinon timber, and scattered mountain rush, greasewood, sagebrush, oose-root, rabbit-brush and grass undergrowth.
40.00	On rolling 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. 34 and 35, with brass cap mkd.,
	¼
	S 34 | S 35
	1917
	From which,
	A cedar, 6 ins. dia., bears N. 7¼° E., 135 lks. dist., mkd., ¼ S 35 B T.
	A cedar, 10 ins. dia., bears S. 68½° W., 419 lks.

Chains

dist., mkd., ½ S 34 B T.

Thence asc. gradually.

79.00 Old trail, bears E. and W.

80.00 On gradual S. slope of mesa, 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. 26, 27, 34 and 35, with brass cap, mkd.,

T 41 S R 1 W

S 27	S 26
S 34	S 35

1917

From which,

A cedar, 12 ins. dia., bears N. 47° E., 120 lks. dist., mkd., T 41 S R 1 W S 26 B T.

A cedar, 20 ins. dia., bears S. 83° E., 181 lks. dist., mkd., T 41 S R 1 W S 35 B T.

A cedar, 20 ins. dia., bears S. 64° W., 666 lks. dist., mkd., T 41 S R 1 W S 34 B T.

A cedar, 16 ins. dia., bears N. 2° W., 495 lks. dist., mkd., T 41 S R 1 W S 27 B T.

Land, rolling mesa top, general drainage to the N. S. and E.

Soil, light, sandy clay loam, subsoil same.

Timber, dense cedar and pinon.

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

East, on random line, bet. secs. 26 and 35.

40.00 Set temp. point for ¼ cor.

80.15 Intersect the N. and S. line, 4 lks. S. of the cor. of secs. 25, 26, 35 and 36.

Thence,

S. 89° 58' W., on true line, bet. secs. 26 and 35.

Over rough mountainous land, asc. abruptly over sandstone ledges and boulders on steep SE. slope, through scattered

Chains	
	mountain rush, sagebrush, greasewood, rabbit-brush, and grass undergrowth.
13.40	Top of ledges and rim of mesa, 400 ft. above sec. cor., bears NE. and SW. Enter dense cedar and pinon timber, bears with mesa. Thence over rolling mesa top.
20.10	Leave cedar and pinon timber, and enter dense sagebrush, on open sagebrash flat; bear NE. and SW. Desc. gradually.
40.07½	On gradual W. slope, 40 ft. below top of ledges, Set an iron post, 2 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
	No stone available for mound; therefore, dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist. Thence asc. gradually over rolling sagebrush flat.
60.10	Enter dense cedar and pinon timber, sagebrush becomes scattered, bear NE. and SW.
80.15	The cor. of secs. 26, 27, 34 and 35, 60 ft. above ¼ cor. Land, Extreme E. portion, rough, rugged mountainous, balance of mile, rolling high mesa. General drainage to the NE. and SE.
	Soil, on rough mountainous, very rocky, sandy clay loam, and bare sandstone ledges, on sandstone bedrock.
	Timber, dense cedar and pinon, except in central ½ mile, which has no timber.
	Undergrowth, scattered mountain rush, sagebrush, greasewood, rabbit-brush and grass. Dense sagebrush in middle portion of mile. Fair grazing.

N. 0° 01' W., on true line, bet. secs. 26 and 27.

Over rolling mesa land, asc. gradually through dense cedar and pinon timber and scattered mountain rush,

Chains	
	shadscale, sagebrush, goose-root and grass undergrowth.
13.80	Low ridge, 30 ft. above sec. cor., bears W. and W.
	Thence over rolling top of ridge.
18.20	Desc. gradual N. slope.
40.00	On gradual N. slope, 80 ft. below ridge,
	Set an iron post, 3 ft. long, 1 in. dia., 28 ins. in the ground for the ¼ cor. of secs. 26 and 27, with brass cap mkd.,
	¼ S 27 | S 26 1917
	From which,
	A cedar, 24 ins. dia., bears S. 28½° E., 30 lks. dist., mkd., ¼ S 26 B T.
	A cedar, 20 ins. dia., bears N. 60½° W., 29 lks. dist., mkd., ¼ S 27 B T.
	Desc. gradually from ¼ cor.
44.90	Desc. more abruptly over broken sandstone ledges, bear E., and W.
73.30	Swale, 100 ft. below ledges, drains E. Asc. gradually.
80.00	On broken mesa, 20 ft. above swale,
	Set an ironpost, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 22, 23, 26 and 27, with brass cap mkd.,
	T 41 S R 1 W. S 22 | S 23 S 27 | S 26 1917
	From which,
	A cedar, 8 ins. dia., bears N. 36½° E., 85 lks. dist., mkd., T 41 S R 1 W S 27 B T.
	A cedar, 12 ins. dia, bears S. 64½° E., 171 lks. dist., mkd., T 41 S R 1 W S 26 B T.
	A cedar, 12 ins. dia., bears S. 49¼° W., 88 lks. dist., mkd., T. 41 S R 1 W S 27 B T.

Subdivision of T. 41 S., R. 1 W.

Chains	
	A cedar, 14 ins. dia., bears N. 9¼° W., 204 lks. dist., mkd., T.41 S R 1 W S 22 B T.
	Land, rolling and broken mesa land, general drainage to the N. S. and E.
	Soil, light, sandy clay loam, subsoil same. Both mixed with sandstone.
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, shadscale, sagebrush, oose-root and grass. Good grazing.

	N. 89° 58' E., on random line, bet. secs. 23 and 26.
40.00	Set temp. point for ¼ cor.
80.13	Intersect the N. and S. line, 9 lks. S. of the cor. of secs. 23, 24, 25 and 26.
	Thence,
	S 89° 54' W., on true line, bet. secs. 23 and 26.
	Over broken mesa land, desc. abruptly over high sandstone ledges through dense cedar and pinon timber and scattered mountain rush, greasewood, sagebrush, oose-root, rabbit brush and grass undergrowth.
8.30	Steep sandstone ravine, 170 ft. below sec. cor., course NE. Asc. abruptly over steep E. slope over sandstone ledges.
17.30	Sandstone spur, 200 ft. above ravine, projects S. about 8.00 chs. dist. Thence desc. gradually over broken mesa.
20.20	Rocky swale, 30 ft. below spur, drains S. Asc. gradually.
29.00	Asc. more abruptly over sandstone ledges, bear NE. and SW.
40.09½	On rocky mesa, on gradual E. slope, 60 ft. above swale. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 23 and 26, with brass cap mkd.,
	¼ S.23 / S 26 1917
	From which,

Chains	
	A pinon, 8 ins. dia., bears N. 28° E., 87 lks. dist., mkd., ¼ S 23 B T.
	A cedar, 14 ins. dia., bears S. 10½° E., 163 lks. dist., mkd., ¼ S 26 B T.
	Asc. gradually over rocky E. slope.
49.10	Top of rim rock, 10 ft. above ¼ cor., bears N. and S. Desc. abruptly over sandstone ledges.
60.20	Ravine, 30 ft. below rim rock, course N. Thence asc. gradually.
80.19	The cor. of secs. 22, 23, 26 and 27, 30 ft. above ravine. Land, rough broken mesa top, sandstone ledges and outcroppings. General drainage to the N. S. and NE. Soil, shallow, rocky, sandy clay loam, on sandstone bedrock. Timber, dense cedar and pinon. Undergrowth, scattered mountain rush, greasewood, sagebrush, oose-root, rabbit-brush and grass. Fair grazing.

N. 0° 01' W., on true line, bet. secs. 22 and 23.
Over broken mesa land, through dense cedar and pinon timber, and scattered greasewood, mountain rush, juniper, shadscale, sagebrush and grass undergrowth.

29.00 Desc. gradually.

40.00 On gradual N. slope, 80 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, 2 ft. base, for the ¼ cor. of secs. 22 and 23, with brass cap mkd.,

¼
S 22 | S 23
1917

From which,
A cedar, 6 ins. dia., bears S. 60° E., 16 lks. dist., mkd., ¼ S 23 B T.
A cedar, 16 ins. dia., bears S. 16¼° W., 83 lks. dist., mkd., ¼ S 22 B T.

Chains	
	Desc gradually.
47.10	Desc. abruptly into steep canyon over sandstone ledges bear N. 70° E. and SW.
51.50	Steep ledgy fork of Coyote canyon, 190 ft. below ¼ cor., course E. Asc. abruptly over steep sandstone ledges, bear with canyon.
67.80	Ridge along canyon edge, 230 ft. above canyon, bears E. and W. Desc. over steep sandstone ledges, bear with ridge.
73.70	Steep sandstone ravine, 130 ft. below ridge, course E, Asc abruptly over sandstone ledges along ravine.
80.00	On broken mesa, 70 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. 14, 15, 22 and 23, with brass cap mkd.,

T 41 S R 1 W

S 15	S 14
S 22	S 23

1917

From which,

A pinon, 8 ins. dia., bears N. 65½° W., 72 lks. dist., mkd., T 41 S R 1 W S 15 B T.

A pinon, 12 ins. dia., bears S. 31½° E., 72 lks. dist., mkd., T 41 S R 1 W S 23 B T.

A pinon, 8 ins. dia., bears S. 59° W., 87 lks. dist., mkd., T 41 S R 1 W S 22 B T.

A cedar, 12 ins. dia., bears N. 45 E., 22 lks. dist., mkd., T 41 S R 1 W S 14 B T.

Land, broken mesa land, cut by deep ledgy canyons, draining E.

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

Timber, dense cedar and pinon.

Undergrowth, scattered greasewood, mountain rush, juniper, shadscale, sagebrush and grass. Fair grazing.

Chains	
	N. 89° 54' E., on random line, bet. secs. 14 and 23.
40.00	Set temp. point for ¼ cor.
79.82	Intersect the N. and S. line 7 lks. N. of the cor. of secs. 13, 14, 23 and 24.
	Thence,
	S. 89° 57' W., on true line, bet. secs. 14 and 23.
	Over broken mesa land, desc. gradually through dense cedar and pinon timber and scattered mountain rush, sagebrush and grass undergrowth.
1.20	Ravine, 10 ft. below cor., course NW. Thence asc. gradually.
15.00	Rim of mesa and edge of canyon, 20 ft. above ravine, bears NW. and SE. Desc. abruptly over high sandstone ledges.
22.00	Coyote canyon, dry, 240 ft. below mesa, course SE. Asc. abruptly over steep sandstone ledges.
79.31	On rocky NE. slope, 180 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 ¼ cor. of secs. 14 and 23, with brass cap mkd.,

¼ S 14 / S 23 1917

From which,

A cedar, 12 ins. dia., bears N. 68½° E., 36 lks. dist., mkd., ¼ S 14 B T.

A pinon, 6 ins. dia., bears S. 28° E., 38 lks. dist., mkd., ¼ S 23 B T.

	Asc. abruptly from ¼ cor.
47.60	Top of ledges and rim of broken mesa, 80 ft. above ¼ cor., bears NW. and SE. Thence over broken mesa top.
79.82	The cor. of secs. 14, 15, 22 and 23, level with top of ledges.
	Land, broken mesa cut by deep canyon draining to the SE.
	Soil, shallow, rocky, sandy clay loam, on sand stone bedrock.

Chains	
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, sagebrush and grass.
	Fair grazing.
	N. 0° 01' W., on true line, bet. secs. 14 and 15.
	Over broken mesa land, desc. gradually through dense cedar and pinon timber and scattered mountain rush, greasewood, juniper and grass undergrowth.
11.00	Asc. abruptly to top of sandstone butte.
15.00	Sandstone butte 60 ft. above sec. cor., 3 chs. long, 1 ch. wide, bears E. and W. Desc. abruptly from top of butte over sandstone ledges.
20.00	Thence desc. gradually over broken mesa.
40.00	On gradual N. slope of mesa, 20 ft. below butte,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the the ground for the ¼ cor. of secs. 14 and 15, with brass cap mkd.,

¼

S 15 | S 14

1917

From which,

A pinon, 22 ins. dia., bears N. 45° E., 192 lks. dist., mkd., ¼ S 14 B T.

A cedar, 5 ins. dia., bears N. 38° W., 42 lks. dist., mkd., ¼ S 15 B T.

Desc. gradually.

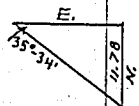
76.00	Coyote wash, 20 ft. below ¼ cor., 40 lks. wide, 2 ft. deep, course SW. Asc. gradually.
80.00	On gradual S. slope, 10 ft. above wash,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 10, 11, 14 and 15, with brass cap mkd.,

T 41 S R 1 W

S 10 | S 11

S 15 | S 14

1917

Chains	
	From which,
	A pinon, 10 ins. dia., bears N. 67¼° E., 63 lks. dist., mkd., T 41 S R1 W S 11 B T.
	A pinon, 12 ins. dia., bears S. 61½° E., 142 lks. dist., mkd., T 41 S R 1 W S 14 B T.
	A pinon, 8 ins. dia., bears S. 63¼° W., 138 lks. dist., mkd., T 41 S R 1 W S 15 B T.
	A cedar, 8 ins. dia., bears N. 42¼° W., 85 lks. dist., mkd., T 41 S R 1 W S 10 B T.
	Land, broken mesa, general drainage NE. and SE.
	Soil, sandy clay loam, mixed with sandstone, on rocky clay loam subsoil.
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, greasewood, juniper, and grass. Fair grazing.
	N. 89° 57' E., on random line, bet. secs. 11 and 14.
40.00	Set temp. point for ¼ cor.
63.45	Base of high ledges over which it is impracticable to chain, therefore triangulate as follows, observe that the cor. of secs. 11, 12, 13 and 14, bears N. 89° 42' E., or my falling at the sec. cor., on random line, 1s 8 lks. S. I then offset N. to a point W. of the sec. cor., from which point the flag previously set 11.78 chs. dist., S. of the sec. cor., makes an angle of 35° 34' with the sec cor., the dist. is then,
	
	11.78 x cotan. 35° 34' or 1.39850 = 16.47 chs.
79.92	On random line, intersect the N. and S. line, 8 lks. S. of the cor. of secs. 11, 12, 13 and 14,
	Thence,
	S. 89° 54' W., on true line, bet. secs. 11 and 14.
	Over rough mountainous land, desc. abrupt W. slope over sandstone ledges through scattered mountain rush, greasewood, shadscale, rabbit-brush and grass undergrowth.
16.47	Triangulation point. Enter dense cedar and pinon timber. Bears NW. and SE.

Chains	
25.30	Rocky ravine, 320 ft. below sec. cor., course S. Asc. abruptly over broken sandstone ledges.
34.90	Rocky spur, 80 ft. above ravine, projects SW. about 10.00 chs.dist. Desc. gradually.
39.96	On gradual SW. slope, 40 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, 2½ ft. base, for the ¼ cor. of secs. 11 and 14, with brass cap mkd., ¼ S 11 / S 14 / 1917. From which, A cedar, 18 ins. dia., bears S. 31¼° E., 169 lks. dist., mkd., ¼ S 14 B T. A cedar, 14 ins. dia., bears N. 72½° W., 115 lks. dist., mkd., ¼ S 11 BT. Desc. gradually.
41.80	Ravine, 10 ft. below ¼ cor., course S. Asc. gradually over broken mesa land.
67.80	Small spur, 40 ft. above ravine, projects S. about 15.00 chs. dist.. desc, gradually.
79.32	The cor. of secs. 10, 11, 14 and 15, 30 ft. below spur. Land, rough mountainous on E. portion and broken mesa on balance of mile, general drainage to the S. and SW. Soil, E. portion, shallow, sandy, rocky, clay loam, on sandstone bedrock. W. portion deep, sandy clay loam, subsoil same, with some sandstone outcroppings. Timber, none on E. portion, Dense cedar and pinon on W. ¾ mile. Undergrowth, scattered mountain rush, greasewood, shadscale, rabbit-brush and grass. Fair grazing.

N. 0°01' W., on true line, bet. secs. 10 and 11,
Over broken bench land, asc. gradually through dense cedar and pinon timber and scattered mountain rush,

Chains	
	rabbit-brush, greasewood, sagebrush and grass under-growth.
31.00	Timber becomes scattered and sagebrush becomes dense, bear NE. and SW.
40.00	On gradual S. slope of sagebrush flat, 40 ft. above sec. cor.,
	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground for the ¼ cor. of secs. 10 and 11, with brass cap mkd.,
	S 10 | S 11 1917
	from which,
	A cedar, 8 ins. dia., bears S. 61½° E., 350 lks. dist., mkd., ¼ S 11 B T.
	A cedar, 18 ins. dia., bears N. 75° W., 227 lks. dist., mkd., ¼ S 10 B T.
	Asc. gradually.
45.00	Sagebrush becomes scattered and timber becomes dense, bear E. and W.
51.70	Top of ascent, 70 ft. above ¼ cor., bears E. and W., thence desc. gradually.
57.70	Rocky ravine, 30 ft. below top of ascent, course W. Asc. gradually over broken rocky SW. slope.
80.00	On rocky SW. slope, 40 ft. above ravine,
	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. 2, 3, 10 and 11, with brass cap mkd.,
	T 41 S R 1 W S 2 | S 2 S 10 | S 11 1917
	From which,
	A pinon, 8 ins. dia., bears N. 53° E., 69 lks. dist., mkd., T 41 S R 1 W S 2 B T.

Chains

A pinon, 12 ins. dia., bears S. 21¾° W., 40 lks. dist., mkd., T 41 S R 1 W S 10 B T.

A pinon, 8 ins. dia., bears S. 50½° E., 14 lks. dist., mkd., T 41 S R 1 W S 11 B T.

A pinon, 12 ins. dia., bears N. 62½° W., 171 lks. dist., mkd., T 41 S R 1 W S 3 B T.

Land, rolling and broken mesa, general drainage to the S. and W.

Soil, sandy, clay loam, mixed with much sandstone on the N. portion of mile, subsoil sandy clay loam, mixed with sandstone.

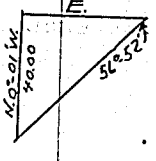
Timber, dense and scattered cedar and pinon.

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

Fair grazing.

N. 89° 54' E., on random line, bet. secs. 2 and 11.

It is impossible to chain E. from the sec. cor., on account of high gray sandstone bluffs, therefore triangulate as follows, set a point E. at top of ledges and from this point observe that the ¼ cor. of secs. 10 and 11, makes an angle of 56° 32', with the sec. cor., the dist. is then,



40.00 x cotan. 56° 32' or .66105 + 1 lk. = 26.45 chs.

26.45 Triangulation point.

40.00 Set temp. point for ¼ cor.

75.26 On edge of high sandstone ledges, impossible to chain farther and as it is also impossible to get a base line for triangulation, on account of projecting ledges, observe that my falling at the cor. of secs. 1, 2, 11 and 12 is 12. lks. N. Then to determine the dist. of the mile, proceed as follows, offset N. a dist. of 657 lks. thence N. 89° 54' E., on offset line.

77.53 On account of ledges offset N. a dist. of 2.33 chs. N. to a point 8.30 chs. N. of random line, thence N. 89°

Subdivision of T. 41 S., R. 1 W.

Chains	
	54' E., on offset line.
78.42	On account of ledges offset N. a dist. of 3.43 chs. to a point 12.33 chs. N. of the random line, thence N. 89° 54' E., on random offset line.
80.12	Thence S. 1.13 chs. to a point 11.20 chs. N. of the random line and 11.31 chs. N. of the cor. of secs. 1, 2, 11 and 12. The length of this mile is therefore, 80.12 chs. and the course S. 89° 59' W.,
	Thence, from the sec. cor.,
	S. 89° 59' W., on true line, bet. secs. 2 and 11.
	Over rough mountainous land, asc. abruptly over high sandstone ledges through dense cedar and pinon timber and scattered mountain rush, sagebrush, greasewood, shadscale and grass undergrowth.
	It is impossible to chain or triangulate W. from this cor. on account of high rim of sandstone ledges, therefore make detour to the offset point at top of ledges.
4.16	Offset point at top of sandstone ledges and rim of point or narrow neck of mountain, 380 ft. above sec. cor., bears N. 30° E. and S. 30° W. Thence Desc. abruptly over sandstone ledges.
11.80	Rocky ravine, 80 ft. below neck of mountain, course N. Asc. abruptly over sandstone ledges.
14.20	Sandstone spur, 40 ft. above ravine, projects N. about 20.00 chs. dist. Desc. abrupt W. slope.
18.80	Rocky canyon, 100 ft. below spur, course N. Asc. abrupt E. slope, over high sandstone ledges.
27.70	Top of high ledges and rim of broken mesa, 300 ft. above canyon, bears N. and S. Thence asc. gradually over broken NE. slope of mesa.
40.08	On top of mesa, 330 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 ¼ cor. of secs. 2 and 11, with brass cap mkd.,

$\frac{S\ 2}{S\ 11}$ 1917

Chains	
	From which,
	A cedar, 8 ins. dia., bears S. 2¼° E., 41 lks. dist., mkd., ½ S 11 B.T.
	A pinon, 12 ins. dia., bears N. 22½ W., 37 lks. dist., mkd., ½ S 2 B T.
	Thence desc. gradually.
44.00	Desc. abruptly over steep ledgy W. slope.
53.67	Triangulation point on ledgy W. slope of mountain, Desc abruptly over high ledges over which it is impossible to chain, bear N. and S.
80.12	Triangulation point and cor. of secs. 2, 3, 10 and 11, 920 ft. below ¼ cor.
	Land, very rough rugged mountainous with numerous high impassable sandstone ledges.
	Soil, shallow rocky, sandy clay loam, on sandstone bed-rock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, sagebrush, grease-wood, shadscale and grass. Too rough for grazing.

N. 0° 01' W., on true line, bet. secs. 2 and 3.

Over broken mountainous land, asc. gradually through dense cedar and pinon timber and scattered mountain rush, sagebrush, juniper, shadscale and grass undergrowth.

40.00 On broken S. slope, 40 ft. above sec. cor.,

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. 2 and 3, with brass cap mkd.,

¼

S 3 | S 2

1917

From which,

A pinon, 6 ins.dia., bears S. 28° E., 62 lks. dist., mkd., ½ S 2 B.T.

Chains	
	A pinon, 10 ins. dia., bears N. 40° W., 63 lks. dist., mkd., ¼ S 3 B.T.
	Asc. gradually over broken S. slope of narrow mesa, along W. base of high gray bluffs.
85.36	Intersect the S.T. Cor. of secs. 2, 3, 34 and 35, heretofore described, 110 ft. above ¼ cor.
	Land, broken mountainous, general drainage to the W. and S.
	Soil, shallow, sandy rocky, clay loam, on rocky, clay subsoil.
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, sagebrush, juniper, shadscale and grass. Fair grazing.
	From the cor. of secs. 33 and 34 on S. bdy. of Tp. described in the notes of T. 42 S., R. 1 W.,
	N. 0° 02' W., on true line, bet. secs. 33 and 34.
	Over rough mountainous land, asc. abruptly over broken sandstone ledges through scattered cedar and pinon timber and scattered mountain rush, sagebrush, greasewood, rabbit-brush and grass undergrowth.
10.40	Rocky spur, 170 ft. above sec. cor., projects SW. Desc. abrupt N. slope over sandstone ledges.
27.00	Rocky ravine, 210 ft. below spur, course W. Asc. steep SW. slope over numerous series of sandstone ledges.
40.00	On rocky ledgy SW. slope, 200 ft. above ravine,
	Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 33 and 34, with brass cap mkd.,
	¼ S 33 | S 34 1917
	From which,
	A cedar, 12 ins. dia., bears S. 73½° E., 34 lks. dist., mkd., ½ S 34 B.T.

Chains	
	A cedar, 10 ins. dia., bears S. 24° W., 52 lks. dist., mkd., ¼ S 33 B T.
	Continue abrupt ascent over high sandstone ledges.
54.20	Top of ledges and rim of mesa, 410 ft. above ¼ cor., bears NW. and SE. Thence over rolling mesa land.
80.00	On rolling mesa, level with top of ledges, 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 41 S R 1 W

S 28	S 27
S 33	S 34

1917

From which, a

A cedar, 20 ins. dia., bears N. 43½° E., 226 lks. dist., mkd., T 41 S R 1 W S 27 B T.

A cedar, 13 ins. dia., bears S. 64¼° E., 605 lks. dist., mkd., T 41 S R 1 W S 34 B T.

A cedar, 10 ins. dia., bears S. 73° W., 163 lks. dist., mkd., T 41 S R 1 W S 33 B T.

A cedar, 12 ins. dia., bears N. 20½° W., 210 lks. dist., mkd., T 41 S R 1 W S 28 B T.

Land, S. portion rough, rugged mountainous with high sandstone ledges, N. portion rolling mesa. General drainage to the W. and S.

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

Timber, scattered cedar and pinon.

Undergrowth, scattered mountain rush, sagebrush, greasewood, rabbit-brush and grass. Fair grazing on mesa, balance of mile too rough.

	East, on random line, bet. secs. 27 and 34.
40.00	Set temp. point for ¼ cor.
73.36	Intersect the N. and S. line, 18 lks. S. of the cor. of

Chains	
	secs. 26, 27, 34 and 35.
	Thence,
	S. 89° 52' W., on true line, bet. secs. 27 and 34.
	Over rolling mountainous or mesa land, through dense cedar and pinon timber and scattered sagebrush, greasewood, mountain rush, rabbit-brush, oose-root and grass undergrowth.
2.50	Old cattle trail, bears N. and S.
25.00	Leave timber, bears N. and S. Thence over sagebrush flat.
39.98	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. 27 and 34, with brass cap mkd.,
	¼ S 27 S 34. 1917
	No stone available for mound, therefore dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Thence over nearly level mesa land.
63.30	Asc. gradually.
64.00	Small low ridge, 40 ft. above ¼ cor., bears N. and S.
	Thence over level mesa land. Enter cedar and pinon timber.
79.96	The cor. of secs. 27, 28, 33 and 34, level with ridge.
	Land, rolling mesa top, general drainage to the SE. and SW.
	Soil, light, sandy clay loam, subsoil same.
	Timber, scattered cedar and pinon.
	Undergrowth, scattered sagebrush, greasewood, mountain rush, rabbit-brush, oose-root and grass. Good grazing.
	N. 0° 02' W., on true line, bet. secs. 27 and 28;
	Over rolling mesa land asc. gradually through scattered cedar and pinon timber and scattered mountain rush, greasewood, sagebrush, shadscale, rabbit-brush and grass undergrowth.
34.50	Low ridge, 40 ft. above sec. cor., bears E. and W. Desc.

Chains	
	gradually.
40.00	On gradual N. slope, 10 ft. below topof ridge, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 27 and 28, with brass cap mkd.,

¼

S 28 | S 27

1917

From which,

A cedar, 30 ins. dia., bears S. 15° E., 61 lks. dist., mkd., ¼ S 27 BT.

A cedar, 4 ins. dia., bears S. 20° W., 32 lks. dist., mkd., ¼ S 28 B T.

70.00	Leave timber, bears E. and W.
80.00	On rolling mesa, 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. 21, 22, 27 and 28, with brass cap mkd.,

T 41 S R 1 W

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 mesa top, general drainage to the N. and S.

Soil, light, sandy clay loam, subsoil same. Some sandstone outcroppings.

Timber, scattered cedar and pinon.

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

	N. 89° 52' E., on random line, bet. secs. 22 and 27.
40.00	Set temp. point for ¼ cor.
79.89	Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 22, 23, 26 and 27.
	Thence,

Chains	
	S. 89° 51' W., on true line, bet. secs. 22 and 27.
	Over broken mesa land, asc. abruptly over sandstone ledges through dense cedar and pinon timber and scattered mountain rush, sagebrush, rabbit-brush, greasewood and grass undergrowth.
6.00	Top of ledges and E. edge of narrow butte, 80 ft. above sec. cor., bear N. and S. Thence over top of butte.
7.00	W. edge of butte, level with E. edge, bears N. and S. Desc. abruptly over sandstone ledges.
10.00	Rocky ravine, 100 ft. below butte, course N. Thence asc. gradually over broken mesa land.
39.91	On broken E. slope, 40 ft. above ravine,
	Set an iron post, 3 ft. long, 1 in. dia., 8 ins. in the ground to bedrock, 12 ins. in a mound of stone, 24 ft. base, for the ¼ cor. of secs. 22 and 27. with brass cap mkd.,
	S 22 / S 27 1917
	From which,
	A cedar, 16 ins. dia., bears S. 42° W., 41 lks. dist., mkd., ¼ S 27 B. T.
	A cedar 14 ins. dia., bears N. 55° W., 51 lks. dist., mkd., ¼ S 22 B. T.
	Asc. gradually.
50.00	Asc. abruptly over sandstone ledges, bear N. and S.
57.00	Top of ledges and rim rock, 30 ft. above ¼ cor., bears N. and S. Thence over rolling mesa land, leave timber and desc. gradually over sagebrush flat, bears N. and S.
72.89	The cor. of secs. 21, 22, 27 and 28, 30 ft. below top of rim rock.
	Land, broken mesa top, general drainage to the N.
	Soil, shallow sandy, rocky clay loam, on sandstone bedrock. Sandstone becomes scattered toward the W. end of mile.
	Timber, dense cedar and pinon on E. ½ mile. No timber on W. ½ mile.

Chains	
	Undergrowth, scattered mountain rush, sagebrush, rabbit-brush, greasewood and grass. Fair grazing.
	N. 0° 02' W., on true line, bet. secs. 21 and 22.
	Over rolling mesa land, through scattered mountain rush, sagebrush, greasewood, shadscale, rabbit-brush and grass undergrowth.
35.00	Enter dense cedar and pinon timber, bears NE. and SW.
37.30	Desc. abruptly over sandstone ledges, bear W. and E.
40.00	At base of sandstone ledges, 40 ft. below 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. 21 and 22, with brass cap mkd.,

¼

S 21 | S 22

1917

From which,

A pinon, 14 ins. dia., bears S. 69½° E., 53 lks. dist., mkd., ¼ S 22 B T.

A pinon, 10 ins. dia., bears N. 61° W., 10 lks. dist., mkd., ¼ S 21 B T.

Thence desc. gradually over broken N. slope.

53.30 Ravine, 40 ft. below ¼ cor., course NE. Thence asc. gradually over broken mesa land.

70.90 Asc. abruptly over sandstone ledges, bear E. and W.

79.20 Sandstone ridge, 70 ft. above ravine, bears NE. and SW. Desc. gradually.

80.00 On gradual NW. slope, 20 ft. below ridge, 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. 15, 16, 21 and 22, with brass cap mkd.,

T 41 S R 1 W

S 16 | S 15

S 21 | S 22

1917

Chains	
	From which,
	A pinon, 8 ins. dia., bears N. 30½° E., 85 lks. dist., mkd., T 41 S R 1 W S 15 B T.
	A pinon, 6 ins. dia., bears S. 55½°E., 46 lks. dist., mkd., T 41 S R 1 W S 22 BT.
	A pinon, 6 ins. dia., bears S. 61½°.W., 99 lks. dist., mkd., T 41 S R 1 W S 21 B T.
	A pinon. 4 ins. dia., bears N. 54° W., 49 lks. dist., mkd., T 41 S R 1 W S 16 B T.
	Land, broken mesa, with sandstone outcroppings and ledges, general drainage to the E. and NE.
	Soil, S. ½ mile, light, sandy clay loam, subsoil same, N. ½ mile, shallow, sandy, rocky clay loam on sandstone bedrock.
	Timber, none on S. portion of mile, dense cedar and pinon on N. portion. Fair grazing. Undergrowth mountain rush, sagebrush, greasewood, shadscale and rabbit brush.

	N. 89° 51'W., on random line, bet. secs. 15 and 22.
40.00	Set temp. point for ¼ cor.
80.15	Intersect the E. and S. line, 28 lks. N. of the cor. of secs. 14, 15, 22 and 23.
	Thence,
	N. 89° 57' W., on true line, bet. secs. 15 and 22.
	Over broken mesa land, asc. over broken sandstone ledges through dense cedar and pinon timber and scattered sagebrush, juniper, cose-root, mountain rush, greasewood and grass undergrowth.
8.60	Sandstone spur, 40 ft. above cor., projects SW. about 5.00 chs. dist. Desc. over rocky W. slope.
24.00	Rocky ravine, 70 ft. below spur, course SE. Thence asc. gradually.
34.00	Sandstone spur, 20 ft. above ravine, projects N. about 1.00 ch. dist. Desc. gradually.
35.10	Bend in spur, 20 ft. below spur, projects from the NW. to NE. Desc. gradually.

Chains	
40.07½	On broken mesa, 10 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, 2½ ft. base, for the ¼ cor. of secs. 15 and 22, with brass cap mkd., ¼ S 15 / S 22 1917 From which, A cedar, 10 ins. dia., bears N. 1½° W., 107 lks. dist., mkd., ¼ S 15 B T. A pinon, 12 ins. dia., bears S. 8° W., 90 lks. dist., mkd., ¼ S 22 B T.
	Asc. over rocky SW. slope.
48.60	Sandstone spur, 50 ft. above ¼ cor., projects NE. about 3 chs. dist., desc. over broken sandstone ledges.
55.90	Rocky ravine, 40 ft. below spur, course NE. Asc. abruptly over sandstone ledges.
66.30	Sandstone spur, 100 ft. above ravine, projects SE. Desc. abruptly.
72.20	Ravine, 50 ft. below spur, course SE. Asc. abruptly over sandstone ledges.
72.10	Rocky ridge, 80 ft. above ravine, bears NE. and SW. Desc. gradually.
80.15	The cor. of secs. 15, 16, 21 and 22, 20 ft. below ridge.
	Land, very broken mesa, general drainage to the E.
	Soil, shallow, rocky, sandy clay loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered sagebrush, juniper, oose-root, mountain rush, greasewood and grass. Poor grazing.

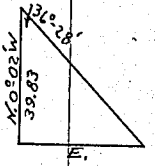
N. 0° 02' W., on true line, bet. secs. 15 and 16.

Over broken mesa land, asc. gradually through dense cedar and pinon timber and scattered mountain rush, greasewood, rabbit-brush, oose-root, sagebrush and grass undergrowth.

Chains	
8.70	Rim of mesa and edge of Cottonwood canyon, 20 ft. above sec. cor., bears S. 60° W., and NE. Desc. abruptly over almost impassable sandstone ledges on steep rugged NW. slope of mountain.
40.00	On rugged NW. slope, 250 ft. below mesa,
	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. 15 and 16, with brass cap mkd.,
	¼ S 16 | S 15 1917
	From which,
	A pinon, 12 ins. dia., bears S. 36½° E., 31 lks. dist., mkd., ¼ S 15 B T.
	A cedar, 10 ins. dia., bears S. 86¾° W., 82 lks. dist., mkd., ¼ S 16 B T.
	Continue abrupt descent.
51.70	Rocky ravine, 300 ft. below ¼ cor., course SW. Leave timber, bears NE. and SW. Asc. abruptly over steep clay S. slope.
56.30	Clay spur, 100 ft. above ravine, projects W. about 20.00 chs. dist. Trail leading from Cottonwood canyon to mesa above, bears E. and W. on top of clay spur. Desc. abruptly over steep clay N. slope.
63.20	Ravine, 100 ft. below spur, course W. Asc. over clay hills at foot of sandstone ledges.
80.00	On rolling clay hills, on S. slope, 70 ft. above ravine,
	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 1 W S 9 | S 10 S 16 | S 15 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.

Chains	
	Land, S. portion rough ledgy mountainous; N. portion steep clay hills, general drainage to the W.
	Soil, on S. portion, shallow, rocky sandy clay loam, on sandstone bedrock. N. portion blue and brown clay, subsoil same, mixed with sandstone.
	Timber, dense cedar and pinon on S. portion, no timber on N. portion.
	Undergrowth, scattered mountain rush, greasewood, rabbit-brush, oose-root, sagebrush and grass. Poor grazing.

	S. 89° 57' E., on random line, bet. secs. 10 and 15.
	It is impossible to chain E. from the sec. cor., on account of high sandstone ledges, therefore triangulate as follows, It is impracticable to set a point at top of ledges on random line, on account of sandstone boulder, therefore set a point N. 89° 41' E., and then from the ¼ cor. of secs. 9 and 10, observe that this point makes an angle with the sec. cor., of 36° 28'. The dist. is then,
	39.83 x tan. 36° 28' or .73906 - 2 lks. = 29.42
29.42	Triangulation point. Offset S. 20 lks. to random line, thence S. 89° 57' E., on random line.
40.00	Point falls in sandstone ledges.
42.33	Set temp. point for ¼ W. C.
80.10	Intersect the N. and S. line, 24 lks. S. of the cor. of secs. 10, 11, 14 and 15.
	Thence,
	S. 89° 53' W., on true line, bet. secs. 10 and 15.
	Over broken mesa land, desc. gradually through dense cedar and pinon timber and scattered mountain rush, greasewood, rabbit-brush, juniper and grass undergrowth.
1.20	Coyote wash, 10 ft. below cor., 40 lks. wide, 6 ins. deep, drains SE. Asc. gradually over broken E. slope.
24.70	Asc. more abruptly over rocky E. slope.
37.77	On rocky E. slope, 220 ft. above wash,



Chains	
	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. 10 and 15, with brass cap mkd.,
	WC ¼ S 10 / S 15 / 1917
	From which,
	A pinon, 8 ins. dia., bears S. 56° E., 65 lks. dist., mkd. WC ¼ S 15 B T.
	A cedar, 6 ins. dia., bears N. 31½° E., 40 lks. dist., mkd. WC ¼ S 10 B T.
	Asc. gradually.
38.30	Sharp sandstone spur, 20 ft. above ¼ W. C., projects NE. Desc. abruptly over sandstone ledges.
40.05	Point falls on sandstone ledges where cor. cannot be set.
41.10	Rocky gulch, 30 ft. below spur, course from NW. to NE. Asc. abruptly over steep sandstone ledges on E. slope.
50.68	Triangulation point at top of ledges and rim of Cottonwood canyon, 230 ft. above gulch, bears N. 35° E. and SW. Desc. abruptly over high impassable sandstone ledges.
80.10	The cor. of secs. 9, 10, 15 and 16, 620 ft. below top of ledges.
	Land, broken and rough mountainous with many high sandstone ledges. General drainage to the S. and W.
	Soil, shallow, rocky, sandy clay loam, on sandstone bedrock.
	Timber, dense cedar and pinon on E. 70 chs., no timber on balance of mile.
	Undergrowth, scattered mountain rush, greasewood, rabbitbrush, juniper and grass. Fair grazing on E. ½ mile, balance of mile too rough.
	N. 0° 02' W., on true line, bet. secs. 9 and 10.
	Over broken mountainous land, asc. gradually through

Chains	
	scattered sagebrush, greasewood and shadscale undergrowth.
.20	Spur, 10 ft. above sec. cor., projects W. Desc. abruptly over steep clay N. slope.
7.70	Ravine, 100 ft. below spur, course W. Asc. steep slide rock and clay S. slope.
12.70	Coal vein, bears N. 20° E. and S. 20° W., 4 ft. thick, soft coal. Desc. abruptly. 100 ft. above ravine.
31.00	Enter scattered cedar and pinon timber, bears E. and W. Thence over rolling canyon bottom.
40.00	At foot of sandstone ledges, bear E. and W., 170 ft. below coal vein,
	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. 9 and 10, with brass cap mkd.,
	¼ S 9 | S 10 1917
	From which,
	A cedar, 8 ins. dia., bears S. 13° W., 198 lks. dist., mkd., ¼ S 9 B T.
	No suitable bearing tree in sec. 10, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Asc. abruptly over sandstone ledge.
40.70	Top of ledge, 30 ft. above ¼ cor., bears E. and W. Asc. gradually to top of sandstone point.
49.60	Top of sandstone point or butte, 60 ft. above ¼ cor., bears NE. and SW. Desc. abruptly.
54.50	Thence over rolling canyon valley, 50 ft. below ledge. Leave timber, bears NE. and SW.
80.00	On rolling Cottonwood canyon valley, 80 ft. below butte,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 3, 4, 9 and 10, with brass cap mkd.,

Chains

T 41 S R 1 W

S 4	S 3
S 9	S 10

1917

From which,

A cottonwood, 26 ins. dia., bears N. 29½° E., 237 lks. dist., mkd., T 41 S R 1 W S 3 B T.

A cottonwood, 20 ins. dia., bears S. 60½° W., 249 lks. dist., mkd., T.41 S R 1 W S 9 B T.

A cottonwood, 18 ins. dia., bears N. 15½° W., 125 lks. dist., mkd., T 41 S R 1 W S 4 B T.

No other bearing tree available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, west of cor.

Land, broken canyon side and bottom, general drainage to the W. and S.

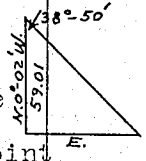
Soil, sandy clay loam, subsoil same. Numerous sandstone outcroppings.

Timber, scattered cedar and pinon. Cottonwood along creek.

Undergrowth, scattered sagebrush, greasewood and shadscale. Poor grazing.

N. 89° 53' E., on random line, bet. secs. 3 and 10.

It is impossible to chain E. from the sec. cor., on account of high sandstone ledges, therefore triangulate as follows to top of ledges, set a point on top of the ledges, N. 89° 45' E., it is impracticable to set point on the random line on account of projecting ledges, then while running the line bet. secs. 3 and 4, from a point 59.22 chs. dist., N. 0° 02' W., of the cor. of secs. 3, 4, 9 and 10, observe that the point set at the top of ledges makes an angle of 38° 50' with the sec. cor., the dist. is then,



59.01 x tan. 38° 52' or .80594 = 47.56 - 4 lks. = 47.52.

40.00 Point falls on inaccessible sandstone ledges.

47.52 Triangulation point. Offset S. a dist. of 11 lks. to random line, set temp. point for ¼ W.C., thence N. 89° 53' E., on random line.

Chains	
80.10	Intersect the N. and S. line, 2 lks. N. of the cor. of secs. 2, 3, 10 and 11.
	Thence,
	S. 89° 54' W., on true line, bet. secs. 3 and 10.
	Over rough mountainous land, desc. abruptly over broken sandstone ledges through dense cedar and pinon timber and scattered mountain rush, greasewood, juniper, sage-brush and grass undergrowth.
18.30	Rocky canyon, 100 ft. below sec. cor., course S. Asc. abruptly over sandstone ledges.
32.58	Triangulation point at top of steep sandstone ridge, 450 ft. above canyon, bears N. 10° E. and S. 10° W. Desc. abruptly over sandstone ledges.
32.67	At base of top ledges of ridge, 20 ft. below top,
	Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone bedrock, 26 ins. in the mound of stone, 4 ft. base, for the W. C. to the ¼ cor. of secs. 3 and 10, with brass cap mkd.,
	$WC \frac{S\ 3}{S\ 10}$
	1917
	No suitable bearing trees available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Desc. abruptly over steep, ledgy W. slope of ridge.
	Leave timber, bears N. and S.
40.05	Point falls on side of sandstone ledges where cor. cannot be set.
80.10	The cor. of secs. 3, 4, 9 and 10, 820 ft. below W.C.
	Land, broken and rough mountainous with sandstone ledges throughout mile, general drainage to the S. and W.
	Soil, shallow, sandy, rocky clay loam, on sandstone bedrock.
	Timber, dense cedar and pinon on E. ½ mile, no timber on balance of mile.
	Undergrowth, scattered mountain rush, greasewood, juniper, sagebrush and grass. Poor grazing.

Chains	
	N. 0° 02' W., on true line bet. secs. 3 and 4.
	Over rolling canyon bottom, desc. gradually through scattered cottonwood timber and scattered greasewood, shadscale, mountain rush and grass undergrowth.
7.10	Cottonwood creek, dry, in wash, 10 ft. below sec. cor., 1.00 ch. wide, 8 ft. deep, drains SW. Thence crossing and recrossing same creek.
20.00	Leave creek, course from N. 20° E. to S. 20° W. Asc. abruptly over bare sandstone on steep E. slope. Leave cottonwood timber and enter scattered cedar and pinon timber, bear with canyon.
27.80	Sandstone spur, 80 ft. above creek, projects E. about 8.00 chs. dist. Desc. abruptly.
30.00	Ravine, 50 ft. below spur, course E. Asc. abruptly over bare sandstone on steep SE. slope.
40.00	Point falls on sandstone ledges where cor. cannot be set. Asc. abruptly.
40.51	On bare sandstone steep SE. slope, 240 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. 3 and 4, with brass cap mkd., ¼ S 4 | S 3 W C 1917 From which, A pinon, 6 ins. dia., bears N. 44° E., 24 lks. dist., mkd., W C ¼ S 3 B T. A pinon, 12 ins. dia., bears west, 12 lks. dist., mkd., W C ¼ S 4 B T.
	Asc. gradually over steep, sandstone SE. slope.
59.22	Point for triangulation bet. secs. 3 and 10.
77.40	Sandstone spur, 250 ft. above ¼ W. C., projects E. about 15.00 chs. dist., Desc. abruptly over steep sandstone N. slope.
84.40	Sandstone gulch, 280 ft. below spur, course E. Asc.

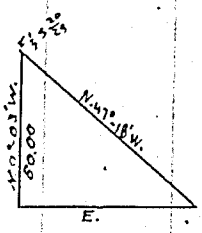
Chains	
	abruptly over steep sandstone ledges.
85.56	Intersect the S. C. of secs. 3, 4, 33 and 34, heretofore described, 120 ft. above gulch.
	Land, S. ¼ mile, rolling canyon bottom, balance steep rough mountainous land, general drainage to the E. and S.
	Soil, S. ¼ mile, light, sandy clay loam, subsoil same, balance of mile, very shallow, sandy clay loam, on sandstone bedrock, much bare sandstone.
	Timber, scattered cedar and pinon and cottonwood.
	Undergrowth, scattered greasewood, shadscale, mountain rush and grass. Poor grazing on S. ¼ mile, balance too rough.

	From the cor. of secs. 32 and 33, on S.bdy of Tp. described in the notes of T. 42 S., R. 1 W.,
	N. 0° 03' W., on true line, bet. secs. 32 and 33.
	Over rolling Paria valley, asc. gradually through scattered cedar, pinon and cottonwood timber and scattered sagebrush and greasewood undergrowth.
5.50	Leave valley, bears NE. and SW. Asc. more abruptly.
13.00	Spur, 60 ft. above sec. cor., projects E. Desc. gradually.
15.20	W. edge of Paria river wash, 40 ft. below spur, bears NW. and SE. Desc. ofer 10 ft. bank thence over level bottom of wash. Leave timber, bears with wash.
28.50	Road, Pahreah to Adairville, bears NW. and SE.
40.00	Point falls in wash, where floods would destroy cor.,
46.00	Paria river, 50 ft. below spur, stream of slightly alkaline, muddy water, 70 lks. wide, 6 ins. deep, course SE. Continue over bottom of wash.
47.00	Leave wash bottom, asc. over 10 ft. bank, bears NW. and SE. Thence asc. gradually over rolling valley.
47.31	On rolling Paria valley on E. side of river, 10 ft. above river,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the

Chains	
	ground for the W. C. tothe ¼ cor. of secs. 32 and 33, with brass cap mkd.,
	¼ S 32 | S 33 W C 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	High inaccessible sandstone ledges N. of the W. C. over which it is impossible to chain therefore offset W. a dist. of 3.00 chs. from the W. C., thence N. 0° 03' W. on offset line.
48.00	W. foot of high sandstone ledges, bear E. and W.
80.00	Offset E. a dist of 3.00 chs. to true line and
	At W. foot of high mountain, 30 ft. above ¼ W. C., 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 41 S R 1 W 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, broken and rough mountainous and rolling valley, General drainage SE.
	Soil, in valley, light sand and gravel, subsoil same, balance of mile, red clay and sandy loam, with much sandstone, subsoil same.
	Timber, scattered cedar, pinon and cottonwood on S. portion of mile.
	Undergrowth, scattered sagebrush and greasewood. Poor grazing.
	East, on random line, bet. secs. 28 and 33.
	It is impossible to chain E. from the sec. cor. on

Chains

account of high sandstone ledges. Therefore to get my line to top of ledges, proceed as follows, since it is impossible to see the top of ledges from the sec. cor., from the ¼ cor. of secs. 29 and 32, which is 40.00 chs. dist. W. of the sec. cor., set a point on top of ledges E., and then from the point at top of ledges, since it is impossible to see any points N. or S. of the sec. cor., or get satisfactory base otherwise, on account of high sandstone ledges, observe that the ¼ cor., of secs. 20 and 29, which is 80.00 chs. dist., N. and 40.07 chs. W. of the cor. of secs. 28, 29, 32 and 33, bears N. 47° 18' W. The dist. is then,



80.00 x tan. 47° 18' or 1.08369 = 86.70 chs. from a point 40.07 chs. dist. W. of the sec. cor., the dist. from sec. cor. is then 46.63 chs.

46.62 Triangulation point. Set temp. point for W C.¼ . 8 lks. dist. W. of the triangulation point.

80.11 Intersect the N. and S. line 2 lks. S. of the cor. of secs. 27, 28, 33 and 34.

Thence,

S. 89° 53' W., on true line, bet. secs. 28 and 33.

Over rolling mesa land, through dense cedar and pinon timber and scattered mountain rush, greasewood, sage-brush, ooze-root, rabbit-brush and grass undergrowth.

77.48 Triangulation point.

77.56 Near edge of mesa, level with sec. cor.,

Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone, 20 ins. in a mound of stone, 4 ft. base, for the W. C. to the ¼ cor. of secs. 28 and 33, with brass cap mkd.,

$$WC\,\frac{S\ 28}{S\ 33}\ \frac{}{1917}$$

from which,

A pinon, 8 ins. dia., bears S. 76½° W., 20 lks. dist., mkd., W C ¼ S 33 B.

Chains	
	A cedar, 8 ins. dia., bears N. 8½° E., 35 lks. dist., mkd., W C ¼ S 28 B T.
33.70	Rim of mesa and top of high impassable sandstone ledges, bear N. and S. Level with W. C. Desc. abruptly over inaccessible sandstone ledges. Leave timber, bears N. and S.
40.05½	Falls on inaccessible sandstone ledges.
80.11	The cor. of secs. 28, 29, 32 and 33, 1260 ft. below mesa. Land, E. portion rolling mesa, W. portion extremely rugged, mountainous land, with high sandstone ledges, general drainage W.
	Soil, On E. portion, light, sandy clay loam, subsoil same, balance of mile, very shallow, sandy, rocky, clay loam, on sandstone bedrock.
	Timber, dense cedar and pinon on E. portion, no timber on W. portion.
	Undergrowth, scattered mountain rush, sagebrush, greasewood, oose-root, rabbit-brush and grass. Good grazing on mesa, balance of mile too rough.
	N. 0° 03' W., on true line, bet. secs. 28 and 29. Over rough mountainous land, asc. abruptly over sandstone and shale ledges through scattered cedar and pinon timber and scattered mountain rush, shadscale and grass under growth.
6.47	Top of ledgy spur, 180 ft. above sec. cor., projects W. about 50 lks. dist. On account of sandstone ledges over which it is impracticable to chain, offset E. a dist. of 2.09 chs., thence N. 0° 03' W., on offset line, along rim of broken series of ledges along W. base of high mountain.
31.51	Offset W. a dist. of 2.09 chs. to true line, thence N. 0° 03' W., on true line. Asc.
40.00	Point falls in wash, 110 ft. above spur, 20 lks. wide, 3 ft. deep, drains W. Impracticable to set cor. at its true point on account of unsafe ground. Asc. gradually.

Chains	
40.35	On SW. slope of High mountain, 10 ft. above wash, 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. 28 and 29, with brass cap mkd.,

S 29 | S 28

W C
1917

From which,

A cedar, 12 ins. dia., bears S. 25¼° E., 244 lks. dist., mkd., W C ¼ S 28 B T.

A cedar, 15 ins. dia., bears N. 18½° W., 242 lks. dist., mkd., W C ¼ S 29 B T.

Asc. gradually.

44.50	Ledgy spur, 40 ft. above ¼ W. C., projects W. about 3.00 chs. dist. Desc. abruptly over steep sandstone and shale ledges, bear NE. and SW.
66.50	Leave timber bears NE. and SW.
71.50	Thence along base of foothills, bear N. and SW.
80.00	At base of high mountain and edge of valley, 200 ft. below spur,

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 41 S R 1 W

S 20 | S 21

S 29 | S 28

1917

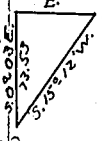
From which,

A cottonwood, 30 ins. dia., bears N. 28¾° W., 510 lks. dist., mkd., T 41 S R 1 W S 20 B T.

No other suitable bearing trees available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.

Land, rough mountainous with many sandstone and shale ledges, General drainage to the W.

Chains	
	Soil, shallow, rocky clay loam and shale, on sandstone and shale bedrock.
	Timber, scattered cedar and pinon on S. portion of mile.
	Undergrowth, scattered mountain rush, shadscale and grass. Poor grazing.
	N. 89° 59' E., on random line, bet. secs. 21 and 28.
	It is impossible to chain E. from this sec. cor., therefore on account of high sandstone ledges triangulate as follows, set a point at top of ledges E. and from this point observe that the offset point on the line bet. secs. 28 and 29, which is 73.53 chs. dist., S. 0° 03' E. of the cor. of secs. 20, 21, 28 and 29, bears S. 15° 12' W. The dist. is then,
	73.53 x tan. 15° 12' or .27169 + 6 lks. = 20.04 chs.
20.04	Triangulation point. Offset N. ½ lk dist. to random line, thence N. 89° 59' E., on random line.
40.00	Set temp. point of ¼ cor.
79.95	Intersect the N. and S. line, 12 lks. N. of the cor. of secs. 21, 22, 28 and 27.
	Thence,
	N. 89° 56' W., on true line, bet. secs. 21 and 28.
	Over rolling mountainous land or mesa top, asc. gradually through scattered shadscale, rabbit-brush, sagebrush, mountain rush, greasewood, and grass undergrowth.
14.80	Enter dense cedar and pinon timber, bears N. and S.
39.97½	On rolling mesa, 30 ft. above sec. cor.,
	Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone, 26 ins. in a mound ofstone, 4 ft. base, for the ¼ cor. of secs. 21 and 28, with brass cap mkd.,
	¼ S 21 / S 28 / 1917
	No suitable bearing trees available, therefore raise a mound of stone, 2 ft. base, 1½ ft high, north of the cor.



Chains	
	Thence over level mesa top.
59.31	Triangulation point at edge of mesa and topof high sandstone ledges, level with 4 cor., bear N. and S. Desc. abruptly over high sandstone ledges over which it is impossible to chain. Leave timber bears N. and S.
79.95	The cor. of secs. 20, 21, 28 and 29, 1200 ft. below mesa. Land, E. portion , rolling mesa top, W. portion high, rou rough sandstone ledges, general drainage to the W. Soil, on mesa, light, sandy clay loam, subsoil same. Mixed with small amount of sandstone. Balance of mile shallow rocky, clay loam, on sandstone bedrock. Timber, dense cedar and pinon on middle portion of mile, No timber on balance of mile. Undergrowth, scattered shadscale, rabbit-brush, sagebrush, mountain rush, greasewood and grass. Good grazing on mesa, balance of mile too rough.
	N. 0° 03' W., on true line, bet. secs. 20 and 21. Over rough mountainous land, asc. gradually along foot of high mountain, through scattered cottonwood timber and scattered shadscale, sagebrush and grass undergrowth.
4.00	Leave cottonwood timber bears with river, NW. and SE.
12.20	Rocky spur, 120 ft. above sec. cor., projects N. 80° W., about 10.00 chs. dist. Desc. gradually.
29.30	Base of mountain, 70 ft. below spur, bears NE. and SW. Thence desc. gradually over rolling valley land.
40.00	On gradual N. slope, 10 ft below foot of mountain, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the 1/4 cor. of secs. 20 and 21, with brass cap mkd.,

1/4

S 20 | S 21

1917

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

Desc. gradually.

Chains	
45.80	Wash, 10 ft. below ¼ cor., 10 lks. wide, 2 ft. deep, drains NW.
48.00	Leave valley and asc. abruptly over rocky SE. slope, bears NE. and SW.
56.50	Ridge, 260 ft. above ¼ cor., bears NE. and SW. Desc. abruptly over steep NW. slope.
68.60	Base of ridge, 260 ft. below top, bears NE. and SW. Thence desc. gradually over rolling Cottonwood valley.
80.00	On rolling Cottonwood valley, 10 ft. below base of ridge, Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 16, 17, 20 and 21, with brass cap mkd., T 41 S R 1 W S 17 | S 16 S 20 | S 21 1917 From which, A cottonwood, 36 ins. dia., bears N. 50¼° W., 233 lks. dist., mkd., T 41 S R 1 W S 17 B T. A cottonwood, 24 ins. dia., bears N.30¾° E., 354 lks. dist., mkd., T 41 S R 1 W S 16 BT. No bearing trees available in secs. 20 or 21, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, broken and rough mountainous and rolling valleys, general drainage to the W.
	Soil, light, sandy clay loam, mixed with sandstone, subsoil same.
	Timber, few scattered cottonwoods at extreme N. and S. ends of mile. No timber on balance of mile.
	Undergrowth, scattered shadscale, sagebrush and grass. Fair grazing.
	S. 89° 56' E. on random line, bet. secs. 16 and 21.
40.00	Set temp. point for ¼ cor.
79.72	Intersect the N. and S. line 2 lks. S. of the cor. of

Chains	
	secs. 15, 16, 21 and 22.
	Thence,
	N. 89° 57' W., on true line, bet. secs. 16 and 21.
	Over broken mesa land, through dense cedar andpinon timber and scattered mountain rush, rabbit-brush, juniper and grass undergrowth.
13.10	Rim of mesa and top of high ledges, level with sec. cor., bear NE. and SW. Desc. abruptly over high sandstone ledges on steep NW. slope.
28.00	Wash, 380 ft. below mesa, 20 lks. wide, 3 ft. deep, drains N. Continue abrupt descent. Leave timber.
39.86	Near base of mountain, on NW. slope, 680 ft. below mesa, 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. 16 and 21, with brass cap mkd.,
	¼ S 16 / S 21 / 1917
	Raise a mound of stone, 2 ft base, 1½ ft. high, north of the cor.
	Desc. gradually from ¼ cor.
50.00	Wash, 30 ft. below ¼ cor., 10 lks. wide, 3 ft. deep, drains N. Asc. more abruptly.
63.80	Sharp broken ridge, 100 ft. above wash, bears NE. and SW. Desc. abruptly.
64.60	Base of ridge, bears NE. and SW., 120 ft. below top, Thence desc. gradually.
67.79	Base of projecting ledge, 100 ft. high, projects N. Offset 190 lks. N. thence N. 89° 57' W., on offset line, to get around ledge.
71.49	Offset S. a dist. of 1.90 chs. to true line, thence N. 89° 57' W., on true line, desc. gradually over rolling Cottonwood valley.
79.72	The cor. of secs. 16, 17, 20, and 21, 140 ft. below sharp ridge.

Chains	
	Land, rough mountainous and rolling mesa and canyon bottom, general drainage to the N. and NW.
	Soil, shallow, sandy clay loam, mixed with sandstone and sandstone ledges, subsoil, sandy clay loam, with sandstone and shale.
	Timber, dense cedar and pinon on E. portion, no timber on W. portion.
	Undergrowth, scattered mountain rush, rabbit-brush, juniper and grass. Poor grazing.
	N. 0° 03' W., on true line, bet. secs. 16 and 17.
	Over rolling Cottonwood valley, desc. gradually through scattered cottonwood timber and scattered greasewood, ghadscale, sagebrush and grass undergrowth.
6.00	Cottonwood, creek, dry, in wash, 10 ft. below sec. cor., 1.00 ch. wide, 8 ft. deep, drains S. 20° W. Asc. out of wash. Leave cottonwood enter cedar and pinon timber.
13.90	Trail from Pahreah to Brigham Plains, bears NE. and SW. Leave valley and asc. abruptly over bare sandstone steep SE. slope, bear N. 20° E. and S. 20° W.
20.00	S. edge of box canyon, cut 80 ft. deep in sandstone, edge is 220 ft. above creek, bears NW. and SE. Desc. abruptly into canyon.
21.00	Bottom of canyon, 80 ft. below edge, course SE. Asc. abruptly.
23.00	N. edge of canyon, 100 ft. above bottom, bears SE. and NW. Continue asc. over jagged white and red sandstone ledges.
40.00	Point falls on bare sandstone slope where post cannot be set, therefore at exact cor. point, I chisel in the sandstone an x for the ¼ cor. of secs. 16 and 17, mkd., as follows,
	S 17 x S 16
	1917

Chains	
	From which,
	A pinon, 6 ins. dia., bears N. 53° E., 146 lks. dist., mkd., ¼ S 16 BT.
	A pinon, 10 ins. dia., bears S. 27½° W., 74 lks. dist., mkd., ¼ S 17 B.T.
	Continue ascent over sandstone.
46.70	Enter oak brush and grass undergrowth, bears E. and W.
58.60	Formation becomes very sandy.
70.60	Ridge, 240 ft. above ¼ cor., bears NE. and SW. Desc.
79.80	Wash, 210 ft. below ridge, 20 lks. wide, 2 ft. deep, drains E. Asc. gradually.
80.00	5 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. 8, 9, 16 and 17, with brass capmkd.,

T 41 S R 1 W

S 8	S 9
S 17	S 16

1917

From which,

A pinon, 8 ins. dia., bears N. 16° W., 175 lks. dist., mkd., T 41 S R 1 W S 8 B T.

A pinon, 16 ins. dia., bears N. 40° E., 220 lks. dist., mkd., T 41 S R 1 W S 9 B T.

A pinon, 10 ins. dia., bears S. 32° E., 89 lks. dist., mkd., T. 41 SR 1 W S 16 B T.

A pinon, 14 ins. dia., bears S. 74° W., 48 lks. dist., mkd., T 41 S R 1 W S 17 B.T.

Land, Extreme S. end of mile, rolling canyon bottom, balance of mile, very rough, jagged upended sandstone ledges. General drainage to the SE. and SW.

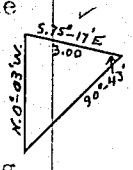
Soil, On S. portion in canyon, light, sandy clay loam, subsoil same, on balance of mile, shallow sandy loam, on sandstone bedrock.

Timber, a few cottonwoods on S. end of mile in canyon, scattered cedar and pinon on balance of mile.

Chains	
	Undergrowth, scattered greasewood, shadscale, sagebrush, grass, and oak brush. Fair grazing.
	S. 89° 57' E., on random line, bet. secs. 9 and 16.
40.00	Point falls on sandstone steep ledges where cor. cannot be set.
40.89	Set temp. point for ¼ W. C.
79.70	Intersect the N. and S. line, 12 lks. S. of the cor. of secs. 9, 10, 15 and 16.
	Thence,
	S. 89° 58' W., on true line, bet. secs. 9 and 16.
	Over broken mountainous land, asc. abruptly over sandstone upended strata, through scattered shadscale, greasewood, sagebrush and grass undergrowth.
4.70	Top of upended sandstone strata, 80 ft. above sec. cor., bears N. 20° E. and S. 20° W. Coal outcrops along ledges. Desc. abruptly into Cottonwood canyon.
15.50	Sandstone ledge, 40 ft. high, 50 lks. S. of line, bears NE. and SW. Desc. gradually.
27.60	Main trail, Pahreah to Brigham Plains, bears NE. and SW.
31.80	Cottonwood creek in wash, dry, 200 ft. below sandstone strata, 2.00 chs. wide, 10 ft. deep. Asc. out of wash thence over rolling canyon bottom. Enter cedar and pinon.
32.80	Leave canyon bottom and asc. abruptly over sandstone steepSE. slope, of Cockscomb, bears NE. and SW.
38.81	On rocky SE. slope, 280 ft. above creek,
	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. 9 and 16, with brass cap mkd.,
	$WC\frac{1}{4}\frac{S\ 9}{S\ 16}$ 1917
	From which,
	A pinon, 10 ins. dia., bears N. 63½° E., 115 lks. dist., mkd., W C ¼ S 9 R T.

Chains	
	A cedar, 12 ins. dia., bears S. 64° E., 150 lks. dist., mkd., W C ¼ S 16 B T.
	Continue abrupt ascent.
39.85	Point for ¼ sec.cor., cor.not set.
43.70	Top of Cockscomb overlooking Cottonwood canyon, 220 ft. above ¼ W. C. Thence over rocky top of Cockscomb. There is a small spring of good, clear water 2.50 chs. dist. N. of line. Also tall scattered pine timber.
45.20	Wash, 80 ft. below top, 20 lks. wide, 3 ft. deep, drains NE. Asc. Enter oak and manzanita undergrowth.
53.70	Wash, 40 ft. above wash, 20 lks. wide, 2 ft. deep, drains S. Scattered tall pine timber N. of line. Asc.
58.50	Top of ascent, 30 ft. above wash, bears with wash. Desc. abruptly.
65.70	Wash, 80 ft. below top of ascent, 20 lks. wide, 4 ft. deep, drains SE. Asc. gradually.
73.70	The cor. of secs. 8, 9, 16 and 17, 30 ft. above wash. Land, E. portion broken and rolling mountainous, W. portion rough mountainous. General drainage to the SW. Soil, On E. portion sandy clay loam mixed with sandstone, subsoil same. W.portion shallow sandy loam, on sandstone bedrock. Timber, a few cottonwoods along Cottonwood creek, scattered cedar and pinon on W. portion of mile, also some tall pines N. of line on W. portion. Undergrowth, scattered shadscale, greasewood, sagebrush and grass, and oak and manzanita. Fair grazing.

	N. 0° 03' E., on true line, bet. secs. 8 and 9. Over rough mountainous land, asc. over bare sandstone and sandy formation through scattered cedar and pinon timber and scattered juniper, manzanita, rabbit-brush, sagebrush and grass undergrowth.
11.40	Yellow Rock Trail from Adairville to Pahresh, bears NW. and SE. Leave timber bears E. and W. Thence over bare yellow sandstone, asc.

Chains	
20.89	Foot of yellow sandstone dome, impossible to chain up side of dome therefore triangulate as follows, set a flag at this point and another on line N. 0° 03' W. at top of dome and from the latter point measure a base line S. 75° 17' E. a dist. of 3.00 chs. Impossible to get a longer base. From the E. end of base line the angle between the two flags on line is 90° 43'. The triangulated dist. is then,  log.3.00 + logsin.90° 43' + colog.sin. 14° 03' = .477121 + 9.999966 + 0.614808 = 1.091895 = antilog. = 12.30 chs.
33.25	Triangulation point at top of yellow round sandstone dome, 300 ft. above sec. cor. Desc.
40.00	Point falls on nearly vertical N. face of dome, in inaccessible point, therefore return to
39.62	On narrow shelf, 3 ft. wide bears E. and W., 70 ft. below dome,
	Set an iron post, 2 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. 8 and 9, with brass cap mkd., W C / S 8 | S 9 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Desc. abruptly over sandstone ledges.
44.00	Foot of sandstone dome, 140 ft. below ¼ cor., bears NE. and SW. Thence over rolling bench land.
49.50	Enter scattered cedar and pinon timber, bears NE. and SW.
69.35	Top of vertical sandstone wall overlooking Hackberry canyon, impossible to chain, wall bears E. and W. Since it is impossible to chain over ledges and I cannot obtain a base line for triangulation at this point

Chains	
	return to the 63.89 chs. point and triangulate as follows, set a point on line N. 0° 03' W., across canyon and from the 63.89 chs. point measure a base line S. 82° 57' W. a dist. of 10.00 chs. Impracticable to obtain longer base. From the W. end of base line the angle bet. the two points on line is 50° 10'. The dist. is then,
	10.00 x tan. 50° 10' or 1.19882 = 11.99 chs.
74.00	N. wall of Hackberry canyon, 300 ft. high, bears E. and W. Leave timber, bears NW. and SE.
75.88	Triangulation point, level with triangulation point on S. rim of canyon. Asc. abruptly.
80.00	Point falls on sandstone ledges impracticable to set cor.
83.12	On bare white sandstone, SE. slope, 100 ft. above rim of canyon,
	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 W. C. to the cor. of secs. 4, 5, 8 and 9, with brass cap mkd.,

T 41 S R 1 W

S 5	S 4
S 8	S 9

WC
1917

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

Land, rough and broken mountainous, with much bare sandstone. General drainage to the NW. and SE. into Hackberry canyon draining SE.

Soil, shallow light sand, on sandstone bedrock, much bare sandstone.

Timber, scattered cedar and pinon.

Undergrowth, scattered juniper, manzanita, rabbit-brush, sagebrush and grass. Good grazing grass but mostly inaccessible to stock.

From the true point for cor. of secs. 4, 5, 8 and 9,

Chains	
	which is 3.12 chs. S. 0° 03' E. of the W. C.
	N. 89° 58' E., on random line, bet. secs. 4 and 9.
	It is impossible to chain E. from this point on account of inaccessible sandstone ledges and gulchs, and as it is also impossible to get satisfactory base line and triangulate in the usual manner I triangulate as follows,
	Set a point on top of ledges 35 lks. N. of E. from the true cor. point, then from the 39.68 chs. point on the line bet. secs. 8 and 9, observe that the point set to the E., bears N. 40° 18' E., the dist. is then,
	40.67 x tan. 40° 18' or .84806 +4 lks. = 34.53 chs.
34.53	Triangulation point, offset S. a dist. of 32 lks. to a point which is N. 89° 58' E. of the true cor. point, thence N. 89° 58' E., on random line.
40.00	Set temp. point for ¼ cor.
73.73	Intersect the N. and S. line 30 lks. S. of the cor. of secs. 3, 4, 9 and 10.
	Thence,
	S. 89° 45' W., on true line, bet. secs. 4 and 9.
	Over rolling canyon bottom, desc. gradually through scattered cottonwood timber and scattered sagebrush, greasewood, shadscale, mountain rush and grass undergrowth.
3.30	Cottonwood creek in wash, dry, 10 ft. below sec. cor., 1.00 ch. wide, 10 ft. deep, drains S. 10° W. Asc. abruptly over clay bank of wash thence asc. gradually.
5.00	Leave Cottonwood valley and asc. abruptly over sandstone ledges, bear NE. and SW. Enter cedar and pinon timber.
39.89	On rocky E. slope of Cockscomb, 520 ft. above creek, 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. 4 and 9, with brass cap mkd.,
	S 4 / S 9 1917
	From which,

Chains	
	A cedar, 2 ins. dia., bears N. 65½° E., 105 lks. dist., mkd., ½ S 4 B.T.
	A pinon, 6 ins. dia., bears S. 12° E., 147 lks. dist., mkd., ½ S 3 B.T.
	Asc. abruptly over steep E. slope.
45.27	Triangulation point on top of Cockscomb and top of vertical sandstone ledges, bear N. and S. Desc. abruptly over sandstone ledges. Impossible to chain farther on account of vertical sandstone ledges and inaccessible sandstone gulches.
72.72	The true cor. point for the cor. of secs. 4, 5, 8 and 9, 3.12 chs. S. 0° 03' E. of the W. C., 160 ft. below triangulation point. Cor. not set.
	Land, Extreme E. portion rolling valley, balance rugged, upended Cockscomb, general drainage to the E. and SW.
	Soil, shallow sandy loam, on sandstone bedrock. Much bare sandstone.
	Timber, a few cottonwoods along creek, scattered cedar and pinon on balance of mile.
	Undergrowth, scattered sagebrush, greasewood, shadscale, mountain rush and grass. Fair grazing grass but inaccessible to stock.

From the true point for the cor. of secs. 4, 5, 8 and 9, N. 0° 03' W., on true line, bet. secs. 4 and 5.

Over rough mountainous land, asc. abruptly over bare sandstone through scattered cedar and pinon timber and scattered juniper, oak brush, oose-root, rabbit-brush and grass undergrowth.

7.12	The W. C. to the cor. of secs. 4, 5, 8 and 9.
20.70	Rocky ridge, 180 ft. above sec. cor., bears E. and W. Enter scattered sagebrush and mountain rush and thicker timber and grass. Bear E. and W. Desc. abrupt N. slope.
40.00	On E. slope, 70 ft. below ridge,
	Set an iron post, 3 ft. long, 1 in. dia., 14 ins. in a

Chains	
	the ground to bedrock, 12 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 4 and 5, with brass cap mkd.,
	S 5 | S 4 (¼)
	1917
	From which,
	A pinon, 30 ins. dia., bears S. 72½° E., 61 lks. dist., mkd., ¼ S 4 B T.
	A cedar, 8 ins. dia., bears N. 75° W., 123 lks. dist., mkd., ¼ S 5 B T.
	Desc. gradually.
45.00	Ravine, 10 ft. below ¼ cor., course SW. Asc. steep sandstone ledges.
76.80	Asc. gradually.
85.50	Intersect the S. C. of secs. 4, 5, 32 and 33, heretofore described, 280 ft. above ravine.
	Land, rough and broken mountainous, with much sandstone, general drainage to the SW.
	Soil, shallow, sandy rocky loam, with much sandstone toward the S. end of mile, and more sand toward the N. end of mile. Subsoil, sand and sandstone.
	Timber, scattered cedar and pinon.
	Undergrowth, scattered juniper, oak brush, oose-root, rabbit-brush, sagebrush, mountain rush and grass. Fair grazing on N. portion of mile, balance of mile too rough.
	Knowing that it will be necessary to run a sectional correction line, W. bet., secs. 29 and 32 and 30 and 31, I begin at the cor. of secs. 28, 29, 32 and 33.
	Thence,
	W., on sectional correction line, bet. secs. 29 and 32.
	Over rolling Paria valley land, desc. gradually through scattered cedar and cottonwood timber and scattered

Chains	
	greasewood, sagebrush and grass undergrowth.
4.50	E. bank of Paria river, 30 ft. below sec. cor., bears N. and S. Thence over level wash bottom.
12.00	Road, Pahreah to Adairville, bears N. and S.
14.20	Paria river, 10 ft. below bank, stream of muddy slightly alkaline water, 70 lks. wide, 6 ins. deep, course S.
16.00	W. bank of Paria river, 10 ft. above stream, bears N. and S. Thence asc. gradually.
29.80	Base of broken sandstone ledges, 20 ft. above bank, bear N. and S. Leave scattered cottonwood timber, Enter scattered pinon timber and scattered service-berry undergrowth, bear N. and S. Asc. abruptly over sandstone ledges.
40.00	On rocky E. slope, 400 ft. above river, 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. 29 and 32, with brass cup mkd., ¼ S 29 / S 32 / 1917 to From which, A cedar, 8 ins. dia., bears N. 70° E., 135 lks. dist., mkd., ¼ S 29 B T. A pinon, 6 ins. dia., bears S. 8° E., 100 lks. dist., mkd., ¼ S 32 B T.
	Asc. over E. slope.
40.30	Spur, 20 ft. above ¼ cor., projects S. 25° E. Desc. abruptly over high sandstone ledges over which it is impracticable to chain, therefore offset S. a dist., of 10.00 chs. thence W. on offset line.
50.00	Ridge, 20 ft. above spur, bears N. and S. Desc. abruptly over broken sandstone ledges.
64.00	Ravine, 150 ft. below ridge, course N. 85° E., Asc. abruptly.
73.50	Spur, 300 ft. above ravine, projects S. 25° E. Desc.

Subdivision of T. 41 S., R. 1 W.

Chains	
75.60	Ravine, 80 ft. below spur, course S. 85° E. Asc. abruptly.
76.50	Sandstone pinnacle, 100 ft. above ravine, Asc. gradually.
80.00	Offset N.0°07'W. 10.00 chs. to true line and 30 ft. above pinnacle,
	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. ofsecs. 29, 30, 31 and 32, with brass cap mkd.,

T 41 S R 1 W

S 30	S 29
S 31	S 32.

1917

From which,

A pinon, 6 ins. dia., bears N. 20° E., 38 lks. dist., mkd., T 41 S R 1 W S 29 B T.

A pinon, 9 ins. dia., bears S. 22° E., 38 lks. dist., mkd., T 41 S R 1 W S 32 BT.

A pinon, 10 ins. dia., bears S. 45° W., 63 lks. dist., mkd., T 41 S R 1 W S 31 B T.

A pinon, 7 ins. dia., bears N. 29° W., 83 lks. dist., mkd., T 41 S R 1 W S 30 B T.

Land, E.portion rolling Paria river bottom and valley, W. portion very rough mountainous, general drainage E. and W. into Paria riverdraining S.

Soil, on E. portion mostly sand, mixed with some sandstone, subsoil same, W. portion rocky, sandy clayloam, on sandstone bedrock.

Timber, scattered cottonwoods along river, scattered cedar and pinon on balance of mile.

Undergrowth, scattered greasewood, sagebrush, serviceberry and grass. Fair grazing.

S. 0° 03' E., on random line, bet. secs. 31 and 32.

40.00 Set temp. point for ¼ cor.

72.20 Intersect the S. bdy. of the Tp. 3 lks. W. of the cor.

Chains	
	of secs. 31 and 32, which is an iron post, 2 ins. dia., firmly set, mkd. and witnessed as described in the notes of T. 42 S., R. 1 W.
	Thence,
	N. 0° 07' W., on true line, bet. secs. 31 and 32.
	Over rough mountainous land, asc. over broken SE. slope, through scattered cedar and pinon timber and scattered shadscale, sagebrush, service-berry, mountain rush, and grass.
22.20	Rocky spur, 120 ft. above sec.cor., projects N. 50° E. Desc. abruptly. Timber becomes dense bears with spur.
28.70	Ravine, 150 ft. below spur, course NE. Asc. gradually.
29.20	On gradual S. slope, 10 ft. above ravine,
	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 W.C. ¼ cor. of secs. 31 and 32, with brass cap mkd.,
	W C ¼ S 31 | S 32 1917
	From which,
	A pinon, 7 ins. dia., bears S. 80° E., 56 lks. dist., mkd. WC ¼ S 32 B T.
	A cedar, 12 ins. dia., bears S. 75° W., 62 lks. dist., mkd. WC ¼ S 31 BT.
	Asc. over gradual S. slope, over broken ledges.
39.20	Falls in sandstone ledges, impracticable to set cor.
57.70	Spur, 70 ft. above W. C., projects E. Desc. abruptly.
69.20	The headof gulch, 110 ft. below spur, course SE. Asc.
79.20	The cor. of secs. 29, 30, 31 and 32, 50 ft. above head of gulch.
	Land, rough and broken mountainous, general drainage to the E.
	Soil, shallow, rocky, sandy clay loam, on sandstone bedrock.
	Timber, scattered cedar and pinon, dense on N. portion.

Chains	
	Undergrowth, scattered shadscalem sagebrush, service-berry, mountain rush and grass. Fair grazing.
	W. on sectional correction line, bet. secs. 30 and 31, Over rough mountainous land, asc. abruptly through dense cedar and pinon timber and scattered sagebrush, service-berry, mountain rush, mahogany and grass undergrowth.
5.60	Spur, 120 ft. above sec. cor.; projects N. Desc. abruptly.
9.60	Ravine, 150 ft. below spur, course N. Asc. abruptly.
12.60	Spur, 100 ft. above ravine, projects N. Desc. abruptly.
15.60	Ravine, 130 ft. below spur, course N. Asc. abruptly.
22.60	Spur, 250 ft. above ravine, projects SE. Desc. abruptly.
29.60	Ravine, 150 ft. below spur, course S. Asc. abruptly.
31.60	Sandstone spur, 100 ft. above ravine, projects S. 10° W. Desc. abruptly.
35.60	Ravine, 80 ft. below spur, course S. 10° E. Asc. abruptly.
40.00	On abrupt E. slope, 80 ft. above ravine, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 30 and 31, with brass cap mkd.,

¼ S 30 / S 31 1917

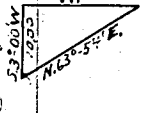
From which,

A pinon, 7 ins. dia., bears N. 20° E., 69 lks. dist., mkd., ¼ S 30 B T.

A pinon, 6 ins. dia., bears S. 23° W., 60 lks. dist., mkd., ¼ S 31 B T.

Asc. abruptly.

47.60	Sandstone ridge, 130 ft. above ¼ cor., bears N. and S. Desc. abruptly over high sandstone ledges over which it is impossible to chain, therefore triangulate as follows, set a point on line W. and from the latter point measure a base line S. 3° W., a dist. of 10.00 chs. Longer base impossible, and from the S. end of



Chains	
	base line the point at top of ledges E. bears N. 63° 54' E. The dist. is then, $\frac{10.00 \times \sin. 60° 54'}{\sin. 26° 06'} = \frac{10.00 \times .87377}{.43994} = 19.86$ chs.
67.46	Triangulation point. Measure back E. and obtain the topography on line.
48.60	Base of high ledges, 160 ft. below top, bear N. and S. Desc. abruptly.
60.60	Base of ledges and steep descent, bears N. and S. Desc. gradually.
67.46	Triangulation point.
68.60	Wash, 360 ft. below ridge, 20 lks. wide, 3 ft. deep, drains N. Asc.
77.50	Spur, 60 ft. above wash, projects N. Desc. gradually.
78.61	Intersect the cor. of secs. 25, 30, 31 and 36, which is an iron post, heretofore described, 10 ft. below spur.
	Land, rough mountainous, jagged white and red sandstone ledges. General drainage E. and W.
	Soil, shallow blue clay and sand, on sandstone ledges.
	Timber, scattered and dense cedar and pinon timber.
	Undergrowth, scattered sagebrush, service-berry, mountain rush, mahogany and grass undergrowth. Too rough for grazing.
	From cor. of secs. 29, 30, 31, and 32
	N. 0° 03' W., on true line, bet. secs. 29 and 30.
	Over rough mountainous land, asc. abruptly over broken sandstone ledges through scattered cedar and pinon timber and scattered service-berry, mahogany, sagebrush, mountain rush and grass undergrowth.
2.40	Spur, 50 ft. above sec. cor., projects E. desc. abruptly.
7.00	Ravine, 80 ft. below spur, course E. Asc. abruptly.
33.00	Spur, 380 ft. above ravine, projects S.60° E. Desc. abruptly.
39.00	Ravine, 100 ft. below spur, course E. asc. abruptly.

Chains	
40.00	30 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, 2½ ft. base, for the ¼ cor. of secs. 29 and 30, with brass cap mkd., ¼ S 30 | S 29 1917 From which, A pinon, 6 ins. dia., bears N. 42½° E., 95 lks. dist., mkd., ¼ S 29 B T. A pinon, 7 ins. dia., bears N. 70° W., 70 lks. dist., mkd., ¼ S 30 B T. Asc. abruptly over sandstoneledges.
45.00	Jagged sandstone ridge and top of Cockscomb, 260 ft. above ¼ cor., bears N. 10° E., and S. 10° W. Desc. abruptly over sandstone ledges on steep NW. slope.
78.50	Ravine, 500 ft. below ridge, course S. 75° E. Asc. gradually.
80.00	On gradual S. slope, 20 ft. above ravine, 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 41 S R 1 W S 19 | S 20 S 30 | S 29 1917 From which, A pinon, 12 ins. dia., bears N. 18½° E., 129 lks. dist., mkd., T 41 S R 1 W S 20 B T. A pinon, 8 ins. dia., bears S. 89° E., 68 lks. dist., mkd., T 41 S R 1 W S 29 B T. A pinon, 10 ins. dia., bears S. 73° W., 53 lks. dist., mkd., T 41 S R 1 W S 30 B T. A pinon, 8 ins. dia., bears N. 34° W., 146 lks. dist., mkd., T 41 S R 1 W S 19 B T.

Chains	
	Land, broken and rough mountainous, general drainage to the SE. and NW.
	Soil, light, dry sandy loam, with much sandstone, sub-soil same.
	Timber, scattered cedar and pinon.
	Undergrowth, scattered service-berry, mahogany, sagebrush, mountain rush and grass. Poor grazing.
	E. on random line, bet. secs. 20 and 29.
40.00	Set temp. point for ¼ cor.
80.00	Intersect the cor. of secs. 20, 21, 28 and 29,
	Thence,
	W. on true line, bet. secs. 20 and 29.
	Over rolling Paria valley, desc. gradually through scattered cottonwood timber and scattered sagebrush, shadscale, rabbit-brush and grass undergrowth.
9.10	E. bank of Paria river, bears NW. and SE. Desc. Over clay bank, 6 ft. high, thence over rolling river bed.
11.10	Paria river, 30 ft. below sec. cor., stream of muddy slightly alkaline water, 150 lks. wide, 6 ins. deep, course SE.
40.00	In sandy river bed, near W. bank, 6 ft. above river, Set a iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 20 and 29, with brass cap mkd.,
	¼ S 20 S 29 1917
	From which,
	A cottonwood, 30 ins. dia., bears N. 44½° W., 379 lks. dist., mkd., ½ S 20 B T.
	A cottonwood, 32 ins. dia., bears S. 30° E., 505 lks. dist., mkd., ½ S 29 B T.
41.70	W. bank of Paria river, 5 ft. above ¼ cor., bears NW. and SE. Asc. abruptly over rocky E. slope. Enter dense cedar and pinon timber bears NW. and SE.

Chains	
61.60	Rocky sandstone spur, 400 ft. above ¼ cor., projects S. Thence over very rocky, jagged, broken land.
78.00	Swale, 80 ft. below spur, drains SE. Asc. gradually.
80.00	The cor. of secs.19, 20, 29 and 30, 30 ft. above swale.
	Land, E.portion rolling Paria valley and river bed, W. portion, very, rough, rugged, jagged sandstone ledges. General drainage to the SE.
	Soil, on E. portion, deep, sandy loam and sand, subsoil same. W. portion shallow, sandy clay loam, with much sandstone and on sandstone bedrock.
	Timber, scattered cottonwood along river, dense cedar and pinon on balance of mile.
	Undergrowth, scattered sagebrush, shadscale, rabbit-brush and grass. Fair grazing.

	W. on random line, bet. secs. 19 and 30.
40.00	Falls on sandstone ledges where cor. cannot be set.
41.71	Set temp. point for ¼ W. C.
79.57	Intersect the W. bdy. of the Tp: 28 lks. N. of the cor. of secs. 19 and 30, heretofore described.
	Thence,
	N. 82° 48' E., on true line, bet. secs. 19 and 30.
	Over broken mountainous land, desc. through cedar and pinon timber and scattered sagebrush, service-berry, mountain rush and grass undergrowth.
1.50	Ravine, 80 ft. below sec. cor., course N. Asc. abruptly.
7.70	Spur, 120 ft. above ravine, projects N. Desc. abruptly.
12.50	Wash, 70 ft. below spur, 30 lks. wide, 2 ft. deep, drains NE. thence N. Asc. abruptly.
18.80	Spur, 150 ft. above wash, projects NE. Desc. abruptly.
24.00	Ravine, 80 ft. below spur, course NE. Asc. abruptly over broken sandstone ledges.
36.10	Spur, 420 ft. above ravine, projects N. Desc. abruptly.
37.86	On rocky E. slope, 30 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the

Chains

ground to bedrock, 14 ins. in a mound of stone, 2½ ft. base, for WC to ¼ cor. of secs. 19 and 30, with brass cap mkd.,

¼
S 19 WC
S 30
1917

From which,

A pinon, 6 ins. dia., bears N. 60° W., 16 lks. dist., mkd., W C ¼ S 19 B T.

A pinon, 7 ins. dia., bears S. 40° E., 50 lks. dist., mkd., W C ¼ S 30 B T.

Desc. abruptly from WC ¼ cor.

39.57 Point for ¼ sec. cor.; cor. not set.

79.57 The cor. of secs. 19, 20, 29 and 30, 310 ft. below ¼ W.C.

Land, broken mountainous, general drainage to the NE. and SE.

Soil, light, dry, sandy loam and clayloam, subsoil same, mixed with sandstone.

Timber, cedar and pinon.

Undergrowth, scattered sagebrush, service-berry, mountain rush and grass. Fair grazing.

Knowing that corner [illegible] will be necessary for secs. 19 and 20, only, I run

N. 0° 03' W., on true line, bet. secs. 19 and 20.

Over broken mountainous land, asc. gradually through dense cedar and pinon timber and scattered service-berry, sagebrush, mountain rush and grass undergrowth.

29.0 Ridge, 150 ft. above sec. cor., bears N. 70° E. and S. 70° W. Desc. abruptly.

40.10 150 ft. below ridge,

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 ¼ cor. of secs. 19 and 20, with brass cap mkd.,

¼
S 19 | S 20
1917

Subdivision of T. 41 S., R. 1 W.

Chains	
	From which,
	A pinon, 9 ins. dia., bears N. 52° E., 30 lks. dist., mkd., ¼ S 20 B T.
	A cedar, 8 ins. dia., bears S. 80° W., 32 lks. dist., mkd., ¼ S 19 B T.
	Continue abrupt descent.
51.50	Ravine, 70 ft. below ¼ cor., course N. 30° E. Asc. abruptly.
76.00	Ridge, 100 ft. above ravine, bears N. 70° W. and S. 70° E. Desc. abruptly.
77.00	Top of red sandstone ledges, bear NW. and SE. Desc. abruptly over vertical sandstone ledge 30 ft. high.
79.12	Intersect the S. bdy. of sec. 18, 124 lks. S. 88° 25' W. of the cor. of sec. 19, heretofore described.
	At intersection, on solid sandstone ledges, bears NW. and SE., 230 ft. below ridge, 110 ft. above cor. of sec. 18, 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. 19 and 20 only, with brass cap mkd.,

S 19 | S 20
T 41 S R 1 W
1917

	No suitable bearing trees available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, south of the cor.
	Land, extremely rough and mountainous, general drainage NE.
	Soil, shallow, rocky, sandy clay loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered service berry, sagebrush, mountain rush and grass. Poor grazing.

Knowing that a cor. for secs. 17 and 20 only will be necessary on the E. bdy. of sec. 18, I run, from the cor. of secs. 16, 17, 20, and 21,

Chains	
	West, on true line, bet. secs. 17 and 20.
	Over rolling Cottonwood valley, through scattered cottonwood timber and scattered mountain rush, sagebrush, shadscale, greasewood and grass undergrowth.
8.30	E. bank of Cottonwood wash, level with sec. cor., bears NE. and SW. Desc. abruptly.
8.40	Cottonwood creek, dry, 10 ft. below sec. cor., course SW.
10.00	W. edge of Cottonwood wash and valley, bears NE. and SW. Asc. abruptly over steep sandstone ledges. Leave timber.
11.50	Sandstone spur, 80 ft. above creek, projects N. 70° E. Desc. abruptly over steep sandstone ledges.
12.20	Rocky ravine, 30 ft. below spur, course N. 70° E. Asc. abruptly over steep sandstone ledges.
21.50	Sandstone spur, 300 ft. above ravine, projects NE. about 10.00 chs. dist., Desc. abruptly.
22.50	Rocky ravine, 80 ft. below spur, course SW. Asc. abruptly over broken sandstone ledges.
25.05	Sandstone ridge, 100 ft. above ravine, bears NE. and SW. Desc. abruptly over steep sandstone ledges.
27.20	Sandstone ravine, 100 ft. below ridge, course NE. Asc. abruptly over high sandstone butte over which it is impossible to chain, and as it is impossible to offset from this point, return to the 24.56 chs. point and from this point offset S. a dist. of 1.77 chs., thence W. on offset line, asc. abruptly over sandstone ledges.
28.08	Impossible to chain farther on account of S. end of sandstone butte, therefore offset S. a dist. of 2.51 chs. to a point 4.28 chs. S. of true line, thence W. on offset line. Asc. abruptly over sandstone ledges.
30.77	On account of ledges, offset N. a dist. of 50 lks. to a point 3.78 chs. dist. S. of true line. Thence W. on offset line.
36.89	Offset N. a dist. of 3.78 chs. to true line, thence W. on true line.
40.00	On sandstone ridge, bears NE. and SW., 250 ft. above ravine, Set an iron post, 3 ft. long, 1 in. dia., on bare sandstone,

Chains	
	26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 17 and 20, with brass cap mkd.,
	¼ S 17 / S 20 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Thence over sandstone ledges, desc. abruptly.
42.60	Rocky box ravine, 200 ft. below ¼ cor., course S. Asc. abruptly, over sandstone ledges.
47.73	Top of prominent red sandstone dome, 300 ft. above ravine, desc. abruptly over sandstone ledges over which it is impossible to chain, therefore offset N. a dist. of 6.43 chs., thence W. on offset line. Desc. abruptly over bare sandstone ledges.
58.10	Box canyon, 300 ft. below dome, course SW. Asc. abruptly.
62.50	Sandstone ridge, 250 ft. above canyon, bears NW. and SE. Desc. abruptly over high sandstone ledges.
67.09	Small broken mesa, 140 ft. below ridge, bears NW. and SE. Offset S. a dist. of 6.43 chs. to true line, thence W. on true line, over rolling and broken mesa.
78.10	Paria river, 180 ft. below mesa, stream of muddy slightly alkaline water, 70 lks. wide, 8 ins. deep; course SE. Asc. gradually.
78.56	Intersect the E. bdy. of sec. 18, 94 lks. N. of the cor. of sec. 18, heretofore described.
	At intersection, 20 ft. above river,
	Set an iron post, 3 ft. long, 2 ins. dia., 20 ins. in the ground tobedrock, 4 ins. in a mound ofstone, 1½ ft. base, for the cor. of secs. 17 and 20, only, with brass cap mkd.,
	T 41 S / S 17 / S 20 / R 1 W / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, east

Chains.	
	of the cor.
	Land, extreme E. end of mile, rolling Cottonwood, valley, balance of mile rough, rugged, mountainous with high sandstone ledges throughout mile.
	Soil, in valley, light, sandy clay loam, subsoil same, balance of mile mostly bare sandstone, with some sandy clay loam, on sandstone bedrock.
	Timber, few scattered cottonwoods in valley.
	Undergrowth, scattered mountain rush, sagebrush, shadscale, greasewood and grass. No grazing except on E. end of mile in valley.
	From the cor. of secs. 8, 9, 16, and 17,
	W. on true line, bet. secs. 8 and 17.
	Over rough mountainous land, desc. abruptly over bare sandy sandstone formation through scattered cedar and pinon timber, and scattered oak brush, manzanita, rabbit-brush, sagebrush, mountain rush, juniper and grass undergrowth.
16.40	Sandstone gorge 80 ft. deep, 150 ft. below sec. cor., course S. desc. abruptly over high sandstone ledges.
23.90	Yellow sandstone ridge, 210 ft. above gorge, bears N. and S. Desc. gradually.
38.10	Desc. more abruptly over sandstone ledges, into sandstone gorge.
39.31	On narrow shelf on E. side of gorge, bears N. and S., 30 ft. below ridge,
	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. 8 and 17, with brass cap mkd.,
	WC ¼ S 8 / S 17 / 1917
	From which,
	A pinon, 8 ins. dia., bears N. 18° 45' E. 15 lks. dist., mkd., WC ¼ S 8 B T.

Chains	
	A pinon, 8 ins. dia., bears S. 7° 0' W. 167 lks. dist., mkd., W C, 1/4 S 17, B.T.
	It is impossible to chain farther W. on account of high sandstone walls of gorge, therefore triangulate as follows, set a point across gorge, W. and then from the latter point measure a base line N. 87°01' E. a dist. of 12.79 chs. Impossible to get a longer base on account of ledges, from the E. end of base line, the angle between the W. 1/4 cor. and the S. end of base is 76° 19'. The dist. is then.
	log.12.79 + log.sin.76° 19' + colog.sin. 76° 48' = 1.106871 + 9.987406 + 0.023571 = 1.117848 = anti.log. = 13.03 chs.
40.00	Point falls in inaccessible sandstone ledges.
42.00	Approximate bottom of gorge, 300 ft. below W. C., course S. Asc. over steep bare sandstone ledges.
60.10	Triangulation point at top of bare sandstone ridge, 260 ft. above gorge, bears N. 70° E. and S. 70° W. Desc.
68.40	Hollow Rock Trail, 110 ft. below ridge, bears N. and S. Trail is from Pahreah to Adairville, avoiding the gorge below Pahreah, about 1 mile dist.
68.50	Ravine, 120 ft. below ridge, course S. Asc. abruptly over sandstone ledges.
78.78	Intersect the E. bdy. of sec. 7, 1.02 chs. N. 0° 03' W. of the cor. of secs. 7 and 18, heretofore described,
	At intersection, 140 ft. above ravine,
	Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone bedrock, 24 ins. in mound of stone, 4 ft. base, for the cor. of secs. 8 and 17, with brass cap mkd.,

T 41 S R 1 W

S 8 | S 17

1317

From which,

A pinon, 10 ins. dia., bears N. 43° E., 82 lks. dist., mkd., T 41 S R 1 W S 8 B T.

Subdivision of T. 41 S., R. 1 W.

Chains	
	A pinon, 8 ins. dia., bears S. 28° E., 84 lks. dist., mkd., T 41 S R 1 W S 17 B T.
	Land, rough and broken mountainous, general drainage to the S.
	Soil, shallow, sandy loam, on sandstone bedrock, much bare sandstone.
	Timber, scattered cedar and pinon.
	Undergrowth, scattered oak brush, manzanita, rabbit-brush, sagebrush, mountain rush, juniper and grass. Most too rough for grazing.
	From the cor. of secs. 7 and 18, heretofore described.. N. 0° 03' W., on true line, along the E. bdy. of sec. 7. Over rough mountainous land, asc. gradually over broken S. slope, through scattered cedar and pinon timber and scattered sagebrush, yellow-top, buck-brush and grass undergrowth.
16.70	Spur, 110 ft. above sec. cor., projects SE. Desc. abrupt N. slope.
18.10	Gulch, 30 ft. below spur, course SE. Asc. abrupt S. slope.
23.30	Spur, 40 ft. above gulch, projects SE. Desc. gradual N. slope.
31.40	Ravine, 110 ft. below spur, course SE. Asc. abruptly over sandstone ledges.
40.00	150 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 ¼ cor. of sec. 7 only, with brass cap mkd.,
	¼ S 7 | 1916
	From which,
	A cedar, 6 ins. dia., bears N. 64½° W., 41 lks. dist., mkd., ¼ S 7 B T.
	A pinon, 18 ins. dia., bears N. 42½° W., 69 lks. dist., mkd., ¼ S 7 B T.

Subdivision of T. 41 S., R. 1 W.

Chains	
41.05	Subsequently, level with ¼ cor. sec. 7, 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. 8 only, with brass cap mkd., ¼ S 8 | 1917 From which, A cedar, 8 ins. dia., bears S. 25° E., 40 lks. dist., mkd., ¼ S 8 B. T. No other suitable bearing tree available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, east of the cor.
43.30	Spur, 160 ft. above ravine, projects SE. Desc. gradually over broken sandstone ledges on N. slope.
54.70	Ravine, 60 ft. below spur, course SE. Asc. abruptly over sandstone ledges.
60.20	Spur, 130 ft. above ravine, projects SE. Desc. gradual N. slope.
65.70	Draw, 60 ft. below spur, drains SE. Asc. gradual S. slope.
70.00	Spur, 70 ft. above draw, projects SE. Desc. gradual N. slope.
74.30	Desc. abruptly over sandstone ledges and boulders.
77.70	Box ravine, 140 ft. below spur, course E. Asc. over sandstone ledges.
80.00	On low spur, projecting E., between two ravines, 30 ft. above ravine, 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. 6 and 7 only, with brass cap mkd., T 41 S | S 6 / S 7 | R 1 W | 1917 From which, A pinon, 10 ins. dia., bears N. 72° W., 70 lks.

dist., mkd., T 41 S R 1 W S 6 B T.

A cedar, 34 ins. dia., bears S. 11½° W., 44 lks. dist., mkd., T 41 S R 1 W S 7 B T.

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

Soil, shallow sandy loam, on sandstone bedrock. Much bare sandstone and sandstone ledges.

Timber, scattered cedar and pinon.

Undergrowth, scattered sagebrush, yellow-top, buck-brush and grass. Poor grazing.

From the true point for the cor. of secs. 4,5,8 and 9, 7.12 chs. dist., S. 0° 03' E., of the W. C.

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

Over rough, rugged mountainous land, asc. abruptly over sandstone ledges through scattered mountain rush, shad-scale, greasewood and grass undergrowth.

It is impossible to project this line W. in the regular manner on account of high sandstone domes, ledges and cliffs, therefore in order to get line across the impassable cliffs I proceed as follows, I begin at the point which is 16.11 chs. dist., S. 0° 03' E. of the true point for the cor. of secs. 4, 5, 8 and 9, thence W. a dist. of 8.98 chs. to a point I will call point "B", thence N. 75° 00' W., 30.00 chs. dist. to the point "C". I then set a point in the bottom of the canyon from the point "C", N. 59° 52' W., which I will call point "D". Then to determine the position of point "E", I proceed as follows, from the point "C", measure a base line S. 81° 42' W. a dist. of 9.51 chs. to point "F". From point "E", point "D" bears N. 34° 00' W. The distance from "E" to "D" is then,

log. 9.51 + log.sin. 75° 25' + colog.sin.25° 53' =
.978181 + 9.985554 + 0.361978 = 1.325711 = antilog.
= 21.24 chs.

Chains

The position of point "D" is then,

Line	course	dist.	N.	S.	E.	W.
True cor. to A.	S. 0°03'E	16.11	....	16.11	.01	.....
A to B	West	2.38	....	.....	.....	2.38
B to C	N.75° W.	30.00	7.76	.....	.....	28.98
C to E	S.81°42'W	9.51	.....	1.37	.....	9.41
E.to D	N.34°00'W	13.54	11.22			7.57
Totals			18.98	17.48	.01	48.94
			17.48			.01
Northing	.....	.....	1.50			
Westing						48.93

Point "D" is therefore 48.93 chs. dist. W. and 1.50 chs. dist. N. of the true point for the cor. of secs. 4, 5, 8 and 9.

From the true cor. point the topography on true line is as follows,

35.00 Approximate top of sandstone domes and cliffs, cockscomb formation, bear N. 20° E. and S. 20° W. Desc. over sheer sandstone walls into Hackberry canyon.

40.00 True point for ¼ cor. falls on inaccessible sandstone ledges, bear NW. and SE.

45.64 On N. side of bottom of Hackberry canyon, 500 ft. below rim, 1.50 chs. dist. S. and 3.23 chs. dist. E. of point "D",

Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 20 ins. in a mound of stone, 4 ft. base, for the W. C. to the ¼ cor. of secs. 5 and 8, with brass cap mkd.,

$$\frac{1}{4}\ \frac{S\ 5}{S\ 8}\ \frac{WC}{1917}$$

From which,

A cottonwood, 15 ins. dia., bears N. 80° W., 243 lks. dist., mkd., W C ¼ S 5 B T.

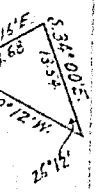
A cottonwood, 36 ins. dia., bears S. 85° W., 120 lks. dist., mkd., W C ¼ S 8 B T.

Subdivision of T. 41 S., R. 1 W.

Chains

48.50 Trail in canyon, bears NW. and SE. Enter scattered cottonwood timber, bears NW. and SE.

49.00 Hackberry creek, 40 ft. below ¼ W. C., stream muddy water 4 lks. wide, 2 ins. deep, course SE. Good drinking water. Enter maple timber, bears with creek. Asc. abruptly over high sandstone cliffs over which it is impossible to project line by ordinary means, therefore return to point "E" on S. brink of canyon and from this point set a point on rim of ledges N. 60° 12' W., which I will call point "F". From point "F" point "D" bears N. 76° 16' E. The dist. of the line bet. points "F" and "D" is then,



log. 13.54 + log.sin. 26° 12' + colog.sin. 43° 32' = 1.1316187 + 9.644956 + 0.161922 = 0.938769 = antilog. = 8.68 chs.

From point "F" measure N. 62½° W. a dist. of 1.21 chs.to point "G". The position of point "G" is then, from "D",

Line	course	dist.	N.	S.	E.	W.
D to F	S.76°16'W.	8.68	.....	2.06	.....	8.43
F to G	N.62°30'W.	1.21	.56	.....	.....	1.07
Totals			.56	2.06	6.00	9.50
				.56		0.00

Westing . . . . . 9.50 chs.

Southing . . . . . 1.50 chs.

Point "G" is therefore 58.43 chs. dist. W. of the true point for the cor. of secs. 4, 5, 8 and 9.

58.00 Top of point of high cliff projecting N. 480 ft. above creek. Thence over broken shelf of point.

58.47 Triangulation and traverse point on edge of point of cliff, projecting N., edge bears NE. and SW. Desc. abruptly over high sandstone ledges along side of box canyon, over which it is impossible to chain, therefore triangulate as follows, set a flag at this point then set a point on shelf across canyon W. and from the latter point measure a base line N. 47° 30' E. a dist. of 4.00 chs. Impossible to get a longer base line.

Subdivision of T. 41 S., R. 1 W.

Chains	
	From the NE. end of base line the angle bet. the E. and W. triangulation points is 106° 57'. The dist. is then, log. 8.00 + log.sin.106°57' + colog.sin. 43°57' = 0.698970 + 9.982618 + 0.162565 = 0.844153 = antilog. = 9.75 chs.
63.50	Approximate bottom of canyon, 300 ft. deep, course NE. Asc. abruptly over high red sandstone ledges.
68.18	Triangulation point on sandstone shelf, 300 ft. above canyon, bears NW. and SW. Asc. abruptly over red broken sandstone ledges. Enter cedar and pinon timber.
75.00	Point of high rocky spur, 120 ft. above triangulation point, projects S. Desc. over sandstone ledges on steep SW. slope.
78.41	Intersect the E. bdy. of sec. 6, 109 lks. N. 0° 03' W. of the cor. of secs. 6 and 7,
	At intersection, at base of red sandstone ledges, bear E. and W.,
	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. 5 and 8 only, with brass cap mkd.

T 41 S
S 5 | S 8
R 1 W

1917

From which,

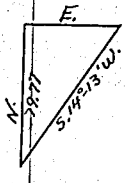
A cross mark, bears N. 89° E., 7 lks. dist., on ledge, mkd., T 41 S R 1 W S 5 B C.

A pinon, 10 ins. dia., bears S. 70° E., 14 lks. dist., mkd., T 41 S R 1 W S 8 P T.

Land, extremely rough and broken, narrow sandstone domes, ledges and cliffs on either side of Washburn canyon, almost impassable country, general drainage E.

Soil, very shallow sandy loam, on sandstone bedrock. Much sandstone on surface.

Chains	
	Timber, scattered cottonwood and maple in canyon, cedar and pinon on W. portion of mile.
	Undergrowth, scattered mountain rush, shadscale, greasewood and grass. Too rough for grazing.
	From the cor. of secs. 6 and 7.
	West, on random line, bet. secs. 6 and 7.
39.40	Set temp. point for the ¼ cor. of sec. 7 only.
40.00	Set temp. point for the ¼ cor. of sec. 6 only.
59.22	Rim of mountain impossible to chain farther on account of high sandstone ledges, therefore triangulate as follows, observe that the cor. of secs. 1, 6, 7 and 12 bears N. 89° 52' W., corresponding to a falling of 40 lks. on random line. As I am unable to get a base line otherwise, I offset N. a dist. of 17 lks., to a point which is 79.77 chs. dist. N. and the triangulation dist. E. of the cor. of secs. 7, 12, 13 and 18, then observe that the cor. of secs. 7, 12, 13 and 18 bears S 14° 13' W. The dist. is then,
	79.77 x tan. 14° 13' or .25335 = 20.21 chs.
79.43	On random line intersect the W. bdy. of the Tp. 40 lks. S. of the cor. of secs. 1, 6, 7 and 12, which is an iron post, 2 ins. dia., firmly set. mkd. and witnessed as described in the notes of T. 41 S., R. 2 W.
	Thence,
	S. 89° 45' E., on true line, bet. secs. 6 and 7.
	Over rough mountainous land, asc. abruptly over high impassable sandstone ledges, through scattered cedar and pinon timber and scattered sagebrush, mountain rush, and grass undergrowth.
20.21	Triangulation point at rim of mountain and top of high red sandstone ledges, 530 ft. above sec. cor., bears N. 40° W. and S. 40° E. Asc. gradually over rocky, sandy W. slope of ridge.
39.43	On rocky, sandy, gradual W. slope, 70 ft. above rim of mountain,



Subdivision of T. 41 S., R. 1 W.

Chains	
	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 sec. 6 only, with brass cap mkd.,
	¼ S 6
	1917
	From which,
	A pinon, 12 ins. dia., bears N. 30° W., 73 lks. dist., mkd., ¼ S 6 B T.
	A cedar, 8 ins. dia., bears N. 56° W., 30 lks. dist., mkd., ¼ S 6 B T.
40.00	On gradual W. slope, level with ¼ cor. sec. 6,
	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 sec. 7 only, with brass cap mkd.;
	¼ S 7
	1917
	From which,
	A cedar, 8 ins. dia., bears S. 54° E., 115 lks. dist., mkd., ¼ S 7 B T.
	A pinon, 6 ins. dia., bears S. 49° W., 73 lks. dist., mkd., ¼ S 7 B T.
	Asc. gradually.
41.20	Main ridge, divide bet. Paria and Hackberry canyons, 10 ft. above ¼ cor., bears N. 10° E. and S. 10° W. Desc. abruptly over broken E. slope.
52.60	Rocky ravine, 180 ft. below ridge, course NE. Asc. abruptly.
57.20	Low spur, 70 ft. above ravine, projects SE. Desc. abruptly over broken sandstone ledges.
68.70	Ravine, 160 ft. below spur, course SE. Asc. gradually over low sandstone ledges.
71.30	Sandstone spur, 30 ft. above ravine, projects S. 70° E., Desc. abruptly over high sandstone ledges.
79.43	The cor. of secs. 5, 6, 7, and 8, 130 ft. below spur.

Chains

Land, rough and broken mountainous with numerous high sandstone ledges, general drainage to the SE. and NW.

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

Timber, scattered cedar andpinon.

Undergrowth, scattered sagebrush, mountainrush and grass. Poor grazing.

From the cor. of secs. 6 and 7.

N. 0° 03' W., on true line, along the E. bdy. of sec. 6.

Over rough mountainous land, desc. gradually through scattered cedar and pinon timber and scattered sagebrush, greasewood, mountain rush and grass undergrowth.

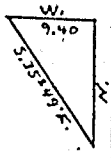
.50 Rocky, ravine, 20 ft. below cor., course S. 70° E. Asc. abruptly over steep, high sandstone ledges.

11.20 Sandstone spur, 200 ft. above ravine, projects SE. Desc. abruptly over high sandstone and shale ledges.

22.00 Ravine, 170 ft. below spur, course SE. Asc. abruptly over sandstone ledges.

25.40 Sandstone spur, 70 ft. above ravine, projects SE. Desc. abruptly over high sandstone ledges.

26.63 Top of ledges over which it is impossible to chain, bear with spur, therefore triangulate as follows, set a flag at this point and another N. on spur, and from the latter point measure a base line, W. a dist. of 9.40 chs. From the W. end of base line the flag at top of ledges bears S. 35° 49' E. The dist. is then,



9.40 × cotan. 35° 49' or 1.38568 = 13.03 chs.

Approximate bottom of box canyon, 300 ft. below ledges, course E. Asc. over sandstone ledges,

Triangulation point. Offset 1 lk. W. thence N. 0° 03' W.

On sandstone spur, 180 ft. above canyon, projects E. about 15.0 chs. dist. to Hackberry creek,

Set an iron post, 3 ft. long, 1 in. dia., 15 ins. in the ground to bedrock, 11 ins. in a mound of stone,

Chains	
	2 ft. base, for the ¼ cor. of sec. 6 only, with brass cap mkd.,
	¼ S 6 / 1917
	From which,
	A pinon, 6 ins. dia., bears N. 42½° W., 147 lks. dist., mkd., ¼ S 6 B T.
	A cedar, 8 ins. dia., bears N. 57° W., 108 lks. dist., mkd., ¼ S 6 B T.
41.08	On spur, 20 ft. below ¼ cor. sec. 6,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of sec. 5 only, with brass cap mkd.,
	¼ S 5 / 1917
	No suitable bearing trees available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, east of the cor.
	Thence ascending and descending along broken NE. slope of canyon side. Leave timber, bears NW. and SE.
52.60	W. side of Hackberry canyon, 260 ft. below ¼ cor., bears NW. and SE. Enter scattered cottonwood and maple timber, bears with canyon. Desc. gradually over rolling canyon bottom.
78.70	W. bank of Hackberry wash, 20 ft. below edge of canyon, bears NW. and SE. Desc. into wash.
81.50	Hackberry creek, at bend, 10 ft. below bank, small stream of pure clear water, 20 lks. wide, 1 in. deep, course from NE. to SE.
86.50	Top of W. bank of Hackberry wash, 10 ft. above creek, bears NE. and SW. Thence over rolling valley.
86.60	Intersect the Eighth St. Par. S., 1.97 chs. E. of the true point for the S. C. of secs. 31 and 32, or 1.47 chs. E. of the WC St. Cor. of secs. 31 and 32, heretofore described., level with creek bank.
	At intersection, on W. edge of Hackberry wash,

Subdivision of T. 41 S., R. 1 W.

Chains

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

T 40 S R 1 W
S 32

S. 6	S. 5
T 41 S R 1 W	

C C
1917

No suitable bearing trees available; therefore raise a mound of stone, 2 ft. base, 1½ ft. high, south of the cor.

Land, rough, rugged mountainous on S. portion, N. portion rolling valley. General drainage E. and SE.

Soil, on rough mountainous partoof mile, shallow, rocky, sandy clay loam, on sandstone and shale bedrock. In valley, sandy clay loam, subsoil same.

Timber, scattered cedar and pinon and cottonwood and maple.

Undergrowth, scattered sagebrush, greasewood, mountain rush and grass. Fair grazing in valley, balance of mile too rough.

Latitiudes, Departures and Closing Error.

Line Designated	Course	Dist. Chs.	Latitudes N.Chs.	Latitudes S.Chs.	Departures E.Chs.	Departures W.Chs.
East Boundary	South	485.31	.....	485.31	.....	.....
South "	West	319.60	.....	.....	.....	319.60
" "	S.89°59'W.	39.75	.....	.01	.....	39.75
" "	N.89°13'W.	118.56	1.62	.....	.....	118.55
West "	N. 0°33'W.	236.04	236.03	.....	.....	2.27
" "	N.0° 26'E.	39.54	39.54	.....	.30	.....
" "	N.2° 15'E.	42.63	42.66	.....	1.68	.....
" "	North	165.83	165.83	.....	.....	.....
North "	East	477.40	.....	.....	477.40	.....
Convergency					1.55	
	T o t a l s		485.68 485.32	485.32	479.93	480.17 479.93
Error in Lat.			.36			
Error in Dep.						.24

GENERAL DESCRIPTION OF T. 41 S., R. 1 W.

The area embraced in this township is very rugged and rough mountainous land, with several different geological formations outcropping, with great faults and upheavels between them. Along the western range of sections are the red ledges, a continuation of the red ledges north of Kanab, but here they are irregular, dipping, twisted and broken and at a lower elevation. Underlying the red ledges, especially in secs. 7,18 and 19, occurs the silt beds sometimes called the alum hills, composed of variegated heavy clay having a purplish appearence. This formation was supposed to carry flour gold. The red ledges dip rapidly to the east and run into the white, yellow and pink hard sandstone formation, called the Cockscomb. This is a rugged, jagged, sandstone upstanding formation and is quite high, traversing the township from sec. 4 to sec. 31 extending N. to the Escalante mountains and

south into Arizona and appears to separate the red ledges from the gray bluffs. East of the foot of the Cockscomb are the lower gray bluffs, which become regular level stratas, a little distance away from the Cockscomb fault. The gray sandstone bluffs comprise approximately the eastern ½ of the township, the SE. part of the top of same being good rolling and broken mesa land, called Brigham Plains. In the NE. part of the township rise the upper gray bluffs the top of which is about 2500 ft. above Paria river. The gray bluffs and the breaks of the high mesa are extremely rough and very difficult of ascent.

Paria river enters the township in sec. 17, bordered by the red ledges and enters the Pahreah box, a gorge breaking through the Cockscomb formation, in secs. 19 and 20, forming an admirable dam site, only 50 to 100 ft. wide and 120 ft. perpendicular walls of sandstone. The river then flows along the W. foot of the gray bluffs.

Cottonwood creek follows the E. foot of the Cockscomb and flows into Paria river in sec. 20. This creek is usually dry, in the summer and is subject to numerous floods. There are numerous cottonwood trees along the creek.

Coyote creek, dry, cuts in the eastern part of the township and drains into Wahweap canyon about 10 miles SE. of the township.

Hackberry creek, usually has a small stream of good water and cuts through the Cockscomb formation with a narrow gorge having vertical walls about 500 ft. high, and flows into Cottonwood creek.

The higher parts of the township have a medium dense growth of cedar and pinon timber. The township is covered with a scattered growth of mountain rush, sage-brush, shadscale, greasewood, yellow-top, service-berry, oose-root, and grazing grass undergrowth. The grass for grazing purposes is best on the Brigham Plains,

and is accessible for stock there. On the steep slopes in most of the township good bunch grass occurs but is usually inaccessible to stock on account of the sandstone ledges.

There are no settlers in the township and no farming is done in the township, however strips of fair farming land occur in Paria canyon, Cottonwood canyon and some land suitable for dry farming on Brigham plains. The improvements in the township consist of the deserted town of Pahreah in sec. 18. Thereare still the ruins of some 8 or 10 houses there and some old ruined sheds and fences. All of the township that is available to stock is used for grazing purposes.

The road to Adairville, Wahweap creek, Warm creek and the "Crossing of the Fathers" on the Colorado river, leads down the Paria river bottom and is the only way to get into the SE. country from the W. or N. with a wagon or large pack outfit.

Numerous indications of coal were observed in the lower gray bluffs, and above the white underlying sandstone formation. The veins observed were all thin in this township and the coal of a rather poor grade of bituminous. The main outcroppings were observed in the isolated hills in sec. 16, on down to sec. 32. An abandoned coal chute in the SE. ¼ of the SW. ¼ of sec. 32, was probably used by the settlers in the old town of Pahreah. It is caved in now andthe nature of the vein of coal in it could not be ascertained.

Evidence of selenite was found at numerous places on the gray bluffs. No other minerals were found.

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Page

SW. ¼	sec. 7,	in Paria River.	
NW. ¼	" 18,	" " "	
SE. ¼	" 19,	" " "	
NW. ¼	sec. 20,	" " "	
SE. ¼	" 20,	" " "	
E. ½	" 29,	" " "	
NE. ¼	" 32,	" " "	
W. ½	" 33,	" " "	
W. ½	" 8,	in Hackberry Creek.	
NW. ¼	" 9,	" " "	
N. ½	" 9,	" " "	

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Page

4—680

BOOK A-433

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Walter Byerco.	Chainman
Dallin Southworth	"
H. I. Elliot	"
E. Leavitt	"
Melvin Lewis	"
Ira Mace	"
Lynn Phelps	"
Lagel Bird	"
David Gustavson	"
Phano Phelps	" and cornerman.
Arnold E. Smoot	Cornerman.
Roy Lloyd	"
Frank Johnson	"
Verden John	"
Harold Phelps	Flagman.
Hugh Parry	"
A. Ininen	"
D. H. Bemis	"
Lester Metcalf	"
Barnie Isenhouer	"
Donald Kimball	"

6—2764

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Lyman E. Bolinger, U. S. ~~Surveyor~~ Transitman, hereby certify upon 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~~ retraced and resurveyed all those parts or portions of the W. Bdy., surveyed all those parts or portions of the East. bdy., the Eighth St. Par. through R. 1 W., and retraced, resurveyed and surveyed all those parts or portions of the subdivision of T. 41 S., R. 1 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 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

Dated Sept. 16, 1918

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

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—080

BOOK A-433

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, hereby 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 resurvey and survey. West boundary; survey of East boundary and resurvey and survey of the subdivision of Township No. 41 South, Range No. 1 West

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~~ 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

Thos C Rathbone
U. S. Surveyor.

Dated Jan 21-16

~~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.

4—680

BOOK A-433

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Walter Byerge	Chainman.
Dallin Southworth	"
W. F. Elliot	"
E. Leavitt	"
Melvin Lewis	"
Ira Mace	"
Lynn Phelps	"
Lacel Bird	"
Pharo Phelps	" and cornerman.
David Gustavson	"
Harold Phelps	Flagman.
Hugh Parry	"
A. Driver	"
D. H. Bemis	"
Arnold R. Smoot	Cornerman.
Lester Metcalf	Flagman.
Roy Lloyd	Cornerman.
Frank Johnson	"
Verden John	"
Bernie Isenhouer	Flagman.
Donald Kimball	"

6—2754

138

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Jos. C. Thoma, U. S. Surveyor, hereby certify upon 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~~ retraced and resurveyed all those parts or portions of W. bdy., surveyed all those parts or portions of the E. bdy., Eighth St. Par. S. through R. 1 W., and retraced, resurveyed and surveyed all those parts or portions of the subdivision of T. 41 S., R. 1 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 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 of same, and on dates shown on said diagram

Jos. C. Thoma
U. S. Surveyor.

Dated May 3, 1918.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Oct. 15, 1918.

The foregoing field notes of the survey of eighth standard parallel south, through Range 1 West; retracement and resurvey of the S. half of west boundary survey of the east boundary; and the resurvey and survey of the subdivisional lines of Township No. 41 South, Range No. 1 West of the Salt Lake Base and Meridian, Utah;

executed by Thos. C. Rathbone, Jos. C. Thoma, Lyman E. Bolinger and W. R. Johnston 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~~ 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—2764

BOOK A-433

4—680

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Walter Byergo	Chainman.
Dallin Southworth	"
H. E. Elliot	"
E. Leavitt	"
Melvin Lewis	"
Ira Mace	"
Lynn Phelps	"
Lacel Bird	"
Pharo Phelps	" and cornerman.
David Gustavson	"
Harold Phelps	Flagman.
Hugh Parry	"
A. Drinen	"
D. H. Bemis	"
Arnold R. Smoot	Cornerman.
Lester Metcalf	Flagman.
Roy Lloyd	Cornerman.
Frank Johnson	Flagman.
Verden John	"
Barnie Isenhouer	"
Donald Kimball	"

6—2764

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Jos. C. Thoma U. S. Surveyor, hereby certify upon 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 eighth standard parallel south, through Range 1 West; retraced and resurveyed all those parts or portions of the west boundary; surveyed all those parts or portions of the east boundary; and retraced, resurveyed and surveyed all those parts or portions of the subdivision of Township 41 South Range 1 West of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and date diagram on page 1 of same, and on dates shown on said diagram as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the 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.

Dated: May 3, 1918.

Jos. C. Thoma
U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, October 15, 1918.

The foregoing field notes of the survey of eighth standard parallel south through Range 1 West; retracement and resurvey of part of the west boundary; survey of the east boundary; and the retracement, resurvey and survey of the subdivisional lines of Township No. 41 South, Range No. 1 West of the Salt Lake Base and Meridian, Utah,

executed by Jos. C. Thoma, Thos. C. Rathbone, Lyman E. Bolinger and W. R. Johnston 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~~ retracements, resurveys and surveys they describe, are hereby approved.

M. O. Thoresen
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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Page

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Page

1—679

BOOK A-433 C.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT AND RESURVEY OF PORTION OF SOUTH BOUNDARY;

RESURVEY AND SURVEY OF THE EAST BOUNDARY, OR SALT LAKE MERIDIAN;

SURVEY AND RESURVEY OF THE NORTH BOUNDARY;

AND

RESURVEY AND SURVEY OF PART OF THE SUBDIVISION

O F

TOWNSHIP NO. 42 SOUTH, RANGE NO. 1 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

Jos. C. Thoma and Thos C. Rathbone, U. S. Surveyors,

and

William R. Johnston, U.S. Transitman and 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.* 49, *which were approved by the Commissioner of the General Land Office,* March 9, *1916.* Assignment instructions dated Aug. 17, 1916, May 3, 1917, and October 27, 1918, respectively.

Survey commenced October 30, *1916*

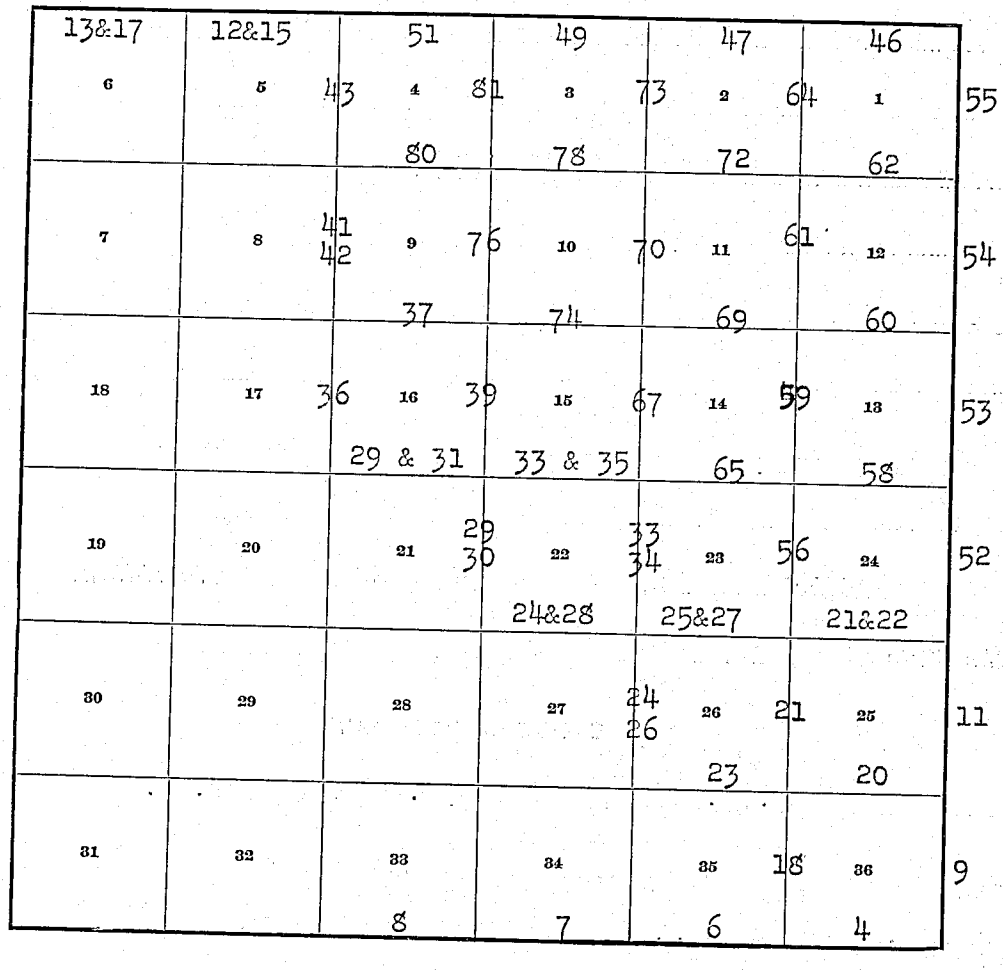
Survey completed November 18, *1918*

6—151

BOOK A-433

INDEX DIAGRAM.

Township 42 South, *Range* 1 West



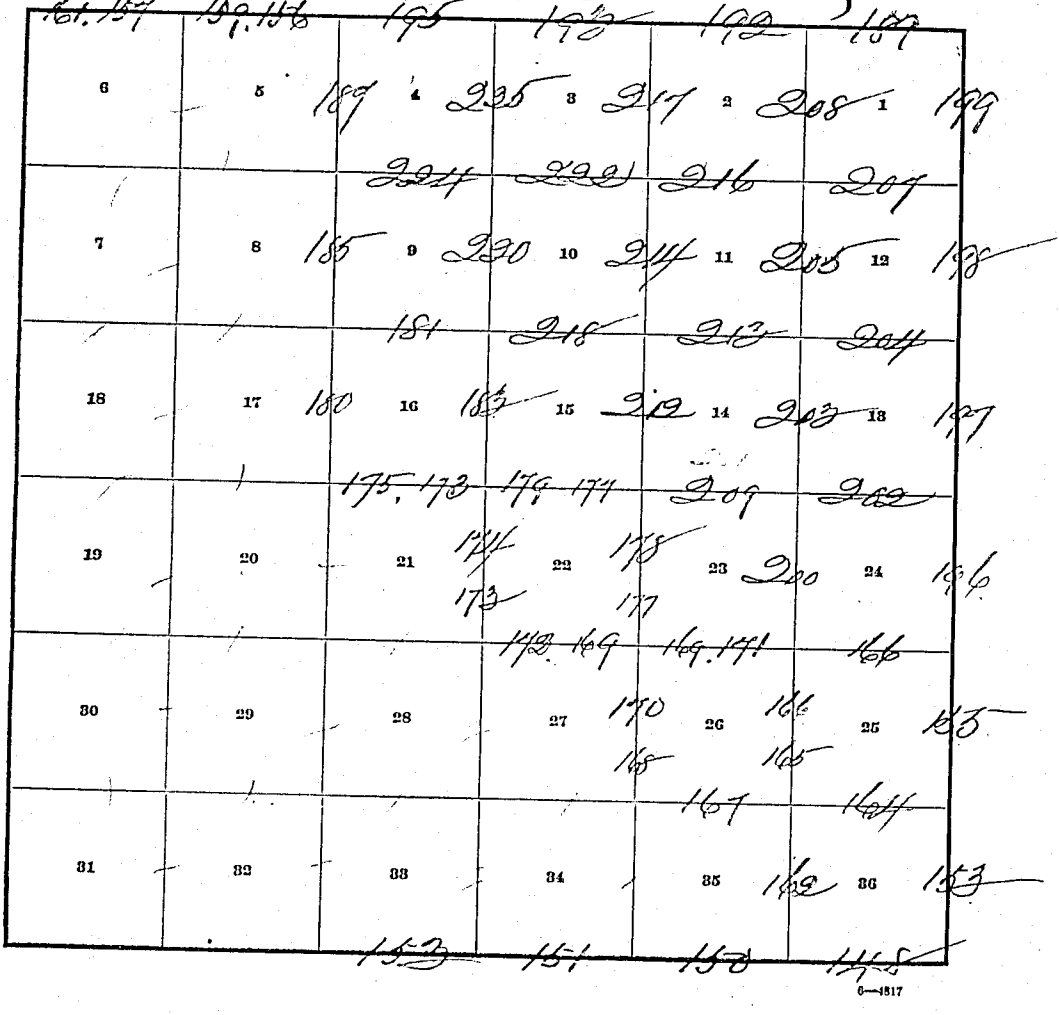
6—151

BOOK A-433

4—679 b

INDEX DIAGRAM.

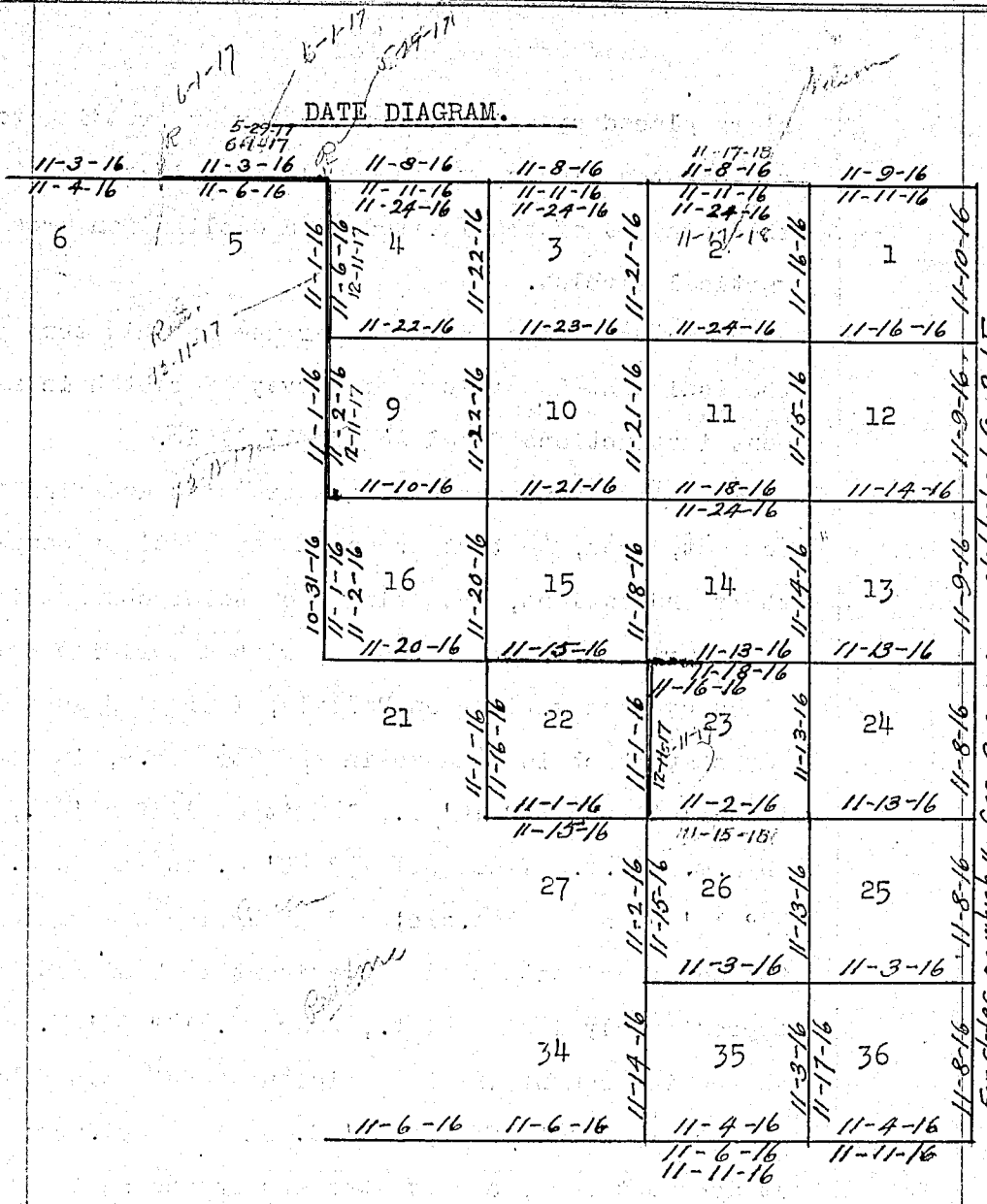
Township 42 S., Range 1 West



6—1817

T. 42 S., R. 1 W.

DATE DIAGRAM.



Lines along which dates are colored red were surveyed by William R. Johnston, U. S. Transitman.

Lines along which dates are colored black were surveyed by Jos. C. Thoma, U. S. Surveyor. Those colored green by Andrew Nelson, U. S. Transitman. Those colored purple by Thos. C. Rathbone, U. S. Surveyor.

Survey commenced October 30, 1916, and executed with Buff & Buff light mountain transit No. 9218 and Young & Sons light mountain transit No. 8589, both transits equipt with Smith solar attachments and full vertical circles.

The horizontal limbs are provided with two double ver-

niers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs and vertical circles.

The instruments were approved for use in this survey by the Assistant Supervisor of Surveys for Utah in assignment instructions dated August 17, 1916.

I examine the adjustments of the transits and find then 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 located in the SE¼ Sec. 9, in approximate latitude 37° 10' N., longitude 111° 57' W., at 9h a.m. app.t., I set off 13° 48' S. on the decl. arc; 37° 10' N. on the lat. arc; and determine a meridian with the solar and note that a prominent rock on the horizon approximately 1 mile dist., bears N. 14° 50' W.

With the instrument in the meridian as determined by my a.m. solar, I set off 13° 51' S. on the decl. arc; and at apparent noon, observe the sun on the meridian, the resulting lat. is 37° 10' N.

I also observe the sun at apparent noon for time with the following results:

	Watch time.
Sun's west limb	12h 01m 30s
Sun's east limb	12 03 50
Mean	12h 02m 40s
Apparent noon	12h 00m 00s
Equation of time Oct. 30 (subtract)	[illegible] 16 15
L.m.t. of apparent noon	11h 43m 45s
Watch time of apparent noon,	12 02 40
Watch fast of L.M.T.	0h 18m 55s

At 3h p.m. app.t., I set off 37° 10' N. on the lat. arc; 13° 53' S. on the decl. arc; and determine a meridian with the solar and note that the rock on the horizon bears N. 14° 50' W.

I use this as a reference line in making my subsequent Polaris observation.

To 42 S., R. 1 W.

Chains.

Polaris observation.

	Hor. Angle.	Watch time.
Tel. Direct.		
Star,	16° 13' 00"	5h 38m 30s p. m.
Rock,	0 00 00	
Star,	16 14 00	5 39 30
Rock,	0 00 00	
Tel. Reversed.		
Star,	16° 15' 00"	5 41 50
Rock,	0 00 00	
Star,	16 15 00	5 43 20
Rock,	0 00 00	
Mean,	16° 14' 15"	5h 40m 47.5s. p.m.
Watch fast, L. m. t.,		18 55
L. m. t. of observation,		5h 21m 52.5s. p.m.

U. C. Polaris October 30, 1916, ... 10h 55.4m p.m.
Correction for long. of station, (sub.) 1.2
U. C. Polaris at station, ... 10h 54.2m p.m.

Hour angle of Polaris, 18h 23.6m.

Eastern azimuth of Polaris, . . . 1° 25' 00"
Angle east, rock to star, . . . 16 14 15
Rock bears, ... N. 14° 49' 15" W.

Young & Sons transit No. 8589 was tested on the above meridian by William R. Johnston, U. S. Transitman, at the same hours, using the same arc settings as above recorded. These tests practically showed the same results, therefore, I conclude that both instruments are in adjustment. Both instruments were frequently tested and kept in adjustment. October 30, 1916.

A five chain Lufkin steel tape was used in making all measurements, together with clinometers for determining slope angles. The tapes were tested at frequent intervals, comparison being made with a standard tape one chain long, kept and used for that purpose only.

From the cor. of twps. 42 and 43 S., Rgs. 1 E. and 1 W., which is

A sandstone, 8x8x10 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor general; along side of which

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for the reestablished cor. of tps. 42 and 43 S., Rgs. 1 E. and 1 W., with brass cap mkd.

Retracement of the S. Bdy. of T. 42 S., R. 1 W.

Chains.	
	T 42 S R 1 W | R 1 E S 36 | S 31 S 1 | S 6 T 43 S. 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. West, retracing the S. bdy. of T. 42 S., bet. secs. 1 and 36.
40.00	Afterdiligent search, find no evidence of the old ¼ sec. cor.
	Continue retracement west, making careful searches at interval of 40 chs. for old corners, none of which were found until at
320.64	From the twp. con., fall 195 lks. S. of the old cor. of secs. 4, 5, 32 and 33, which is
	A sandstone 6x6x6 ins. above ground, firmly set; mkd. as described by the surveyor general, along side of which
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the reestablished cor. for secs. 4 5, 32 and 33, with brass cap mkd.
	T 42 S R 1 W S 32 | S 33 S 5 | S 4 T 43 S 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The course of this line is therefore N. 89° 39' W., and the proportional dist. for each mile is 80.16 chs.

	From the cor. of Tps. 42 and 43 S., Rgs. 1 E. and 1 W., N. 89° 39' W., resurveying the line bet. secs. 1 and 36.
	Desc. gradually over rolling land, through scattering sagebrush and shadscale undergrowth.
5.40	Well defined trail bears N. 80° E. and S. 80° W.
13.50	Draw, 10 lks. wide, 3 ft. deep, drains SW., 30 ft. below twp. cor.; asc. gradually over rolling land.

Resurvey of the S. Bdy. of T. 42 S., R. 1 W.

Chains.	
30.40	Top of asc., bears NE. and SW., 30 ft. above draw; desc. gradually.
35.40	Top of white ledges, 20 ft. below top of asc., bears N. and S., desc. abruptly.
40.08	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the restored ¼ sec. cor. for secs. 1 and 36, with brass cap mkd.
	¼ S 36 / S 1
	1916
	Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.
42.70	Gulch, drains SW., 110 ft. below top of asc.; asc.
44.50	Sand ridge, bears NE. and SW., 40 ft. above gulch; desc.
45.50	Draw, 10 lks. wide, 2 ft. deep, drains SW., 40 ft. below sand ridge; asc.
48.30	Base of sandstone ledge, 30 ft. above draw, bears N. and S., At this point I offset 86 lks. S. in order to avoid sandstone ledge, impracticable to chain on line.
49.50	Draw, 8 lks. wide, 2 ft. deep, drains S. 20° E., 30 ft. below base of sandstone ledge; asc.
	At this point, in order to avoid a round clay pinnacle, I offset 186 lks. to the north; thence on a 1 ch. offset to the north
53.80	Ridge, bears N. and S., 90 ft. above draw; desc.
58.80	Top of white sandstone ledge, bears N. and S., desc.
69.90	Draw, 10 lks. wide, 3 ft. deep, drains S., 110 ft. below ridge; asc.
76.30	Point of red sandstone ridge bears N. and S., 40 ft. above draw; desc. Offset 1 ch. south and at
80.16	(Proportional measurement) Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the restored cor. of secs. 1, 2, 35 and 36, with brass cap mkd.
	T 42 S R 1 W S 35 | S 36 S 2 | S 1 T 43 S
	1916

Chains.	
	Dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.
	Cor. established 30 ft. below point of red sandstone ridge.
	Land, broken in the western portion; gently rolling in the eastern portion.
	Soil, light and shallow clay and loam with white and red sandstone close to surface.
	Undergrowth, scattering sagebrush and shadscale.
	Timber, none.
	Sandstone formation, southern exposure. Poor grazing.

	From the restored cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the twp.
	N. 89° 39' W., resurveying the line bet. secs. 2 and 35.
	Desc. over broken clay and sand hills, through scattering sage brush and shadscale undergrowth.
10.60	Draw, 5 lks. wide; 2 ft. deep, drains SE., 30 ft. below sec. cor.; asc. abruptly.
15.50	Clay ridge, bears N. and S., 100 ft. above draw; desc. over broken badlands.
34.20	Ravine, drains SW., 190 ft. below ridge; asc.
	Knowing that the true point for the ¼ sec. cor. will fall in broken badlands where it will impracticable to set, therefore at
37.84	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the restored witness ¼ sec. cor. for secs. 2 and 35, with brass cap mkd.
	$WC\frac{1}{4}\ \frac{S\ 35}{S\ 2}$
	1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Impracticable to measure along line, therefore I offset 2.02 chs. to the S., thence on offset line.
40.08	2.02 chs. N. the point for the ¼ sec. cor. Cor. not set.
40.90	Wash, 10 lks. wide, 2 ft. deep, drains SW., 10 ft. below W. C. ¼ sec. cor.; asc.
48.20	Sand ridge, bears N. and S., 190 ft. above wash.

Resurvey of the S. bdy. of T. 42 S., R. 1 W.

Chains.	
51.50	Start desc. over west slope of ridge, bears N. and S.
58.00	Start desc. over a series of sandstone ledges, bears N. and S.
66.60	Ravine, drains SW., 210 ft. below sand ridge; asc.
	Knowing from retracements that the true point for the cor. of secs. 2, 3, 34 and 35, will fall in broken badlands where it will be impracticable to establish a permament corner, therefore at
71.28	offset 2.02 chs. N. and
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the witness cor. to secs. 2, 3, 34 and 35, with brass cap mkd.
	T 42 S R 1 W WC S 34 | S 35 S 3 | S 2 T 43 S 1916
	Raise a mound of stone, 2 ft. base; 1½ ft. high, W. of cor.
	It is impracticable to chain to the west from this witness cor. on account of the perpendicular ledges, therefore offset 8.45 chs. S.; thence on offset line
75.30	Wash, 1 ch. wide, 4 ft. deep, 12 ft. below offset point, drains SW., asc. gradually.
80.16	North, 8.45 chs. to true point for the cor. of secs. 2, 3, 34 and 35. Impracticable to set cor.
	Land, broken badlands.
	Soil, light sand and dark clay.
	Undergrowth, sagebrush and shadscale.
	No timber.
	Sandstone formation, southern exposure, poor grazing.

	From the true point for the cor. of secs. 2, 3, 34 and 35.
	N. 89° 39' W., resurveying the S. bdy. of the twp., bet. secs. 3 and 34.
	Over broken badlands, through scattering sagebrush and shadscale undergrowth.
16.60	Start gradual desc. over W. slope, bears N. and S.

Chains.	
30.90	Wash, 60 lks. wide, 10 ft. deep, drains SW.; asc. gradually.
40.08	(Proportional measurement) Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 34 / S 3
	1916
	Dig pits, 18x18x12 ins. E. and W. of cor., 3 ft. dist.
	To avoid sandstone spur projecting S., I offset south 2.00 chs.,
	Thence on offset line.
56.00	South end of sandstone spur; desc. gradually.
70.55	At this point I offset North 2.00 chs. to true line.
	Thence on true line
	Knowing from retracements that the true point for the cor. of secs. 3, 4, 33 and 34, will fall in the badlands, where it will be impracticable to set a permanent cor., therefore at
76.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the witness cor. of secs. 3, 4, 33 and 34, with brass cap mkd.
	T 42 S R 1 W WC S 33 | S 34 S 4 | S 3 T 43 S
	1916
	Dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.
80.16	True point for the cor. of secs. 3, 4, 33 and 34. Cor. not set.
	Land, rolling and broken badlands.
	Soil, light sand and dark clay.
	Timber, none.
	Undergrowth, scattering sagebrush and shadscale.
	Southern exposure. Sandstone formation. Poor grazing.
	From the true point for the cor. of secs. 3, 4, 33 and 34.

Resurvey of the S. bdy. of T. 42 S., R. 1 W.

Chains.	
	N. 89° 39' W., resurveying the line bet. secs. 4 and 33.
	Desc. gradually over rolling land, through scattering sagebrush and shadscale undergrowth.
2.00	Paria River, 60 lks. wide, 6 ins. deep, water clear and running, course S., continue in creek bed.
16.70	West bank of Paria River, 10 ft. high, bears N. and S.; asc. gradually through dense sage brush.
36.70	Leave river bottom lands, bears N. and S., enter rolling sand hills.
40.08	(Proportional measubement) Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the restored ¼ sec. cor. for secs. 4 and 33, with brass cap mkd.
	¼ S 33 / S 4
	1916
	Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.
54.60	Spur, projects N., approximately 3 chs., 70 ft. above the Paria River; desc. gradually.
62.10	Draw, 10 lks. wide; 3 ft. deep, drains NE., 40 ft. below spur; asc.
80.16	The cor. of secs. 4, 5, 32 and 33.
	Land, rolling.
	Soil, light sandy loam in river bottom, light, fine sand in the western portion on clay subsoil.
	Timber, scattering cottonwood in river bottom.
	Undergrowth, sagebrush and shadscale.
	Southern exposure, sandstone and shale formation.
	Good grazing in river bottom, poor in the other portion.

Retracement Salt Lake Meridian.

From the cor. of Tps. 42 and 43 S., Rgs. 1 E. and 1 W., North, retracing the Salt Lake Meridian, bet. secs. 31 and 36.

Desc. gradually over rolling land, through scattering sagebrush and shadscale undergrowth.

2.80	Draw, 10 lks. wide, 2 ft. deep, drains S. 35° E., 20 ft. below twp. cor.; asc. gradually.

Chains.	
18.50	Same draw, drains S. 35° W., asc. gradually.
40.13	Fall 40 lks. W. of the old ¼ sec. cor., which is A sandstone, 8x4x10 ins. above ground, firmly set; mkd. and witnessed as described by the surveyor general. Along side of which Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the reestablished ¼ sec. cor., with brass cap mkd.

¼

S 36 | S 31

1916

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
The course of this half mile is therefore N. 0° 34' E., and the dist. is 40.13 chs.

From the ¼ set. cor.,
North, on retracement.

2.50	Old road, bears NW. and SE.
3.50	Start asc. over broken ledges, bears NW. and SE.
6.90	Top of broken ledges, bears NW. and SE., 40 ft. above ¼ sec. cor.; continue ascent.
16.00	Top of ledge, bears NW. and SE., 30 ft. above top of broken ledge; desc. gradually.
30.60	Draw, 10 lks. wide, 2 ft. deep, drains NW., 50 ft. below top of ledge; asc.
34.20	Ridge, bears E. and W., 40 ft. above draw; desc.
40.59	Fall 36 lks. W. of the cor. of secs. 25, 30, 31 and 36, which is A limestone, 14x3x12 ins. above ground, firmly set, mkd. as described by the surveyor general. Along side of which Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, on solid rock, in mound of stone, for the re-established cor. of secs. 25, 30, 31, and 36, with brass cap mkd.

Resurvey of the Salt Lake Meridian through

T. 42 S., R. 1 W.

Chains.	
	T 42 S R 1 W | R 1 E S 25 | S 30 S 36 | S 31 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The course of this half mile is therefore N. 0° 31' E., and the dist. is 40.59 chs.
	Land, gently rolling and broken.
	Soil, shallow gray adobe and shale.
	Timber, none.
	Undergrowth, scattering sagebrush, greasewood and shadscale.
	Southern exposure, Shale & sandstone formation. Poor grazing.
	From the cor. of secs. 25, 30, 31 and 36.
	North, on resurvey, bet. secs. 25 and 30.
	Desc. gradually over rolling land, through scattering sagebrush and shad scale undergrowth.
8.00	Draw, drains NE., 60 ft. below sec. cor.; asc.
12.70	Spur, projects E., approximately 3 chs., 60 ft. above draw; desc.
18.40	Draw, drains E., 50 ft. below spur; asc.
20.20	Ridge, bears N. 70° E., and S. 79° W., 20 ft. above draw; desc. gradually over rolling land.
32.75	Road, bears E. and W.
36.30	Subsequently, set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec. 30, with brass cap mkd. ¼ | S 30 | 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the ¼ sec. cor. for sec. 25, with brass cap mkd. ¼ | S 25 | 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, West of cor.

Resurvey of the Salt Lake Meridian through

T. 42 S., R. 1 W.

Chains.	
55.00	Draw, 8 lks. wide, 2 ft. deep, drains NE., asc. gradually over rolling land.
75.60	Draw, 10 lks. wide, 2 ft. deep, drains E., continue gradual asc.
76.30	The point for the closing cor. bet. secs. 19 and 30. (See notes of T. 42 S., R. 1 E.)
80.00	After diligent search, find no evidence of the old cor. of secs. 19, 24, 25 and 30. At this point Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the restored cor. for secs. 24 and 25, with brass cap mkd.

T 42 S
R 1 W
S 24 | S 25
1916

Dig pits, 18x18x12 ins. in each sec., 5½ ft. dist.

Land, rolling bench.

Soil, light gray clay and loam, shallow.

Timber, none.

Undergrowth, sagebrush and shadscale.

Southern exposure. Shale and sandstone formation. Poor grazing.

Retracement and Resurvey of the North bdy. of T. 42 S., R. 1 W.

From the temp. point set for the cor. of secs. 4, 5, 32 and 33, on the N. bdy. of the twp., which point is located 80.00 chs. N. and 6 chs. W. of the old witness cor. for secs. 4, 5, 8 and 9, the description of the cor. and the details in connection with the establishment of this temp. point are more fully set forth in the retracement of subdivision in this twp. After diligent search the old cor. of secs. 4, 5, 32 and 33 was not found.

West, retracing the N. bdy. of the twp., bet. secs. 5 and 32.

For topography, see resurvey of the N. bdy. of this twp.

39.25	Fall 3 lks. N. of

Retracement of the N. bdy. of T. 42 S., R. 1 W.

Chains.	
	A sandstone, 10x12x4 ins., set in small md. of stone, marks illegible. I take this to be the old ¼ sec. cor. bet. secs. 5 and 32. (For restoration, see resurvey of this mile.) I continue line with continuous measurement.
46.17	Fall 3 lks. N. of the old witness cor. for secs. 5, 6, 31 and 32, which is
	A sandstone boulder, 10x10x10 ft., mkd. as described by the surveyor general. Md. of stone on top of boulder.
	Continue line with continuous measurement.
79.25	or 40.00 chs. W. of the old ¼ sec. cor. leave temporary point for the cor. of secs. 5, 6, 31 and 32.

	From the temp. point for the cor. of secs. 5, 6, 31 and 32,
	West, retracing the N. bdy. of the twp., bet. secs. 6 and 31.
	(For topography, see resurvey of this mile.)
40.00	This point falls on sandstone ledges and as it will be impossible to establish a permanent ¼ sec. cor., leave no temp point.
47.52	Leave temp. point for the witness ¼ sec. cor.
53.00	After diligent search, I find no evidence of the old witness ¼ sec. cor.
78.53	Fall 160 lks. S. of the cor. of tps. 41 and 42 S., Rgs. 1 and 2 W., which is
	A sandstone, 12x8x12 ins. above ground, firmly set; mkd. and witnessed as described by the surveyor general.
	Along side of which
	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for the reestablished cor. of twps. 41 and 42 S., Rgs., 1 and 2 W., with brass cap mkd.

T 41 S

R 2 W	R 1 W
S 36	S 31
S 1	S 6

T 42 S

1916

from which

Retracement of the N. bdy. of T. 42 S., R. 1 W.

Chains.

A cedar, 8 ins. diam., bears N. 40° E., 105 lks. dist., mkd. T41SR1WS31BT.

A cedar, 16 ins. diam., bears S. 36° 30' E., 242 lks. dist., mkd. T42SR1WS6BT.

A cedar, 10 ins. diam., bears S. 33° W., 420 lks. dist., mkd. T42SR2WS1BT.

A cedar, 12 ins. diam., bears N. 59° 30' W., 507 lks. dist., mkd. T41SR2WS36BT.

The course of the line from the old ¼ sec. cor. for secs. 5 and 32 is therefore N. 89° 13' W. and the proportional dist. for each half mile is 39.52 chs.

Resurvey of the N. bdy. T. 42 S., R. 1 W.

In order to restore the cor. of secs. 4, and 5, I proceed as follows:

I set a point 40.00 chs. East, (record) of the old ¼ sec. cor. bet. secs. 5 and 32, from this point, the temp. point left on line bet. secs. 4 and 5, 80.00 chs. (record) north of the true point for the cor. of secs. 5 and 8, (see notes on retracement of this line) bears N. 87° 43' W., 75 lks. dist. I restore cor. for secs. 4 and 5, 1/3 of 75 lks., or 25 lks., N. 87° 43' W., from the point 40 chs. E. of the old ¼ sec. cor. At this point Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the restored cor. of secs. 4 and 5, with brass cap mkd.

T 41 S R 1 W
S 33
S 5 | S 4
T 42 S

1916

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

The course of the line bet. the old ¼ sec. cor. for secs. 5 and 32, and this restored cor. of secs. 4 and 5 is therefore N. 89° 59' E., and the dist. is 39.75 chs.

Resurvey of the N. bdy. of T. 42 S., R. 1 W.

Chains.	
	The course of the line bet. secs. 4 and 5 is therefore N. 0° 21' E., and the dist. is 79.98 chs.
	From the restored cor. of secs. 4 and 5, S. 89° 59' W., resurveying the N. bdy. of the twp., among the N. bdy. of sec. 5.
	Asc. gradually over level bottom land of Paria Canon, through scattering sagebrush, salt sage, shadscale, bunch and sand grass.
0.40	Thos. C. Rathbone, U. S. Surveyor, subsequently Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 32 and 33, T. 41 S., R. 1 W., with brass cap mkd. T 41 S R 1 W S 32 | S 33 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Leave bottom of Paria Canon, bears N. and S., asc. abruptly over broken mountainous land.
9.50	Spur, projects SE., approximately 5 chs., 160 ft. above bottom of canon; desc. abruptly.
17.60	Draw, 10 lks. wide, 3 ft. deep, drains SE., 40 ft. below spur; asc. gradually.
30.90	Ridge, bears N. and S., 80 ft. above draw; desc. abruptly over perpendicular sandstone ledges 75 ft. high, bears N. and S. The SE. post of coal chute bears N. 68° 30' W.,
39.20	Wash in bottom of draw, 20 lks. wide, 5 ft. deep, drains north, 160 ft. below ridge; asc. gradually.
39.75	The old ¼ sec. cor., alongside of which Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the reestablished ¼ sec. cor. for sec. 5, with brass cap mkd. ¼ S 5 1916 Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.

Resurvey of the N. bdy. of T. 42 S., R. 1 W.

Chains. From the ¼ sec. cor. N. 89° 13' W., resurveying the western half of the N. bdy. of sec. 5.

0.65 Thos. C. Rathbone, U. S. Surveyor, subsequently Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the ¼ sec. cor. for sec. 32, with brass cap mkd.

¼ S 32

1917

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

0.71 From this point, the SE. post of coal shute bears N. 33° W.

6.92 The old witness cor. for secs. 5, 6, 31 and 32. Asc. abruptly over large sandstone boulders.

12.30 Spur, projects NE., 190 ft. above draw; desc.

13.60 Draw, 5 lks. wide, 2 ft. deep, drains NE., 40 ft. below spur; asc. abruptly.

15.65 Small coal vein, 2 ft. wide, bears N. and S.

18.00 Draw, 10 lks. wide, 3 ft. deep, drains NE., 75 ft. below ridge; enter scattering scrub cedar and pinon timber, bears N. and S.; asc. abruptly.

27.00 Spur, projects NE., approximately 6 chs., 185 ft. above draw; desc. gradually.

32.00 Draw, 10 lks. wide, 2 ft. deep, drains NE., 20 ft. below spur; asc. gradually.

39.52 (Proportional measurement) True point for the restored cor. of secs. 5 and 6, falls on ledge, impracticable to set. (For the establishment of witness cor., see following mile.

Land, rough mountainous, covered with large sandstone and conglomerate boulders.

Soil, light sand and gray loam, shallow.

Timber, scattering scrub cedar and pinon.

Undergrowth, scattering sage brush, salt sage, shadscale, bunch and sand grass.

Eastern exposure. Sandstone and shale formation. Good

Resurvey of the N. bdy. of T. 42 S., R. 1 W.

Chains.	
	grazing. Some indication of coal.
	From the true point for the cor. of secs. 5 and 6. N. 89° 13' W., resurveying the N. bdy. of the twp., along the N. bdy. of sec. 6.
	Asc. over rough and broken mountainous land, through scattering scrub cedar and pinon timber.
0.54	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the witness cor. for secs. 5 and 6, with brass cap mkd.
	T 41 S R 1 W S 32 S 6 | S 5 WC T 42 S 1916 from which
	A pinon, 14 ins. diam., bears S. 59° E., 86 lks. dist., mkd. T42SR1WS5WCBT.
	A pinon, 12 ins. diam., bears S. 66° W., 29 lks. dist., mkd. T42SR1WS6WCBT.
1.13	Thos. C. Rathbone, U. S. Surveyor, subsequently Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, on solid rock, in mound of stone, for the cor. of secs. 31 and 32, T. 41 S., R. 1 W., with brass cap mkd.
	T 41 S R 1 W S 31 | S 32 1917 from which
	A pinon, 6 ins. diam., bears N. 2° W., 75 lks. dist., mkd. T41SR1WS31BT.
	A cedar, 7 ins. diam., bears N. 37° E., 146 lks. dist., mkd. T41SR1WS32BT.
14.60	Ridge, bears N. and S., 360 ft. above sec. cor.; desc. abruptly.
29.60	Ravine, drains N., 360 ft. below ridge; asc. over eastern slope of sandstone ledges.
39.52	Point for ¼ sec. cor. for sec. 6, falls on ledges, impracticable to set cor.

Resurvey of the N. bdy. of T. 42 S., R. 1 W.

Chains.

47.40 Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground, on solid rock, in mound of stone, for the witness ¼ sec. cor., with brass cap mkd.

¼ $\frac{S\ 31}{S\ 6}$ WC

1916

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

No trees within reasonable dist. suitable for bearing trees.

(Note: This cor. was originally set for the witness ¼ sec. cor for sec. 6 only, and subsequently Thos. C. Rathbone, U. S. Surveyor, mkd. the post as a witness cor. to sec, 31, also.)

57.60 Ridge, bears N. and S., 445 ft. above ravine; desc. abruptly over sandstone ledges and boulders.

79.04 The cor. of Twps. 41 and 42 S., Rgs. 1 and 2 W. (For description, see page 13.

Land, rough and broken mountainous.

Soil, light sand, in most places shallow.

Timber, scattering scrub cedar and pinon.

Undergrowth, scattering sagebrush, shadscale, yellow top, bunch grass and brigham tea.

Sandstone formation. Good grazing.

Retracement and resurvey of Subdivision.

From the restored cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the twp., heretofore described.

North, retracing the line bet. secs. 35 and 36.

40.00 Afterdiligent search, find no evidence of the old ¼ sec. cor.

79.76 Fall 32 lks. W. of the cor. of secs. 25, 26, 35 and 36, which is

A sandstone, 10x4x10 ins. above ground, firmly set; mkd. and witnessed as described by the surveyor general.

Along side of which

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 25, 26, 35 and 36,

Retracement and resurvey of Subdivision, T. 42 S., R. 1 W.

Chains.	
	with brass cap mkd.
	T 42 S R 1 W S 26 | S 25 S 35 | S 36 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The course of this mile is therefore S. 0° 14' W., and the dist. is 79.76 chs.
	S. 0° 14' W., resurveying the line bet. secs. 35 and 36.
	Asc. gradually over rolling land, through scattering sagebrush, shadscale and salt sage undergrowth.
22.80	Topmof ledges 10 ft. high, bears E. and W.; desc.
29.20	Draw, 10 lks. wide, 3 ft. deep, drains SE., 120 ft. below top of ledges; asc.
35.40	Spur, projects E., approximately 3 chs., 50 ft. above draw; desc.
39.88	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the ¼ sec. cor., with brass cap mkd.
	¼ S 35 | S 36 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
41.50	Draw, drains E., 40 ft. below spur; asc. gradually.
50.80	Draw, 10 lks. wide, 2 ft. deep, drains E.; continue gradual asc.
61.10	Low rolling ridge, bears NE. and SW., 20 ft. above draw; desc.
71.60	Top of white sandstone ledge 150 ft. high, bears N. 70° W. and S. 70° E.; desc. abruptly.
79.76	The cor. of secs. 1, 2, 35 and 36, 260 ft. below top of ledge.
	Land, rolling in the northern portion; rough and broken in the extreme southern portion.
	Soil, light sandy loam and light gray clay; 2 to 4 ft. deep.
	Timber, none.

Retracement and resurvey of subdivision, T. 42 S., R. 1 W.

Chains.

Undergrowth, scattering sagebrush and shadscale.

Sandstone formation. Southern exposure. Poor grazing.

From the reestablished cor. of secs. 25, 26, 35 and 36.

N. 89° 45' E., retracing the line bet. secs. 25 and 36.

40.11 After diligent search, find no evidence of the old ¼ sec. cor.

80.55 Fall 23 lks. N. of the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the twp., heretofore described.

S. 89° 55' W., resurveying the line bet. secs. 25 and 36.

Desc. gradually over rolling land, through scattering sagebrush and shadscale undergrowth.

4.80 Draw, 10 lks. wide, 2 ft. deep, drains NE., 20 ft. below sec. cor.; asc. gradually.

7.40 Old road, bears NW. and SE.

9.70 Spur, projects N., 20 ft. above draw; desc. gradually.

14.70 Draw, 12 lks. wide, 3 ft. deep, drains NE., 10 ft. below spur; asc. abruptly.

19.60 Top of abrupt asc., bears NE. and SW., 60 ft. above draw; desc. gradually.

30.30 Draw, 10 lks. wide, 2 ft. deep, drains N., asc. gradually over rolling land.

40.27½ Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{S\ 25}{S\ 36}$$

1916

Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.

Continue over gently rolling land.

80.55 The cor. of secs. 25, 26, 35 and 36.

Land, rolling and broken bench land.

Soil, light gray clay loam, 2 to 4 ft. deep.

Timber, none.

Undergrowth, scattering sagebrush and shadscale.

Southern exposure. Sandstone formation. Poor grazing.

Chains.	
	From the cor. of secs. 25, 26, 35 and 36.
	North, retracing the line bet. secs. 25 and 26.
40.00	After diligant search, find no evidence of the old ¼ sec. cor., leave temp. point.
80.00	After diligent search, find no evidence of the old cor. of secs. 23, 24, 25 and 26, leave temp. point.

	From the restored cor. of sections, 24, and 25 on on the E. bdy. of the twp., heretofore described.
	S. 89° 53' W., retracing the line bet. secs. 24 and 25.
40.14	After diligant search, find no evidence of the old ¼ sec. cor., leave temp. point.
80.27	After diligent search, find no evidence of the old cor. of secs. 23, 24, 25 and 26, leave temp. point.

	I restore the cor. of secs. 23, 24, 25 and 26 as follows.
	From the temp. point left 80.00 chs. N. (record) of the cor. of secs. 25, 26, 35 and 36; the temp. point left S. 89° 53' W., 80.27 chs. (record) from the cor. of secs. 24 and 25 Bears East 12 lks. and South 15 lks. I restore the cor. 6 lks. East and 7½ lks. South of the point 80.00 chs. North of the cor. of secs. 25, 26, 35 and 36.
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the restored cor. of secs. 23, 24, 25 and 26, with brass cap mkd.
	T 42 S R 1 W S 23 | S 24 S 26 | S 25 1916
	Dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.
	The course of the line bet. secs. 25 and 26 is therefore N. 0° 3' E., and the dist. is 79.92 chs.
	The course of the line bet. secs. 24 and 25 is therefore S. 89° 56' W., and the dist. is 80.33 chs.

	From the cor. of secs. 25, 26, 35 and 36.

Resurvey of Subdivisional Lines in T. 42 S., R. 1 W.

Chains.	
	N. 0° 3' E., resurveying the line bet. secs. 25 and 26.
	Desc. gradually over rolling land, through scattering sagebrush and shadscale undergrowth.
21.30	Old road, bears E. and W.
34.00	Swale, drains W., 10 ft. below sec. cor.; asc. gradually.
39.96	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the restored ¼ sec. cor., with brass cap mkd.
	S 26 ¼ | S 25
	1916
	Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
46.20	Low rolling ridge, bears E. and W., 20 ft. above swale; desc. gradually.
53.70	Swale, drains SW., 10 ft. below ridge; asc. over clay foothills.
68.00	Clay ridge, bears E. and W., 110 ft. above swale; desc.
77.20	Draw, 10 lks. wide, 3 ft. deep, drains W., 70 ft. below ridge; asc. abruptly.
79.80	Spur, projects NW., approximately 5 chs., 70 ft. above draw; desc.
79.92	The restored cor. of secs. 23, 24, 25 and 26.
	Land, rolling.
	Soil, light gray clay, 2 to 4 ft. deep.
	Timber, none.
	Undergrowth, sagebrush and shadscale.
	Southern exposure. Sandstone formation. Poor grazing.
	From the restored cor. of secs. 23, 24, 25 and 26.
	N. 89° 56' E., resurveying the line bet. secs. 24 and 25.
	Asc. over rolling clay hills devoid of vegetation.
11.73	Offset 6.67 chs. South to avoid crossing the S. end of a butte, over which it would be impracticable to chain.
	Thence on offset line, with continuous measurement.
16.70	Ridge, bears N. and S., 50 ft. above sec. cor.; desc.
29.10	Start abrupt desc., bears N. and S.

Chains.

40.16½ Offset 6.67 chs. North, to true line and

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the restored ¼ sec. cor., with brass cap mkd.

¼ S 24
S 25

1916

Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.

Thence on true line with continuous measurment.

80.33 The cor. of sections, 24, and 25, on the E. bdy. of the twp., heretofore described.

Land, rolling clay hills in the western portion, gently rolling bench land in the eastern portion.

Soil, light gray clay and loam, 2 to 4 ft. deep.

Timber, none.

Undergrowth, scattering sagebrush and shadscale in the eastern portion only.

Southern exposure. Sandstone formation. Poor grazing.

From the cor. of secs. 26, 27, 34 and 35, which is

A sandstone, 8x6x8 ins. above ground, firmly set; mkd. as described by the surveyor general. Along side of which

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the reestablished cor. of secs. 26, 27, 34 and 35, with brass cap mkd.

T 42 S R 1 W

S 27	S 26
S 34	S 35

1916

Dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.

East, retracing the line bet. secs. 26 and 35.

40.08 After diligent search, find no evidence of the old ¼ sec. cor., leave temp. point.

80.42 Fall 138 lks. N. of the cor. of secs. 25, 26, 35 and 36.

The course of this mile is therefore N. 89° 01' W., and

Resurevy of Subdivision, T. 42 S., R. 1 W.

Chains.	
	the dist. is 80.43 chs.
	N. 89° 01' W., resurveying the line bet. secs. 26 and 35.
	Desc. gradually over rolling land, through scattering sagebrush and shadscale undergrowth.
17.70	Draw, 10 lks. wide, 2 ft. deep, drains N., continue over gently rolling land.
40.21½	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the restored ¼ sec. cor., with brass cap mkd.
	¼ S 26 / S 35
	1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
52.30	Draw, 10 lks. wide, 2 ft. deep, drains N. 30° E.; asc. gradually over rolling land.
71.00	Top of ledge, 30 ft. high, bears NW. and SE., 60 ft. above draw; desc. abruptly.
73.10	Draw, 12 lks. wide. 3 ft. deep, drains NW., 60 ft. below ledge; asc.
80.43	The cor. of secs. 26, 27, 34 and 35.
	Land, rolling bench land.
	Soil, light gray clay and loam, 2 to 4 ft. deep.
	Timber, none.
	Undergrowth, scattering sagebrush and shadscale.
	Southern exposure. Sandstone formation. Poor grazing.
	From the cor. of secs. 26, 27, 34 and 35.
	North, retracing the line bet. secs. 26 and 27.
40.00	After diligent search, find no evidence of the old ¼ sec. cor., leave temp. point.
80.00	After diligent search, find no evidence of the old cor. of secs. 22, 23, 26 and 27, leave temp. point.
	From the old cor. of secs. 21, 22, 27 and 28, which is A red sandstone boulder, 2x4x8 ft., firm, mkd. as described by the surveyor general, along side of which

Chains.	
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 21, 22, 27 and 28, with brass cap mkd.
	T 42 S R 1 W S 21 | S 22 S 28 | S 27 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	N. 89° 53' E., retracing the line bet. secs. 22 and 27.
40.12	After diligent search, find no evidence of the old ¼ sec. cor., leave temp. point.
80.23	After diligent search, find no evidence of the old cor. of secs. 22, 23, 26 and 27. Leave temp. point.

	From the cor. of secs. 23, 24, 25 and 26,
	N. 89° 53' W., retracing the line bet. secs. 23 and 26.
40.08	After diligent search, find no evidence of the old ¼ sec. cor., leave temp. point.
80.16	After diligent search, find no evidence of the old cor. of secs. 22, 23, 26 and 27, leave temp. point.

	Restoration of the cor. of secs. 22, 23, 26 and 27.
	The point established N. 89° 53' E., 80.23 chs. (record) from the cor. of secs. 21, 22, 27 and 28, is designated "A".
	The point established North, 80.00 chs. (record) from the cor. of secs. 26, 27, 34 and 35, is designated "B".
	The point established N. 89° 53' W., 80.16 chs. (record) from the cor. of secs. 23, 24, 25 and 26, is designated "C".
	From "A", "C" bears 32 lks. N. and 1.31 chs. E.
	From "A", "B" bears 162 lks. N. and 76 lks. E.
	I restore the cor. of secs. 22, 23, 26 and 27, 64 lks. N. and 69 lks. E. of point "A".
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in

Chains.	
	the ground for the restored cor. of secs. 22, 23, 26 and 27, with brass cap mkd.

T 42 S R 1 W

S 22	S 23
S 27	S 26

1916

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

The course of the line bet. secs. 26 and 27, is therefore N. 0° 3' W., and the dist. is 79.02 chs.

The course of the line bet. secs. 23 and 26, is therefore N. 89° 39' W., and the dist. is 80.78 chs.

The course of the line bet. secs. 22 and 27, is therefore S. 89° 26' W., and the dist. is 80.92 chs.

From the cor. of secs. 26, 27, 34 and 35.

N. 0° 3' W., resurveying the line bet. secs. 26 and 27.

Asc. gradually over broken benchland, through scattering sagebrush and shadscale undergrowth.

0.50	Shale point, projects W., 10 ft. above sec. cor.; desc.
14.60	Draw, drains N. 60° W., 50 ft. below point; asc.
24.50	Top of asc., bears NW. and SE., 40 ft. above draw; desc.
25.40	Gully, drains NW., 40 ft. below top of asc.; asc.
27.60	Edge of slope of gully, bears NW. and SE.; asc. gradually.
28.30	Ridge, bears E. and W., 20 ft. above gully; desc. abruptly.
35.50	Bottom of small canon, drains W., 80 ft. below ridge; asc.
36.80	Ledge, 40 ft. high, bears E. and W. Approximately 20 ft. below this point, a 3 ft. vein of good coal outcrops.; continue asc.
39.51	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the restored ¼ sec. cor., with brass cap mkd.

¼

S 27 | S 26

1916

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

44.90	Top of small knoll, 90 ft. above bottom of canon; desc.
52.30	Trail, bears NW. and SE.

Chains	
62.70	Wash, 10 lks. wide, 2 ft. deep, drains NW.,70 ft. below top of knoll; asc. gradually over rolling land.
75.60	Spur, projects SW., about 5chs., 70ft. above wash; desc.
79.02	The cor. of secs. 22, 23, 26 and 27.
	Land, rolling and broken bench.
	Soil, light gray clay loam, 2 to 4 ft. deep.---
	Undergrowth, sagebrush and shadscale. No timber.
	Southern exposure. Shale and sandstone formation. Poor grazing. Coal indications near ¼ sec. cor..

	From the cor. of secs. 22, 23, 26 and 27.
	S. 89° 39' E., resurveying the line bet. secs. 23 and 26.
	Asc. over rolling land, through shadscale undergrowth.
6.30	Ridge, bears N. and S.,50ft. above cor; desc. rolling land.
13.30	Wash, 6 lks. wide, 2 ft. deep, drains SW.;asc. gradually over rolling land.
40.39	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in ground, for restored ¼ cor. of sec. 26 only, with brass cap marked ¼ S26 1916 Dig pits, 18x18x12 ins., E. and W. of post 3ft. dist.
40.78	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in ground, for ¼ cor. of sec. 23 only, with brass cap mkd. ¼ S23 1918 Dig pits, 18x18x12 ins.,E. and W. of post, 3ft. dist. Note: This cor. was established by Andrew Nelson, U.S. Surveyor, Nov. 15, 1918.
59.30	Leave rolling land, start asc. over broken clay hills, bears N. and S.
76.50	Spur, projects NW.,about 1 ch.,110 ft. above wash; desc.
77.70	Draw, 5 lks. wide, 2 ft. deep, drains NW.,30ft. below spur; asc.
80.78	The cor. of secs. 23, 24, 25 and 26.
	Land, rolling bench and broken clay hills.

Resurvey of Subdivisions in T. 42 S., R.1 W.

Chains	
	Soil, light gray clay and loam, 2 to 4 ft. deep.
	Timber, none.
	Undergrowth, scattering shadscale.
	Southern exposure. Sandstone and shale formation. Poor grazing.

	From the cor. of secs. 21,22,27 and 28.
	N. 89° 26' E., resurveying the line bet. secs. 22 and 27.
	Asc. over broken mountainous land, through scattering sagebrush, shadscale and salt sage undergrowth.
4.60	Top of ledge, 50 ft. high, bears N. and S.,120 ft. above sec. cor.; desc. gradually.
9.00	Start descent along S. side of canon,bears N. 75° W., and S. 75° E.
17.90	Top of ledge 20 ft. high, bears N.75°W., and S.75°E.; descend.
21.10	Bottom of canon, drains N.80°W., 140 ft. below top of ledges; asc.
25.40	Top of ledges 20 ft. high, bears NE. and SW., 90 ft. above bottom of canon; descend gradually.
28.40	Start desc. along S. slope of gulch, bears N.80°W. and S. 80°E.
35.60	Bottom of gulch, drains N.80°W.,60 ft. below top of ledges; ascend.
36.90	Spur, projects approximately 50 lks. S., 30 ft. above bottom of gulch; descemd.
40.10	Gulch, 30 ft. below spur, drains S.80°W.; asc.
40.46	Set an iron post, 3 ft. long, 1 in.diam., 6 ins. in the ground, on solid rock in a large mound of stone, for the restored $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S22 / S27 / 1916
	Impracticable to build mound of stone at this cor.
41.50	Spur, projects N.,approximately 50 lks., 10 ft. above gulch; descend.

Resurvey of Subdivision in T. 42 S., R. 1 W.

Chains.	
45.20	Gulch, drains N. 80° W., 30 ft. below spur; asc.
47.60	Trail, bears NW. and SE.
48.50	Spur, projects N., 30 ft. above gulch; desc.
49.90	Wash, 10 lks. wide, 2 ft. deep, drains N.; asc. over rolling clay hills.
67.90	Clay hill, 60 ft. above wash; desc. gradually.
75.80	Wash, 8 lks. wide, 4 ft. deep, drains SW., asc. gradually.
80.92	The restored cor. of secs. 22, 23, 26 and 27.
	Land, broken and rolling bench land.
	Soil, light gray clay and loam, shallow.
	Timber, none.
	Undergrowth, sagebrush, shadscale and saltsage, scattering.
	Southern exposure. Shale and sandstone formation. Poor grazing. Indication of coal.
	From the cor. of secs. 21, 22, 27 and 28.
	North, retracing the line bet. secs. 21 and 22.
40.00	After diligent search, find no evidence of the old ¼ sec. cor., leave temp. point.
80.00	After diligent search, find no evidence of the old cor. of secs. 15, 16, 21 and 22; leave temp. point.
	From the cor. of secs. 16, 17, 20 and 21, which is
	A sandstone, 13x10x4 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor general, along side of which
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 16, 17, 20 and 21, with brass cap mkd.

T 42 S R 1 W

S 17	S 16
S 20	S 21

1916

	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	S. 89° 45' E., retracing the line bet. secs. 16 and 21.

Chains.	
39.95	After diligent search, find no evidence of the old ¼ sec. cor.; leave temp. point.
79.90	After diligent search, find no evidence of the old cor. of secs. 15, 16, 21 and 22; leave temp. point.

Restoration of the cor. of secs. 15, 16, 21 and 22.

The point established S. 89° 45' E., 79.90 chs.(record) from the cor. of secs. 16, 17, 20 and 21, is designated "A".

The point established North, 80.00 chs.(record) from the cor. of secs. 21, 22, 27 and 28, is designated "B".

From "A", "B" bears 204 lks. S. and 205 lks. W.

I restore the cor. of secs. 15, 16, 21 and 22, 102 lks. S. and 102½ lks. W. of point "A".

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

T 42 S R 1 W

S 16	S 15
S 21	S 22

1916

Dig pits, 18x18x12 ins., in each sec., 5½ ft. dist.

The course of the line bet. secs. 16 and 21 is therefore N. 89° 01' W., and the dist. is 78.87 chs.

The course of the line bet. secs. 21 and 22 is therefore N. 0° 43' E., and the dist. is 81.03 chs.

From the cor. of secs. 21, 22, 27 and 28.

N. 0° 43' E., resurveying the line bet. secs. 21 and 22.

Desc. over rolling clay hills, through scattering salt sage and shadscale.

5.90	Canon, drains SW., 30 ft. below sec. cor.; asc.
7.20	Top of ledges, 50 ft. high, bears NE. and SW., 130 ft. above bottom of canon. A 5 ft. vein of good quality bituminous coal is located approximately 20 ft. below

Resurvey of Subdivision, T. 42 S., R. 1 W.

Chains.	
	top of ledge. Outcroppings along the ledge. Continue asc.
12.10	Spur, porjects E., approximately 1 ch., 130 ft. above canon; desc. abruptly.
13.30	Draw, drains E., 60 ft. below spur; asc.
17.90	Trail bears E. and W.
40.51½	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the restored ¼ sec. cor., with brass cap mkd.
	¼ S 21 | S 22 1916
	Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.
48.00	Ridge, bears NW. and SE., 170 ft. above draw; desc.
55.00	Draw, 10 lks. wide, 3 ft. deep, drains NW., 60 ft. below ridge; asc.
58.80	Spur, projects W., approximately 3 chs., 30 ft. above draw; desc.
61.50	Draw, 5 lks. wide, 2 ft. deep, drains SW., 15 ft. below spur; asc.
65.80	Spur, projects SW., approximately 7 chs., 50 ft. above draw; desc.
69.20	Draw, 10 lks. wide, 3 ft. deep, drains SW., 20 ft. below spur; asc.
75.80	Ridge, bears NW. and SE., 80 ft. above draw; desc.
81.03	The restored cor. of secs. 15, 16, 21 and 22.
	Land, rolling bench.
	Soil, light gray clay and loam, 2 to 4 ft. deep.
	Timber, none.
	Undergrowth, scattering saltsage and shadscale.
	Southern exposure. Sandstone and shale formation. Poor grazing. Considerable outcropping of coal.
	From the cor. of secs. 16, 17, 20 and 21,
	S. 89° 01' E., resurveying the line bet. secs. 16 and 21.
	Desc. over rolling mountainous land, through scattering shadscale, saltsage and yellow brush.

Chains.	
2.00	Right bank of Paria River bed, 20 ft. high, bears N. and S.; thence over river bed, through deep white sand.
7.20	Road from Pahreah to Adairville, bears N. and S.
13.50	Paria River, 50 lks. wide, 8 ins. deep, course S., 40 ft. below sec. cor.; water clear and alkali. Continue over river bed in deep white sand.
14.50	Left bank of Paria River, 20 ft. high, bears N. and S.; asc. over rolling mountainous land.
39.43½	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the restored ¼ sec. cor., with brass cap mkd.
	¼ S 16 / S.21
	1916
	Dig pits, 18x18x12 ins., E. and W. of cor., 3 ft. dist.
47.10	Spur, projects N.; 90 ft. above river; desc.
52.10	Draw, 10 lks. wide, 2 ft. deep, drains N.; 20 ft. below spur; asc. abruptly.
54.00	Spur, projects N., 40 ft. above draw; desc. gradually.
58.70	Draw, 5 lks. wide, 3 ft. deep, drains N., 30 ft. below spur; asc. abruptly.
62.80	Ridge, bears NW. and SE.; 130 ft. above draw; desc.
67.90	Draw, 5 lks. wide, 3 ft. deep, drains N., 20 ft. below ridge; asc. gradually.
69.50	Spur, projects NW., 20 ft. above draw; desc. gradually.
72.20	Draw, 5 lks. wide, 2 ft. deep, drains NW., 35 ft. below spur; asc. gradually.
75.60	Spur, projects NW., 10 ft. above draw; desc. abruptly.
77.10	Draw, drains NW., 40 ft. below spur; asc. gradually.
78.20	Spur, projects N., 35 ft. above draw; desc. gradually.
78.87	The restored cor. of secs. 15, 16, 21 and 22.
	Land, rolling mountainous and clay hills.
	Soil, light gray clay, 2 to 4 ft. deep; deep white sand in river bottom.
	Timber, none.
	Undergrowth, scattering shadscale, saltsage and yellow

Chains.	
	top.
	Southern exposure. Sandstone and shale formation. Poor grazing. Some indication of coal south of line.
	From the cor. of secs. 22, 23, 26 and 27.
	North, retracing the line bet. secs. 22 and 23.
40.00	After diligent search, find no evidence of the old ¼ sec. cor., leave temp. point.
80.00	After diligent search, find no evidence of the old cor. of secs. 14, 15, 22 and 23, leave temp. point.
	From the cor. of secs. 15, 16, 21 and 22.
	East, retracing the line bet. secs. 15 and 22.
40.08	After diligent search, find no evidence of the old ¼ sec. cor., leave temp. point.
80.17	After diligent search, find no evidence of the old cor. of secs. 14, 15, 22 and 23, leave temp. point.
	Restoration of the cor. of secs. 14, 15, 22 and 23.
	The point established North, 80.00 chs., (record) from the cor. of secs. 22, 23, 26 and 27, is designated "A".
	The point established East, 80.17 chs. (record) from the cor. of secs. 15, 16, 21 and 22, is designated "B".
	From "A" "B" bears 54 lks. E. and 48 lks. N.
	I restore the cor. of secs. 15 and 22 (knowing from previous work, that this cor. will refer to two secs. only) 27 lks. East and 24 lks. North of point "A".
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the restored cor. of secs. 15 and 22, with brass cap mkd.
	T 42 S R 1 W S 15 | S 22 | 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The course of the line bet. secs. 22 and 23 is therefore

Chains.

N. 0° 12' E., and the dist. is 80.24 chs.

The course of the line bet. secs. 15 and 22 is therefore S. 89° 50' E., and the dist. is 79.90 chs.

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

N. 0° 12' E., resurveying the line bet. secs. 22 and 23.

Asc. gradually over rolling bench land and clay hills, through scattering saltsage and shadscale undergrowth.

14.30 Ridge, bears NE. and SW., 70 ft. above sec. cor.; desc. gradually.

24.50 Draw, 8 lks. wide, 2 ft. deep, drains SW., 50 ft. below ridge; asc. gradually.

39.41 Subsequently, set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec. 23, with brass cap mkd.

¼
S 23
1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
This corner set by Thos. C. Rathbone, U. S. Surveyor.

40.12 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec. 22, with brass cap mkd.

¼
S 22
1916

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

41.90 Ridge, bears E. and SW., 100 ft. above draw; desc.

49.70 Draw, 5 lks. wide, 2 ft. deep, drains SW., 80 ft. below ridge; asc.

79.41 The point for the cor. of secs. 14 and 23. (For description, see notes on line bet. secs. 14 and 23).

80.24 The cor. of secs. 15 and 22.

Land, rolling bench land and clay hills.

Soil, light gray clay and loam, 2 to 4 ft. deep.

Timber, none.

Undergrowth, scattering sage brush and shadscale.

Chains.	
	Southern exposure. Sandstone and shale formation. Poor grazing. No indication of coal along line.
	From the cor. of secs. 15 and 22.
	Offset South, 14.45 chs. in order to avoid perpendicular sandstone ledge 500 ft. high to the west, over which it is impracticable to chain.
	N. 89° 50' W., on offset line, resurveying the line bet. secs. 15 and 22.
	Asc. over broken mountainous land, through clay hills; scattering saltsage and shadscale undergrowth.
7.50	Draw, 5 lks. wide, 2 ft. deep, drains SW.; continue asc.
27.10	Ridge, bears N. and S., 110 ft. above draw; desc.
39.95	Offset 14.45 chs. North to true line and
	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the restored ¼ sec. cor., with brass cap mkd.
	¼ S 15 / S 22
	1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Corner is established near base of perpendicular ledge bearing NW. and SE. Thence on true line.
45.00	Start gradual desc. over broken clay hills, bears NW. and SE.
61.10	Draw, 5 lks. wide, 2 ft. deep, drains NW., 150 ft. below ¼ sec. cor.; asc.
65.40	Ridge, bears NW. and SE., 30 ft. above draw; desc.
67.00	Draw, 8 lks. wide, 2 ft. deep, drains NW., 55 ft. below ridge; asc.
69.00	Ridge, bears NW. and SE., 70 ft. above draw; desc.
74.90	Draw, drains NW., 20 ft. below ridge; asc.
79.90	The cor. of secs. 15, 16, 21 and 22.
	Land, broken mountainous and clay hills.
	Soil, light gray adobe and clay, 2 to 4 ft. deep.

Chains.	
	Timber, none.
	Undergrowth, scattering shadscale and saltsage.
	Southern exposure. Sandstone formation. Poor grazing.

	From the cor. of secs. 16, 17, 20 and 21.
	North, resurveying the line bet. secs. 16 and 17.
	Asc. over rolling mountainous land, through scattering shadscale, saltsage, yellow top and chaparral.
6.10	Top of small round knoll, bears E. and W., 10 ft. above sec. cor.; desc.
12.20	Wash, 10 lks. wide, 8 ft. deep, drains E., 30 ft. below top of knoll; asc.
34.60	Spur, projects E., approximately 8 chs., 90 ft. above wash; desc. gradually.
39.89	Fall 42 lks. W. of the old ¼ sec. cor., which is
	A sandstone, 12x11x8 ins. above ground, firmly set; mkd. and witnessed as described by the surveyor general.
	Along side of which
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	S 17 ¼ | S 16
	1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The course of this half mile is therefore N. 0° 36' E., and the dist. is 39.89 chs.
	Continue same line with continuous measurement.
42.40	Draw, 8 lks. wide, 5 ft. deep, drains E., 20 ft. below spur; asc. gradually.
48.40	Spur, projects E., 35 ft. above draw; desc. gradually.
52.00	Draw, 5 lks. wide, 2 ft. deep, drains E., 10 ft. below spur; asc. gradually.
59.30	Spur, projects E., 120 ft. above draw; desc. gradually.
65.40	Draw, 10 lks. wide, 3 ft. deep, drains E., 25 ft. below spur; asc. gradually.
70.30	Ridge, bears E. and W., 45 ft. above draw; desc. abruptly.

Chains.	
77.82	Fall 116 lks. E. of the old cor. of secs. 8, 9, 16 and 17, which is
	A quartzite, 20x12x6 ins. above ground, mkd. and witnessed as described by the surveyor general. Along side of which
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 8, 9, 16 and 17, with brass cap mkd.
	T 42 S R 1 W S 8 | S 9 S 17 | S 16 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The course of this half mile is therefore N. 2° 23' W., and the dist. is 37.96 chs.
	Land, rolling mountainous.
	Soil, light gray gravelly clay loam, 2 to 4 ft. deep, and covered with quartzite boulders.
	Timber, none.
	Undergrowth, scattering shadscale, saltsage, yellow top and chaparral.
	Southeastern exposure. Sandstone and shale formation.
	Fair grazing., and slight indications of coal.
	From the cor. of secs. 8, 9, 16 and 17.
	East, resurveying the line bet. secs. 9 and 16.
	Desc. over rolling land, through scattering shadscale, yellow top, brigham tea and bitter brush undergrowth.
10.30	Right bank of Paria River bed, 10 ft. high, bears N. and S. Desc. gradually over nearly level river bottom.
19.60	Paria River, 50 lks. wide, 10 ins. deep, course S. Water clear and alkali. River is 100 ft. below sec. cor.; continue over sandy river bottom.
23.70	Road from Pahreah to Adairville in river bottom, bears N. and S.
31.40	Left bank of river, 8 ft. high, bears N. and S.; asc. gradually over n early level canon bottom.

Chains.

39.86 Fall 23 lks. N. of the old ¼ sec. cor., which is
A sandstone, 18x10x4 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor general.
Along side of which
Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼ S 9 / S 16

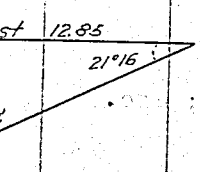
1916

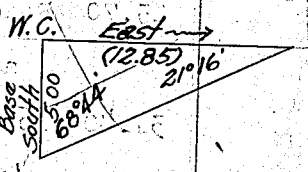
Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
The course of this half mile is therefore S. 89° 40' E., and the dist. is 39.86 chs.
Offset over cor. and run east with continuous measurement.

43.90 Old road, bears N. and S.

57.89 Fall 14 lks. N. of the old witness cor. for secs. 9, 10, 15 and 16, which is
A shale boulder, 2½x 2x1½ ft. above ground, firm, mkd. and witnessed as described by the surveyor general.
The course of this line is therefore S. 89° 34' E., and the dist. is 18.03 chs.
Offset over old witness cor. and run east with continuous measurement.
It being impossible to chain east on account of the perpendicular sandstone ledges forming the east wall of Paria Canon, I proceed to triangulate as follows:
I place a flag ahead on line on top of ledges; then lay off a base due south and measure 5 chs. from the witness corner. At the south end of the base, the angle bet. the flag on top of ledges and the witness cor. is found to be 68° 44'. At the flag on top of the ledges, the angle bet. the witness cor. and the flag at the S. end of the base is found to be 21° 16'. I compute the dist. along line as follows:

Colog sin. 21° 16' = 0.440442
Log sin. 68° 44' = 9.969370
Log 5.00 chs. = 0.698970
Log 12.85 chs. = 1.108782





12.85 chs. plus 57.89 chs. equal 70.74 chs.

Chains.

70.74 The triangulation point on top of perpendicular sandstone ledges, 300 ft. above Paria River, bears N. and S., asc. gradually over broken mountainous land, through scattering scrub cedar and pinon timber.

79.89 Or 22.00 chs./E. of the witness cor.

Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, on solid rock, in mound of stone, for the cor. of secs. 9 and 16, with brass cap mkd.

T 42 S R 1 W
S 9 | S 16

1916 from which

A cross on large sandstone boulder bears West, 7 lks. dist., mkd. BOS16.

No trees within reasonable distance suitable for bearing trees, and no other rock suitable for bearing object, and in as much as the cor. is set in a large mound of stone, there were no other accessories built at this cor.

Land, mountainous.

Soil, light sand and clay, 8 to 10 ft. deep in canon bottom, shallow on canon sides.

Timber, scattering scrub cedar and pinon in the extreme eastern portion. Scattering cottonwood along river bottom.

Undergrowth, scattering shadscale, yellow top, brigham tea, and bitter brush.

Southern exposure. Sandstone formation. Good grazing in river bottom. Slight indication of coal along river bottom.

From the cor. of secs. 15, 16, 21 and 22.

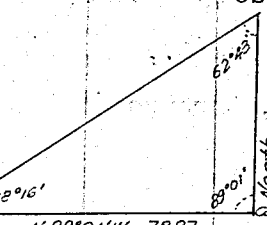
North, resurveying the line bet. secs. 15 and 16.

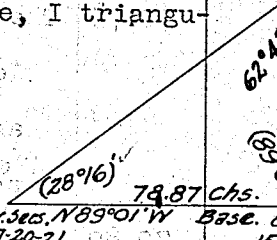
It being impossible to chain north on account of the perpendicular ledges, bears E. and W. I set a flag ahead on line on top of ledges. From this flag, the cor. of secs. 16, 17, 20 and 21, bears S. 62° 43' W.

Resurvey of Subdivision, T. 42 S., R. 1 W.

Chains.

Using the line bet. secs. 16 and 21 as a base, I triangulate as follows:



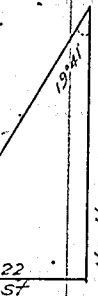


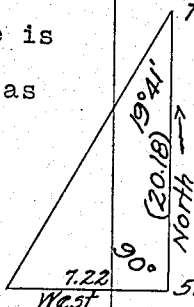
Colog sin 62°43' = 0.051220
Log sin 28°16' = 9.675390
Log 78.87 chs. = 1.896912
Log 42.03 / = 1.623522

Therefore the flag on line is 42.03 chs. north of the sec. cor. At 40.00 chs. I make diligent search for old ¼ sec. cor., but find no evidence. This point falls in ledges where it is impracticable to establish a cor. Leave temp. point at 42.03 chs.

Thence North on random line with continuous measurement. and at

51.57 It being impossible to chain farther north on account of a box canon draining west, with perpendicular walls, I set a flag ahead on line, and from the 51.57 ch. point, measure a base of 7.22 chs., due west, being the longest possible base on account of ledges. The angle at the flag ahead on line bet. both end of the base is found to be 19° 41'. I compute dist. along line as follows:





Colog sin 19°41' = 0.4726003
Log sin 70° 19' = 9.9738519
Log 7.22 chs. = 0.8585372
Log 20.18 chs. = 1.3049894

20.18 chs. plus 51.57 chs. equal 71.75 chs.

71.75 Triangulation point on N. rim of canon.

78.52 Fall 18 lks. E. of the cor. of secs. 9 and 16.

Therefore the course of the line bet. the true point for the restored ¼ sec. cor. for sec. 16, is N. 0° 16' W., and the dist. is 38.52 chs.

From the cor. of secs. 15, 16, 21 and 22.

North, bet. secs. 15 and 16.

39.39 Subsequently the point for the ¼ sec. cor. for sec. 15. This point falls in the ledges, cor. not set.

40.00 The point for the restored ¼ sec. cor. for sec. 16. This point falls in the ledges, cor. not set.

From this point,

N. 0° 16' W., with continuous measurement.

Resurvey of Subdivision, T. 42 S., R. 1 W.

Chains.	
42.01	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the witness cor. to the ¼ sec. cor. of secs. 15 and 16, with brass cap mkd. S 16 ¼ | S 15 WC 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Therefore the witness cor. is established 2.01 chs. N. 0° 16' W. of the true point for the ¼ sec. cor for sec. 16; and North 61 lks., thence N. 0° 16' W., 2.01 chs. from the true point for the ¼ sec. cor. for sec. 15.
	This witness is located on a spur projecting W. into Paria canon, 400 ft. above the bottom.
51.57	The triangulation point on the S. edge of box canon.
71.75	The triangulation point on the N. edge of box canon, both edges bearing E. and W.
78.52	The cor. of secs. 9 and 16.
	Land, broken mountainous and sandstone ledges.
	Soil, light gray clay and sand in the bottom of canons.
	Timber, very scattering scrub cedar and pinon in the northern portion.
	Undergrowth, scattering shadscale, yellow top and bunch grass.
	Southwestern exposure. Sandstone formation. Fair grazing in canon bottoms. Slight indication of coal.
	From the cor. of secs. 8, 9, 16 and 17.
	North, retracing the line bet. secs. 8 and 9.
40.00	After diligent search, find no evidence of the old ¼ sec. cor., leave temp point.
	At this point, offset 18.68 chs. East, to avoid ledges, over which it is impracticable to chain.
	Thence North, on offset line, 39.78 chs.
	Thence West, 12.68 chs., as per old survey, which point Falls 63 lks. W. of the old witness cor. to the cor. of secs. 4, 5, 8 and 9. This witness cor. was set 6.00 chs.

Chains.

E. of the true cor. point, which is

A sandstone, 24x12x9 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor general.

I restore the cor. of secs. 5 and 8, 6.00 chs. W. of the witness cor.

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

T 42 S R 1 W

S 5 | S 8

1916

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

Note: This cor. was originally set for four secs. and the mks. subsequently changed to read as above.

The course of the line bet. secs. 8 and 9 is therefore N. 0° 27' E., and the dist. is 79.78 chs.,

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From the cor. of secs. 8, 9, 16 and 17.

N. 0° 27' E., resurveying the line bet. secs. 8 and 9.

Desc. over rolling land, through scattering salt sage, sagebrush and shadscale undergrowth.

10.20 Wash, 50 lks. wide, ;2 ft. deep, drains E., 50 ft. below sec. cor.; asc. over rolling land.

38.70 Ridge, bears E. and W., 100 ft. above wash; desc. abruptly.

39.50 Draw, 10 lks. wide, 2 ft. deep, drains NE.; asc. gradually.

39.89 Proportionate measurement; Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec. 8, with brass cap mkd.

¼

S 8

1916

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

Thos. C. Rathbone, U. S. Surveyor

40.22½ Subsequently/ set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec. 9, with brass cap mkd.

Chains.	
	$\frac{1}{4}$ S 9
	1917
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.
	Asc. abruptly over rough and broken mountainous land and ledges forming the western edge of the Paria River Canon.
79.78	The cor. of secs. 5 and 8.
	Land, rolling in the southern portion; rough and broken in the northern portion.
	Soil, light gray clay and sandy loam, 2 to 4 ft. deep in the southern portion; shallow and sandstone ledges in the northern portion.
	Timber, none.
	Undergrowth, scattering shadscale, sagebrush and saltsage.
	Southern exposure. Sandstone formation. Fair grazing in the southern portion. Some indication of coal.

	From the old witness cor. for secs. 4, 5, 8 and 9, which witness cor. is located 6 chs. E. of the cor. established for the cor. of secs. 5 and 8.
	North, on offset line, retracing the line bet. secs. 4 and 5.
40.00	Offset 6 chs. west to true line, and after diligent search, find no evidence of the old $\frac{1}{4}$ sec. cor., leave temp. point.
	Thence north on true line with continuous measurement.
80.00	After diligent search, find no evidence of the old cor. of secs. 4, 5, 32 and 33 on the N. bdy. of the twp.
	Note: For the restoration of this cor., see page 14, this book. From this restoration it was found that the true course of this line is N. 0° 21' E., and the dist. is 79.98 chs.

	From the cor. of secs. 5 and 8.
	It being impracticable to chain to the north from this cor.

Chains.

on account of the broken sandstone ledges forming the western edge of the Paria River Canon, I offset 6.00 chs. East, thence

N. 0° 21' E., on offset line, resurveying bet. secs. 4 and 5.

Desc. over rolling land, through scattering greasewood, shadscale and yellow top undergrowth.

1.90 Wash, 20 lks. wide, 5 ft. deep, drains SE., 10 ft. below sec. cor.; asc. gradually.

6.90 Spur, projects E., approximately 8 chs., 50 ft. above Wash; desc.

10.50 Draw, 5 lks. wide, 2 ft. deep, drains E., 30 ft. below spur; asc. gradually.

12.90 Spur, projects E., approximately 3 chs., 30 ft. above draw; desc. gradually.

39.99 Proportionate measurement. Offset 6 chs. W. to true line. Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the restored ¼ sec. cor. for sec. 5, with brass cap mkd.

¼ | S 5 | 1916

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. This cor. was originally mkd. for two secs. and the mks. subsequently changed to read as above.

Thence N. 0° 21' E., on true line, with continuous measurement.

40.67 Subsequently; Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec. 4, with brass cap mkd.

| ¼ | S 4 | 1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. This corner set by Thos. C. Rathbone, U. S. Surveyor.

45.50 Right bank of the Paria River, 12 ft. high, bears NW. and SE., thence over sandy river bottom.

Chains.	
47.00	Paria River, 30 lks. wide, 6 ins. deep, course SE., 80 ft. below spur. Water clear and alkali. Continue in sandy river bottom.
47.60	Road from Pahreah to Adairville in river bottom, bears NW. and SE.
50.00	Left bank of Paria River, 10 ft. high, bears NW. and SE.,
55.60	Left bank of Paria River, 14 ft. high, bears NE. and SW., thence over sandy river bottom.
56.60	Recross Paria River, 50 lks. wide, 6 ins. deep, course SW., continue in sandy river bottom.
61.60	Road from Pahreah to Adairville, bears NE. and SW.
76.80	Right bank of Paria River 4 ft. high, bears NE. and SW., thence over nearly level canon bottom.
79.98	The cor. of secs. 4 and 5, on the N. bdy. of the twp.
	Land, rolling and nearly level canon bottom.
	Soil, light sandy and clay loam 10 to 20 ft. deep in canon bottom.
	Timber, scattering cottonwood along Paria River.
	Undergrowth, scattering shadscale, yellow top and greasewood.
	Southern exposure. Sandstone and shale formation. Fair grazing in canon bottom. Some indication of coal.

North bdy. T. 42 S., R. 1 W.

From the cor. of secs. 4 and 5, T. 42 S., R. 1 W.

East, on temp line, leaving temp. ¼ sec. and sec. cors. at intervals of 40.00 chs.

9.00	Afterdiligent search, find no evidence of the old witness ¼ sec. cor.
319.60	Intersect the E. bdy. of the twp., or the Salt Lake Meridian, 35 lks. S. of the temp. cor. of Tps. 41 and 42 S., Rgs. 1 E. and 1 W. At point of intersection Set an iron post, 3 ft. long, 3 ins. diam., 5 ins. in the ground, on solid rock, in large mound of stone, for the cor. of twps. 41 and 42 S., Rgs. 1 E. and 1 W., with brass cap mkd.

North Boundary of T. 42 S., R. 1 W.

Chains.	
	T 41 S R 1 W | R 1 E S 36 | S 31 S 1 | S 6 T 42 S 1916 from which A pinon, 12 ins. diam., bears S. 4° E., 120 lks. dist., mkd. T42SR1ES6BT. A pinon, 14 ins. diam., bears S. 54° W., 183 lks. dist., mkd. T42SR1WS1BT. A cedar, 12 ins. diam., bears N. 10° E., 123 lks. dist., mkd. T41SR1ES31BT. A pinon, 12 ins. diam., bears N. 60° W., 306 lks. dist., mkd. T41SR1WS36BT. From the cor. of Tps. 41 and 42 S., Rgs. 1 E. and 1 W. West, on true line on the N. bdy. of T. 42 S., R. 1 W., bet. secs. 1 and 36. Asc. over mountainous land, through scattering scrub cedar and pinon timber and scattering sagebrush, yellow top and bunch grass undergrowth.
8.00	Spur, projects N., 90 ft. above twp cor.; desc. gradually.
23.00	Draw, 10 lks. wide, 3 ft. deep, drains NE., 100 ft. below spur; asc. gradually.
28.00	Spur, projects NE., 15 ft. above draw; desc. gradually.
38.00	Head of ravine, 90 ft. below spur, drains NE.; asc. abruptly.
40.00	Point for ¼ sec. cor. falls on steep slope of ravine, impracticable to set cor.
44.94	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, on solid rock, in large mound of stone, for the witness ¼ sec. cor., with brass cap mkd. ¼ S 36 / S 1 WC 1916 from which A pinon, 18 ins. diam., bears N. 17° 30' E., 163 lks. dist., mkd. ¼S36WCBT. A pinon, 14 ins. diam., bears S. 61° 30' W., 277 lks. dist., mkd. ¼S1WCBT.

North Bdy. T. 42 S., R. 1 W.

Chains	
61.80	Spur, projects NE.,430 ft. above ravine; descend abruptly
68.80	Ravine, drains N.,160 ft. below spur; asc. abruptly.
80.00	Point for cor. of secs. 1, 2, 35 and 36, falls in slide rock on steep east slope, impracticable to set cor.
81.00	Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground, on solid rock, in a mound of stone, for the witness cor. for secs. 1, 2, 35 and 36, with brass cap marked

T41S R1W
S35 | S36
WC
S 2 | S 1
T42 S

1916

from which

A pinon, 16 ins. diam., bears S. 29° E., 193 lks. dist., marked T42S R1W S1 WC BT

A pinon, 12 ins. diam., bears S. 26° W., 79 lks. dist., marked T42S R1W S2 WC BT

A pinon, 14 ins. diam., bears N. 57½° W., 38 lks. dist., marked T41S R1W S35 WC BT

No other bearing tree within reasonable distance, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.

Soil, light sand and gray clay and loam, shallow; sandstone ledges and slide rock.

Timber, scattering scrub cedar and pinon.

Undergrowth, sagebrush, buck brush, yellow top and bunch grass.

Eastern exposure. Sandstone formation. Good grazing.

Some indications of coal.

Chains	
	From the true point for the cor. of secs. 1,2,35 and 36.
	Test, on true line on the N. bdy. of T.42 S., R.1 W., bet. secs. 2 and 35.
	Asc. abruptly over mountainous land, through scattering scrub cedar and pinon timber, through scattering sage, yellow top, buck brush and bunch grass undergrowth.
1.00	The witness cor. for secs. 1,2,35 and 36, on top of sandstone ledge, bearing N. and S. asc. gradually.
9.00	West edge of mesa, bears N. and S.; desc. gradually over rolling land.
15.20	Draw, drains NE., 20 ft. below edge of mesa; asc. gradually
22.60	Top of gradual asc., bears N. and S., 30 ft. above draw; descend gradually.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. of secs. 2 and 35, with brass cap marked ¼ S35 / S2 1916 from which A cedar, 12 ins. diam., bears N. 37½° E., 206 lks. dist., marked ¼ S35 BT A cedar, 14 ins. diam., bears S. 69½° E., 346 lks. dist., marked ¼ S2 BT
	Corner established at bottom of gradual desc., 30 ft. ± below top of gradual asc., bears N. and S.; gradual asc.
44.40	Top of gradual asc., bears N. and S., desc. gradually.
49.60	Swale, drains N., 15 ft. below top of gradual asc.; asc. gradually.
54.60	Low spur, projects N., 10 ft. above swale. desc. gradually.
70.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in

Chains.	
	the ground, for the cor. of secs. 34 and 35, with brass cap mkd.
	T 41 S R 1 W S 34 | S 35
	1916 from which
	A cedar, 16 ins. diam., bears N. 80° 30' E., 181 lks. dist., mkd. T41SR1WS35BT.
	No other trees within reasonable dist. suitable for bearing trees.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Land, gently rolling mesa.
	Soil, light red sandy loam, 2 to 4 ft. deep, on light clay subsoil.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, scattering sagebrush, yellow top, buck brush and bunch grass.
	Northern exposure. Sandstone formation. Good grazing.
	From the cor. of secs. 34 and 35.
	West, on the N. bdy. of the twp., along the S. bdy. of sec. 34, T. 41 S., R. 1 W.
	Desc. gradually over rolling mesa, through scattering scrub cedar and pinon timber, sage and buck brush and bunch grass undergrowth.
0.70	Point for the cor. of secs. 2 and 3. (For description, see notes of survey of line bet. secs. 2 and 3.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the ¼ sec. cor. for sec. 34, with brass cap mkd.
	¼ S 34
	1916 from which
	A pinon, 14 ins. diam., bears N. 47° 30' W., 123 lks. dist., mkd. ¼S34BT.
	A cedar, 14 ins. diam., bears N. 25° 30' E., 45 lks. dist., mkd. ¼S34BT.
40.80	Subsequently; Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, on solid rock, in large mound of

Chains.	
	stone, for the ¼ sec. cor. for sec. 3, with brass cap mkd. ¼ S 3 1916
	From which
	A pinon, 14 ins. diam., bears S. 60° 30' E., 101 lks. dist., mkd. ¼S3BT.
	A pinon, 8 ins. diam., bears S. 7° 30' W., 94 lks. dist., mkd. ¼S3BT.
47.40	West edge of mesa, bears N. and S., start desc. over broken W. slope.
49.00	Top of broken ledges, bears N. and S.; desc. abruptly.
50.20	Bottom of broken ledges, bears N. and S.; continue abrupt desc.
73.00	Head of ravine, drains SW., 580 ft. below west edge of mesa; asc.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground, on solid rock, in large mound of stone, for the cor. of secs. 33 and 34, with brass cap mkd. T 41 S R 1 W S 33 | S 34 1916 from which
	A pinon, 14 ins. diam., bears N. 72° E., 134 lks. dist., mkd. T41SR1WS34BT.
	A pinon, 12 ins. diam., bears N. 78° 45' W., 110 lks. dist., mkd. T41SR1WS33BT.
	Land, gently rolling mesa in the eastern portion; rough and broken slope in the western portion.
	Soil, light red sandy loam, 2 to 4 ft. deep, becomming shallow towards the edge of the mesa; shallow, rocky and clay on the slope in the western portion.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, scattering sagebrush, yellow top, brigham tea, shadscale and bunch grass.
	Northern and northwestern exposure. Sandstone formation.
	Good grazing.

Chains.	
	From the cor. of secs. 33 and 34.
	West, on the N. bdy. of twp. along the S. bdy. of sec. 33, T. 41 S., R. 1 W.
	Asc. over mountainous land, through scattering scrub cedar and pinon timber, scattering shadscale, yellow top, bitter brush and bunch grass undergrowth.
0.90	Point for the cor. of secs. 3 and 4. (For description, see notes of the survey of the line bet. secs. 3 and 4.)
14.30	Ridge, bears NE. and SW., 160 ft. above sec. cor.; desc.
33.24	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground, on solid rock, in large mound of stone, for the witness ¼ sec. cor., with brass cap mkd.
	$\frac{S\ 33}{S\ 4}$
	1916 from which
	A pinon, 10 ins. diam., bears S. 35° 30' W., 40 lks. dist., mkd. ¼S4WCBT.
	A pinon, 12 ins. diam., bears N. 46° 15' W., 224 lks. dist., mkd. ¼S33WCBT.
33.63	Top of large sandstone boulder on line.
40.00	Point for ¼ sec. cor. for sec. 33 falls in ravine draining SW., 455 ft. below ridge; impracticable to set cor.
40.90	Point for the ¼ sec. cor. for sec. 4 falls on rocky slope of ravine, impossible to set cor.
46.80	Spur, projects S., approximately 5 chs., 150 ft. above bottom of ravine; desc.
56.90	Draw, drains SE, 40 ft. below spur; asc.
64.60	Spur, projects S., 80 ft. above draw; desc. abruptly into Paria Canon.
70.60	Left bank of Paria River, 5 ft. high, bears E. and S., at foot of abrupt desc., 240 ft. below spur, thence over bottom.
71.10	Paria River, 50 lks. wide, 6 ins. deep, course S. water clear and alkali. Road from Pahreah to Adairville bears E. and S. in the stream.
78.60	Right bank of Paria River, 4 ft. high, bears E. and S.; leave sandy river bottom, asc. gradually over nearly level canon bottom.

chains.

79.60 The cor. of secs. 4 and 5, T. 42 S., R. 1 W.

Land, broken mountainous.

Soil, light sandy loam in the canon bottom; light gray clay loam in the remaining portion.

Timber, scattering scrub cedar and pinon; scattering cottonwood among Paria River.

Undergrowth, scattering shadscale, yellow top, bitter brush, brigham tea, black sage and bunch grass.

Southern exposure. Sandstone and shale formation. Good grazing. Slight indication of coal in Paria Canon.

East bdy. of T. 42 S., R. 1 W., or

The Salt Lake Meridian.

From the restored cor. of secs. 24 and 25, on the E. bdy. of the twp., heretofore described.

North, on the E. bdy. of the twp., along the E. bdy. of sec. 24.

Asc. gradually over rolling land, through scattering sage-brush and shadscale undergrowth.

22.40 Wash, 50 lks. wide, 20 ft. deep, drains E., continue gradual asc.

36.25 Subsequently, Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec.19, with brass cap mkd.

¼

S 19

1917

Dig pits, 18x18x12 ins., N. and S. of cor., 3 ft. dist.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec. 24, with brass cap mkd.

¼

S 24

1916

Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.

Continue asc. over rolling land draining E.

76.20 Point for the closing cor. for secs. 18 and 19.

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

Chains.	
	T 42 S R 1 W | S 13 S 24 | 1916
	Dig pits, 24x24x12 ins., in each sec., 6 ft. dist.
	Land, rolling.
	Soil, light gray clay and loam, more than 2 ft. deep.
	Timber, none.
	Undergrowth, scattering sagebrush and shadscale.
	Southern exposure. Sandstone formation. Poor grazing.
	From the cor. of secs. 13 and 24.
	North, on the E. bdy. of the twp., along the E. bdy. of sec. 13.
	Desc. gradually over rolling land, through scattering sagebrush and shadscale undergrowth.
32.75	Wash, 10 lks. wide, 5 ft. deep, drains N. 70° E., 70 ft. below sec. cor.; asc. gradually.
36.25	Subsequently, set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec. 18, with brass cap mkd. | ¼ S 18 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec. 13, with brass cap mkd. ¼ | S 13 1916
	Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.
	Desc. gradually.
41.70	Wash, 20 lks. wide, 6 ft. deep, drains E.; asc. gradually.
66.00	Leave rolling land, bears E. and W., start abrupt asc.
76.30	Point for the closing cor. bet. secs. 7 and 18.
80.00	Point for the cor. of secs. 12 and 13, falls on steep broken ledges, impossible to establish cor.
84.60	Set an iron post, 3 ft. long, 2 ins. diam., firmly set over cross on solid sandstone ledge, in large mound of stone, for the witness cor. for secs. 12 and 13, with

Chains.	
	brass cap mkd. T 42 S R 1 W S 12 | S 13 | WC 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. This cor. is established on top of ledge, bears E. and W., 500 ft. above wash.
	Land, rolling; broken ledges in extreme northern portion.
	Soil, light gray clay and loam, more than two feet deep.
	Timber, none.
	Undergrowth, scattering sagebrush and shadscale.
	Southeastern expsoure. Sandstone and shale formation.
	Poor grazing.
	From the true point for the cor. of secs. 12 and 13.
	North, on the E. bdy. of the twp., along the E. bdy. of sec. 12.
	Asc. abruptly over broken sandstone ledges.
4.60	The witness cor. for secs. 12 and 13.
	Desc. gradually over barren sandstone ridge.
16.90	From this point the line practically runs parallel to a sandstone ledge to the E. of line.
20.30	Top of sandstone ledge, bears NW. and approximately S., desc. abruptly.
22.50	Head of draw, drains N. 70° E., 420 ft. below W. C.; asc.
27.60	Point of sandstone ledges 50 ft. high, projects E., 60 ft. above head of draw; desc.
36.33	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec. for sec. 7, with brass cap mkd. ¼ S 7 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for the ¼ sec. cor. for sec. 12, with brass cap mkd. ¼ S 12 1916.

East Boundary of T. 42 S., R. 1 W., or
The Salt Lake Meridian.

Chains.	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
41.80	Draw, 20 lks. wide, 3 ft. deep, drains N. 70° E., 130 ft. below point of sandstone ledge; asc. abruptly.
47.40	Spur, projects E., 5 chs. 110 ft. above draw; desc.
59.30	Draw, 20 lks. wide 6 ft. deep, drains E., 200 ft. below spur; asc.
66.30	Spur, projects E., 30 ft. above draw; desc.
71.00	Draw, 20 lks. wide, 3 ft. deep, drains N. 70° E., 40 ft. below spur; asc.
76.36	Point for the closing cor. for secs. 6 and 7.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 1 and 12, with brass cap mkd. T 42 S / R 1 W / S 1 | S 12 / 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Cor. established 80 ft. above draw.
	Land, broken and mountainous.
	Soil, light gray sand and clay loam, deep in draws; shallow and covered with slide rock on slopes.
	Timber, none.
	Undergrowth, scattering sagebrush, shadscale and salt sage.
	Eastern exposure. Sandstone formation. Fair grazing.
	From the cor. of secs. 1, and 12.
	North, on the E. bdy. of the twp. along the E. bdy. of sec. 1. Asc. abruptly over broken mountainous land, through scattering sagebrush and shadscale undergrowth.
4.10	Top of ledge, 30 ft. high, bears E. and W.; asc. gradually.
17.30	Ledge, 10 ft. high, bears E. and SW.; desc.
20.40	Draw, 10 lks. wide, 2 ft. deep, drains E., 30 ft. below ledge; asc. gradually.
23.50	Low rolling ridge, bears E. and W., 10 ft. above draw; desc. gradually.
36.36	Subsequently, Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor. for sec. 6, with brass cap mkd. ¼ | S 6 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.

East boundary of T. 42 S., R. 1 W. or
The Salt Lake Meridian.

Chains.	
38.80	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, on solid rock, in large mound of stone, for the witness ¼ sec. cor. for sec. 1, with brass cap mkd.
	W ¼ C S 1 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
39.80	Gulch, drains S.70°E., 150 ft. below ridge; asc. abruptly.
40.00	True point for the ¼ sec. cor. for sec. 1 falls in ledges 50 ft. high, bears E. and W. Impossible to set cor.
53.00	Spur, projects S. 70° E., 100 ft. above gulch; desc.
61.40	Draw, 15 lks. wide, 2 ft. deep, drains E. 50 ft. below spur; asc.
65.70	Sandstone point projects E. 1 ch., 70 ft. above draw; desc.
66.80	Draw, 15 lks. wide, 4 ft. deep, drains NW., 30 ft. below sandstone spur; asc. abruptly over broken ledges.
75.40	Ridge, bears N. 79° E. and S. 79° W., 180 ft. above draw; desc. gradually over smooth sandstone. Enter scattering scrub cedar and pinon timber.
79.65	The cor. of Tps. 41 and 42 S., Rgs. 1 E. and 1 W. 35 lks. S of the temp. point left for the twp cor.
	Land, broken mountainous.
	Soil, light gray sand and clay loam, shallow and covered with gravel and slide rock.
	Timber, scattering scrub cedar and pinon in the extreme northern portion.
	Undergrowth, scattering sagebrush, salt sage, shadscale and bunch grass.
	Eastern exposure. Sandstone formation. Fair grazing.

Survey of Subdivision.

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

N. 0°.01' W., bet. secs. 23 and 24.

Chains.	
	Desc. gradually over rolling land, through scattering shadscale and saltsage undergrowth.
4.00	Draw, 10 lks. wide, 2 ft. deep, drains W.; 25 ft. below sec. cor.; asc. gradually.
8.60	Spur, projects W., 40 ft. above draw; desc. gradually.
35.50	Draw, 10 lks. wide, 2 ft. deep, drains W., 70 ft. below spur; asc. gradually.
39.90	Spur, projects W., 25 ft. above draw; desc. gradually.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ½ sec. cor., with brass cap mkd.
	S 23 | ½ | S 24 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
43.20	Draw, 8 lks. wide, 2 ft. deep, drains W., asc. gradually.
48.10	Spur, projects SE., 20 ft. above draw; desc. gradually.
54.60	Draw, 10 lks. wide, 2 ft. deep, drains SE., 70 ft. below spur; asc.
75.20	Top of ledge, 70 ft. high, bears NW. and SE., 325 ft. above draw; desc. gradually.
77.30	Start abrupt desc. over broken sandstone ledges bear NW. and SE.
80.00	Point for cor. of secs. 13, 14, 23 and 24, falls in broken sandstone ledges; therefore in order to find the most permanent place for the cor., I offset 20 lks. E. of the true point and
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the witness cor. of secs. 13, 14, 23 and 24, with brass cap mkd.
	T 42 S R 1 W S 14 | S 13 WC S 23 | S 24 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, southern 40 chs. rolling clay hills; northern 40 chs., rough and broken mountainous.

Chains.	
	Soil, light gray sand and clay loam, 2 to 4 ft. deep in the southern portion; shallow in the northern portion.
	Timber, none.
	Undergrowth, scattering shadscale and saltsage.
	Southern exposure. Sandstone formation. Fair grazing.

	From the true point for the cor. of secs. 13, 14, 23 and 24.
	N. 89° 56' E., on random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.20	Intersect the E. bdy. of the twp., 9 lks. N. of the cor. of sections 13 and 24, heretofore described.
	West, on true line bet. secs. 13 and 24.
	Asc. gradually over rolling land, through scattering shadscale, yellow top and bunch grass undergrowth.
38.90	Spur, projects SE., 105 ft. above sec. cor.; desc. grad.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the witness ¼ sec. cor., with brass cap mkd.
	$WC\frac{1}{4}\ \frac{S\ 13}{S\ 24}$
	1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
40.10	True point for ¼ sec. cor. falls on outcrop of sandstone bedrock, impracticable to set cor.
41.40	Draw, 10 lks. wide, 2 ft. deep, drains SE., 20 ft. below spur; asc. gradually.
47.10	Spur, projects SE., 25 ft. above draw; desc. gradually.
51.10	Draw, 8 ft. wide, 2 ft. deep, drains SE., 10 ft. below spur; asc. gradually.
53.90	Spur, projects SE., 35 ft. above draw; desc. gradually.
56.60	Draw, 10 lks. wide, 2 ft. deep, drains NE., 20 ft. below spur; asc. gradually.
67.20	Spur, projects NE., 120 ft. above draw; desc. abruptly.
69.40	Draw, 10 lks. wide, 2 ft. deep, drains NE., 50 ft. below spur; asc. abruptly.
80.00	The witness cor. of secs. 13, 14, 23 and 24.

Survey of Subdivision, T. 42 S., R. 1 W.

Chains.	
80.20	The true point for the cor. of secs. 13, 14, 23 and 24.
	Land, rolling in the eastern portion; rolling mountainous in the western portion.
	Soil, light gray clay and sandy loam, 2 to 4 ft. deep; shallow in places, with sandstone rock close to the surface.
	Timber, none.
	Undergrowth, scattering shadscale, yellow top and bunch grass.
	Eastern exposure. Sandstone formation. Fair grazing.
	From the true point for the cor. of secs. 13, 14, 23 and 24.
	N. 0° 1' W., bet. secs. 13 and 14.
	Asc. over broken mountainous land, through scattering shadscale, yellow top, saltsage and bunch grass.
3.60	Rocky spur, projects E., approximately 1 ch.; desc. grad.
8.20	Start abrupt desc. over broken N. slope, bears E. and W.
28.10	Draw, 15 lks. wide, 4 ft. deep, drains NW., 460 ft. below beginning of abrupt desc.; asc. gradually.
31.20	Spur, projects NE., 25 ft. above draw; desc. gradually.
36.50	Wash, 10 lks. wide, 5 ft. deep, drains NE., 60 ft. below spur; asc. gradually.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	S 14 | S 13 (¼)
	1916
	Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
49.80	Spur, projects NE., 20 ft. above wash; desc. gradually.
52.50	Wash, 10 lks. wide, 4 ft. deep, drains NE., 15 ft. below spur; asc. gradually.
56.10	Spur, projects NE., 45 ft. above wash; desc. gradually.
66.30	Draw, 10 lks. wide 4 ft. deep, drains E., 75 ft. below spur; asc. gradually.

Chains.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., over cross on solid sandstone ledge, in large mound of stone, for the cor. of secs. 11, 12, 13 and 14, with brass cap mkd.

T 42 S R 1 W

S 11	S 12
S 14	S 13

1916

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

Corner established 170 ft. above draw.

Land, mountainous.

Soil, light sand, clay and fine gravel; 2 to 6 ft. deep in washes and draws, shallow and covered with sandstone boulders on slopes.

Timber, none.

Undergrowth, scattering shadscale, yellow top, saltsage and bunch grass.

Southeastern exposure. Sandstone formation. Good grazing.

From the cor. of secs. 11, 12, 13 and 14.

East, on random line bet. secs. 12 and 13.

40.00 Set temp. ¼ sec. cor.

80.18 Intersect the E. bdy. of the twp., 4.41 chs. S. of the witness cor. for sections 12, and 13, which is 4.60 chs. N. of the true cor. point.

N. 89° 52' W., on true line bet. secs. 12 and 13.

Asc. over mountainous land, through scattering scrub cedar and pinon timber, scattering sagebrush, shadscale, yellow top and bunch grass undergrowth.

10.70 Spur, projects S., 50 ft. above true cor. point; desc. abruptly over sandstone ledges.

30.70 Ravine, drains SE., 470 ft. below spur; asc. abruptly over sandstone ledges.

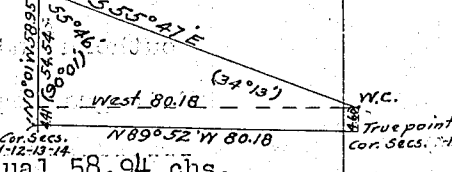
39.17 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the witness ¼ sec. cor., with brass cap mkd.

WC¼ S 12 / S 13 / 1916

Chains.	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
40.09	The true point for the ¼ sec. cor. falls on sloping sandstone ledge; impossible to set cor.
42.90	Top of abrupt asc., bears NE. and SW.; asc. gradually.
44.50	Spur, projects S., 240 ft. above ravine; desc. gradually.
63.90	Head of draw, drains SE., 230 ft. below spur; asc. grad.
71.00	Spur, projects SE., 40 ft. above head of draw; desc.
80.18	The cor. of secs. 11, 12, 13 and 14, 30 ft. below spur.
	Land, mountainous.
	Soil, light sand and gravel, dark clay; shallow and covered with sandstone boulders.
	Timber, scattering scrub cedar and pinon in the eastern portion.
	Undergrowth, scattering shadscale, yellow top and bunch grass.
	Southern exposure. Sandstone formation. Poor grazing.

	From the cor. of secs. 11, 12, 13 and 14.
	N. 0° 01' W., bet. secs. 11 and 12.
	Asc. over broken mountainous land, through scattering scrub cedar and pinon timber, scattering shadscale, yellow top and bunch grass undergrowth.
11.80	Spur, projects SW., 190 ft. above sec. cor.; desc. grad.
15.05	It being impossible to chain farther along line, I set a flag ahead on line on top of perpendicular ledges.
	From the flag on top of ledges, the witness cor. for the cor. of secs. 7, 12 and 13, , on the E. bdy. of the twp., bears S. 55° 47' E. Said witness cor. being 4.60 chs. N. of the true cor. point. The bearing of the line bet. secs. 12 and 13 is N. 89° 52' W., and the dist. is 80.18 chs., I compute dist. along line as follows:

Colog sin 55°46' = 0.082624
Log sin 34° 13' = 9.749987
Log 80.18 chs. = 1.904066
Log 54.53 chs. = 1.736677



54.53 chs. plus 4.41 chs. equal 58.94 chs.

40.00	Point for ¼ sec. cor. Cor. not set.
58.94	The triangulation point on top of ledges. Ledges bears

Chains.	
	NW. and NE., 500 ft. above sec. cor.
59.23	As the true point for the ¼ sec. cor. fell in perpendicular ledges where is was impossible to set, therefore at this point
	Set an iron post, 3 ft. long, 1 in. diam., over cross on solid sandstone ledge, firmly set in large mound of stone, for the witness ¼ sec. cor., with brass cap mkd.
	¼ S 11 | S 12 WC 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
60.80	Start gradual desc. over N. slope, bears NW. and SE.
71.30	Start abrupt desc. over broken sandstone ledges, bears N. 10° W. and S. 10° E.
79.80	Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground, on solid rock, in large mound of stone, for the witness cor. for secs. 1, 2, 11 and 12, with brass cap mkd.
	T 42 S R 1 W WC S 2 | S 1 S 11 | S 12 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
80.00	True point for the cor. of secs. 1, 2, 11 and 12, falls on sloping sandstone ledge, impossible to set cor.
	Land, broken mountainous.
	Soil, light clay, sand and gravel, shallow with outcropping of conglomerate and sandstone.
	Timber, very scattering scrub cedar and pinon.
	Undergrowth, scattering shadscale, yellow top and bunch grass.
	Southern and eastern exposures. Sandstone formation.
	Fair grazing.

	From the true point for the cor. of secs. 1, 2, 11 and 12.

Chains.	
	S. 89° 52' E., on random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.16	Intersect the E. bdy. of the twp., 29 lks. S. of the cor. of sections 1 and 12, heretofore described.
	S. 89° 55' W., on true line bet. secs. 1 and 12.
	Asc. over mountainous land, through scattering shadscale, yellow top and bunch grass undergrowth.
2.50	Draw, 5 lks. wide, 2 ft. deep, drains S.; asc. gradually.
7.50	Spur, projects S. approximately 5 chs., 90 ft. above draw; desc. gradually.
16.40	Draw, 10 lks. wide, 3 ft. deep, drains SE., 40 ft. below spur; asc.
19.30	Spur, projects S. approximately 3 chs., 40 ft. above draw; desc. gradually.
25.30	Ravine, drains SE., 90 ft. below spur; asc. gradually.
30.40	Spur, projects NE., 60 ft. above ravine; desc. gradually.
35.20	Draw, 8 lks. wide, 2 ft. deep, drains NE., 10 ft. below spur; asc. gradually.
40.08	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 1 / S 12
	1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
47.90	Spur, projects NE., 30 ft. above draw; desc. gradually.
49.60	Draw, 5 lks. wide, 2 ft. deep, drains NE., 20 ft. below spur; asc. gradually.
52.90	Spur, projects NE., 30 ft. above draw; desc. gradually.
56.00	Draw, 10 lks. wide, 4 ft. deep, drains NE., 20 ft. below spur; asc. abruptly over broken rocky slope of mesa.
80.16	The cor. of secs. 1, 2, 11 and 12, (true point) 620 ft. above draw.
	Land, mountainous.
	Soil, light gray clay and sand, 2 to 4 ft. deep in the eastern portion, shallow in the western portion, and covered with sandstone and shale sliderock.
	Timber, none.

Chains.

Undergrowth, scattering shadscale, yellow top and bunch grass.

Eastern exposure. Sandstone and shale formation. Fair grazing.

From the true point for the cor. of secs. 1, 2, 11 and 12.

N. 0° 01' W., on random line bet. secs. 1 and 2.

40.00 Set temp. ¼ sec. cor.

79.51 Intersect the N. bdy. of the twp., 34 lks. W. of the true point for the cor. of secs. 1, 2, 35 and 36, heretofore described.

S. 0° 14' W., on true line bet. secs. 1 and 2.

Asc. over mountainous land, through dense cedar and pinon timber, scattering shadscale, yellow top, brigham tea and bunch grass.

11.50 N. rim of mesa, bears NW. and SE., 50 ft. above true point for sec. cor.; asc. gradually.

17.80 Draw, 5 lks. wide, 2 ft. deep, drains NE.; 10 ft. above N. rim of mesa; continue gradual asc.

34.30 Top of asc., bears E. and W., 50 ft. above draw; desc. gradually.

36.70 Bottom of desc., bears E. and W., 10 ft. below top of asc.; asc. gradually.

39.51 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, on solid rock, in large mound of stone, for the ¼ sec. cor., with brass cap mkd.

¼

S 2 | S 1

1916

from which

A pinon, 14 ins. diam., bears N. 10° E., 81 lks. dist., mkd. ¼S1BT.

A pinon, 8 ins. diam., bears N. 77° W., 113 lks. dist., mkd. ¼S2BT.

40.50 S. rim of mesa, bears NE. and SW., 10 ft. above bottom of desc.; desc. abruptly over broken and rocky S. slope of mesa. Leave dense timber.

Chains.	
65.40	Head of draw, drains E., 390 ft. below S. rim of mesa; asc. gradually over broken and rocky E. slope of mesa.
79.51	The true point for the cor. of secs. 1, 2, 11 and 12, 130 ft. above draw.
	Land, mountainous.
	Soil, light clay, sand and gravel, covered with shale and sandstone boulders, shallow.
	Timber, dense cedar and pinon in the northern half.
	Undergrowth, scattering shadscale, yellow top, brigham tea and bunch grass.
	Eastern exposure. Sandstone and shale formation. Fair grazing.

	From the true point for the cor. of secs. 13, 14, 23 and 24.
	West, on true line bet. secs. 14 and 23, knowing that a cor. for secs. 14 and 23 will be necessary against the W. bdy. of sec. 22.
	Asc. over mountainous land, through scattering shadscale, yellow top and bunch grass undergrowth.
.80	Crest rim of mesa, bears N. and S., 50 ft. above true point for sec. cor.; asc. gradually over gently rolling mesa.
8.70	Top of asc., bears N. and S.; desc. gradually.
30.35	West rim of mesa, bears NW. and S., impossible to chain farther on this line, therefore leave flag and proceed to triangulate. It is also impossible to chain along the line bet. secs. 14 and 15, it is also impossible to see the top of the ledges to the north from the cor. for secs. 15 and 22. Therefore, from the cor. of secs. 15 and 22 I run S. 0° 1' E. 11.56 chs. and offset 32 lks. E. in order to see the top of the ledges to the E., this point I designate "A". I place a flag on top of the ledges to the north, N. 0° 1' W. from point "A"; I designate this point "C". From "A", with the telescope pointing north, I lay off a base to the right, 15.55 chs., which is the longest possible dist. from which all points are visible.

Chains.

The E. end of the base I designate "B". I designate the flag places 30.35 chs. West of the true point for the cor. of secs. 13, 14, 23 and 24, "D".

The angle at "A", bet. "C" and "D" is found to be 77° 49'

The angle at "A", bet. "B" and "C" is found to be 90° 09'

The angle at "B", bet. "A" and "C" is found to be 71° 30'

The angle at "B" bet. "A" and "D" is found to be 162° 20'

The angle at "C", bet. "A" and "B" is found to be 18° 21'

The angle at "C", bet. "A" and "D" is found to be 53° 57'

I compute triangle "A-B-C" as follows:

Colog sin 18° 21'	=0.5019365
Log sin 71° 30'	=9.9769566
Log 15.55 chs.	=1.1917304
Log 46.84 chs.	=1.6706235

Dist. "A-C" is therefore 46.84 chs.

I compute the triangle "A-C-D", using line "A-C" as a base.

Colog sin 48° 14'	=0.1273406
Log sin 53° 57'	=9.9076820
Log 46.84 chs.	=1.6706169
Log 50.77 chs.	=1.7056395

Dist. "A-D" is therefore 50.77 chs.

I compute the triangle "A-D-E", using line "A-D" as a base.

Log sin 77° 49'	=9.9901067
Log 50.77 chs.	=1.7056072
Log 49.63 chs.	=1.6957139
Log sin 12° 12'	=9.3249505
Log 50.77 chs.	=1.7056072
Log 10.73 chs.	=1.0305577

Dist. "D-E" is therefore 49.63 chs.

Dist. "A-E" is therefore 10.73 chs.

From the solution of the above triangles it was found that at 80.30 chs. the line would intersect the E. bdy. of sec. 22, S. 0° 12' W., 83 lks. from the cor. of secs. 15 and 22.

The point for the witness ¼ sec. cor. was established by measuring east along line from the cor. of secs. 14 and 23.

Continuing the notes west from the triangulation point on top of ledges.

Chains.	
	Desc. abruptly over sandstone ledges.
40.15	Point for ¼ sec. cor. falls in ledges, impossible to set cor.
45.32	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the witness ¼ sec. cor., with brass cap mkd.
	¼ $\frac{S\ 14}{S\ 23}$ WC
	1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Corner is established at bottom of abrupt desc., approximately 500 ft. below top of ledge; asc.
62.40	Ridge, bears N. and S., 80 ft. above witness ¼ sec. cor.; desc.
64.50	Draw, 10. lks. wide, 2 ft. deep, drains SW., 80 ft. below ridge; asc. gradually.
73.20	Spur, projects S., approximately 5 chs., 120 ft. above draw; desc. abruptly.
80.30	Intersect the E. bdy. of sec. 22, S. 0° 12' W., 83 lks. from the cor. of secs. 15 and 22. At point of intersection.
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 14 and 23, with brass cap mkd.
	T 42 S R 1 W S 14 S 23
	1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	Land, rolling mesa top on the eastern portion; broken and mountainous in the western portion.
	Soil, light gray clay and light sandy loam; shallow.
	Timber, none.
	Undergrowth, scattering shadscale, yellow top and bunch grass.
	Southern and southwestern exposures. Sandstone formation.
	Fair grazing.

	From the cor. of secs. 14 and 23.

Chains.	
	N. 0° 12' E., along the W. bdy. of sec. 14.
0.83	The cor. of secs. 15 and 22.
	Thence, N. 0° 01' W., bet. secs. 14 and 15, with continuous measurement.
	It is impracticable to chain along this line on account of the perpendicular ledges. For the method used in producing the line and obtaining the dist. to the top of the ledges, see series of triangulations and diagram on line bet. secs. 14 and 23, found on page 66, this book of notes. At point "C" on said diagram, I offset 32 lks. W., which establishes a point N. 0° 01' W., 35.28 chs. dist. from the cor. of secs. 15 and 22, or 36.11 chs. dist. from the cor. of secs. 14 and 23, therefore
36.11	Top of sandstone spur projecting SE., 1000 ft. above sec. cor.
36.80	N. edge of sandstone spur, desc. abruptly over sandstone ledges, bearing E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, on solid rock, in large mound of stone, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$S\ 15 \mid \frac{1}{4} \mid S\ 14$ 1916
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
62.60	Draw, 5 lks. wide, 2 ft. deep, drains NE., 700 ft. below sandstone spur; asc. gradually over broken S. slope.
70.30	Spur, projects NE., 20 ft. above draw; desc.
73.00	Draw, 5 lks. wide, 3 ft. deep, drains E., 40 ft. below spur; asc.
75.60	Spur, projects E., 40 ft. above draw; desc.
78.60	Draw, 10 lks. wide, 2 ft. deep, drains E., 100 ft. below spur; asc. abruptly.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, on solid rock, in large mound of stone, for the cor. of secs. 10, 11, 14 and 15, with brass cap mkd.

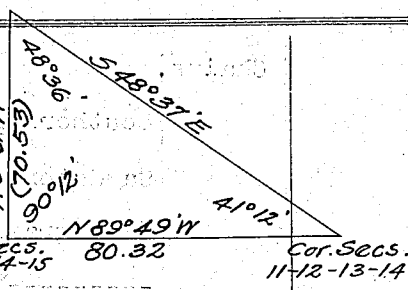
Chains	
	T 42 S R 1 W S 10 | S 11 S 15 | S 14 1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rough and broken mountainous.
	Soil, light gray clay and loam in the extreme southern portion, light sand and gravel in the remaining portion.
	Timber, none.
	Undergrowth, shadscale, yellow top and bunch grass. Poor grazing.

	From the cor. of secs. 10, 11, 14 and 15.
	East, on random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.32	Fall 26 lks. N. of the cor. of secs. 11, 12, 13 and 14.
	N. 89° 49' W., on true line bet. secs. 11 and 14.
	Desc. abruptly over broken mountainous land, through scattering scrub cedar and pinon timber, shadscale, yellow top and bunch grass undergrowth.
5.40	A series of sandstone ledges bear NW. and SE.; continue abrupt desc.
14.10	Draw, 15 lks. wide, 4 ft. deep, drains SE., asc. gradually.
36.80	East rim of mesa, bears NE. and SW., 360 ft. above draw; asc. gradually over rolling mesa.
40.16	Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground, on solid rock, in large mound of stone, for the ¼ sec. cor., with brass cap mkd. ¼ S 11 / S 14 1916 from which A pinon, 10 ins. diam., bears S. 10° 15' W., 45 lks. dist., mkd. ¼S14BT. A pinon, 14 ins. diam., bears N. 15° 45' W., 34 lks. dist., mkd. ¼S11BT.
47.40	West rim of mesa, bears NE. and SW., desc. abruptly over ledges and boulders.

Chains	
68.40	Draw, 20 lks. wide, 5 ft. deep, drains NE., 180 ft. below west rim of mesa; asc. abruptly.
80.32	The cor. of secs. 10, 11, 14 and 15, 270 ft. above draw.
	Land, rough and broken mountainous.
	Soil, light gray clay in the draws, light sand and gravel on the slopes, usually shallow.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, scattering shadscale, yellow top and bunch grass. Fair grazing.
	Eastern exposure. Sandstone formation.

	From the cor. of secs. 10, 11, 14 and 15.
	N. 0° 01' W., bet. secs. 10 and 11.
	Asc. along the broken, rocky east slope of high mesa to the west, through very scattering scrub cedar and pinon timber, scattering shadscale, yellow top and bunch grass undergrowth.
3.00	Spur, projects E., 20 ft. above sec. cor.; desc.
5.80	Draw, 5 lks. wide, 2 ft. deep, 10 ft. below spur, drains E.; asc.
38.30	Spur; projects NE., 350 ft. above draw; desc. abruptly.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.
	S 10 | $\frac{1}{4}$ | S 11
	1916
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	No trees within reasonable dist. suitable for bearing trees.
	This cor. is established on the S. rim of a deep canon draining E., with a series of perpendicular sandstone ledges forming both N. and S. walls over which it is impracticable to chain. I set a flag ahead on line, on the N. rim of canon. From this flag, the cor. of secs. 11, 12, 13 and 14, bears S. 48° 37' E., I compute the dist along line as follows:

Chains.



Colog sin 48° 36' = 0.124874
Log sin 41° 12' = 9.818681
Log 80.32 chs. = 1.904824
Log 70.53 chs. = 1.848379

Therefore the flag ahead on line is 70.53 chs. N. of the cor. of secs. 10, 11, 14 and 15.

70.53 The triangulation point on the N. rim of canon, or the S. rim of high mesa, bears E. and W., approximately 700 ft. above the bottom of the canon, thence over nearly level mesa.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 2, 3, 10 and 11, with brass cap mkd.

T 42 S R 1 W

S 3	S 2
S 10	S 11

1916

from which

A cedar, 18 ins. diam., bears N. 25° 30' E., 135 lks. dist., mkd. T42SR1WS2BT.

A pinon, 20 ins. diam., bears S. 76° 30' E., 80 lks. dist., mkd. T42SR1WS11BT.

A cedar, 18 ins. diam., bears S. 16° 15' W., 27 lks. dist., mkd. T42SR1WS10BT.

A cedar, 14 ins. diam., bears N. 80° W., 190 lks. dist., mkd. T42SR1WS3BT.

Land, mountainous, and broken slope of mesa, cut by deep canon. The northern portion is rolling mesa top.

Soil, light sand, clay and gravel, shallow and covered with large sandstone boulders along the broken slope.

light sandy loam, of medium texture, 2 ft. deep, on light red clay subsoil, on mesa top.

Timber, scattering scrub cedar and pinon.

Undergrowth, shadscale, scattering sagebrush, yellow top, bunch grass and brigham tea.

Chains.	
	Southern and southeastern exposures.
	Sandstone formation.
	Fair grazing.

	From the cor. of secs. 2, 3, 10 and 11.
	S. 89° 49' E., on random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
80.34	Intersect the N. and S. line, 5 lks. S. of the true point for the cor. of secs. 1, 2, 11 and 12.
	Thence
	N. 89° 51' W., on true line bet. secs. 2 and 11.
	Asc. abruptly over mountainpus land, through scattering scrub cedar and pinon timber, scattering sagebrush, shadscale, yellow top and bunch grass.
5.10	Ridge, bears N. and S., 140 ft. above sec. cor.; desc. gradually.
9.90	West rim of mesa, bears N. and S., 15 ft. below top of ridge; desc. abruptly.
34.60	Ravine, drains S. 30° W., 570 ft. below W. rim of mesa; asc. abruptly over broken sandstone ledges.
40.17	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, on solid rock, in a large mound of stone, for the ¼ sec. cor. with brass cap mkd.
	¼ S 2 / S 11
	1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	No trees within reasonable dist. suitable for bearing trees.
64.10	East rim of mesa, 20 ft. high, bears NE. and SW., 570 ft. above ravine; asc. gradually over gently rolling mesa top.
75.30	Top of asc., bears N. and S., 20 ft. above E. rim of mesa;

Chains.	
	desc. gradually.
80.34	The cor. of secs. 2, 3, 10 and 11, 10 ft. below the top of asc.
	Land, rough and broken mountainous, except on the mesa top where it is gently rolling.
	Soil, light red sandy loam, 2 to 4 ft. deep on light clay subsoil, on mesa top, the soil becomes shallow toward the edge of the mesa. light sand and gravel, shallow and covered with sandstone boulders and slide rock on the slopes.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, scattering shadscale, sagebrush, yellow top and bunch grass.
	Eastern exposure in the extreme eastern portion; western and southwestern exposure in the remaining portion.
	Sandstone formation.
	Fair grazing on the slopes, with good grazing on the mesa top.

	From the cor. of secs. 2, 3, 10 and 11.
	North, on true line bet. secs. 2, and 3, knowing froming previous closings that I will intersect the N. bdy. of the twp. more than 50 lks. W. of the cor. of secs. 34 and 35, T. 41 S., R. 1 W.
	Asc. gradually over rolling mesa top, through scattering scrub cedar and pinon timber, scattering sagebrush, shadscale, yellow top and bunch grass.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.

	$\frac{1}{4}$
	S 3 | S 2
	1916
	from which
	A cedar, 16 ins. diam., bears S. 43° 30' E.,

Chains.

103 lks. dist., mkd. ¼S2BT.

A cedar, 12 ins. diam., bears S. 52° W.,
47 lks. dist., mkd. ¼S3BT.

Continue asc. over rolling mesa, the timber becoming more scattering.

79.16 Intersect the N. bdy. of the twp., 70 lks. W. of the cor. of secs. 34 and 35, T. 41 S., R. 1 W.

At point of intersection

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

S 3 | S 2

T 42 S R 1 W

1916

from which

A cedar, 8 ins. diam., bears S. 29° 30' E.,
269 lks. dist., mkd. T42SR1WS2BT.

No other trees within reasonable dist. suitable for bearing trees.

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

Land, gently rolling mesa.

Soil, light sandy loam of medium texture, 2 to 4 ft. deep, on light red clay and gravel subsoil. The soil gradually becomes deeper toward the north.

Timber, scattering scrub cedar and pinon.

Undergrowth, scattering sagebrush, yellow top and bunch grass.

Northern exposure. Sandstone formation. Good grazing.

From the cor. of secs. 10, 11, 14 and 15.

West, on true line bet. secs. 10 and 15, knowing from previous retracement and resurveys that it will be necessary to establish the cor. of secs. 10 and 15 against the N. bdy. of sec. 9.

Survey of Subdivision, T. 42 S., R. 1 W.

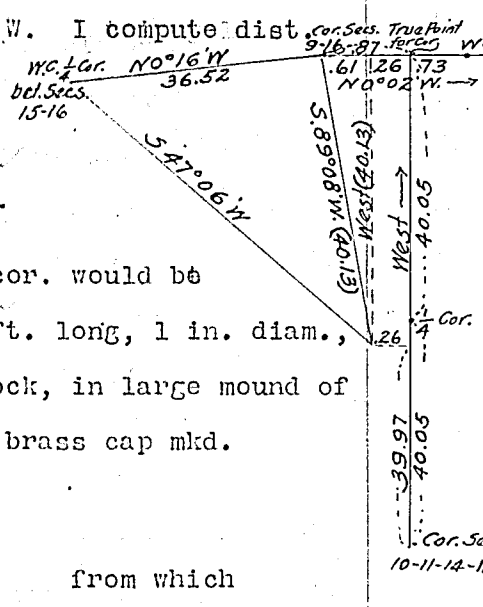
Chains.

Asc. over mountainous land, through scattering shadscale, yellow top and bunch grass undergrowth.

16.80 East rim of mesa, bears N. and S., 600 ft. above sec. cor., asc. gradually over rolling mesa top, through dense scrub cedar and pinon timber.

25.30 Top of asc., bears N. and S., desc. gradually.

39.97 It being impracticable to chain farther along line on account of the perpendicular ledges, I triangulate as follows: From this point I offset 26 lks. S. of line in order to distinguish the cors. to be used in the triangulation. From this point the witness ¼ sec. cor. bet. secs. 15 and 16, bears S. 47° 06' W. The cor. of secs. 9 and 16, bears S. 89° 08' W. I compute dist. as follows:



Colog sin 42° 02' = 0.174209
Log sin 47° 22' = 9.866703
Log 36.52 chs. = 1.562531
Log 40.13 chs. = 1.603443

The computed dist. for the ¼ sec. cor. would be

40.05 On true line, Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, on solid rock, in large mound of stone, for the ¼ sec. cor., with brass cap mkd.

¼ S 10 / S 15

1916

from which

A cedar, 8 ins. diam., bears N. 54° E., 72 lks. dist., mkd. ¼S10BT.

A pinon, 14 ins. diam., bears S. 71° E., 136 lks. dist., mkd. ¼S15BT.

From this point the line desc. abruptly over broken sandstone ledges over the Western slope of mesa.

80.10 Intersect the E. bdy. of sec. 9, 87 lks. N. 0° 02' W., of the cor. of secs. 9 and 16. The point of intersection falls on sloping sandstone ledge where it is impossible to set cor., therefore, N. 0° 2' W., 73 lks. from the true cor. point

Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, on solid rock, in large mound of stone, for the

Chains.	
	witness cor. for secs. 10 and 15, with brass cap mkd.
	T 42 S R 1 W
	S 10
	S 15
	WC
	1916
	from which
	A pinon, 10 ins. diam., bears N. 38° 30' E., 58 lks. dist., mkd. T42SR1WS10WCBT.
	No other trees within reasonable dist. suitable for bearing trees.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	Land, mountainous.
	Soil, light sand and covered with large boulders on the mesa slopes; light red sandy loam on mesa top, shallow, with sandstone rock close to the surface and outcropping in many places.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, sagebrush, shadscale, yellowtop and bunch grass.
	Eastern exposure in the eastern portion, western exposure in the western portion. Sandstone formation. Fair grazing.

	From the true point for the cor. of secs. 10 and 15.
	N. 0° 2' W., bet. secs. 9 and 10.
	Asc. over mountainous land, through scattering scrub cedar and pinon timber, scattering shadscale, yellow top and bunch grass undergrowth.
0.73	The witness cor. for secs. 10 and 15.
8.50	Spur, projects SW., 50 ft. above true cor. point; desc.
20.20	Draw, 10 lks. wide, 3 ft. deep, drains W., 60 ft. below spur; asc.
32.40	Spur, projects SW., 170 ft., above draw; desc.
37.92	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, on solid rock, in large mound of stone, for the witness ¼ sec. cor., with brass cap mkd.

Chains.

$\frac{1}{4}$ W C

S 9 | S 10

1916

from which

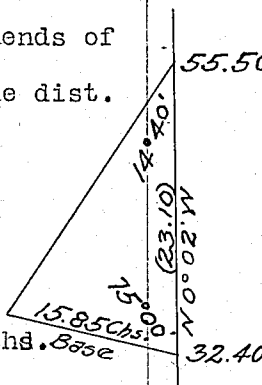
A pinon, 8 ins. diam., bears S. 22° 30' W., 63 lks. dist., mkd. $\frac{1}{4}$S9WCBT.

No other trees within reasonable dist. suitable for bearing trees.

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Cor. is established 50 ft. below spur.

40.00 True point for $\frac{1}{4}$ sec. cor. falls in broken ledges of a box canon, over which it is impossible to chain. Cor. not set. In order to get line and dist. across canon, I return to a 32.40 chs. point on line, and with the telescope pointing N. 0° 02' W., deflect an angle of 75° 00' to the left, and measure a base of 5.85 chs., which is the longest possible base on account of the topography of the land. I set a flag ahead on line. The angle at the flag ahead on line, bet. the ends of the base is found to be 14° 40'. I compute the dist. along line as follows:

Colog sin 14° 40' = 0.596545
Log sin 90° 20' = 9.999993
Log 5.85 chs. = 0.767156
Log 23.10 chs. = 1.363694



32.40 chs. plus 23.10 chs. equal 55.50 chs.

55.50 Triangulation point on N. edge of box canon, bears E. and W.; asc.

57.70 Spur, projects W., 10 ft. above triangulation point; desc. gradually.

59.80 Draw, 10 lks. wide, 2 ft. deep, drains W., 50 ft. below spur; asc. abruptly.

62.50 Spur, projects W., 50 ft. above draw; desc. gradually.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 3, 4, 9 and 10, with brass cap mkd.

T 42 S R 1 W

S 4 | S 3

S 9 | S 10

1916

from which

Chains.

A cedar, 10 ins. diam., bears N. 13° E., 92 lks. dist., mkd. T42SR1WS3BT.

A cedar, 16 ins. diam., bears S. 34° 30' E., 106 lks. dist., mkd. T42SR1WS10BT.

A cedar, 8 ins. diam., bears S. 36° W., 43 lks. dist., mkd. T42SR1WS9BT.

A cedar, 10 ins. diam., bears N. 43° W., 181 lks. dist., mkd. T42SR1WS4BT.

Corner established 200 ft. below spur.

Land, mountainous.

Soil, light, shallow clay and sandy loam, rocky, with sandstone bed rock outcropping in many places.

Timber, scattering cedar and pinon.

Undergrowth, shadscale, yellow top and bunch grass.

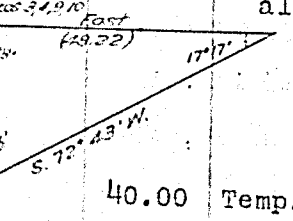
Western exposure. Sandstone formation. Fair grazing.

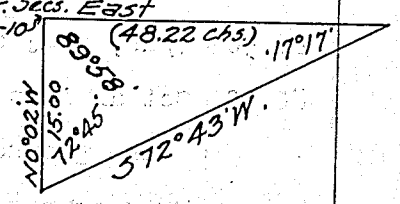
This mile runs along the breaks forming the eastern escarpment of Paria Canon.

From the cor. of secs. 3, 4, 9 and 10.

East, on a random line bet. secs. 3 and 10.

It being impracticable to chain east from this cor. on account of the ledges and breaks forming the eastern escarpment on Paria Canon, I place a flag on line bet. secs. 9 and 10, S. 0° 02' E., 15.00 chs. from the sec. cor., this being the longest possible dist. from which a flag on top of the ledges to the east is visible. I place a flag on line on top of the ledges, East of the sec. cor. From the flag on top of the ledges, the S. end of the base, bears S. 72° 43' W. I compute dist. along line as follows:





Colog sin 17° 17'	= 0.527102
Log sin 72° 45'	= 9.980012
Log 15.00 chs.	= 1.176091
Log 48.22 chs.	= 1.683205

40.00 Temp. point for ½ sec. cor., falls in ledges. Point not set.

48.22 Triangulation point on top of ledges.

Chains.	
48.34	Set temp. point for witness ¼ sec. cor.
80.30	Fall 10 lks. S. of the cor. of secs. 2, 3, 10 and 11.
	S. 89° 56' W., on true line bet. secs. 3 and 10.
	Asc. gradually over rolling mesa top, through scattering cedar and pinon timber, scattering sagebrush, shadscale, yellow top and bunch grass.
2.00	Top of asc., bears N. and S., 10 ft. above sec. cor.; desc. gradually.
31.96	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, on solid rock, in mound of stone, for the witness ¼ sec. cor., with brass cap mkd.
	WC ¼ S 3 / S 10
	1916 from which
	A pinon, 8 ins. diam., bears S. 33° 50' E., 79 lks. dist., mkd. ¼S10WCBT.
	A pinon, 10 ins. diam., bears N. 30° 30' W., 13 lks. dist., mkd. ¼S3WCBT.
32.08	The triangulation point on the west rim of mesa. The rim is 110 ft. below top of asc. and bears N. and S.; desc. abruptly over broken west slope of mesa, over sandstone ledges. Thence by traingulation.
40.15	The true point for the ¼ sec. cor. falls in ledges. Cor. not set
80.30	The cor. of secs. 3, 4, 9 and 10, 500 ft. below the rim of mesa.
	Land, rolling mesa in the eastern portion; rough mountainous in the western portion.
	Soil, light sandy loam and gravel, shallow and covered with sandstone boulders, especially in the western portion.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, scattering sagebrush, shadscale, yellow top and bunch grass.
	Western exposure. Sandstone formation. Fair grazing.

Chains.	
	From the cor. of secs. 3, 4, 9 and 10.
	West on true line bet. secs. 4 and 9, knowing from previous retracements that it will be necassary to establish the cor. of secs. 4 and 9, at the intersection of this line with the E. bdy. of sec. 5.
	Asc. gradually over mountainous land, through scattering cedar and pinon timber, scattering sagebrush, shadscale, yellow top and bunch grass undergrowth.
3.50	Spur, projects NW., 30 ft. above sec. cor.; desc. gradually.
10.60	Draw, drains SW., 45 ft. below spur; asc. gradually.
13.50	Spur, projects S., approximately 10 chs., 20 ft. above draw; desc. gradually.
18.10	Draw, 15 lks. wide, 3 ft. deep, drains SW., 40 ft. below spur; asc. gradually.
22.80	Spur, projects SW., 20 ft. above draw; desc. abruptly.
32.30	Draw, 10 lks. wide, 2 ft. deep, drains SW., 240 ft. below spur; asc. gradually.
34.50	Spur, projects S., 20 ft. above draw; desc. gradually.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 4 / S 9
	1916
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	No trees within reasonable dist. suitable for bearing trees.
	Leave scattering timber, bears NW. and SE., desc. gradually over nearly level Paria Canon bottom.
43.60	Left bank of Paria River bed, 10 ft. high, bears N. and S., thence over sandy river bottom.
51.90	Paria River, 50 lks. wide, 6 ins. deep, course S., 20 ft. below spur. Water clear and alkali.
60.50	Right bank of Paria River, 3 ft. high, bears N. and S.; asc. gradually over nearly level canon bottom.
64.80	Road, Pahreah to Adairville, bears N. and S.
78.10	Spur, projects N., 160 ft. above Paria River; desc. grad.
79.26	Intersect the E. bdy. of sec. 5, N. 0° 21' E., 67 lks.

Survey of Subdivision, T. 42 S., R. 1 W.

Chains.	
	from the cor. of secs. 5 and 8.
	At point of intersection
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 4 and 9, with brass cap mkd.

T 42 S R 1 W

S 4

S 9

1916

	Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	Land, mountainous in the eastern portion; nearly level canon bottom in the western portion.
	Soil, light clay and gravel, shallow, in the eastern portion; dark sandy loam, 2 to 10 ft. deep in the canon bottom.
	Timber, scattering scrub cedar and pinon in the eastern portion; scattering cottonwood along Paria River.
	Undergrowth, scattering sagebrush, shadscale, yellow top and bunch grass; greasewood and tamarack in canon bottom.
	Western exposure. Sandstone formation. Good grazing.

	From the cor. of secs. 3, 4, 9 and 10.
	N. 0° 01' W., on true line bet. secs. 3 and 4, knowing from previous closings that it will be necessary to establish a cor. of secs. 3 and 4, against the N. bdy. of the twp.
	Desc. over mountainous land, through scattering scrub cedar and pinon timber, scattering sagebrush, shadscale, yellow top and bunch grass undergrowth.
7.60	Ravine, drains W., 60 ft. below sec. cor.; asc. abruptly.
12.80	Spur, projects W., 100 ft. above ravine; desc. abruptly.
15.60	Draw, 15 lks. wide, 2 ft. deep, drains W., 90 ft. below spur; asc. gradually.
32.10	Spur, projects W., 360 ft. above draw; desc. abruptly.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the

Chains.	
	ground, on solid rock, in large mound of stone, for the ¼ sec. cor., with brass cap mkd.
	¼ S 4 | S 3 1916
	from which
	A pinon, 10 ins. diam., bears N. 30° E., 43 lks. dist., mkd. ¼S3BT.
	A pinon, 12 ins. diam., bears N. 83° W., 41 lks. dist., mkd. ¼S4BT.
46.40	Draw, 15 lks. wide, 3 ft. deep, drains W., 140 ft. below spur; asc. gradually.
51.30	Spur, projects W., 40 ft. above draw; desc. gradually.
63.60	Ravine, drains W., 40 ft. below spur; asc.
66.80	Spur, projects SW., 20 ft. above ravine; desc.
73.30	Draw, 10 lks. wide, 2 ft. deep, drains SW., 30 ft. below spur; asc.
78.94	Intersect the N. bdy. of the twp., 90 lks. West of the cor. of secs. 33 and 34, T. 41 S., R. 1 W.
	At point of intersection
	Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground, on solid rock, in large mound of stone, for the cor. of secs. 3 and 4, with brass cap mkd.
	S 4 | S 3 T 42 S R 1 W 1916
	from which
	A pinon, 12 ins. diam., bears S. 52° E., 130 lks. dist., mkd. T42SR1WS3BT.
	A pinon, 10 ins. diam., bears S. 51° 30' W., 204 lks. dist., mkd. T42SR1WS4BT.
	Corner established 60 ft. above draw.
	Land, mountainous.
	Soil, light sand and gravel on dark gray subsoil; shallow, and covered with sandstone boulders.
	Timber, scattering scrub cedar and pinon.
	Undergrowth, scattering sagebrush, shadscale, yellow top

Survey of Subdivision, T. 42 S., R. 1 W.

Chains.

and bunch grass.

Western exposure. Sandstone formation. Fair grazing.

Boundaries of T. 42 S., R. 1 W.

Latitudes, departures, and closing errors.

Line Designated.	Course.	Dist.	Latitudes. N.	Latitudes. S.	Departures. E.	Departures. W.
		Chs.	chs.	chs.	chs.	chs.
Bet.Secs.35 & 36.	N. 0°14'E.	79.76	79.76	.....	.32	.....
Bet.Secs.26 & 35.	N.89°01'W.	80.43	1.38	.....	.....	80.42
Bet.Secs.26 & 27.	N. 0°03'W.	79.02	79.02	.....	.....	.07
Bet.Secs.22 & 27.	S.89°26'W.	80.92	.....	.80	.....	80.92
Bet.Secs.21 & 22.	N. 0°43'E.	81.03	81.02	.....	1.01	.....
Bet.Secs.16 & 21.	N.89°01'W.	78.87	1.35	.....	.....	78.86
Bet.Secs.16 & 17.	N. 0°36'E.	39.89	39.89	.....	.42	.....
Bet.Secs.16 & 17.	N. 2°23'W.	37.96	37.93	.....	.....	1.58
Bet.Secs. 8 & 9.	N. 0°27'E.	79.78	79.78	.....	.63	.....
E.Bdy.Sec.5.	N. 0°21'E.	79.98	79.98	.....	.49	.....
N.Bdy.T.42S.R.1W.	East	319.60	.....	.....	319.60	.....
E.Bdy.T.42S.R.1W.	South	399.65	.....	399.65	.....	.....
E.Bdy.T.42S.R.1W.	S. 0°31'W.	40.59	.....	40.59	.....	.37
E.Bdy.T.42S.R.1W.	S. 0°34'W.	40.13	.....	40.13	.....	.40
S.Bdy.T.42S.R.1W.	N.89°39'W.	80.16	.49	.....	.....	80.16
Convergency					.27	
			480.60	481.17	322.74	322.78
				480.60		322.74
Error in latitude				.57		
Error in departure						.04

GENERAL DESCRIPTION.

This township is exceptionally rough and rugged, especially in the area covered by the original surveys, except on top of the long tongue or point of land extending in a southerly direction from the N. bdy., which comprises the southern portion of what is locally known as Brigham Plain, where the land is gently rolling, affording good grazing and possibly dry farming. This area is embraced in sec. 2 and the eastern portion of sec. 3. The narrow top of mesa in secs. 10 and 15, while it affords fair grazing, is not adapted to dry farming, the soil being shallow, with sandstone close to the surface.

Paria River, a stream averaging 50 lks. in width and 6 ins. deep at this season of the year with usually clear water, but impregnated with alkali and gypsum, enters the twp. in a canon near the cor. of secs. 4 and 5, on the N. bdy. of the twp. and flows in a southerly direction,

bordered with red sandstone until it reaches the line bet. secs. 16 and 21, where the land on the east opens out. The land on the west of the river starts to open out near the line bet. secs. 9 and 16. There are several strips of farming land to be found in this canon bottom.

The coal stratum is in the lower gray ledges and outcroppings may be found in numerous places in secs. 15,16, 22,23,24,25, and 26, and also in some of the secs. not included in this survey.

The timber is scrub cedar and pinon, and is found only on top of Brigham Plain and the breaks therefrom. Cottonwood trees are found along Paria River. This river affords the only water in the twp.

Generally the land has a southern exposure, and is of a sandstone formation, and may be classed as grazing land.

There are no settlers in the portion of the twp. coming under this survey. There is no indication of mineral in the twp., other than the coal referred to in a preceding paragraph.

Jos. C. Thoma

U. S. Surveyor.

4—650

[illegible] A-433

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Walter Byergo	Chainman.
Dallin Southworth	Chainman.
H. F. Elliott	Chainman.
E. Leavitt	Chainman.
A. Drinen	Flagman.
D. H. Bemis	Flagman.
Arnold R. Smoot	Cornerman.

CERTIFICATE OF UNITED STATES SURVEYOR.

AND TRANSITMAN.

We ~~I~~ Jos. C. Thoma, _____, U. S. Surveyor, and Wm. R. Johnston, U.S.Tran hereby certify upon honor that, in pursuanc of special instructions received from the U. S. Surveyor General for Utah _____ bearing date of the first day of February, 1916, We have well, faithfully, and trul in our ~~my~~ own proper persons and in strict conformity with said instructions, the Manual of Surveying Instru tions, and the laws of the United States, surveyed all those parts or portions of a portion of the Subdivision, the Survey and resurvey of the N. bdy., the resurvey of a portion of the subdivision, the resurvey and survey of the Salt Lake Meridian forming the E. bdy. of T. 42 S., R. 1 West and the re tracement and resurvey of a portion of the south boundary of Township No. 42 South, Range No.1 West _____ of the Salt Lake Base and _____ Meridian, in the State of Utah _____, which are represented i an l date diagram page 1 on dates shown on said diagram the foregoing field notes as having been executed by ~~me~~ us, and under ~~my~~ our direction, and that all the corners o said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc tions, 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.

Dated, March 13, 1918.

Dated, April 9, 1919.

Jos. C. Thoma
U. S. Surveyor.

Wm. R. Johnston
U. S Transitman.

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.

BOOK A-433

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FIELD ASSISTANTS.

NAMES.	CAPACITY.

6—2764

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Andrew Nelson, U. S. Surveyor, hereby certify upon honor that, in pursuanc 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 trul in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc tions, and the laws of the United States, ~~surveyed all those parts or portions of~~ made the minor field adjustments of ¼ sec. corners T. 42 S., R. 1 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 that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc- tions, 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, page 1 on dates shown on said diagram

Andrew Nelson
U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 10, 191 9

The foregoing field notes of the ~~survey of~~ retracement and resurvey of a portion of the south boundary; resurvey and survey of the east boundary or Salt Lake Meridian; survey and resurvey of the north boundary; and re- survey and survey of part of the subdivision of Township No. 42 South, Range No. 1 West of the Salt Lake Base and Meridian, Utah;

executed by Jos. C. Thoma, Thos. C. Rathbone, William 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 surveys retracements, resurveys and they describe, are hereby approved.

M. O. Sorensen
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.

BOOK A-433

D.

FIELD NOTES

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

OF THE ~~SURVEY OF THE~~

RETRACEMENT,-RESURVEY AND SURVEY OF THE SOUTH BOUNDARY AND THE SURVEY OT THE EAST AND NORTH BOUNDARIES AND SUBDIVISION OF T. 42 S., R. 2 E.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

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

and

Lyman R. Bolinger, U. S. Transitman.

and Transitman

In the capacity of U. S. Surveyor, under instructions dated February 1, *191*6 *issued by the United States Surveyor General to govern surveys included in Group No.* 42, *which were approved by the Commissioner of the General Land Office,* March 9, *191*6 and under assignment instructions dated May 3, 1917, issued by the Asst. Supervisor of Surveys for Utah.

Survey commenced June 11, *191*7

Survey completed July 11, *191*7

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Examinations Specified

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

B Computations F.B.J. & V.I.F.

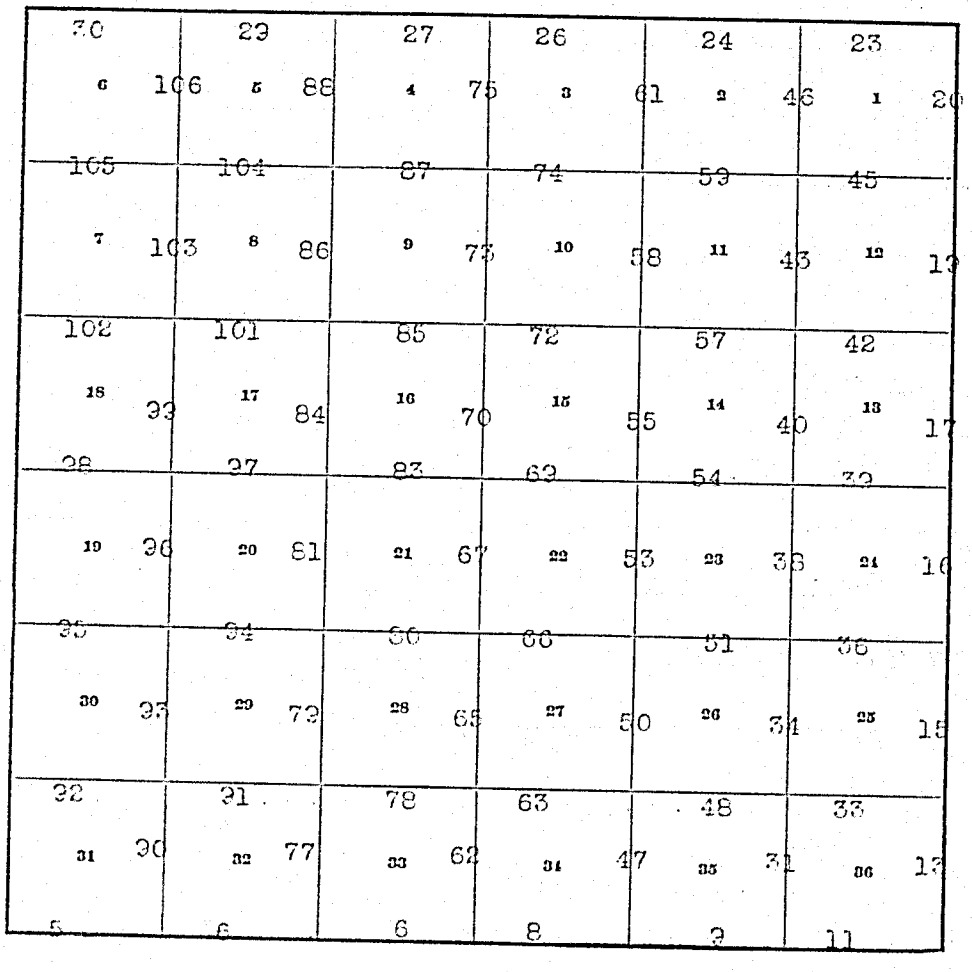
Comparing

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

BOOK A-433

INDEX DIAGRAM.

Township 42 SOUTH, *Range* 2 EAST.



30	29	27	26	24	23
6 106	5 88	4 75	3 61	2 46	1 20
105	104	87	74	59	45
7 103	8 86	9 73	10 58	11 43	12 19
102	101	85	72	57	42
18 99	17 84	16 70	15 55	14 40	13 17
98	97	83	69	54	39
19 96	20 81	21 67	22 53	23 38	24 16
95	94	80	66	51	36
30 93	29 79	28 65	27 50	26 34	25 15
92	91	78	63	48	33
31 90	32 77	33 62	34 47	35 31	36 13
5	6	6	8	9	11

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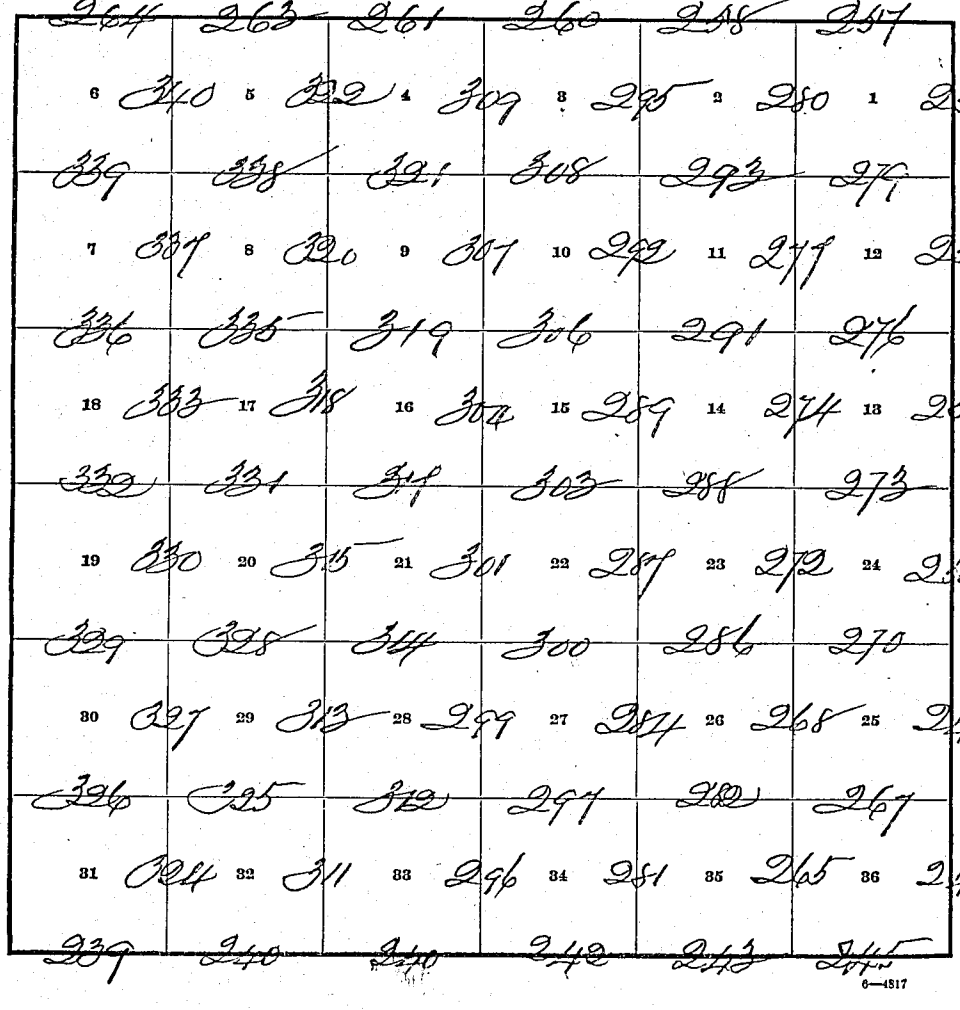
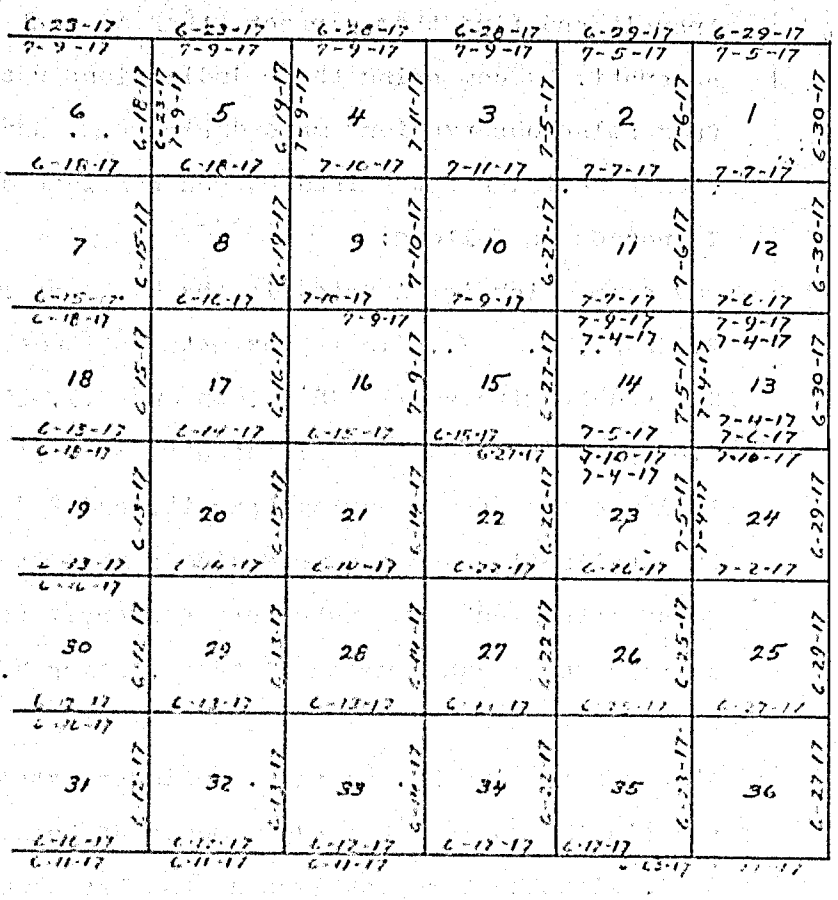
INDEX DIAGRAM.

Township 42 S, Range 2 E



6—4817

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.

Survey commenced June 11, 1917, and executed with W. and L.E.Gurley light mountain transit number 20, memo D., equipped with Burt solar attachment, and Young and Sons light mountain transit number 8564, with Smith solar attachment. The horizontal limbs of both transits are 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 latitude and declination arcs.

The instruments were approved for use on this survey by the Assistant Supervisor of Surveys for Utah, May 3, 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. 21, T. 42 S., R. 2 E., in approximate latitude 37° 03½' N., and longitude 111° 45' W., on June 11, 1917, at 5.00 p.m. apparent time. I set off 37° 03½' N. on the latitude arc of the Gurley transit, and 23° 07½' N. on the declination arc and determine a meridian with the solar attachment and note that a sharply defined point on a ledge about 3 miles distance, bears N. 27° 15' E.

Note;

At the same time Mr. Lyman E. Bolinger, after testing and finding correct the adjustments of transit number 8584, 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 meridian determined by me.

June 12, 1917, with the Gurley transit at the same place as in the observations of previous day, at 2:13 a.m. by my watch, which carries correct l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark the line thus determined by marking a cross with a pencil on a firmly set stake about 15.00 chs. dist. N. At 5:30 a.m. I lay off the azimuth of Polaris, 1° 25½' to the left, and mark the true meridian thus determined by a tack in a stake set about 15.00 chs. dist. N. From the meridian thus determined I observe that the sharply defined point on the ledge about 3 miles dist., bears 27° 15' E. of N.

June 12, 1917, with the Gurley transit at the Polaris statio
I set off 37° 03½' N. on the latitude arc and 23° 0[illegible]' N.

on the declination arc and determine a meridian with the solar apparatus, which meridian agrees with the Polaris meridian. Observation made at 7h 0m a.m.

Note;

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

At apparent noon, at the ¼ cor. of secs. 4 and 33 on the south boundary of T. 42 S., R. 2 E., I set off 23° 10'N. on the declination arc. of the Gurley transit and observe the sun in the meridian, June, 12, 1917, with the resulting latitude of 37° 07' N.

At apparent noon, June 12, 1917, Mr. Lyman E. Bolinger, sets off 23° 10' N. on the declination arc. of the Young and Sons. transit at the ¼ cor. of secs. 30 and 31, T. 42 S., R. 2 E., and observes the sun in the meridian, with the resulting latitude of 37° 08'N.

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.

All refractions in declination were corrected for 4000 feet elevation.

The magnetic bearing of the true meridian, at the Polaris station is N. 15° 30' W., on June 12, 1917.

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.

Chains

From the old cor. of T. 42 and 43 S., R. 1 and 2 E., which is a sandstone 10 x 8 x 6 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor-general. I reestablish this cor. as follows,

Set an iron post, 3 ft. long, 3 ins. dia., along side and against old cor., 24 ins. in the ground for the cor. of T. 42 and 43 S., R. 1 and 2 E., with brass cap mkd.,

T 42 S
R 1 E | R 2 E
S 36 | S 31

S 1 | S 6
T 43 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. 8 ft. dist.

East, retracing bet. secs. 6 and 31.

40.00 No trace of the old ¼ cor. can be found. Set temp. point.

80.26 Fall 8 lks. N. of the old cor. of secs. 5, 6, 31 and 32, which is a sandstone, 10 x 6 x 5 ins. above ground, firmly set, mkd. and witnessed as described by the surveyor-general.

I reestablish this cor. as follows,

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

T 42 S R 2 E
S 31 | S 32

S 6 | S 5
T 43 S

1917

Pits impracticable on account of drifting sand.

The bearing of this mile is therefore, S. 89° 57' E., and the dist. is 80.26 chs.

Thence from the reestablished cor.

East retracing between secs. 5 and 32.

40.00 No trace of the old ¼ cor. can be found. Set temp. point

chains	
	and continue East, retracing.
80.00	No trace of the old cor. of secs. 4, 5, 32 and 33, can be found, therefore set. temp. point and continue E. retracing bet. secs. 4 and 33.
120.00	No trace of the old ½ cor. of secs. 4 and 33 can be found, set temp. point and continue E., retracing.
160.00	No trace of the old cor. of secs. 3, 4, 33 and 34, can be found, therefore set. temp. point and continue E., retracing bet. secs. 3 and 34.
202.10	No trace of the old ½ W. C. of secs. 3 and 34 can be found. End. of old survey.

	From the cor. of T. 42 and 43 S., R. 1 and 2 E., S. 89° 57' E., resurveying, bet. secs. 6 and 31.
	Over rolling bench land, desc. gradually over NE. slope, through scattered sagebrush, oose-root, shadscale and grass undergrowth.
26.00	Wash, 50 ft. below Tp. cor., 20 lks. wide, 5 ft. deep, drains NE. Asc. gradually.
40.13	Point midway bet. the cor. of T. 42 and 43 S., R. 1 and 2 E. and the cor. of secs. 5, 6, 31 and 32, 70 ft. above wash.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the restored ¼ cor. of secs. 6 and 31, with brass cap mkd.,
	½ S 31 / S 6 / 1917
	Dig pits, 18 x 18 x 12 ins. E. and W. of the cor., 3 ft. dist.
	Thence over rolling sandy bench land.
80.26	The cor. of secs. 5, 6, 31 and 32, 10 ft. above ¼ cor.
	Land, rolling sandybench, general drainage to the NE.
	Soil, light, red sand and sandy loam, subsoil same.
	Timber, none.
	Undergrowth, scattered sagebrush, oose-root, shadscale and grass.

Retracement, resurvey and survey of the
South bdy. of T. 42 S.,R. 2 E.

Chains	
	East, resurveying, bet. secs. 5 and 32.
	Over rolling sandy bench land, asc. gradually through scattered sagebrush, oose-root, shadscale and grass undergrowth.
40.00	On sandy bench, 50 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. 5 and 32, with brass cap mkd.,
	¼ S 32 / S.5 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Asc. gradually.
80.00	On gentle S. slope, 30 ft. above ¼ cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 4, 5, 32 and 33, with brass cap mkd.,
	T 42 S R 2 E / S 32 | S 33 / S 5 | S 4 / T 43 S 1917
	Pits impracticable on account of drifting sand.
	Land, rolling sandy bench, draining S.
	Soil, ligh, dry, red, sand and sandy loam, subsoil same.
	Timber, none.
	Undergrowth, scattered, sagebrush, oose-boot, shadscale and grass. Scanty grazing.
	East, resurveying, bet. secs. 4 and 33.
	Over rolling sandy bench land, asc. gradually through scattered sagebrush, oose-root, shadscale and grass undergrowth.
8.00	Low ridge, 30 ft. above sec. cor., bears NW. and SE.
	Desc. gradually.
40.00	On rolling E. slope, 40 ft. below ridge.

Chains	
	Set an iron post, 3 ft. long, 1 in. dia., 9 ins. in the ground to bedrock, 17 ins. in a mound of stone, 3 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.
	Desc. gradually over scattered sandstone.
73.50	Top of sandstone ledges, 20 ft. below $\frac{1}{4}$ cor., bear NW. and SE. Desc. abruptly over sandstone ledges.
77.00	Foot of sandstone ledges, 150 ft. below top, bear with top. Desc. gradually.
80.00	In Wahweap wash, 30 ft. below foot of ledges, 1.50 chs. wide, 3 ft. deep, course from NW. to E.
	Impracticable to set cor. in wash, as it would soon wash away, therefore return to,
78.00	On W. side of Wahweap wash, 20 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. 3, 4, 33 and 34, with brass cap mkd.,
	T 42 S R 2 E S 33 | S 34 WC S 4 | S 3 T 43 S 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.
	Land, rolling sandy bench on W. portion, E. portion Wahweap canyon, general drainage to the S. and E.
	Soil, light, dry, red sand and sandy loam, subsoil same. Mixed with sandstone on East. portion of mile.
	Timber, none.
	Undergrowth, scattered sagebrush, oose-root, shadscale and grass. Fair grazing.

Retracement, resurvey and survey of the
South bdy. of T. 42 S., R. 2 E.

Chains	
	East, from true cor. point for secs. 3, 4, 33 and 34.
	Over bottom of Wahweap wash, desc. gradually through scattered sagebrush, greasewood and yellow-top undergrowth.
30.31	On account of sandstone wall ahead over which it is impracticable to chain, triangulate as follows, set a point on line, E. at top of wall, and measure a base line, from the W. point, a dist. of 5.00 chs. S., from which point the point on line E. bears N. 69° 10' E. The dist. is then, 5.00 x tan. 69° 10' or 2.62791 = 13.14 chs.
31.00	Leave Wahweap wash, course from W. to SE. Asc. over bank of wash, 10 ft. high, bears NW. and SE. Thence along broken gradual W. slope.
40.00	Point falls on broken bank of Wahweap, on unsafe ground.
41.40	At base of sandstone wall, bears SE. and NW. 30 ft. above wash,
	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. 3 and 34, with brass cap mkd., WC ¼ S 34 / S 3 / 1917
	from which,
	An x mark on sandstone wall, bears N. 15° E., 15 lks. dist., mkd., W C ¼ S 34 B O.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the W C.
	Thence asc. abruptly over sandstone wall.
43.45	Triangulation point at top of sandstone wall and sandstone spur, 150 ft. above W. C., projects SE. Desc. abruptly.
53.00	Ravine, 100 ft. below spur, course S. Asc. abruptly.
78.00	Rim of bench, 200 ft. above ravine, bears N. and S. Thence over broken bench.
80.00	On bench, near rim, 200 ft. above ravine,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in

Chains	
	the ground for the cor. of secs. 2, 3, 34 and 35, with brass cap mkd.,
	T 42 S R 2 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, broken benches and canyon bottom, sandstone ledges, general drainage to the E. and S.
	Soil, light, dry, sand and sandy loam, subsoil same. Sand stone outcroppings throughout mile.
	Timber, none.
	Undergrowth, scattered sagebrush, greasewood and yellow-top. Very poor grazing.
	East, on true line, bet. secs. 2 and 35.
	Over broken sandy bench land, through scattered sagebrush, goose-root and shadscale undergrowth. Desc. gradually.
20.00	Wash, 100 ft. below sec. cor., 20 lks. wide, 3 ft. deep, drains S. Asc. gradually.
32.30	Spur, 130 ft. above wash, projects SW. Desc. gradually.
37.00	Ravine, 130 ft. below spur, course SW. Asc. gradually.
40.00	On S. slope of clay hill, 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. 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 cor.
	Asc. gradually over clay and sandstone foothills of W. slope of high mountain.
48.00	Base of high sandstone ledges, bear N. 10° W. and S. 10° E.

Retacement, resurvey and survey of the S. bdy. of T. 42 S., R. 2 E.

Chains	
	It is impossible to chain over the high ledges, therefore triangulate as follows, set a point on line, E. at top of rim of ledges, and from the latter point, measure a base line, N. 16° W., a dist. of 7.34 chs. from which point the angle between the ¼ cor. of secs. 2 and 35, and the point on line E. is 77° 14'. The dist. is then, log. 7.34 + log.sin.77° 14' - log.sin. 28° 46' = .865696 + 9.989128 - 9.682365 = 1.172459 = antilog. = 14.88 chs.
54.88	Triangulation point on steep W. slope of mountain. Asc. abruptly over sandstone ledges, bear N. and S.
58.10	Main ridge, 630 ft. above ¼ cor., bears N. and S. Desc. abruptly over sandstone ledges, bear with ridge.
73.54	On narrow sandstone bench, 210 ft. below ridge, Set a sandstone 24 x 6 x 6 ins., on bare sandstone bedrock, 18 ins. in a mound of stone, 3 ft. base, for a W. C. to the cor. of secs. 1, 2, 35 and 36, mkd. W C on NE, face, 5 notches on W. and 1 notch on E. edge. Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.
74.74	Brink of mountain and top of ledges over which it is impossible to chain, therefore offset N. a dist. of 1.90 chs., thence E. on offset line along N. edge of ledges.
80.00	Impossible to get to true line on account of point falling on side of steep sandstone and shale ledges, therefore at this point on offset line, At N. edge of high sandstone ledges, bear SW. and SE. 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. 1, 2, 35 and 36, with brass cap mkd.,

T 42 S R 2 E

S 35	S 36
S 2	S 1

T 43 S

W.C.

1317

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, broken foothills and rough, sandstone ledgy mountainous, general drainage to the S.
	Soil, sandy, clay loam, on west portion of mile, subsoil same, east portion, shallow sandy clay on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered sagebrush, oose-root, and shadscale. No grazing.
	From the W. C. to the cor. of secs. 1, 2, 35 and 36, 1.90 chs. N. of the true cor. point:
	East, on offset line, bet. secs. 1 and 36.
	Over rough mountainous land, through scattered shadscale, mountain rush, sagebrush and grass undergrowth.
,20	Rocky ravine, level with W. C., course SW. Asc. abruptly over sandstone ledges.
2.35	Offset S. a dist. of 1.90 chs. to true line, at this point,
	On E. rim of ravine at top of sandstone ledges, bear NW. and SE.
	Set an sandstone, 30 x 12 x 6 ins., 23 ins. in the ground for a W. C. to the cor. of secs. 1, 2, 35 and 36, mkd. W. C. on the NE. face and 5 notches on the W. and 1 notch on the E. edges.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W.C.
	Asc. abruptly over ledgy W. slope, on true line.
4.20	Sandstone spur, 100 ft. above W. C., projects SW. Desc. abruptly over sandstone ledges, bear with spur.
9.10	Rocky ravine, 40 ft. below spur, course SW. Asc. abruptly over high sandstone ledges.
21.45	Point of sandstone spur, 260 ft. above ravine, projects SW. Desc. abruptly over sandstone ledges, bear with spur.

Chains	
29.00	Rocky sandstone ravine, 140 ft. below spur, course S. 50° W. Asc. over high sandstone ledges, bear N. and S.
38.00	Rocky sandstone ridge, 240 ft. above ravine, bears N. 20° W. and S. 20° E. Desc. abrupt E. slope of ridge.
40.00	On rocky E. slope of ridge, 60 ft. below top, 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. 1 and 36, with brass cap mkd.,

¼ S 36 ✓
S 1
1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
Desc. abruptly from ¼ cor. over steep E. slope.

43.60	Sandstone box canyon, 180 ft. below ¼ cor., course NE. Asc. abruptly over high sandstone ledges, bear with canyon.
61.30	Sandstone, ridge, 210 ft. above canyon, bears SW. and NE. about 10.00 chs. dist. Desc. abruptly over steep ledgy E. slope.
74.00	Top of rim of sandstone ledges, 200 ft. high, 250 ft. below ridge, bear N. and S. Desc. abruptly over high sandstone ledges.
80.00	On N. side of ravine, 260 ft. below rim of ledges, Set an iron post, 3 ft. long, 3 ins. dia., 8 ins. in the ground to bedrock, 16 ins. in a mound of stone, 6 ft. base, for the cor. of T. 42 and 43 S., R. 2 and 3 E., with brass cap mkd.,

T 42 S
R 2 E | R 3 E
S 36 | S 31
S 1 | S 6
T 43 S

1917

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

Chains	
	Land, rough mountainous, with sandstone ledges, throughout mile, general drainage to the S.
	Soil, shallow, sandy, rocky, clay and clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, sagebrush and grass. Too rough for grazing.
	SURVEY OF THE EAST BDY. OF T. 42 S., R. 2 E.
	From the cor. of T. 42 and 43 S., R. 2 and 3 E., heretofore described.
	North, on true line, bet. secs. 31 and 36.
	Over rough mountainous land, asc. abruptly over high sandstone ledges, through scattered shadscale, mountain rush and grass undergrowth.
	It is impracticable to chain N. from the Tp. cor. therefore, on account of the high sandstone and shale ledges, offset W. a dist. of 6.06 chs. to top of high rim of ledges, 260 ft. above Tp. cor., thence N. on offset line, Asc. over rocky, ledgy SE. slope.
8.20	Rim of point of mountain, 320 ft. above Tp. cor., projects NE. Thence across rocky top of same, desc. gradually.
16.60	N. rim of point of mountain, 40 ft. below S. rim, projects from SW. to NE. Desc. abruptly over sandstone ledges, bear with point of mountain.
21.20	Box canyon, 180 ft. below N. rim, course NE. Asc. abruptly over sandstone ledges, bear E. and W.
28.70	Sandstone spur, 110 ft. above canyon, projects about 2.00 chs. dist. E. Desc. over sandstone ledges, bear with spur.
40.00	Offset E. a dist. of 6.06 chs. to true line, and
	On small flat, at base of mountain, 40 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, 2½ ft. base, for the ¼ cor. of secs. 31 and 36, with

Survey of the East Bdy. of T. 42 S., R. 2 E.

Chains	
	brass cap mkd.,
	$\frac{1}{4}$
	S 36 | S 31.
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the $\frac{1}{4}$ cor.
	Thence asc. gradually over small flat, bears N. 10° W. and S. 10° E.
45.00	Asc. abruptly over sandstone ledges, bear SW. and NE.
49.40	Sandstone spur, 100 ft. above $\frac{1}{4}$ cor., projects SW. about 3.00 chs. dist. Thence asc. along steep ledgy W. slope of mountain.
71.80	Sandstone and shale spur, 220 ft. above spur, projects S. 30° W. about 5.00 chs. dist. Desc. abruptly.
74.30	Sandstone and shale box ravine, 60 ft. below spur, course S. 70° W. Asc. abruptly over sandstone and clay ledges.
80.00	Point falls on steep S. slope of spur, on unsafe ground.
80.40	On top of sandstone and shale spur, projects S. 70° W. about 10.00 chs. dist., 190 ft. above ravine.
	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 W. C. to the cor. of secs. 25, 30, 31 and 36, with brass cap mkd.,
	T. 42 S R 2 E R 3 E S 25 | S 30 S 36 | S 31 W C 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.
	Land, rough mountainous, with sandstone ledges throughout mile, general drainage to the E. and W.
	Soil, shallow, rocky, sandy clay and clay loam, on sandstone and shale bedrock.

Survey of the East. Bdy. of T. 42 S., R. 2 E.

Chains	
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush and grass undergrowth. Too rough for grazing.
	North, on true line, bet. secs. 25 and 30.
	Over rough mountainous land, desc. gradually over broken sandstone and shale ledges, through scattered shadscale, mountain rush, sagebrush and grass undergrowth.
7.80	Ravine, 60 ft. below sec. W. C., course SW. Asc. abruptly over high sandstone ledges on steep SW. slope of high mesa.
22.10	Top of ledges, and rim of high mesa, 460 ft. above ravine, bears E. and S. 80° W. Enter scattered rabbit-brush, and medium dense grass undergrowth, bears with mesa. Thence over rolling mesa top.
40.00	On rolling sandy 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 30, with brass cap mkd., ¼ S 25 | S 30 1917 No stone available for mound, too sandy for pits.
	Continue over rolling mesa top.
53.60	Rim of mesa, level with ½ cor., bears E. and W. Thence desc. abruptly over sandstone ledges, bear with mesa.
60.70	Head of rocky ravine, 70 ft. below mesa, course NE. Asc. over broken sandstone ledges, bear with ravine.
62.60	Sandstone spur, 30 ft. above ravine, projects NE. Desc. abruptly over sandstone ledges, bear with spur.
80.00	On gradual N. slope, 230 ft. below spur, 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. 19, 24, 25 and 30, with brass cap mkd.,

Survey of the E. Bdy. of T. 42 S., R. 2 E.

Chains	
	T 42 S R 2 E R 3 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 and high mesa, general drainage to the NE. and SW.
	Soil, on mesa, deep, sandy loam and sand, subsoil same, on balance of mile, shallow, sandy clay and clay loam, on sandstone bedrock. Imdications of coal along ledges.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, sagebrush rabbit-brush 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 ledges, through scattered mountain rush, greasewood, juniper, sagebrush and grass undergrowth.
5.90	Rocky ravine, 60 ft. below cor., course NE. Asc. over ledges.
11.70	Point of sandstone spur, 30 ft. above ravine, projects NE. about 3.00 chs. dist. Desc. over broken sandstone ledges.
23.20	Main ravine, 40 ft. below spur, course E. Asc. over high sandstone ledges, bear with ravine.
40.00	Point falls on side of sandstone ledges on steep S. slope of mesa, on unsafe ground.
44.80	Top of ledges, and rim of mesa, 280 ft. above ravine, bears E. and W. Thence over rolling mesa, grass becomes thicker, bears with mesa.
44.90	Near rim of mesa, 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.

Chains	
	base, for the W. C. to the ¼ cor. of secs. 19 and 24, with brass cap mkd.,
	S 24 | S 19
	W C
	1917
	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, 10 ft. above ¼ 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. 13, 18, 19 and 24, with brass cap mkd.,
	T 42 S.
	R 2 E | R 3 E
	S 13 | S 18
	S 24 | S 19
	1917
	Raise amound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rough mountainous on S. portion and rolling mesa on N. portion, general drainage to the E. and SW.
	Soil, on mesa, light, dry, sand and sandy loam, subsoil sandy loam. Balance of mile, shallow, sandy, rocky, clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, greasewood, juniper, sagebrush and grass, dense grass on mesa. Good grazing on mesa, fair grazing on rough mountainous land.
	North, on true line, bet. secs. 13 and 18.
	Over broken mesa land, asc. gradually over low sandstone ledges, through scattered shadscale, sagebrush, mountain rush and grass undergrowth.
10.40	Top of ascent, 30 ft. above cor., bears E. and W. Thence

Chains	
	desc. gradually over gentle NW. slope of mesa.
40.00	On NW. slope, 40 ft. below top of ascent, 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. 13 and 18, with brass cap mkd.,

$\frac{1}{4}$

S 13 | S 18

1917

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

Desc. gradually.

40.40	Wash, 10 ft. below $\frac{1}{4}$ cor., 20 lks. wide, 2 ft. deep, drains W. Asc. over broken SW. slope,
58.60	Rocky ridge, 70 ft. above wash, bears NW. and SE. Desc. gradual NE. slope.
59.40	Head of ravine, 10 ft. below ridge, course NW. Asc. gradually.
78.90	Sandstone spur, 20 ft. above ravine, projects NW. Desc. gradually.
80.00	On gradual N. slope, 10 ft. below spur, 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. 7, 12, 13 and 18, with brass cap mkd.,

T 42 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, broken mesa, general drainage to the NW.

Soil, sandy, rocky, gravel, clay loam, on sandstone bedrock and clay subsoil.

Timber, none.

Chains	
	Undergrowth, scattered shadscale, sagebrush, mountain rush, and grass. Fair grazing.
	North, on true line, bet. secs. 7 and 12.
	Over broken mesa land, desc. gradual NE. slope, through scattered sagebrush, shadscale, mountain rush and grass undergrowth.
12.40	Ravine, 20 ft. below cor., course NW. Asc. gradually.
17.40	Sandstone ridge, 80 ft. above ravine, bears NW. and SE. Desc. gradual NE. slope.
20.40	Gulch, 40 ft. below ridge, course SW. Asc. over broken sandstone ledges, bear NW. and SE.
31.40	Sandstone spur, 80 ft. above gulch, projects NW. Desc. gradually.
40.00	On gradual NE. slope, 80 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. 7 and 12, with brass cap mkd.,
	$\frac{1}{4}$ S 12 | S 7 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Desc. gradually.
50.40	Swale, 20 ft. below $\frac{1}{4}$ cor., drains NW. Asc. gradually.
59.90	Top of ascent, 30 ft. above swale, bears NW. and SE.
	Thence over rolling mesa.
80.00	At foot of sandstone ledges, level with top of ascent, bear NW. and SE.,
	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. 1, 6, 7 and 12, with brass cap mkd.,
	T. 42 S. R 2 E | R 3 E S 1 | S 6 S12 | S 7 1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, broken, rocky mesa, general drainage to the NW.
	Soil, shallow, light, dry, sandy loam, on sandstone bedrock and sandy clay subsoil.
	Timber, none.
	Undergrowth, scattered sagebrush, shadscale, mountain rus and grass. Fair grazing.
	North, on true line, bet. secs. 1 and 6.
	Over rocky broken mesa land, asc. abruptly through scattered sagebrush, mountain rush, shadscale, and grass undergrowth.
7.40	Sandstone ridge, 80 ft. above cor., bears NW. and S. 70° E. Divide between Nipple and Tibbet canyons. Desc. gradually.
14.40	Head of gulch, 20 ft. below ridge, course NE. Asc.
18.40	Spur, 50 ft. above gulch, projects NE. Desc. gradually.
27.40	Wash, 30 ft. below spur, 20 lks. wide, 4 ft. deep, drains NE. Asc. over broken sandstone ledges.
30.40	Sandstone spur, 80 ft. above wash, projects NE. Desc. abrupt NE. slope.
40.00	On NE. slope, 120 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 ¼ cor. of secs. 1 and 6, with brass cap mkd.,
	¼ S 1 | S 6 1917
	Raise a mound ofstone, 2 ft. base, 1½ ft. high, west of the cor.
	Desc. abruptly over broken sandstone ledges, bear NE. and SW.
46.40	Gulch, 30 ft. below ¼ cor., course NE. Asc. abruptly oversandstone ledges, bear with gulch.
56.40	Sandstone spur, 130 ft. above gulch, projects NE. Desc.

Survey of the East Bdy. of T. 42 S., R. 2 E.

Chains.
60.40 Foot of descent, 120 ft. below top of spur, bears with spur, thence over rolling basin, drains NE.

Desc. gradually.

83.76 Intersect the random N. bdy. of the Tp. 24 lks. W. of the temp. cor. of Tps. 41 and 42 S., Rs. 2 and 3 E.

At intersection, 50 ft. below foot of descent.

Set an iron post, 3 ft. long, 3 ins. dia., 10 ins. in the ground to bed rock, 14 ins. in a mound of stone, 3 ft. base, for the cor. of Tps. 41 and 42 S., Rs. 2 and 3 E., with brass cap mkd.

T 41 S
R 2 E | R 3 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, rocky, broken mesa; general drainage to the NE.

Soil, shallow, light, dry, sandy, gravelly, rocky loam; subsoil, same.

No timber.

Undergrowth, scattered sagebrush, mountain rush, shadscale and grass. Fair grazing.

SURVEY OF THE NORTH BDY. OF T. 42 S., R. 2 E.

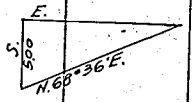
It is impossible to project this line E. from either the witness corner or the true corner point for Tps. 41 and 42 S., Rs. 1 and 2 E., on account of high sandstone ledges; therefore, to get the line past the ledges, proceed to the ¼ sec. cor. of secs. 1 and 6, which corner is 43.50 chs. S. of the true cor. point for the corner of Tps. 41 and 42 S., Rs. 1 and 2 E.

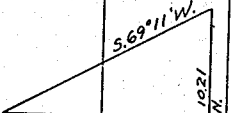
Thence

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

Survey of the N. Bdy. of T. 42 S., R. 2 E.

Chains.	
39.72	Offset N. a distance of 43.50 chs. to random line, and set temp. point for the ¼ sec. cor. of secs. 6 and 31. Thence East on random line, setting temp. point every 40.00 chs., counting distances from the temp. ¼ sec. cor. of secs. 6 and 31.
159.72	It is impracticable to chain E. from this point, on account of high sandstone ledges; therefore triangulate as follows: Set a point on line E. at top of ledges, then from the 159.72 chs. point, measure a base line S. a distance of 5.00 chs., from which point the point on line east bears N. 68° 36' E. It was impossible to get longer base on account of ledges. The distance is then, 5.00 x tan. 68° 36' or 2.55170 = 12.76 chs.
172.48	Triangulation point. It is impossible to chain E. from this point, on account of high sandstone ledges; therefore triangulate as follows: Set a flag on line E. at top of ledges, and from the latter point run the following traverse, as it is impossible to get base line otherwise, on account of high ledges: N. 22° 45' E. a distance of 5.00 chs., thence N. 0° 07' W., a distance of 4.50 chs., thence N. 60° 09' W. a distance of 2.21 chs. to a point which is 10.21 chs. N. of the initial point on line. From the N. point the flag set on line W., bears S. 69° 11' W.; the distance is then: 10.21 x tan. 69° 11' or 2.63021 = 26.85 chs. It was impossible to get a longer base line on account of sandstone ledges.
199.33	Eriangulation point.
479.72	Set temp. cor. for Tps. 41 and 42 S., Rs. 2 and 3 E. For establishment of true cor., and intersection with random E. bdy. of Tp., see page 21 of these notes. Thence,





Chains	
	From the true cor. of Ts. 41 and 42 S., Rs. 2 and 3 E. heretofore described,
	West, on true line, bet. secs. 1 and 36.
	Over broken mesa land, through scattered shadscale, sage-brush, mountain rush, greasewood and grass undergrowth.
26.80	Asc. abruptly over sandstone ledges, bear NW. and SE.
29.80	Top of ledges and edges of spur, 80 ft. above cor., bears NW. and SE. Asc. gradually.
31.50	Top of same spur, 90 ft. above cor., projects about 8.00 chs. dist. N. 10° E. From this point Nipple Butte bears S. 57½° W. Desc. gradually.
34.70	Head of box gulch, 20 ft. below spur, course NE. Thence asc. gradually.
40.00	On gentle E. slope, 10 ft. above head of gulch, 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. 1, and 36, with brass cap mkd.,
	¼ S 36 / S 1 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Asc. gradual E. slope of ridge.
41.80	Ridge, divide between Nipple and Tibbet canyons, 10 ft. above ½ cor., bears N. and SW. Desc. gradually, over broken sandstone ledges, bear with ridge.
62.80	Head of gulch, 80 ft. below ridge, course NW. Asc. over broken sandstone ledges.
68.80	Top of ascent and rim of mesa, 40 ft. above head of gulch, bears N. and S. Desc. abruptly over sandstone ledges, bear N. and S.
80.00	On S. side of gulch, 30 ft. below mesa, 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. 35, 36, 1 and 2, with brass cap mkd.,

Survey of the North bdy. of T. 42 S., R. 2 E.

Chains	
	T 41 S R 2 E S 35 | S 36 S 2 | S 1 T 42 S 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 NE. and SW.
	Soil, shallow, sandy, rocky. gravel clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, sagebrush, greasewood, mountain rush and grass. Fair grazing.
	West, on true line, bet. secs. 2 and 35,
	Over rough, broken mesa land, desc. gradually through scattered shadscale, mountain rush, greasewood, sagebrush and grass undergrowth.
12.80	Trail, bears NE. and SW.
14.30	Gulch, 20 ft. below cor., course SW. Asc. over broken sandstone ledges.
21.80	Sandstone spur, 60 ft. above gulch, projects S., about 3.00 chs. dist. Desc. abruptly over sandstone ledges, bear NW. and SE.
38.80	Gulch near head of Nipple canyon, 120 ft. below spur, course S. Asc. gradually.
40.00	On gentle E. slope, 20 ft. above gulch,
	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. 2 and 35, with brass cap mkd
	½ S 35 / S 2 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.

Chains	
	From this cor. Nipple spring bears S. 11.00 chs. dist., and W. 2.60 chs. dist. The spring is pure, cold, slightly iron water, and flows about 10 gallons per minute. The spring is in Nipple canyon and is easily accessible to stock. There are cottonwood trees in the canyon, both above and below spring.
	Nipple butte bears S. 74½° E., from the ¼ cor.
	Asc. abruptly over sandstone ledges.
41.80	Top of ledges and rim of mesa, 50 ft. above ½ cor., bears N. and S. Thence over rolling mesa top.
66.80	Trail, bears NW. to Wahweap canyon and SE. to Nipple spring.
68.80	Rim of mesa, bears N. and S. Desc. abruptly over sandstone ledges, bear N. and S.
69.90	W. fork of Nipple canyon, dry, 150 ft. below mesa, course S. Cottonwood trees along canyon bottom, A small dripping spring bears N. about 10.00 chs. dist., in bottom of canyon. Asc. abruptly over sandston e ledges.
78.50	Top of ledges and rim of mesa, 170 ft. above canyon, bears NE. and SW. Thence over broken mesa. Enter scattered cedar and pinon timber, bears with mesa.
80.00	At head of box canyon, level with top of ledges, course S. 70° E.,
	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. 2, 3, 34 and 35, with brass cap mkd.,

T 41 S R 2 E

S 34	S 35
S 3	S 2

T 42 S

1917

From which,

A lone cedar, 6 ins. dia., bears N. 10° E., 132 lks. dist., mkd., T. 41 S R 2 E S 35 B T.

No other bearing trees available, therefore raise a

Chains	
	mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling and broken mesa, general drainage to the S
	Soil, light, brown, shallow, rocky sandy loam, on sandstone bedrock.
	Timber, few scattered cedar and pinon trees toward W. en of mile.
	Undergrowth, scattered shadscale, mountain rush, greasewood, sagebrush and grass. Fair grazing.
	West, on true line, bet. secs. 3 and 34.
	Over broken mesa land, asc. gradually through scattered cedar and pinon timber and scattered shadscale, greasewood, mountain rush, service-berry, sagebrush and grass undergrowth.
3.20	Low spur, 30 ft. above sec. cor., projects SE. Desc. gradual SW. slope.
6.80	Ravine, 20 ft. below spur, course SE. Asc. gradually.
29.80	Spur, 30 ft. above ravine, projects NE. Desc. gradually.
40.00	On gradual NW. 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 ¼ cor. of secs. 3 and 34, with brass cap mkd.,
	¼ S 34 / S 3 / 1917
	From which,
	A pinon, 12 ins. dia., bears N. 72° W., 92 lks. dist., mkd., ¼ S 34 B T.
	A pinon, 12 ins. dia., bears S. 33° E., 122 lks. dist., mkd., ¼ S 3 B T.
	Desc. gradually.
40.80	Head of gulch, 10 ft. below ¼ cor., course NE. Asc. more abruptly over SE. slope.
69.80	Ridge, 80 ft. above gulch, bears NE. and SW. Desc.

Chains	
	gradual NW. slope.
75.80	Gulch, 30 ft. below ridge, course NE. Asc. abruptly over sandstone ledges, bear N. and S.
77.30	Point of ledges, 80 ft. above gulch, projects S. Desc. abrupt W. slope of ledges.
80.00	On SE. base of sandstone ridge, 60 ft. below point of ledges, 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. 3, 4, 33 and 34, with brass cap mkd.,

T.41 S.R 2 E

S 33	S 34
S 4	S 3

T 42 S

1917

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

Land,rough brokenmesa, general drainage to the NE. and SE.

Soil, shallow, light, sand and sandy loam, on sandstone bedrock, and mixed with sandstone on the surface.

Timber, scattered cedar and pinon.

Undergrowth, scattered shadscale, greasewood, mountain rush, service-berry, sagebrush and grass. Fair grazing.

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

Over rough mountainous land, asc. gradually through scattered cedar and pinon timber and scattered sage-brush, service-berry, mountain rush, shadscale and grass undergrowth.

4.80	White sandstone ridge, 30 ft. above sec.cor., bears NE. and SW. Desc. abruptly over sandstone ledges, bear NE. and SW.
9.80	Rocky ravine, 80 ft. below ridge, course NE. Asc. abruptly over sandstone ledges.

Chains	
40.00	On top of main ridge, bears N. and SE., divide betweem Wahweap and Nipple canyon, 100 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, 2½ ft. base, for the ¼ cor. of secs. 4 and 33, with brass cap mkd.,
	¼ S 33 / S 4 1917
	From which,
	A cedar, 10 ins. dia., bears N. 25° E., 68 lks. dist., mkd., ¼ S 33 B T.
	A cedar, 12 ins. dia., bears S. 5° W., 24 lks. dist., mkd., ¼ S 4 B T.
40.15	Triangulation point on W. edge of ridge, level with ¼ cor., bears N. and SE. Desc. abruptly over high sandstone ledges over which it is impracticable to chain.
67.00	Triangulation point on rim of ledges, bear N. and SE. Continue abrupt descent over high sandstone ledges, over which it is impracticable to chain. Leave timber.
79.76	Triangulation point at base of high sandstoneledges, 1010 ft. below ¼ cor., bears N. and S. Thence over gradual W. slope.
80.00	On gentle W. slope at base of high mountain, 1020 ft. below ¼ cor.,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 4, 5, 32 and 33, with brass cap mkd.,
	T 41 S R 2 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.

Chains	
	Land, rough mountainous, with numerous high sandstone ledges, general drainage to the E. and W.
	Soil, rocky, sandy loose loam, on sandstone bedrock.
	Timber, scattered cedar and pinon on E. portion of mile.
	Undergrowth, scattered sagebrush, service-berry, mountain rush, shadscale and grass. Poor grazing.
	West, on true line, bet. secs. 5 and 32.
	Over rolling canyon bottom, desc. gradually through scattered shadscale and sagebrush undergrowth.
25.80	E. bank of Wahweap wash, bears N. and S. Desc. over clay bank 10 ft. high, thence across wash bottom,
28.80	Wahweap creek in wash, dry, 50 ft. below sec. cor., course S. Continue over wash bottom.
31.80	Top of clay bank 6 ft. high, and W. bank of Wahweap wash, bears N. and S. Asc. gradual E. slope.
40.00	On gentle E. slope, 30 ft. above Wahweap creek, 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 5, with brass cap mkd.; S 32 / S 5 1917 Raise amound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Asc. more abruptly over E. slope.
44.80	Spur, 80 ft. above $\frac{1}{4}$ cor., projects SE. Desc. gradually.
49.80	Wash, 20 ft. below spur, 10 lks. wide, 5 ft. deep, course SE. Asc. gradually over gentle NE. slope.
80.00	On gradual NE. slope, 50 ft. above wash, Set an iron post, 3 ft. long, 2 ins. dia., 26 ins. in the ground to rock, for the cor. of secs. 5, 6, 31 and 32, with brass cap mkd., T 41 S / R 2 E / S 31 | S 32 / S 6 | S 5 / T 42 S 1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rolling foot hills and canyon bottom, general drainage to the S.
	Soil, light, brown, sandy, gravel loam, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale and sagebrush. Very poor grazing.
	West, on true line, bet. secs. 6 and 31.
	Over broken mountainous land, asc. gradually through scattered shadscale and sagebrush undergrowth.
5.80	Asc. abruptly over sandstone ledges, bear NE. and SW.
9.80	Top of ledges and rim of bench, 120 ft. above sec. cor., bears NE. and SW. Thence asc. gradually.
39.76	Offset point. Continue W.
40.00	At base of high gray bluffs, 210 ft. above sec. cor., Set an ironpost, 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. 31 and 6, with brass cap mkd.,
	¼ S 31 / S 6 / 1317
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Asc. abruptly over high gray bluffs, bear NE. and SW., over which it is impossible to chain, therefore return to offset line point, at 39.76 chs. thence S. on offset 43.50 chs., thence west on offset line, 43.50 chs. dist. S. of true line. Over rolling bench land at foot of high mountain. Desc. gradually.
71.50	Ravine, 40 ft. below point on offset line, 180 ft. below point on true line, course S. 70° E. Asc. gradually.
79.48	The ¼ cor. of secs. 1 and 6, thence N. 57.68 chs. to the W. C. of T. 41 and 42 S., R. 1 and 2, E., which

Chains.

is 14.19 chs. dist. N. of the true cor. point, 1010 ft. above the $\frac{1}{4}$ cor. of secs. 1 and 6, and 970 ft. above the $\frac{1}{4}$ cor. of secs. 6 and 31,

Land, rough, mountainous, with extremely rugged sandstone ledges and rolling and broken benches; general drainage to the SE.

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

No timber.

Undergrowth, scattered shadscale and sagebrush. Poor grazing.

SUBDIVISION OF T. 42 S., R. 2 E.

From the witness corner to the corner of secs. 1, 2, 35, and 36, heretofore described, which is 1.90 chs. north of the true corner point,

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

Over rough, mountainous land; ascend abruptly over sandstone ledges; through scattered mountain rush, greasewood, sagebrush, shadscale and grass undergrowth.

It is impracticable to chain N. from the W. C., therefore, on account of sandstone ledges, offset 5.26 chs. W. from the W.C., thence N. 0° 01' W. on offset line.

All distances counted from true cor. point for cor. of secs. 1, 2, 35, and 36.

Ascend abruptly along steep E. slope of rocky ravine, draining S.

33.96 Offset E., a distance of 5.26 chs. to true line; thence N. 0° 01' W. on true line; ascend gradually.

40.00 Point falls on unsafe ground on side of sandstone and shale ledges, bearing E. and W. Ascend.

41.42 On sandstone and shale spur, 500 ft. above W.C., 670 ft. above true cor. point, projects W. about 5.00 chs.

Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the

Subdivision of T. 42 S., R. 2 E.

Chains.	
	ground to bed rock, 14 ins. in a mound of stone 2½ ft. base, for the witness ¼ sec. cor. of secs. 35 and 36, with brass cap mkd.
	S 35 | ¼ | S 36 W | C 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high west of cor.
	Descend abruptly over sandstone ledges.
48.10	Rocky ravine, 150 ft. below ¼ sec. cor., course SW. Ascend abruptly over sandstone ledges, bearing with ravine.
59.80	Main ridge, 350 ft. above ravime, bears NE. and SW. On account of sandstone ledges along ravine, over which it is impracticable to chain, offset E. a distance of 1.06 chs., thence N. 0° 01' W. on offset line.
72.70	Head of ledgy ravine, 80 ft. below ridge, course W. drops off very abruptly 1.00 ch. W. of offset line.
74.69	Offset W. a distance of 1.06 chs. to true line; thence N. 0° 01' W. on true line. Ascend over ledges.
75.40	Sandstone spur, 50 ft. above ravine, projects W. Descend abruptly over sandstone ledges, bearing E. and W.
79.28	On steep ledgy north slope, 110 ft. below spur.
	Set an iron post, 3 ft. long, 2 ins. dia., 14 ins. in the ground to bed rock, 10 ins. in a mound of stone 2 ft. base, for witness cor. to cor. of secs. 25, 26, 35, and 36, with brass cap mkd.
	W C T 42 S R 2 E S 26 | S 25 S 35 | S 36 1917
	Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
80.00	Falls on side of ledges, where corner cannot be set, 40 ft. below W.C. point.
	Land, rough, mountainous, with sandstone and shale ledges throughout mile; general drainage to the S. and W.
	Soil, shallow, sandy, rocky, clay loam, on sandstone bed rock.
	No timber.

Chains	
	Undergrowth, scattered mountain rush, greasewood, sage-brush, shadscale, and grass. Too rough for grazing.
	East, on random line, bet. secs. 25 and 36, from true cor. point.
	Line passes over sandstone ledges over which it is impracticable to chain, therefore triangulate as follows, set a point on line, E. at top of ledges, then from the latter point observe that the flag set 27.23 chs. N. of the true cor. point for secs. 25, 26, 35 and 36, makes an angle of 54° 22' with the sec. cor. point, the dist. is then,
	27.23 x cotan. 54° 22' or .71681 = 19.56 chs.
19.56	Triangulation point.
40.00	Set temp. point for ¼ cor.
47.83	Top of ledges over which it is impossible to chain, then triangulate as follows, offset 9 lks. S. to a point W. of the cor. of secs. 25, 30, 31 and 36, from which point the ¼ cor. of secs. 31 and 36 makes an angle of 51° 12' with the sec. cor. point, the dist. is then,
	40.00 x cotan. 51° 12' or .80402 = 32.16 chs.
72.99	On true random line, intersect the E. bdy. of the Tp. 3 lks. N. of the true point for the cor. of secs. 25, 30, 31 and 36, or 31 lks. S. of the W.C., heretofore described.
	Thence, from true cor. point.
	N. 89°56' W., on true line, bet. secs. 25 and 36.
	Over rough mountainous land, desc. abruptly over sandstone and shale ledges, on steep W. slope, through scattered shadscale, mountain rush, and grass undergrowth.
7.80	Rocky steep ravine, 290 ft. below sec. cor. point, course S. 30° W. Asc. abruptly over high steep sandstone and shale ledges over which it is impossible to chain, bear with ravine.
32.16	Triangulation point at top of ledges and rim of high mesa,

Chains	
	680 ft. above ravine, bears N. 60° E., and S. 60° W.
	Thence over rolling mesa top. Grass becomes thicker.
39.99½	On rolling mesa, 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. 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 cor.
	Continue over rolling mesa top.
60.43	Triangulation point at top of ledges and rim of mesa, level with ¼ cor., bears N. and S. Desc. abruptly over high, steep sandstone ledges, over which it is impossible to chain.
79.99	The true cor. point for the cor. of secs. 26, 25, 35 and 36, 410 ft. below mesa.
	Land, rough mountainous with sandstone ledges, and rolling high mesa top, general drainage to the S. and NW.
	Soil, rocky, sandy clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush and grass good grazing on mesa, balance of mile too rough.

N. 0° 01' W., on true line, bet. secs. 25 and 26.

Over rough mountainous land, desc. abruptly from true cor. point over sandstone and shale ledges through scattered mountain rush, rabbit-brush, greasewood, shadscale and grass undergrowth.

Line passes over sandstone ledges over which it is impracticable to chain therefore triangulate as follows, set a point on line N., and from the true point for the cor. of secs. 25, 26, 35 and 36, measure a base line, W. a dist. of 7.65 chs., from which point the N. point

Subdivision of T. 42 S., R. 2 E.

Chains	
	makes an angle of 72° 55½' with the true cor. point for secs. 25, 26, 35 and 36. It was impossible to get a longer base on account of sandstone ledges. The dist. is then, 7.65 x tan. 72° 55½' or 3.25560 = 24.91 chs.
24.91	Triangulation point, in rocky ravine, 400 ft. below true cor. point, course W. Asc. over broken sandstone ledges, bear with ravine. Offset W. ¾ lk. dist.
	Thence N. 0°01'W.
27.30	Rocky spur, 50 ft. above ravine, projects W. Desc. gradual N. rocky slope.
36.70	Wash in rocky ravine, 30 ft. below spur, 20 lks. wide, 3 ft. deep, drains W. Asc. abruptly over sandstone ledges, bear with ravine.
40.00	On rocky S. slope 140 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, 2½ ft. base, for the ¼ cor. of secs. 25 and 26, with brass cap mkd.,
	¼ | S 26 | S 25 | 1317
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Continue abrupt ascent over rocky S. slope of spur.
42.70	Rocky spur, 100 ft. above ¼ cor., projects W. Desc. gradually over N. slope.
45.20	Desc. abruptly over sandstone ledges, bear with spur.
48.50	Rocky ravine, 130 ft. below spur, course W. Heads about 5.00 chs. dist., E. Asc. abruptly over sandstone ledges, bear with ravine.
54.30	Sandstone spur, 140 ft. above ravine, projects W. about 10.00 chs. dist. Desc. abruptly over sandstone ledges.
56.00	Set flag ¾ lk. W. of line.
63.10	Rocky ravine, 210 ft. below spur, course S. 60° W. Asc. abruptly over high sandstone ledges bear NE. and SW.

Subdivision of T. 42 S., R. 2 E.

Chains	
80.00	Point falls on side of sandstone ledges, where cor. cann be set. Continue abrupt ascent.
80.51	On steep SE. slope at top of sandstone ledge, 10 ft. hig bears NE. and SW., 500 ft. above ravine, Set a sandstone 30 x 12 x 10 ins., 26 ins. in the ground for the W. C. to the cor. of secs. 23, 24, 25 and 26, mkd., 2 notches on the S., 1 notch on the E., and WC on the NE. face. No iron post, was available for this cor. Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.
	Land, rough mountainous with sandstone ledges throughout mile, general drainage to the W.
	Soil, shallow, rocky, sandy clay, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, rabbit-brush, greas wood, shadscale and grass.

	S. 89° 56' E., on random line, bet. secs. 24 and 25. It is impossible to chain E. from the sec. cor., therefor on account of high sandstone ledges, triangulate as follows, set a point at top of ledges, E. from the true cor. point for secs. 23, 24, 25 and 26, from which point the flag 24.00 chs. dist. S. of the true cor. point bears S. 43° 48' W., the dist. is then, 24.00 x tan. 43° 48' or .95897 = 23.02 chs.
23.02	Triangulation point, offset S. 3 lks. dist. thence S. 89° 56' E., on random line.
40.00	Set temp. point for ¼ cor.
69.30	Impracticable to chain farther on account of sandstone ledges, therefore triangulate as follows, observe that the cor. of secs. 19, 24, 25 and 30 bears N. 89° 08' E., corresponding to a falling of 16 lks. S. on random line. Set a point S. of the sec. cor., E. of the 69.30 chs. point and from this latter point measure a base line,

Chains	
	N. a dist. of 7.47 chs., from which point the angle bet. the E. and W. triangulation points is 52° 54', the dist. is then,
	7.47 x tan. 52° 54' or 1.32224 = 9.88 chs.
79.78	Intersect the E. bdy. of the Tp., 16 lks. S. of the cor. of secs. 19, 24, 25 and 30, heretofore described.
	Thence,
	S. 89° 57' W., on true line, bet. secs. 24 and 25.
	Over rough mountainous land, desc. abruptly over sandstone ledges, bear NE. and SW., through scattered shadscale, greasewood and grass undergrowth.
4.00	Rocky ravine, 50 ft. below cor., course N. 20° E., Asc. abruptly over high sandstone ledges, bear N. and S.
9.88	Triangulation point on sandstone ledges, bear N. and S. Continue abrupt ascent over sandstone ledges, bear N. and S.
16.30	Point of rim of mesa, 290 ft. above cor., 340 ft. above ravine, projects N. about 20 lks. dist. Desc. abruptly along NW. rim of mesa, over sandstone ledges.
21.60	Box ravine, 70 ft. below point, course N. 30° E. Heads 2.00 chs. dist. S. Asc. abruptly over sandstone ledges.
22.70	Top of ledges and rim of mesa, 80 ft. above ravine, bears N. 30° E., and S. 30° W. Enter mountain rush, oose-root undergrowth, bear with mesa, grass becomes thicker.
39.89	On mesa top, 20 ft. above top of ledges,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 24 and 25, with brass cap mkd.,
	¼ S 24 / S 25 / 1917
	No stone available for mound, therefore dig pits, 18 x 18 x 12 ins., E. and W. of the ¼ cor., 3 ft. dist.
	Desc. gradually over gentle W. slope of mesa.
56.76	Triangulation point and rim of mesa, 10 ft. below ¼ cor., bears NW. and SE. about 1.00 ch. dist. thence S.

Chains	
	Desc. abruptly over high sandstone ledges, bear with mes
	Leave scattered mountain rush, greasewood and oose-roo undergrowth, bear with mesa.
71.40	Rocky ravine, 400 ft. below mesa, course SW. Asc. abrup over high sandstone ledges, bear with ravine.
79.78	The true cor. point for the cor. of secs. 23, 24, 25 and 26, 51 lks. S. of the W. C., 360 ft. above ravine.
	Land, rough mountainous with sandstone ledges, except middle portion of mile which is rolling mesa, general drainage to the N. and SW.
	Soil, on rough mountainous, shallow, sandy, rocky clay loam, on sandstone bedrock, on mesa, light, sandy clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, oose-root and grass. Good grass on mesa, good grasing on mesa, balance of mile too rough.
	From the true cor. point for secs. 23, 24, 25 and 26.
	N. 0° 01' W., on true line, bet. secs. 23 and 24.
	Over rough mountainous land, asc. abruptly over sandstone ledges, through scattered shadscale and grass undergrow
.51	The W.C. to cor. of secs. 23, 24, 25, and 26.
7.30	Top of ledges and rim of mesa, 180 ft. above true cor. point, bears NE. and SW. Thence over rolling mesa top.
	Enter scattered mountain rush, and greasewood undergrow grass becomes thicker, bear with mesa.
34.10	Top of ledges and rim of mesa, level with S. rim., bears E. and W. Desc. abruptly over high sandstone ledges, bear with mesa.
40.00	On steep N. slope, 120 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. 23 and 24, with brass cap mkd.,

¼

S 23 | S 24

1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the ¼ cor.
	Continue abrupt descent over steep, ledgy N. slope.
66.00	Main canyon, 550 ft. below ¼ cor., course West. Asc. over sandstone ledges, bear E. and W.
75.10	Rocky gulch, 60 ft. above canyon, course SW. Asc. more abruptly over sandstone ledges, bear NE. and SW.
80.00	On rocky steep SE. slope, 150 ft. above gulch, 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. 13, 14, 23 and 24, with brass cap mkd.,

T 42 S R 2 E

S 14	S 13
S 23	S 24

1917

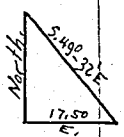
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rough mountain ous and high rolling mesa, general drainage to the W. and SW.
	Soil, on mesa, light, dry, sand and sandy loam, subsoil same. Balance of mile, shallow, rocky sandy clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, greasewood and grass. Good grazing on mesa, Fair grazing on canyon sides toward N. end of mile.
	N. 89° 57' E., on random line, bet. secs. 13 and 24.
40.00	Set temp. point for ¼ cor.
79.79	Intersect the E. bdy. of the Tp. 9 lks. N. of the cor. of secs. 13, 18, 19 and 24, heretofore described.
	Thence,
	N. 89° 59' W., on true line, bet. secs. 13 and 24.
	Over rolling mesa top, desc. gradually through scattered

Chains	
	shadscale, greasewood, mountain rush, juniper, and grass undergrowth.
79.82½	On gentle SW. slope of mesa, 20 ft. below sec. cor., 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. 13 and 24, with brass cap mkd.,
	¼ S 13 / S 24 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Thence over rolling mesa, draining to the SW.
62.29	Set flag ½ lk. N. of line on ledge.
62.40	Rim of mesa and top of ledges, 10 ft. below ¼ cor., bears N. about 2.00 chs. dist. thence N. 70° W. and S. about 2.00 chs. dist., thence S. 70° E. Desc. abruptly over high sandstone ledges bear with mesa.
79.40	Rocky ravine, 440 ft. below mesa, course S. 20° W. Asc. abruptly over sandstone ledges, bear with ravine.
79.79	The cor. of secs. 13, 14, 23 and 24, 20 ft. above ravine.
	Land, rolling mesa top and rough mountainous with samdstone ledges, general drainage to the SW. and SE.
	Soil, on mesa, light, sandy clay loam, on sandy subsoil and sandstone bedrock. Rough mountainous, shallow sandyclay loam on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush juniper and grass. Good grazing on mesa, balance of mile too rough.

	N. 0° 01' W., on true line, bet. secs. 13 and 14.
	It is impracticable to chain N. from this cor., therefore triangulate as follows, set a point N. at top of ledges, from which point the flag 17.50 chs. E. of the cor. of

Chains

secs. 13, 14, 23 and 24 bears S. 49° 32' E., the dist. is then,



17.50 x cotan. 49° 32' or .85308 = 14.93 chs.

Over rough mountainous land, asc. abruptly over high sandstone ledges through scattered shadscale and grass undergrowth.

14.90 Top of ledges and rim of mesa, 340 ft. above cor., bears E. and W. Enter scattered babbit-brush, mountain rush and thicker grass undergrowth, bear with mesa. Thence asc. gradually over rolling S. slope of mesa.

14.93 Triangulation point. Offset ½ lk. W. thence N. 0° 01' W.

40.00 On gentle S. slope of mesa, 20 ft. above top of ledges,

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

42.00 Thence over nearly level mesa, desc. gradual N. slope.

60.00 Leave rolling mesa, bears E. and W., desc. over broken sandstone ledges over broken N. edge of mesa.

80.00 At top of high sandstone ledges along N. edge of mesa, 130 ft. below rolling mesa top,

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. 11, 12, 13 and 14, with brass cap mkd.,

T 42 S R 2 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, rolling and broken mesa and rough mountainous, with

Chains	
	sandstone ledges on the N. and S. ends of mile. General drainage to the N. and S.
	Soil, on mesa, light, dry sand and sandy clay loam, sub-soil same. On N. and S. ends of mile, shallow sandy, rocky clay loam on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, rabbit-brush and grass. Good grazing on mesa, balance of mile too rough.
	S. 89° 59' E., on random line, bet. secs. 12 and 13.
40.00	Set temp. point for ¼ cor.
79.80	Intersect the E. bdy. of the Tp. 12 lks. N. of the cor. of secs. 7, 12, 13 and 18, heretofore described.
	Thence,
	N. 89° 54' W., on true line, bet. secs. 12 and 13.
	Over broken mesa land, desc. over broken sandstone ledges through scattered mountain rush, rabbit-brush, juniper, sagebrush and grass undergrowth.
7.80	Sandstone gulch, 60 ft. below cor., course N. Asc. over sandstone ledges, bear with gulch.
16.70	Sandstone spur, 40 ft. above gulch, projects N. 20° W. about 5.00 chs. dist. Desc. over sandstone ledges.
20.00	Thence desc. gradually over mesa top.
39.90	On nearly level mesa, 70 ft. below spur,
	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.
	Thence over nearly level mesa top, draining to the N.
59.80	Rim of mesa, level with ¼ cor., bears N. and S. Desc.

Subdivision of T. 42 S., R. 2 E.

Chains	
	abruptly over high sandstone ledges, bear N. and S.
67.10	Rocky ravine, 160 ft. below mesa, course NW. Asc. abruptly over sandstone ledges along N. slope of mesa breaks.
79.80	The cor. of secs. 11, 12, 13 and 14, 150 ft. above ravine.
	Land, rolling and broken mesa, except extreme W. portion of mile which is rough mountainous with high sandstone ledges. General drainage to the NW. and N.
	Soil, sandy clay loam and sand, subsoil sandy and rocky clay loam, sandstone bedrock only a few inches below the surface of the ground in numerous places.
	Timber, none.
	Undergrowth, scattered mountain rush, rabbit-brush, juniper, sagebrush and grass. Good grazing except extreme W. portion of mile which is too rough.
	N. 0° 01' W., on true line, bet. secs. 11 and 12.
	Over rough mountainous land, desc. abruptly over high sandstone ledges, bearE. and W., through scattered mountain rush, shadscale, yellow-top, and grass undergrowth.
13.00	Rocky ledgy canyon, 290 ft. below cor., course NW. Asc. abruptly over sandstone ledges on steep SW. slope.
23.50	Sandstone spur, 90 ft. above canyon, projects W. Desc. abruptly over sandstone ledges.
35.50	Rocky canyon, 80 ft. below spur, course SW. Asc. over rocky SE. slope.
40.00	On rocky SE. slope, 40 ft. above canyon,
	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 11 and 12, with brass cap mkd.,
	$\frac{1}{4}$
	S 11 | S 12
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.

Chains

41.74 Edge of small bench, 50 ft. above ¼ cor., bears NE. and SW. On account of high sandstone ledges, over which it is impossible to chain triangulate as follows, set a point on line N. 0° 01' W., at top of ledges and from the 41.74 chs. point measure a base line, N. 89° 59' E., a dist. of 10.00 chs. From the E. end of base line the angle between the two triangulation points on line is 44° 31'. The dist. is then,

10.00 x tan. 44° 31' or .98327 = 9.83 chs.

51.57 Triangulation point at top of ledges and S. edge of rocky ridge, 220 ft. above narrow bench, bears NE. and SW. Thence over flat top of ridge.

58.60 N. rim of ridge, level with S. rim, bears NE. and SW. 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., across canyon and from the 58.60 chs. point measure a base line N. 30° 24' E. a dist. of 19.00 chs., from which point the point on line bears N. 39° 50' W. The dist. is then,

log.19.00 + log.sin.109° 46' + log.sin.39°49' =
1.278754 + 9.973625 + 9.806406 = 1.445973 = antilog.
= 27.92 chs.

86.52 Triangulation point, thence measure S. 0° 01' E., a dist. of 9.61 chs. to

76.91 Canyon, 300 ft. below ridge, course SW. Thence N. 0° 01' W., asc. abruptly over sandstoneledges, bear with canyon.

80.00 On sandstone ledges, 50 ft. above canyon, bear NE. and SW.,

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. 1, 2, 11 and 12, with brass cap mkd.,

T 42 S R 2 E

S 2	S 1
S 11	S 12

1917

Subdivision of T. 42 S., R. 12 E.

Chains	
	Raise amound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rough mountainous with sandstone ledges throughout mile, general drainage to the NW. and SW.
	Soil, shallow, rocky, gravelly sandy loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, yellow-top and grass. Poor grazing.
	S. 89° 54' E., on random line, bet. secs. 1 and 12.
40.00	Set temp. point for ¼ cor.
79.88	Intersect the E. bdy. of the Tp. 5 lks. S. of the cor. of secs. 1, 6, 7, and 12, heretofore described.
	Thence,
	N. 89° 56' W., on true line, bet. secs. 1 and 12.
	Over rocky mesa land along S. foot of rocky ridge, through scattered shadscale, sagebrush, rabbit-brush, mountain rush, juniper and grass undergrowth.
-39.94	At S. base, of small sandstone ledge 6 ft. high, bears E. and W., level with 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. 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.
	Desc. gradual SW. slope of mesa.
48.30	Trail from Nipple canyon to Tibbet and Warm canyons, bears NW. and SE.
57.40	Wash, 60 ft. below ¼ cor., 6 lks. wide, 1 ft. deep, drains NW. Asc. gradually.
64.50	Rim of mesa, 20 ft. above wash, bears NE. and SW. Desc.

Chains	Notes
	abruptly over sandstone ledges bear with [illegible] rim.
72.00	Rocky canyon, 220 ft. below mesa, course SW. Asc. over rocky SE. slope.
73.88	The cor. of secs., 1, 2, 11 and 12, 40 ft. above canyon. Land, rolling and broken mesa and rough mountainous, general drainage to the NW. and SW. Soil, shallow, light, sandy and rocky loam, on sandstone bedrock. Timber, none. Undergrowth, scattered shadscale, sagebrush, rabbit-brush, mountain rush, juniper and grass. Good grazing.
	N. 0°.01' W., on random line, bet. secs. 1 and 2.
40.00	Set temp point for ¼ cor.
83.63	Intersect the N. bdy. of the Tp. 7 lks. E. of the cor. of secs. 1, 2, 35 and 36, heretofore described. Thence, S. 0° 04' E., on true line, bet. secs. 1 and 2. Over broken mesa land, asc. over rocky N. slope through scattered shadscale, mountain rush, sagebrush, rabbit-brush, juniper and grass undergrowth.
9.80	Rocky spur, 30 ft. above sec. cor., projects W. Desc. over rocky S. slope.
15.10	Wash, 70 ft. below spur, 1.00 ch. wide, 1 ft. deep, drains SW. Asc. NW. slope of spur.
20.60	Rocky spur, 80 ft. above wash, projects SW. Desc. over rocky SE. slope.
24.40	Wash, 60 ft. below spur, 20 lks. wide, 3 ft. deep, drains SW. Asc. gradually.
32.60	Rocky spur, 30 ft. above wash, projects NW. about 8.00 chs. dist. Desc. gradual SE. slope.
43.63	On gentle SE. slope, 80 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 2, with brass cap mkd.,

Subdivision of T. 42 S., R. 2 E.

Chains	
	¼ ✓ S 2 | S 1 1917
	No stone available for mound, therefore dig pits, 18 x 18 x 12 ins., N. and S. of the cor. 3 ft. dist.
	Desc. gradual SE. slope.
55.10	Wash, 20 ft. below ¼ cor., 50 lks. wide, 2 ft. deep, drains SW. Asc. gradually.
58.90	Trail from Nipple spring to Tibbet and Warm canyons, bears NW. and SE.
77.11	Triangulation point on mile bet. secs. 11 and 12, at rim of mesa, 40 ft. above wash, bears NE. and SW. Desc. abruptly over sandstone ledges, bear with mesa rim.
83.63	The cor. of secs. 1, 2, 11 and 12, 200 ft. below mesa.
	Land, broken mesa, general drainage to the NW. and SW.
	Soil, rocky, sandy loam, subsoil same and rocky.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, sagebrush, rabbit-brush, juniper and grass. Good grazing.

	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 broken sandy bench land, asc. gradually through scattered mountain rush, greasewood, shadscale, goose-root and grass.
40.00	On gradual W. 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. 34 and 35, with brass cap mkd.,
	¼ ✓ S 34 | S 35 1917
	No stone available for mound, pits impracticable on account of drifting sand.

Subdivision of T. 42 S., R. 2 E.

Chains

Asc. gradually.

58.66 Set flag on edge of sandy bench, 10 ft. above ¼ cor., bears E. and W. Leave all undergrowth except scattered shadscale, bear with bench, Desc. over broken blue cley hills.

80.00 On blue clay hills, 50 ft. below sandy 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 42 S R 2 E

S 27	S 26
S 34	S 35

1917

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

Land, S. portion broken sandy bench, N. portion broken blue clay hills, general drainage to the W. and SW.

Soil, S. portion, light sand and sandy loam, subsoil same, N. portion blue clay with a few sandstone outcroppings, subsoil same.

Timber, none.

Undergrowth, scattered mountain rush, shadscale, greasewood, oose-root and grass. Fair grazing on S. portion of mile, no grazing on N. portion.

East, on random line, bet. secs. 26 and 35.

On account of high sandstone ledges E. over which it is impracticable to chain, triangulate as follows, set a point at top of ledges, 8 lks. dist. S. of random line, it is impossible to set point E., on account of large sandstone, then from a point 21.34 chs. dist. S. of the cor. of secs. 26, 27, 34 and 35, observe the angle between the sec. cor. and the flag or point at top of ledges is 36° 09', the dist. is then,

(21.34 - .08) x tan. 36° 09' or .73055 = 15.53 chs.

Chains	
15.53	Triangulation point, thence N. 8 lks. dist. thence E. on random line.
38.30	Set temp. point for ¼ W. C.
40.00	Falls in ravine where cor. cannot be set.
79.88	Intersect the N. and S. line, 8 lks. N. of true cor. point of secs. 25, 26, 35 and 36.
	Thence, from true cor. point, N. 89° 57' W., on true line, bet. secs. 26 and 35. Over rough mountainous land desc. abruptly over rocky steep N. slope through scattered mountain rush, greasewood, sagebrush, shadscale and grass undergrowth.
7.70	Sandstone spur, 140 ft. below true cor. point, projects NW. Thence desc. abruptly over steep, ledgy SW. slope.
33.10	Rocky ravine, 260 ft. below spur, course NW. Thence over broken bench land.
39.30	Sandstone spur, 20 ft. high, projects NW. about 5.00 chs. dist. Desc. over sandstone ledges.
39.94	Point falls in ravine, 20 ft. below spur, course NW. Impossible to set cor. as it would soon wash out.
40.98	On W. side of ravine, 20 ft. above same, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the W. C. to the ½ cor. of secs. 26 and 35, with brass cap mkd., $\frac{1}{4}\ \frac{S\ 26}{S\ 35}\ WC$ Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Thence asc. over rocky, broken bench land.
64.35	Triangulation point at rim of broken bench, 100 ft. above ¼ W. C., bears N. and S. Desc. abruptly over high sandstone and blue shale ledges. No undergrowth except shadscale.
71.00	Base of ledges, 320 ft. below bench, bear with bench, thence over broken blue clay hills.
79.88	The cor. of secs. 26, 27, 34 and 35, 30 ft. below base of ledges.

Chains	
.	Land, rough and broken mountainous, general drainage to the NW.
	Soil, on E. portion, shallow, sandy clay loam, on sandstone bedrock. On W. portion blue clay, subsoil same.
..	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood, sagebrush and grass. Fair grazing on E. portion,
.	no grazing on W. portion.
	N. 0° 01' W., on true line, bet. secs. 26 and 27.
	Over broken blue clay hills, desc. gradually through scattered shadscale undergrowth.
26.00	Wash in canyon, 20 ft. below sec. cor., 30 lks. wide, 3 ft. deep, drains S. 70° W. Asc. gradually. Enter scattered mountain rush, greasewood and grass undergrowth bear with canyon. Leave blue clay formation and enter sandy, rocky formation, bear with canyon.
30.00	Asc. more abruptly over steep S. slope.
40.00	On S. slope of rocky butte, 200 ft. above wash,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 26 and 27, with brass cap mkd.,
	S 27 | S 26 1317
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Asc. gradually over S. slope.
42.40	Top of ascent and edge of butte, 20 ft. above ¼ cor., bears E. and W. Desc. gradual N. slope.
47.64	Set flag on N. edge of butte, 5 lks. dist. W. of line, 40 ft. below top, bears E. and W. Desc. abruptly over sandstone ledges.
48.30	Narrow canyon, 120 ft. below butte, course SW. Cattle trail in canyon, bears NE. and SW. Asc. abruptly over high sandstone and blue shale ledges, bear NE. and SW.

Chains	
52.80	Rim of spur, 110 ft. above canyon, projects S. 30° W., about 3.00 chs. dist. Thence along E. edge of spur.
65.40	Leave spur, bears NW. and SE. at this point, desc. abruptly over steep clay and shale NE. slope.
67.90	Canyon at bend, 70 ft. below spur, wash in canyon, 30 lks. wide, 2 ft. deep, drains from NE. to SE. Small wash, 10 lks. wide, 2 ft. deep, drains into wash at bend, 20 lks. W. of line, from the NW. Asc. abruptly over steep clay and shale ledges.
78.20	Top of ledges and rim of broken mesa or bench, 160 ft. above canyon wash, bears E. and W. Thence over rocky, broken mesa top.
80.00	On mesa, 20 ft. above Rim of mesa, 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 2 E

S 22	S 23
S 27	S 26

1917

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

Land, rough and broken mountainous, general drainage to the SE. and SW.

Soil, mostly rocky, clay and shale, on subsoil of the same nature, some sandstone outcrops which become more numerous toward the extreme N. portion of mile.

Timber, none.

Undergrowth, scattered shadscale, mountain rush, greasewood and grass. Poor grazing except in canyons, where there is fair grazing.

S. 89° 57' E., on random line, bet. secs. 23 and 26.

It is impracticable to chain E. from this cor. on account

Chains	
	of steep clay and shale slopes into canyon, therefore triangulate as follows, set a point on point of mountai
	E. from which point the flag set at the 43.64 chs. poin
	bet. secs. 26 and 27, 5 lks. W. of line, makes an angle
	46°00' with the sec. cor., the dist. is then,
	36.36 x cotan. 46° 00' or.96569 - (4 lks.) = 35.07 c
35.07	Triangulation point, thence S. 3 lks. dist. thence S. 89° 57' E., on random line.
40.00	Set temp. point for ¼ cor.
79.88	Intersect the N. and S. line, 19 lks. S. of the true point for the cor. of secs. 23, 24, 25 and 26, and 70 lks. S. of the W. C. to the sec. cor.
	Thence, from true cor. point.
	S. 89° 55' W., on true line, bet. secs. 23 and 26.
	Over rough mountainous land, asc. abruptly over high sandstone ledges on steep SE. slope, through scattered shadscale, and grass undergrowth.
7.70	Top of ledges and rim of mesa, 200 ft. above true cor. point, bears N. 60° E. and S. 60° W. Thence over rolling top of mesa, enter scattered mountain rush, rabbit-brush and better grass undergrowth, bear with mesa.
13.70	Rim of mesa, level with E. rim, bears N. and S. 20° W. Desc. abruptly over high, almost impassable sandstone and shale ledges, bear with mesa.
28.80	Head of rocky ravine, 360 ft. below mesa, course N. 60° W. Continue abrupt descent over rough, ledgy N. slope of mountain.
32.60	Rocky, ledgy ravine, 570 ft. below mesa, course N. 20° W. Forks with other ravine about 10.00 chs. dist. N. thence N. 60° W. Asc. over rocky NE. slope.
36.00	Sandstone spur, 30 ft. above ravine, projects N. to ravine. Thence desc. along steep rocky NW. slope.
39.34	On steep ledgy N. slope of mountain, 40 ft. below spur, Set an iron post, 3 ft. long, 1 inch dia., on bare sandstone bedrock, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 23 and 26, with brass cap mkd.,

Chains	
	$\frac{1}{4}\frac{S\ 23}{S\ 26}$ 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the ¼ cor.
	Thence along N. slope of mountain.
44.81	Triangulation point on rocky, ledgy point of mountain, level with ¼ cor., projects N. 60° W. Thence desc. abruptly over steep, rocky SW. slope.
65.10	Box canyon, 270 ft. below point of mountain, canyon is about 10.00 chs. wide, course SW. Asc. abruptly over sandstone and shale ledges over which it is impracticable to chain, bear with canyon.
70.00	Approximate W. rim of canyon, 190 ft. above canyon, bears with canyon. Thence over rough, broken mesa.
73.88	The cor. of secs. 22, 23, 26 and 27, 10 ft. above rim of mesa.
	Land, rough mountainous and rolling and broken mesa, general drainage to the NW. and SW., and SE.
	Soil, shallow, sandy, rocky, clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, rabbitbrush and grass undergrowth. Fair grazing on mesas and in box canyon, balance of mile too rough.
	N. 0° 01' W., on true line, bet. secs. 22 and 23.
	Over broken, rocky mesa land, Asc. gradually through scattered mountain rush, greasewood, shadscale, juniper and grass undergrowth.
40.00	On rocky S. slope of spur, 80 ft. above 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. 22 and 23, with brass cap mkd.,

Chains	
	$\frac{1}{4}$ S 22 | S 23 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Asc. abruptly over sandstone ledges, bear E. and W.
46.80	Sandstone spur, 60 ft. above ¼ cor., projects E. about 10.00 chs. dist. Desc. over sandstone ledges, bear with spur.
54.10	Rocky ravine, 60 ft. below spur, course E. Thence asc. over sandstone ledges on steep SE. slope of mountain.
78.60	Sandstone spur, 240 ft. above ravine, projects NE. Desc. rocky NW. slope.
80.00	On rocky NW. slope, 40 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. 15, 14, 22 and 23, with brass cap mkd.,
	T 42 S R 2 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, rough, mesa and mountainous, with sandstone ledges and outcroppings throughout mile. General drainage to the E. and NW.
	Soil, shallow, rocky, sandy clay loam, on sandstone bedrock
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, juniper, greasewood and grass. Fair grazing.
	N. 89° 55' E., on random line, bet. secs. 14 and 23.
40.00	Set temp. point for ¼ cor.
79.98	Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 13, 14, 23 and 24.

Chains	
	Thence,
	S. 89° 54' W., on true line, bet. secs. 14 and 23.
	Over rough mountainous land, asc. abruptly over steep sandstone ledges bear NE. and SW. through scattered shadscale, mountain rush, greasewood, and grass undergrowth.
9.90	Sandstone spur, 20 ft. above cor., projects S. Desc. abruptly over steep rocky, ledgy SW. slope of mountain.
39.99	On rocky SW. slope of mountain, 340 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 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 cor.
	Desc. over sandstone ledges, bear NW. and SE.
56.80	Box canyon, 220 ft. below ¼ cor., course S. This canyon is called Nipple canyon. Asc. abruptly over steep sandstone and shale ledges along canyon.
72.00	Sandstone spur, 180 ft. above canyon, projects NE. Desc. rocky NW. slope.
79.38	The cor. of secs. 14, 15, 22 and 23, 30 ft. below spur. Land, rough mountainous with sandstone and shale ledges, throughout mile. General drainage to the S.
	Soil, shallow, sandy, gravelly, rocky, clay loam, on shale and sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, greasewood and grass. Medium fair grazing.

	N. 0° 01' W., on true line, bet. secs. 14 and 15.
	Over rough mountainous land, desc. abruptly over sandstone ledges bear NE. and SW., through scattered shadscale,

Chains	
	mountain rush and grass undergrowth.
13.00	Sandstone gulch, 110 ft. below sec. cors., course E. Asc. abruptly over sandstone ledges.
37.50	Top of vertical ledges, 75 ft. high, bear NW. and SE. Thence asc. gradually to top of spur.
38.00	Sandstone spur, 480 ft. above gulch, projects E. Desc. gradually over top of spur.
40.00	On N. slope, 20 ft. below top of spur, 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. 14 and 15, with brass cap mkd.,

¼

S 15 | S 14

1917

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

42.00	Desc. abruptly from spur, over sandstone ledges, bear E. and W.
46.00	Wash, 200 ft. below ¼ cor., 20 lks. wide, 6 ins. deep, drains E. Asc. over ledges.
62.50	Sandstone spur, 180 ft. above wash, projects E. Desc. abruptly over sandstone ledges, bear E. and W.
71.00	Wash in rocky ravine, 100 ft. below spur, 1.00 ch. wide, 3 ft. deep, drains NE. Asc. gradually over rocky SE. slope.
80.00	On rocky SE. slope, 20 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, 2½ ft. base, for the cor. of secs. 10, 11, 14 and 15, with brass cap mkd.,

T 42 S R 2 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.

Subdivision of T. 42 S., R. 2 E.

Chains	
	Land, rough mountainous with sandstone ledges throughout mile, general drainage to the E.
	Soil, shallow, sandy, rocky clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush and grass. Poor grazing.
	N. 89° 54' E., on random line, bet. secs. 11 and 14.
39.15	Set temp. point for ¼ cor., W. C.
80.05	Intersect the N. and S. line, 16 lks. N. of the cor. of secs. 11, 12, 13 and 14.
	Thence,
	N. 89° 59' W., on true line, bet. secs. 11 and 14.
	Over rough mountainous land, asc. gradually along rocky N. edge of broken mesa, through scattered mountain rush, shadscale, juniper and grass undergrowth.
4.40	Top of ascent and N. point of mesa, 20 ft. above sec. cor., projects N. about 50 lks. dist. then drops off with steep ledges. Desc. abruptly over sandstone ledges bear N. 20° E: and S.
13.00	Steep rocky ravine, 380 ft. below top of ascent, course N. Asc. abruptly along ledgy E. slope of spur.
21.80	Sandstone spur, 100 ft. above ravine, projects N. about 10.00 chs. dist. Desc. over rocky, ledgy NW. slope.
40.02½	Point falls in canyon, 200 ft. below spur, course S. It is impracticable to set cor. here as it would soon be destroyed.
40.90	On W. edge of canyon, 10 ft. above same, 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. 11 and 14, with brass cap mkd.,

$\frac{1}{4}\frac{S\ 11}{S\ 14}$ WC

1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Asc. over sandstone ledges, bear N. and S.
55.20	Sandstone spur, 80 ft. above ½ W. C., projects S. Desc. over broken sandstone ledges, bear N. and S.
62.10	Nipple canyon, 50 ft. below spur, course S. 30° E. Asc. gradually over E. slope.
70.00	Top of ascent, 70 ft. above canyon, desc. gradually into ravine.
75.00	Ravine, 30 ft. below top of ascent, course SE. Asc. gradually.
80.05	The cor. of secs. 10, 11, 14 and 15, 30 ft. above ravine.
	Land, rough mountainous, general drainage to the NW. and S.
	Soil, shallow, sandy, rocky, gravelly clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, juniper and grass. Poor grazing.

	N. 0° 01' W., on true line, bet. secs. 10 and 11.
	Over rocky broken mountainous land, desc. gradually through scattered shadscale, mountain rush, sagebrush, rabbit-brush and grass undergrowth.
4.00	Ravine, 30 ft. below sec. cor., wash in ravine, 20 lks. wide, 2 ft. deep, drains SE. Asc. gradually.
7.50	Rocky spur, 50 ft. above wash, projects E. Desc. gradual N. slope.
28.00	Wash, 50 ft. below spur, 10 lks. wide, 2 ft. deep, drains NE. Asc. gradually.
35.20	Sandstone spur, 50 ft. above wash, projects E. Desc. Gradually.
40.00	On gradual N. slope, 30 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 10 and 11, with brass

Subdivision of T. 42 S., R. 2 E.

Chains	
	cap mkd.,
	S 10 | S 11
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Continue gradual descent.
44.50	Wash, 20 ft. below ¼ cor., 20 lks. wide, 3 ft. deep, course E. Asc. gradually over rocky S. slope.
54.00	Rocky spur, 60 ft. above wash, projects SE. Desc. over low sandstone ledges, bear NW. and SE.
70.000	Along W. edge of Nipple canyon, 40 ft. below spur, course S. 10° E. Thence asc. gradually along W. side of Nipple canyon,
80.00	On gradual S. slope, at W. side of Nipple canyon, 50 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, 2 ft. base, for the cor. of secs, 2, 3, 10 and 11, with brass cap mkd.,
	T 42 S R 2 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, broken mountainous, general drainage to the E. and S.
	Soil, shallow, sandy, rocky clay loam, on sandstone bed-rock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, sage-brush, rabbit-brush and grass. Fair grazing.
	S. 89° 59' E., on random line, bet. secs. 2 and 11.
40.00	Set temp point for ¼ cor.

Chains	
57.83	On account of sandstone ledges overwhich it is impracticable to chain, offset S. a dist. of 3.58 chs. thence S. 89° 59' E., on offset line.
80.09	Offset N. a dist. of 3.58 chs. and intersect the N. and S line 2 lks. S. of the cor. of secs. 1, 2, 11 and 12.
	Thence,
	West, on true line, bet. secs. 2 and 11.
	Over rough mountainous land, asc. abruptly over sandstone ledges, through scattered sagebrush, shadscale, rabbitbrush, mountain rush and grass undergrowth.
	It is impracticable to chain W. from this cor. on account of high sandstone ledges, therefore offset S. a dist. of 3.58 chs. thence W. on offset line.
11.00	Sandstone spur, on offset line, 75 ft. above cor., projec S. Desc. on offset line.
15.00	Canyon on offset line, 80 ft. below spur, course SW. Asc. gradually.
22.26	Thence N. a dist. of 3.58 chs. to true line, thence W. on true line. Asc. abruptly over sandstone ledges, bear NE. and SW.
26.40	Top of ledges and edge of mesa, 260 ft. above canyon, bears NE. and SW. Thence over rocky rolling mesa.
40.04½	On rolling mesa, 20 ft. above edge,
	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. 2 and 11, with brass cap mkd.,
	¼ S 2 / S 11 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Continue over rolling mesa, desc. gradually.
61.50	Leave mesa, bears N. and S. Desc. abruptly over high sandstone ledges, bear with mesa.
78.00	Nipple canyon, 360 ft. below mesa, course S. Asc. grad-

Chains	
	ually.
80.03	The cor. of secs. 2, 3, 10 and 11, 30 ft. above canyon.
	Land, rough mountainous, with numerous sandstone ledges, general drainage to the S. and SW.
	Soil, shallow, sandy, rocky clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered sagebrush, shadscale, rabbit-brush, mountain rush and grass. Fair grazing.

	N. 0° 01' W., on random line, bet. secs. 2 and 3,
40.00	Set temp. point for ¼ cor.
83.45	Intersect the N. bdy. of the Tp. 6 lks. E. of the cor. of secs. 2, 3, 34 and 35, heretofore described.
	Thence,
	S. 0° 04' E., on true line, bet. secs. 2 and 3.
	Over broken mountainous land, Asc. gradually through scattered sagebrush, shadscale, mountain rush, rabbit-brush and grass undergrowth.
4.50	Sandstone spur, 20 ft. above cor., projects E. Desc.
17.00	Gulch, 50 ft. below spur, course E. Asc. over sandstone ledges, bear E. and W.
31.00	Sandstone spur, 80 ft. above gulch, projects SE. Desc. rocky SW. slope.
43.45	On rocky SW. slope, 120 ft. below spur,
	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. 2 and 3, with brass cap mkd.,
	¼ S. 3 | S. 2
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Desc. over broken sandstone ledges.

Chains	
53.30	Narrow sandstone gulch, 40 ft. below ¼ cor., course SE. Asc. gradually.
63.50	Ridge, 40 ft. above gulch, bears NW. and SE. Desc. gradual S. slope.
75.50	Wash, 20 ft. below ridge, 10 lks. wide, 2 ft. deep, drain NE. Asc. gradually.
82.00	Point of spur, 40 ft. above wash, projects E. Desc.
83.45	The cor. of secs. 2, 3, 10 and 11, 30 ft. below spur. Land, broken mountainous, general drainage tot the E. and SE.
	Soil, rocky, sandy, shallow clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered sagebrush, shadscale, mountain rush, rabbit-brush and grass. Fair grazing.
	From the true point for the cor. of secs. 3, 4, 33 and 34 2.00 chs. dist. E. of the W. C. for secs. 3, 4, 33 and 34, heretofore described, on S.bdy. of Tp.
	N. 0° 02' W., on true line, bet. secs. 33 and 34.
	Over broken Wahweap canyon bottom, desc. gradually through scattered sagebrush, greasewood and oose-root under-growth.
1.50	Wahweap wash, 10 ft. below true cor. point, 2.00 chs. wide, 6 ft. deep, course SE. Asc. gradually.
22.50	Spur, 100 ft. above wash, projects SW. Desc. gradually.
37.50	Wash, 30 ft. below spur, 30 lks. wide, 3 ft. deep, drains W. Asc. gradual S. slope.
40.00	On gradual S. slope, 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. 33 and 34, with brass cap mkd.,
	¼
	S 33 | S 34
	1917

Chains	
	No stone available for mound, pits impracticable on account of drifting sand.
	Asc. gradually along E. side of Wahweap wash.
80.00	On E. side of Wahweap wash, 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. 27, 28, 33 and 34, with brass cap mkd.;

T 42 S R 2 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, Wahweap canyon bottom and edge, mostly rolling sandy, gravelly mountainous land, general drainage W. and S.
	Soil, gravelly, sandy loam and sand, subsoil same; with some sandstone outcroppings.
	Timber, none.
	Undergrowth, scattered sagebrush, greasewood, and ooseroot. Poor grazing.
	East, on random line, bet. secs. 27 and 34.
40.00	Set temp point for ¼ cor.
80.03	Intersect the N. and S. line, 3 lks. S. of the cor. of secs. 26, 27, 34 and 35.
	Thence,
	S. 89° 59' W., on true line, bet. secs. 27 and 34.
	Over broken blue clay hills, desc. gradually through scattered shadscale undergrowth.
8.00	Wash, 30 ft. below cor., 10 lks. wide, 6 ins. deep, drains N. Thence asc. gradually.
15.60	Top of ledges and edge of Nipple canyon, 60 ft. above wash, bears NE. and SW. Leave blue clay formation and desc. over sandstone ledges. Enter scattered

Chains	
	mountain rush, greasewood, sagebrush and grass undergrowth, bear with canyon.
25.20	Wash in Nipple canyon, 1.00 ch. wide, 3 ft. deep, course SW., 120 ft. below edge of canyon. Asc. abruptly over sandstone wall, bears with canyon.
36.10	Top of sandstone wall and edges of canyon, 150 ft. above wash, bears NE. and SW. Thence asc. gradually over sandy gravel bench.
40.01½	On gravel bench, 10 ft. above sandstone wall, Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to sandstone bedrock, 20 ins. in a 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.
	Thence over rolling sandy gravel bench.
64.90	Rim of bench and edge of Wahweap canyon, level with ¼ cor., bears N. and S. Desc. abruptly over white sandstone wall, bears N. and S.
69.50	Base of sandstone wall, 120 ft. below top, bears N. and S. Thence desc. gradually over Wahweap canyon bottom or valley.
80.03	The cor. of secs. 27, 28, 33 and 34, 130 ft. below bench.
	Land, E. portion, broken blue clay hills, W. portion, rolling bench and broken canyons, general drainage to the SW. and S.
	Soil, on E. portion, blue clay, subsoil same. W. portion shallow, sandy gravelly, clay loam, with sandstone outcroppings, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, sagebrush, greasewood and grass. Poor grazing.

Subdivision of T. 42 S., R. 2 E.

Chains	
	N. 0° 02' W., on true line, bet. secs. 27 and 28.
	Over rolling Wahweap canyon bottom or valley, desc. gradually through scattered greasewood, sagebrush and shadscale undergrowth.
2.00	Wahweap wash, dry, 10 ft. below sec. cor., 1.00 ch. wide, 4 ft. deep, drains SW. Thence over rolling canyon bottom.
24.00	Wahweap wash, dry, 10 ft. above wash, 1.30 chs. wide, 4 ft. deep, drains SE. Asc. gradually.
40.00	In Wahweap valley, on E. side of wash, 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. 27 and 28, with brass cap mkd.,
	¼ S 28 | S 27 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Asc. gradually over gentle SW. slope.
48.50	Spur, 20 ft. above ¼ cor., projects W. Desc. gradually.
50.00	Wash, 20 ft. below spur, 10 lks. wide, 2 ft. deep, drains W. Asc. gradually.
56.50	Sandstone spur, 60 ft. above wash, projects SW. Desc. gradual NW. slope.
65.00	Wash, 40 ft, below spur, 20 lks. wide, 1 ft. deep, drains NW. Asc. abruptly over sandstone wall over which it it is impracticable to chain, bears NW. and SE., therefore offset W. a dist. of 2.70 chs. thence, N. 0° 02' W., on offset line.
72.00	W. point of vertical sandstone wall, 160 ft. high, bears E. 50 lks. dist.
80.00	Offset E. a dist. of 2.70 chs. to true line, and
	At base of vertical sandstone wall, 160 ft. high, bears N. and S., 20 ft. above wash,
	Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone bedrock, 24 ins. in a mound of stone, 4 ft. base,

Chains

for the cor. of secs. 21, 22, 27 and 28, with brass cap mkd.,

T 42 S R 2 E

S 21	S 22
S 28	S 27

1317

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

Land, rolling canyon bottom or valley and ledgy canyon sid general drainage to the W. and S.

Soil, sandy loam and sand, mixed with sandstone and gravel, on sandy, and rocky clay loam subsoil.

Timber, none.

Undergrowth, scattered greasewood, sagebrush and shadescale

Fair grazing.

N. 82° 30' E., on random line, bet. secs. 22 and 27.

40.00 Set temp. point for ¼ cor.

80.00 Intersect the N. and S. line, 70 lks. N. of the cor. of secs. 22, 27, 26 and 27.

Thence,

N. 82° 45' E., on true line, bet. secs. 22 and 27.

Over broken mesa land, asc. gradually over bare sandstone outcropping s through scattered mountain rush, shadescale, greasewood; and grass undergrowth.

0.30 Rim of broken mesa, 10 ft. above cor., bears NW. and SE. Desc. abruptly over broken sandstone and shale ledges, bear with mesa.

11.00 Wash, 110 ft. bel ow mesa, 30 lks. wide, 3 ft. deep, drains S. 25° E. Asc. gradually.

12.00 Spur, 50 ft. above wash, projects S. Desc. gradually.

12.70 Ravine, 70 ft. below spur, course E. Asc. over steep clay hills.

19.00 Asc. abruptly over steep blue clay N. slope of spur.

20.10 Clay spur, 130 ft. above ravine, projects S. Desc. ofer

Chains	
	steep clay W. slope of spur.
40.15	Cm steep blue clay W. slope, 50 ft. below spur,
	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.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Desc. gradually from ¼ cor.
41.40	Ravine, 20 ft. below ¼ cor., course S. 10° W. Asc. over gradual S. slope.
60.30	Wash, 20 ft. above ravine, 4 lks. wide, 1 ft. deep, drains S. Asc. more abruptly over SE. slope of mesa.
77.80	Top of sandstone wall, 80 ft. above wash, bears N. and S. Desc. abruptly over white sandstone wall at E. edge of Wahweap canyon, bears N. and S.
80.30	The cor. of secs. 21, 22, 27 and 28, 140 ft. below top of sandstone wall.
	Land, rough and broken mountainous, with broken benches, general drainage to the S.
	Soil, om E. and W. portions of mile, shallow sandy, clay loam, on sandstone bedrocks, middle portion of mile, blue clay, with sandstone outcroppings, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, shadscale, greasewood and grass. Poor grazing.
	N. 0° 02' W., on true line, bet. secs. 21 and 22.
	Over rough mountainous land, asc. abruptly over sandstone ledges, bear N. 20° W. and S. 20° E., through scattered shadscale, greasewood and sagebrush undergrowth.
	It is impossible to chain over the sandstone ledges N. of the sec. cor., therefore triangulate as follows, set a

Chains

point on line, N. 0° 02' W. at top of ledges, and fr
the sec. cor. measure a base line, S. 89° 58' W. a d
of 10.00 chs. from which point the point at top of
ledges makes an angle of 35° 00' with the sec. cor.
The dist. is then,

10.00 x tan. 35° 00' or .70021 = 7.00 chs.

7.00 Triangulation point at top of sandstone ledges, 200 ft
above sec. cor., bear N. 20° E. and S. 20° E. Thence
desc. gradually over rolling bench land.

40.00 On gradual N. slope of bench, 70 ft. below top of ledges,
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.,

S 21 | S 22
1917

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

Asc. gradually.

47.30 Low spur, 70 ft. above ¼ cor., projects W. desc. gradual
50.00 Chasm, 150 ft. below spur, 5.00 chs. wide, with sandstone
ledges along sides, drains S. 70° W. Asc. abruptly.

55.00 Spur, 120 ft. above chasm, projects S. 70° W. Desc.
gradually.

73.00 Gulch, 100 ft. below spur, course S. 70° W. Asc. gradual
over S. clay slope.

80.00 On clay spur, projects S. 70° W., 100 ft. above gulch,
Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the
ground for the cor. of secs. 15, 16, 21 and 22, with
brass cap mkd.,

T 42 S R 2 E

S 15 | S 16
S 21 | S 22
1917

No stone available for mound, therefore dig pits, 18 x

Chains	
	18 x 12 ins., in each sec. 5½ ft. dist. from the cor.
	Land, broken mountainous and rolling bench, general drainage to the W. and NW.
	Soil, On S. portion of mile, light, dry, sandy clay loam on clay loam subsoil and sandstone bedrock, N. portion blue clay, on clay subsoil. All of mile with sandstone outcroppings.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood and sagebrush. Poor grazing.
	S. 89° 48' E., on random line, bet. secs. 15 and 22.
	It is impossible to chain over high sandstone ledges, E. of the sec. cor., therefore triangulate as follows, set a point on line, E. at top of ledges, from this latter point the flag set 30.30 chs. N. of the cor. of secs. 15, 16, 21 and 22, makes an angle of 49° 07' with the sec. cor. The dist. is then,
	30.30 x cotan. 49° 07' or .86572 = 26.23 chs.
26.23	Triangulation point, offset S. a dist. of 9 lks. to random line, thence S. 89° 48' E., on random line.
40.00	Set temp. point for ¼ cor.
80.24	Intersect the N. and S. line, 9 lks. S. of the cor. of secs. 14, 15, 22 and 23.
	Thence,
	N. 89° 52' W., on true line, bet. secs. 15 and 22.
	Over rough mountainous land, desc. gradually through scattered sagebrush, shadscale, greasewood and grass undergrowth.
6.20	Ravine, 30 ft. below cor., course N. 20° E. Asc. over broken sandstone ledges, bear NE. and SW.
11.20	Rocky spur, 90 ft. above ravine, projects NE. Desc. gradually.
15.20	Rocky ravine, 40 ft. below spur, course NE. Asc.
19.50	Sandstone spur, 50 ft. above ravine, projects NE. Desc. abrubtly over sandstone ledges bear NE. and SW.

Chains	
30.20	Ravine, 120 ft. below spur, course NE. Asc. gradually.
40.12	On gradual E. slope, 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. 15 and 22, with brass cap mkd.,
	S 15 / S 22 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Asc. gradually over E. slope.
47.20	Top of sandstone ledges, 30 ft. above ¼ cor., bear NE. and SW. Asc. to top of ridge.
53.20	Ridge, 80 ft. above ¼ cor., bears N. and S. Desc. gradual
54.01	Triangulation point at top of high sandstone ledges, bear N. and S. Impossible to chain over the high ledges.
68.00	Approximate base of high ledges, 380 ft. below ridge, bear N. and S. Thence desc. over broken foothills.
80.24	The cor. of secs. 15, 16, 21 and 22, 420 ft. below ridge.
	Land, rough and broken mountainous, general drainage to the E. and W.
	Soil, rocky, sandy clay loam on all of mile, except on W. portion where the soil is blue clay, with sandstone outcroppings. Subsoil, rocky, clay loam, and sandstone bedrock.
	Timber, none.
	Undergrowth, scattered sagebrush, shadscale, greasewood and grass. Poor grazing.

	N. 0° 02' W., on true line, bet. secs. 15 and 16.
	Over broken blue clay hills, desc. gradual N. slope through scattered shadscale and greasewood undergrowth.
13.80	Swale, 40 ft. below cor., drains SW. Asc. gradually.
30.30	Ridge, 180 ft. above swale, bears SW. and NE. Set flag 2 lks. E. of line. Desc. abruptly over rocky NW. slope.
40.00	In swale, drains SW., 110 ft. below ridge,

Chains	
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground 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, 1½ ft. high, west of the cor.
	Asc. gradually from $\frac{1}{4}$ cor.
43.10	Spur, 20 ft. above $\frac{1}{4}$ cor., projects NW. Desc. gradual NE. slope.
46.10	Ravine, 30 ft. below spur, course NW. about 5.00 chs. dist. thence S. 70° W.
51.60	Ravine, level with ravine, course S. 70° W. Forks of ravines about 6.00 chs. dist., S. 70° W.
53.10	Asc. abruptly over rocky S. slope.
62.70	Ridge, 220 ft. above ravine, bears S. 70° W., and N. 70° E. Low saddle of ridge about 2.00 chs. dist. E.
	Desc. abruptly over steep rocky, clay NE. slope.
80.00	On small clay flat at W. base of high mountain, bears NW. and SE., 110 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 42 S R 2 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 mountainous, general drainage to the W.
	Soil, blue clay, mixed with some sand and sandstone, on subsoil of the same nature.
	Timber, none.
	Undergrowth, scattered shadscale and greasewood. No grazing.

Chains	
	S. 89° 52' E., on random line, bet. secs. 10 and 15. It is impossible to chain E. from this cor., therefore triangulate as follows, set a point on line at top of high rim of ledges, E. and fromthe sec. cor., measure a base line, S. a dist. of 16.32 chs. From the point at top of ledges the angle between the N. and S. ends of base is 62° 07'. The dist. is then,
	16.32 x cotan. 62° 07' or .52910 = 8.63 chs.
8.63	Triangulation point, offset S. a dist. of 2 lks. to random line, thence S. 89° 52' E., on random line.
40.00	Set temp. point for ¼ cor.
80.09	Intersect the N. and S. line, 3 lks. S. of the cor. of secs. 10, 11, 14 and 15,
	Thence,
	N. 89° 53' W., on true line, bet. secs. 10 and 15. Over rough mountainous land, asc. abruptly over rocky ledgy E. slope of high mountain through scattered shadscale, mountain rush, greasewood, rabbit-brush and grass undergrowth.
40.04½	On rocky E. slope of mountain, 660 ft. above 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. 10 and 15, with brass cap mkd.,
	¼ S 10 / S 15 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Continue ascent. over rocky, ledgy E. slope of ridge.
56.80	Top of main ridge, divide between Wahweap and Nipple canyons, 160 ft. above ¼ cor., bears N. and S. Desc. steep ledges on W. slope of mountain.
71.46	Top of rim of sandstone ledges over which it is impossible to chain, bear N. 10° W. and S. 10° E. Triangulation point. Desc. abruptly over steep, ledgy W. slope.

Chains	
80.09	The cor. of secs. 9, 10, 15 and 16, 820 ft. below top of ridge.
	Land, rough mountainous with sandstone ledges throughout mile, general drainage to the E. and W.
	Soil, shallow, sandy, rocky clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, greasewood, rabbit-brush and grass. Poor grazing.
	N. 0° 02' W., on true line, bet. secs. 9 and 10.
	Over rough mountainous land asc. gradually through scattered shadscale, sagebrush and mountain rush undergrowth.
6.23	Base of high mountain and sandstone ledges over which it is impossible to chain, therefore offset W. a dist. of 3.50 chs. thence N. 0° 02' W., on offset line, along W. base of high sandstone ledges, bear N. 10° W. and S. 10° E.
22.03	Base of high sandstone ledges, impossible to chain farther, therefore offset W. a dist. of 9.63 chs. to a point 13.13 chs. dist. W. of true line, thence N. 0° 02' W. on offset line along base of ledges, bear N. 10° W. and S. 10° E.
40.00	Offset E. a dist. of 13.13 chs. to true line and
	On rugged W. slope of mountain, 450 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 moun d of stone, 2½ 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.
	It is impossible to chain N. from the ¼ cor. therefore

Chains	
	return to offset point 13.13 chs. W. of the ¼ cor. and continue N. 0° 02' W., on offset line.
50.29	Base of high sandstone ledges over which it is impracti able to chain, therefore offset W. a dist. of 6.10 chs. to a point 19.23 chs. W. of true line, thence N. 0° 02' W., on offset line.
80.00	Offset E. a dist. of 19.23 chs. to true line and On NW. rocky slope of mountain, 320 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. 3, 4, 9 and 10, with brass cap mkd.,

T 42 S R 2 E

S 4	S 3
S 9	S10

1917

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

Land, extremely rugged mountainous with high sandstone ledges throughout mile, general drainage to the W.

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

Timber, none.

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

S. 89° 53' E., on random line, bet. secs. 3 and 10.

40.00	Set temp. point for ¼ cor.
80.10	Intersect the N. and S. line, 18 lks. S. of the cor. of secs. 2, 3, 10 and 11.

Thence,

S. 89° 59' W., on true line, bet. secs. 3 and 10.

Over rough mountainous land, asc. abruptly over sandstone ledges on rocky SE. slope of mountain through scattered shadscale, greasewood, mountain rush, rabbit-brush and grass undergrowth.

Subdivision of T. 42 S., R. 2 E.

Chains	
22.20	Lone cedar tree, 8 ins. dia., bears S. about 1.50 lks. dist.
32.90	Sandstone spur, 450 ft. above sec. cor., projects SE. Desc. over sandstone ledges, bear with spur.
36.10	Rocky ravine, 50 ft. below spur, course SE. Asc. abruptly over sandstone ledges, bear with ravine.
40.05	On rocky SE. slope of mountain, 100 ft. above ravine, 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. 3 and 10, with brass cap mkd., $\frac{\frac{1}{4}}{\frac{S\ 3}{S\ 10}}$ 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Continue abrupt ascent over rocky, ledgy SE. slope.
68.30	Main ridge, divide between Nipple and Wahweap canyons, bears N. 30° W. and S. 30° E. Desc. abruptly over sandstone ledges on steep NW. slope.
80.10	The cor. of secs. 3, 4, 9 and 10, 330 ft. below ridge. Land, very rough, rugged mountainous with sandstone ledges throughout mile. General drainage to the E. and W. Soil, shallow, sandy, rocky, clay loam, on sandstone bedrock. Timber, none. Undergrowth, scattered shadscale, greasewood, mountain rush, rabbit-brush and grass. Poor grazing.
	N. 0° 02' W., on random line, bet. secs. 3 and 4.
40.00	Set temp. point for ¼ cor.
83.40	Intersect the N. bdy. of the Tp. 10 lks. W. of the cor. of secs. 3, 4, 33 and 34, heretofore described.
	Thence, S. 0° 02' W., on true line, bet. secs. 3 and 4.
	Over rough mountainous land, desc. abruptly over sand-

Chains	
	stone ledges bear NE. and SW., through scattered shads mountain rush, greasewood and grass undergrowth.
5.80	Rocky gulch, 60 ft. below sec. cor., course N. 70° E. Asc. abruptly.
10.80	Rocky white sandstone ridge, 50 ft. above gulch, bears NW. and SE. Desc. over sandstone ledges, bear E. an W.
25.40	Rocky wash, 80 ft. below ridge, 6 lks. wide, 1 ft. deep, drains NE. Asc. gradually.
30.40	Sandstone spur, 40 ft. above wash, projects E. Desc.
43.40	On NW. slope, 40 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 ¼ cor. of secs. 3 and 4, with brass cap mkd.,
	¼ S 4 | S 3 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west o the ¼ cor.
	Desc. gradually.
51.80	Rocky ravine, 20 ft. below ¼ cor., course NE. Asc. to main ridge.
63.40	Main ridge, divide between Nipple and Wahweap canyons, bears NW. and SE. Desc. abruptly.
64.50	Sandstone spur, 60 ft. below ridge, projects W. Desc. abruptly over high sandstone ledges, bear NW. and SE.
80.80	Rocky, ledgy ravine, heads 1.00 ch. dist. SE., 380 ft. below spur, course NW. Asc. abruptly over steep NW. slope.
83.40	The cor. of secs. 3, 4, 9 and 10, 30 ft. above ravine.
	Land, rough mountainous with sandstone ledges throughout mile, general drainage to the NE. and NW.
	Soil, shallow, sandy, rocky clay loam, on sandstone bedrock
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, grease-

Subdivision of T. 42 S., R. 2 E.

Chains	
	wood and grass. Too rough for grazing.
	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 hills, asc. gradually through scattered sagebrush, coose-root, shadscale and grass undergrowth.
9.00	Low sand ridge, 20 ft.above cor., bears E. and W. Desc. over broken N. slope.
40.00	On sandstone ledges, bear NW. and SE., 150 ft.below ridge, mark x on ledges at exact cor. point, and
	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. 32 and 33, with brass cap mkd.,
	$\frac{1}{4}$ S 32 | S 33 1917
	Raise a mound of ston , 2 ft. base, $1\frac{1}{2}$ ft. high, west of the cor.
	Desc. over NE. slope into Coyote wash.
47.30	Coyote wash, dry, 100 ft.below $\frac{1}{4}$ cor., drains N. 70° E. Asc. gradually from wash.
54.00	Spur, 50 ft. above wash, projects S. 70° W. Desc. gradually.
59.50	Coyote wash, 50 ft. below spur, 2.00 chs. wide, 4 ft. deep, drains S. 70° W.
69.50	Coyote wash, 10 ft. above wash, drains SE. Asc. abruptly over sandstone ledges.
79.50	Sandstone spur, 150 ft. above wash, projects SW. Desc. gradually.
79.60	On gentle NW. slope of spur, 10 ft. below top,
	Set an iron post, 3 ft. long, 2 ins. dia., 4 ins. in the ground to bedrock, 20 ins. ina m ound of stone, 4 ft. base, for the W. C. to the cor. of secs. 28, 29, 32 and 33, with brass cap mkd.,

Chains	
	W C T 42 S R 2 E S 29 | S 28 S 32 | S 33 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.
	Desc. abruptly over sandstone ledges, bear with spur.
80.00	Point falls on side of sandstone ledges, where cor. cannot be set, 140 ft. below W. C.
	Land, rolling and broken mountainous, general drainage to the NE. and SE.
	Soil, light, dry, red, sand and gravel loam, subsoil same.
	Timber, none.
	Undergrowth, scattered sagebrush, oose-root, shadscale and grass. Poor grazing.

	From the true cor. point for secs. 28, 29, 32 and 33.
	East, on random line, bet. secs. 28 and 33.
40.00	Set temp. point for ¼ cor.
79.26	Intersect the N. and S. line, 5 lks. N. of the cor. of secs. 27, 28, 33 and 34.
	Thence,
	N. 89° 58' W., on true line, bet. secs. 28 and 33.
	Over rolling Wahweap valley, desc. gradually through scattered sagebrush, mountain rush, oose-root and grass undergrowth.
.50	E. bank of Wahweap wash, level with sec. cor., bears NE. and SW. Desc. into wash.
2.10	Wahweap creek, dry, 10 ft. below sec. cor., course SW.
5.00	W. bank of Wahweap wash, 6 ft. above creek, bears NE. and SW. Asc. gradually.
17.00	Foot of sandstone ledges, 30 ft. above creek, bear N. and S. Leave valley and asc. abruptly over sandstone ledges, bear N. and S.
22.00	Top of sandstone ledges, 210 ft. above foot, bear N. and S.

Subdivision of T. 42 S., R. 2 E.

Chains	
	Thence over broken bench land. Asc. gradually.
59.98	On broken bench, 20 ft. above top of ledges,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for the ¼ cor. of secs. 28 and 33, with brass cap mkd.,
	¼ S 28 / S 33 / 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Asc. gradually from ¼ cor.
50.00	Ridge, 10 ft. above ¼ cor., bears NW. and SE. Desc. gradually.
72.00	Wash, 30 ft. below ridge, 20 lks. wide, 2 ft. deep, drains SW. Asc. gradually.
79.50	Spur, 30 ft. above wash, projects SW. Desc. over sandstone ledges, bear N. 70° E. and S. 70° W.
79.26.	The true point for the cor. of secs. 28, 29, 32 and 33, 140 ft. below spur, 40 lks. N. of the W. C. for secs. 28, 29, 32 and 33.
	Land, rolling valley and broken bench, general drainage to the S. E. and SW.
	Soil, light, dry, sandy loam, mixed with gravel and some sandstone outcroppings and ledges, subsoil sandy, gravelly and rocky.
	Timber, none.
	Undergrowth, scattered sagebrush, mountain rush, oose-root, and grass. Fair brazing.

	From the true point for the cor. of secs. 28, 29, 32 and 33, 40 lks. N. 0° 03' W. of the W. C.
	N. 0° 03' W., on true line, bet. secs. 28 and 29.
	Over broken mountainous land, desc. gradually through scattered sagebrush, mountain rush, oose-root and grass undergrowth.

Chains	
3.00	Gulch, 20 ft. below true cor. point, course S. 70° W. Asc. abruptly over broken sandstone ledges.
8.50	Spur, 140 ft. above gulch, projects SW. Thence desc. gradually over rolling bench land.
19.00	Wash, 40 ft. below spur, 20 lks. wide, 3 ft. deep, drains S. 60° W. Asc. gradually.
40.00	On gradual SW. slope, 20 ft. above wash, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 28 and 29, with brass cap mkd.,

¼

S 29 | S 28

1917

No stone available for mound, pits impracticable on account of drifting sand.

Asc. gradually.

80.00	On low ridge, 40 ft. above ¼ cor., bears SE. and N. 80 W. 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 2 E

S 20 | S 21

S 29 | S 28

1917

No stone available for mound, pits impracticable on account of drifting sand.

Land, rolling and broken bench, general drainage to the SW.

Soil, light, sand and sandy loam, mixed with sandstone at S. end of mile, subsoil same.

Timber, none.

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

	S. 89° 58' E., on random line, bet. secs. 21 and 28.
40.00	Set temp. point for ¼ cor.

Subdivision of T. 42 S., R. 2 E.

Chains	
80.08	Intersect the N. and S. line, 23 lks. S. of the cor. of secs. 21, 22, 27 and 28.
	Thence,
	S. 89° 52' W., on true line, bet. secs. 21 and 28,
	Over Wahweap valley, desc. gradually through scattered shadscale; mountain rush, greasewood, oose-root and grass undergrowth.
17.10	Wahweap creek, dry in wash; 20 ft. below sec. cor., 4.00 chs. wide, 4 ft. deep, course SE. Asc. gradually.
29.30	Leave Wahweap valley; 20 ft. above creek, bears N. 30°W. and S. 30°E. Asc. abruptly over steep sandy, gravelly NE. slope.
35.10	Edge of Wahweap canyon and rim of bench, 80 ft. above base of steep ascent, bears N. 30° W. and S. 30° E. Thence over rolling bench land.
40.04	On rolling bench, level with edge of canyon,
	Set an iron post, 3 ft. long, 1 in. dia., 24 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 gravel, 2 ft. base, 1½ ft. high, north of the cor.
	Thence asc. gradual NE. slope.
80.08	The cor. of secs. 20, 21, 28 and 29, 30 ft. above ¼ cor.
	Land, rolling Wahweap valley and rolling bench above valley, general drainage to the S. and NE.
	Soil, light, dry, sand and sandy loam, mixed with gravel on E. ½ of mile, subsoil sandy loam.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, greasewood, oose-root and grass. Fair grazing.

	N. 0° 03' W., on true line, bet. secs. 20 and 21.
	Over rolling sandy bench land, asc. gradually through

Chains

scattered shadscale, mountain rush, greasewood, ooseroot and grass undergrowth.

3.50 Sandy spur, 30 ft. above cor., projects E. Desc. gradua

20.00 Wash, 60 ft. below spur, 20 lks. wide, 1 ft. deep, drain N. 60° E. Asc. gradually.

23.00 Spur, 50 ft. above wash, projects N. 60° E. Desc. gradually.

40.00 On gradual NW. slope, 70 ft. below spur,
Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 20 and 21, with brass 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 descent.

45.80 Wash, 60 ft. below cor., 10 lks. wide, 6 ins. depp, drain E. Asc. gradually, over broken sandstone ledges.

54.00 Spur, 190 ft. above wash, projects E. Desc. gradually.

77.80 Top of white sandstone ledges and rim of Wahweap canyon, 20 ft. below spur, bear NW. and SE. Desc. abruptly over sandstone ledges.

80.00 At base of ledges, bear NW. and SE., 190 ft. below bench,
Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 16, 17, 20 and 21, with brass cap mkd.,

T 42 S R 2 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 and broken bench, general drainage to the E.

Soil, light, dry, sandy loam mixed with gravel and sand-

Subdivision of T. 42 S., R. 2 E.

Chains	
	stone, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush, greasewood, oose, root and grass. Fair grazing.
	N. 89° 52' E., on random line, bet. secs. 16 and 21.
40.00	Set temp. point for ¼ cor.
79.84	Intersect the N. and S. line, 12 lks. S. of the cor. of secs. 15, 16, 21 and 22.
	Thence,
	S. 89° 47' W., on true line, bet. secs. 16 and 21.
	Over broken mountainous land, desc. gradually through scattered shadscale and sagebrush undergrowth.
15.50	Ravine, 200 ft. below sec. cor., course S. 70° W. Asc. gradually over SE. slope.
25.40	Spur, 200 ft. above ravine, projects S. 70° W. Thence over broken top of bench.
35.40	Rim of Wahweap canyon, level with spur, bears N. and S. Desc. abruptly over sandstone ledges, bear N. and S.
39.92	At base of ledges, in Wahweap valley, 250 ft. below bench, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ corl of secs. 16 and 21, with brass cap mkd.,
	¼ S 16 / S 21 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Thence desc. gradually over rolling Wahweap valley.
62.50	Wahweap creek, dry, in wash, 20 ft. below ¼ cor., 3.00 chs. wide, 5 ft. deep, course S. 20° W. Thence asc. gradually. Enter scattered mountain rush and grass undergrowth
79.84	The cor. of secs. 16, 17, 20 and 21, 40 ft. above wash.
	Land, rolling and broken mountainous and rolling valley, general drainage to the S. and SW.

Chains	
	Soil, light, dry, sandy loam, mixed with sandstone and gravel. Subsoil sandy, mixed with sandstone and grav
	Timber, none.
	Undergrowth, scattered shadscale, mountain rush and gras
	Poor grazing. Some sagebrush undergrowth.
	N. 0° 03' W., on true line, bet. secs. 16 and 17.
	Over rolling Wahweap valley land, desc. gradually through scattered shadscale, greasewood, mountain rush and grass undergrowth.
10.00.	W. bank of Wahweap wash, 10 ft. below sec. cor., bears NW. and SE. Desc. into wash.
38.30	Wahweap creek, 10 ft. below bank, course SE. Dry except for a few small alkali seep along bottom of creek.
40.00	Point falls in Wahweap wash; where cor. would soon wash out, impracticable to set cor. here.
43.20	E. bank of Wash, 10 ft. above creek, bears N. 30° W. and S. 30° E. Asc. gradually.
44.19	In Wahweap valley on E. side of creek, 10 ft. above creek, 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. 16 and 17, with brass cap mkd.,
	¼ S 17 | S 16 W C 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Asc. gradually from ¼ cor.
66.50	Leave valley, bears NW. and SE., asc. abruptly over broken side of valley.
78.60	Spur, 150 ft. above ¼ cor., projects NW. Desc. gradually.
80.00	On NE. slope, 40 ft. below spur, 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.,

Chains	
	T 42 S R 2 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, S. portion rolling valley, N. portion broken mountainour, general drainage to the S.
	Soil, sandy loam and sand, mixed with sandstone and gravel, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, grease wood, mountain rush and grass. Fair grazing.

	N. 89° 47' E., on random line, bet. secs. 9 and 16.
40.00	Set temp. point for ¼ cor.
79.86	Intersect the N. and S. line, at the cor. of secs. 9, 10, 16 and 15,
	Thence,
	S. 89° 47' W., on true line, bet. secs. 9 and 16.
	Over broken blue clay land, through scattered sagebrush and shadscale undergrowth.
2.10	Gulch, level with sec. cor., course SW. Asc. gradually over clay slope.
6.00	Ridge, 80 ft. above gulch, bears N. and S. Leave clay formation and enter gravel sandy land, enter mountain rush, greasewood and grass undergrowth, bear with ridge. Desc. gradually.
39.93	On gradual NW. slope, 150 ft. below ridge,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground 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

Chains	
	of the cor.
	Desc. gradually.
42.40	Ravine, 20 ft. below ¼ cor., course N. Asc. over steep SE. slope.
52.60	Ridge, 80 ft. above ravine, bears NE. and SW. Desc. gradual NW. slope.
77.50	Gulch, 180 ft. below ridge, course NW. Asc.
79.86	The cor. of secs. 8, 9, 16 and 17, 60 ft. above gulch. Land, broken mountainous, general drainage to the NW. and SW.
	Soil, E. portion blue, subsoil same, mixed with sandstone W. portion, sandy clay loam mixed with gravel and sandstone, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, sagebrush, mountain rush, greasewood and grass. Fair grazing.
	N. 0° 03' W., on true line, bet. secs. 8 and 9.
	Over broken mountainous land, desc. abruptly over gravel steep NE. slope, through scattered sagebrush, greasewood, shadscale, mountain rush and grass undergrowth.
3.70	Gulch, 70 ft. below cor., course NW. Asc, abruptly over steep SW. slope.
16.40	Top of steep ascent and edge of bench, 210 ft. above the ravine, bears SW. and SE. Thence across nearly level top of gravel bench.
40.00	On gradual W. slope of bench, level with S. edge, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 8 and 9, with brass cap mkd.,
	¼ S 8 | S 9 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.

. Subdivision of T. 42 S., R. 2 E.

Chains	
48.70	Desc. gradually.
62.80	Ravine, 30 ft. below ¼ cor., course SW. Thence over broken mountainous, leave rolling bench, bears with ravine.
79.80	Spur, 40 ft. above ravine, projects W. Desc.
80.00	On N. slope, 10 ft. below spur,
	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 42 S R 2 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, broken mountainous and rolling gravel bench, general drainage to the SW. and W.
	Soil, sandy clay loam, mixed with gravel and sandstone, subsoil same.
	Timber, none.
	Undergrowth, scattered sagebrush, greasewood, shadscale, mountain rush and grass. Fair grazing.
	N. 89° 47' E., on random line, bet. secs. 4 and 9.
40.00	Set temp. point for ¼ cor.
79.77	Intersect the N.and S. line, 7 lks. N. of the cor. of secs. 3, 4, 9 and 10.
	Thence,
	S. 89° 50' W., on true line, bet. secs. 4 and 9.
	Over rough mountainous land, desc. abruptly over sand stone ledges on steep NW. slope, through scattered sagebrush, mountain rush, shadscale, and grass undergrowth.
22.00	Ravine, 450 ft. below sec. cor., course S.60° W. Asc. over steep clay hills.
29.00	Ridge, 80 ft. above ravine, bears S. 60° W. and N. 60° E. Desc. abruptly.

Chains	
35.40	Ravine, 110 ft. below ridge, course SW. Fork of ravine is about 3.00 chs. dist. SW. Asc.
39.88½	On SE. slope, 30 ft. above ravine, Set an ironpost, 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. Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor. Continue asc. over SE. slope.
41.30	Spur, 40 ft. above ¼ cor., projects SE. Asc.
56.00	Ridge, 40 ft. above spur, bears NE. and SW. Desc.
60.90	Ravine, 60 ft. below ridge, course SW.
63.80	Same ravine, course N. about 2.00 chs. dist. thence S. 80° W. Thence crossing and recrossing same ravine.
75.40	Leave same ravine, course SW. about 2.00 chs. dist. thence S. 70° W. Asc. gradually.
78.50	Ridge of main spur, 40 ft. above ravine, projects NE. and SW. Desc.
79.77	The cor. of secs. 4, 5, 8 and 9, 20 ft. below top of spur. Land, rough and broken mountainous, general drainage to the W. Soil, shallow sandy clay loam, mixed with gravel and sandstone. Subsoil rocky clay loam. Timber, none. Undergrowth, scattered sagebrush, mountain rush, shadscale and grass. Fair grazing.
	N. 0° 03' W., on random line, bet. secs. 4 and 5,
40.00	Set temp. point for ¼ cor.
83.55	Intersect the N. bdy. of the Tp. 7 lks. W. of the cor. of secs. 4, 5, 32 and 33, heretofore described.

Chains	
	Thence,
	South, on true line, bet. secs. 4 and 5.
	Over broken foothills desc. gradually over blue clay formation through scattered shadscale undergrowth.
10.50	Bottom of desc., 40 ft. below sec. cor., thence over rolling clay flat, bears NW. and SE.
43.55	On rolling blue clay flat, 40 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. 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 cor.
	Continue over clay flat.
44.80	Wash, level with ½ cor., 10 lks. wide, 6 ins. deep, drains W. Asc. gradually.
47.10	Asc. more abruptly, leave clay flat, enter sandstone sandy formation, and scattered sagebrush, grease-wood, rabbitbrush and grass undergrowth, bear E. and W.
58.60	Ridge, 250 ft. above wash, bears E. and W. Desc. over steep S. slope of ridge.
60.30	Ravine, 150 ft. below ridge, course SW. Asc.
68.40	Spur, 70 ft. above ravine, projects S. 70° W. Desc.
74.00	Top of small cone shaped butte, 100 ft. below spur. Desc.
76.00	Ravine, 70 ft. below cone, shaped butte, course S. 80° W. Asc.
83.55	The cor. of secs. 4, 5, 8 and 9, 30 ft. above ravine.
	Land, broken foothills, general drainage to the W.
	Soil, S. portion, sandy clay loam, mixed with sandstone and gravel, on rocky clay subsoil. N. portion, blue clay, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, sagebrush, greasewood,

Chains	
	rabbit-brush and grass. Fair grazing on S. portion of mile. No grazing on balance of mile.
	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 rolling sandy bench land, through scattered shadsca greasewood, oose;root, mountain rush and grass.
38.90	Leave rolling bench land, desc. gradually over broken bench land, bears E. and W.
40.00	20 ft. below rolling bench,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. o f secs. 31 and 32, with brass cap mkd.,
	¼ ✓ S 31 | S 32 1917
	No stone available for mound, pits impracticable on account of drifting sand.
	Thence over broken bench land.
74.10	Ravine, 30 ft. below ¼ cor., course NW. Asc. gradually.
75.00	Spur, 20 ft. above ravine, projects NW. Desc. abruptly into Coyote canyon.
80.00	On small spur, 80 ft. below spur, projects NE.,
	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.29, 30, 31 and 32, with brass cap mkd.,
	✓ T 42 S R 2 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, Rolling and broken bench land, general drainage

Chains	
	to the NE. and NW.
	Soil, light dry sand and sandy loam; subsoil same, some sandstone outcroppings at N. end of mile.
	Timber, none.
	Undergrowth; scattered shadscale, greasewood, goose-root, mountain rush, and grass. Fair grazing.
	East, on random line, bet. secs. 29 and 32.
40.00	Set temp. point for ¼ cor.
80.09	Intersect the N. and S. line, 22 lks. N. of true cor. point of secs. 28, 29, 32 and 33, 62 lks. N. of the W.C.
	Thence, from true cor. point,
	N. 89° 31' W., on true line, bet. secs. 29 and 32.
	Over rough mountainous land, desc. gradually through scattered shadscale, sagebrush, mountain rush, goose-root and grass undergrowth.
1.00	Ravine, 20 ft. below true point for cor., course S. 70° W. Asc. abruptly.
14.00	Spur, 100 ft. above ravine, projects SW. Desc. abruptly over sandstone ledges, into Coyote canyon.
34.50	Coyote wash, dry, 140 ft. below spur, course SW., 3.00 chs. wide, 4 ft. deep. Asc. gradually.
40.04	On W. side of wash, in Coyote canyon, 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. 29 and 32, with brass cap mkd., S 29 / S 32 / 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of the cor., 3 ft. dist.
	Asc. gradually.
46.00	Base of ledges, asc. abruptly over ledges, bear N. 20° W. and S. 20° E.
52.00	Top of ledges and edge of broken bench, 130 ft. above

Chains	
	¼ cor., thence over broken bench, bears N. 20° W. and S. 20° E.
75.00	Desc. abruptly from bench, bears NE. and SW.
80.09	The cor. of secs. 29, 30, 31 and 32, 50 ft. below bench,
	Land, rough and broken mountainous, general drainage N. and SE.
	Soil, sandy loam and sand, mixed with gravel and sandstor
	Subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, sagebrush, mountain rush, oose-root and grass. Fair grazing.
	N. 89° 57' W., on random line, bet. secs. 30 and 31.
40.00	Set temp. point for ¼ cor.
80.20	Intersect the W. bdy. of the Tp.14 lks. N. of the cor. of secs. 25, 30, 31 and 36, described in the notes of T. 42 S., R. 1 E.
	Thence,
	N. 89° 57' E., on true line, bet. secs. 30 and 31.
	Over broken bench land, through scattered sagebrush, greasewood, rabbit-brush and grass undergrowth.
20.70	Leave bench, bears N. and S, desc. into ravine.
31.70	Ravine, 50 ft. below bench, course NE. Lone cedar tree bears S. about 50 lks. dist. Asc.
33.00	Thence over rolling bench land, 40 ft. above ravine, bears with ravine.
40.20	On rolling bench land, 40 ft. above ravine,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 30 and 31, with brass cap mkd.,
	¼ S 30 / S 31 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Continue over rolling bench land.

Chains	
60.40	Leave bench lands, bear NE. and SW. Desc. into ravine.
62.40	Ravine, 30 ft. below bench, course NE. Asc.
74.20	Spur, 30 ft. above ravine, projects N. about 5.00 chs. dist. Desc. into ravine.
77.10	Mouth of ravine, 30 ft. below spur, course from the S. Asc. over sandstone rim rock.
80.20	The cor. of secs. 29, 30, 31 and 32, 40 ft. above ravine.
	Land, rolling and broken bench land, general drainage to the NE.
	Soil, light, sand and sandy loam, on subsoil of the same nature. Some sandstone and gravel outcroppings.
	Timber, none.
	Undergrowth, scattered sagebrush, greasewood, rabbit-brush and grass. Fair grazing.
	N. 0° 03' W., on true line, bet. secs. 29 and 30.
	Over broken mountainous land, desc. abruptly over sandstone rim rock, through scattered rabbit-brush, sagebrush, mountain mush and grass undergrowth.
2.50	Thence desc. gradually over canyon bottom, bears NW. and SW.
18.00	Coyote wash, dry, 60 ft. below cor., course SE. Asc. gradually, from wash which is 2.00 chs. wide and 6 ft. deep.
31.00	Cattle trail, bears with canyon.
33.00	Wash, 20 ft. above Coyote wash, 1.00 ch. wide, 3 ft. deep, drains SE.
37.00	Wash, level with wash, 40 lks. wide, 2 ft. deep, drains SW. Asc. gradually.
40.00	At foot of sand hills, 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. 29 and 30, with brass cap mkd.,

S 30 | S 29

1917

Chains	
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Asc. abruptly over steep, sandy S. slope.
53.70	Sandy spur, 100 ft. above ¼ cor., projects SE. about 10. chs. dist. Desc. into ravine.
57.60	Ravine, 90 ft. below spur, course SE. About 10.00 chs. E. of this point is a spring in box canyon, draining S. Spring is good drinking water, but is small.
	Asc. over sandstone ledges.
71.00	Leave ledges, bear with ravine, asc. gradually over sandy bench.
80.00	On S. slope of sandy bench, 130 ft. above ravine, Set a n 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 42 S R 2 E

S 19	S 20
S 30	S 22

1917

No stone available for mound, pits impracticable on account of drifting sand.

Land, rolling and broken bench and canyon bottom, general drainage to the SE.

Soil, light, dry, sand and sandy loam, subsoil same. Some sandstone ledges along canyons and ravines.

Timber, none.

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

S. 89° 51' E., on random line, bet. secs. 20 amd 29.

40.00	Set temp. point for ¼ cor.
80.00	Intersect the N. and S. line, 19 lks. S. of the cor. of secs. 20, 21, 28 and 29.

Thence,

N. 89° 59' W., on true line, bet. secs. 20 and 29.

Subdivision of T. 42 S., R. 2 E.

Chains	
	Over rolling sandy bench land, desc. gradually through scattered shadscale, greasewood, mountain rush, oose-root and grass undergrowth.
40.00	On gradual SE. 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. 20 and 29, with brass cap mkd., ¼ S. 20 / S. 29 1917
	No stone available for mound, pits impracticable on account of drifting sand.
	Thence along S. slope of sand ridge.
80.00	The cor. of secs. 19, 20, 29 and 30, level with ¼ cor.
	Land, rolling sandy bench, general drainage to the S. and E.
	Soil, very sandy, loam, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, oose-root and grass. Fair grazing.
	S. 89° 57' W.,on random line, bet. secs. 19 and 30.
40.00	Set temp. point for ¼ cor.
80.14	Intersect the W. bdy. of the Tp.16 lks. S. of the cor. of secs. 19, 24, 25 and 30, described in the notes of T. 42 S., R. 1 E.
	Thence, S. 89° 56' E., on true line, bet. secs. 19 and 30.
	Over rolling sandy bench land, asc. gradually through scattered oose-root, greasewood, willow bushes, sage-brush and grass undergrowth.
40.14	On S. slppe, 40 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. 19 and 30, with brass cap mkd.,

Subdivision of T. 42 S., R. 2 E.

Chains	
	$\frac{1}{4}$ S 19 / S 30 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Desc. gradually.
61.50	Ravine, 60 ft. below ¼ cor., course S. Asc. gradually.
80.14	The cor. of secs. 19, 20, 29 and 30, 50 ft. above ravine.
	Land, rolling sandy bench, with sandstone outcroppings, general drainage to the S.
	Soil, light, dry, sand and sandy loam, with some sandstone outcroppings, subsoil same.
	Timber, none.
	Undergrowth, scattered oose-root, greasewood, willow bushes, sagebrush and grass. Fair grazing.

	N. 0° 03' W., on true line, bet. secs. 19 and 20.
	Over rolling sandy bench land, asc. gradually through scattered greasewood, oose-root, mountain rush, willow bushes and grass undergrowth.
9.20	Sand ridge, 50 ft. above sec. cor., bears E. and W. Desc. gradual N. slope.
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 the ¼ cor. of secs. 19 and 20, with brass cap mkd.,
	¼ S 19 | S 20 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Desc. gradually.
45.00	Wash, 20 ft. below ¼ cor., 25 lks. wide, 2 ft. deep, drains NE.
52.00	Main wash, level with wash, 80 lks. wide, 4 ft. deep, drains E. Asc. gradually.

Chains	
74.70	Spur, 90 ft. above wash, projects E. about 5.00 chs. dist. Desc. gradually.
75.90	Wash, 20 ft. below spur, 20 lks. wide, 2 ft. deep, drains E. Asc. gradually.
80.00	On gradual S. slope, 20 ft. above wash, Set a n 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 2 E

S 18	S 17
S 19	S 20

1917

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

Land, rolling sandy bench, with sandstone outcroppings, general drainage to the E. and S.

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

Timber, none.

Undergrowth, scattered greasewood, oose-root, mountain rush, willow bushes and grass. Fair grazing.

S. 89° 59' E., on random line, bet. secs. 17 and 20.

40.00 Set temp. point for ¼ cor.

79.92 Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 16, 17, 20 and 21.

Thence,

West, on true line, bet. secs. 17 and 20.

Over rolling canyon bottom, asc. abruptly over canyon side, sandstone ledges, bear NW. and SE., through scattered shadscale, greasewood, mountain rush, sage-brush and grass undergrowth.

3.70 Top of sandstone ledges, 120 ft. above sec. cor., bear NW. and SE. Asc. gradually.

8.70 Top of ridge, 150 ft. above sec. cor., bears NW. and SE. Thence over rolling sandy bench land.

35.00 Desc. over sandstone ledges, into box gulch, bear NE.

Chains	
	and SW.
37.00	Box gulch, 80 ft. below bench, course SW. Asc. abruptly over sandstone ledges; bear with gulch,
33.26	On rocky spur, 80 ft. above gulch, projects SW., 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. for the ¼ cor. of secs. 17 and 20, with brass cap mkd.,
	¼ S 17 / S 20 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Desc. abruptly over sandstone ledges, bear NW. and SE.
50.30	Wash, in steep box canyon, 150 ft. below ¼ cor., 30 lks. wide, 2 ft. deep, course SE. Asc. abruptly over sandstone ledges, bear NW. and SE.
72.30	W. rim of canyon and top of ledges, 200 ft. above wash, bear NW. and SE. Thence over rolling bench land.
79.92	The cor. of secs. 17, 18, 19 and 20, level with top of ledges.
	Land, rolling and broken mountainous, general drainage to the SE.
	Soil, light, dry, sandy loam, mixed with sandstone, subsoil same.
	Timber, none.
	Undergrowth, scattered shadscale, greasewood, mountain rush, sagebrush and grass. Fair grazing.

	N. 89° 56' W.; on random line, bet. secs. 18 and 19.
40.00	Set temp. point for the ¼ cor.
72.34	Intersect the W. bdy. of the Tp. at the cor. of secs. 13, 18, 19 and 24, described in the notes of T. 42 S., R. 1 E.
	Thence,
	S. 89° 56' E., ontrue line, bet. secs. 18 and 19.

Subdivision of T. 42 S., R. 2 E.

Chains	
	Over rolling sandy bench land, asc. gradually through scattered mountain rush, sagebrush, greasewood, rabbit-brush and grass undergrowth.
30.00	Low sand ridge, 40 ft. above sec. cor., bears N. 30° W. and S. 30° E. Desc. gradually.
39.94	On gradual NE. slope, 20 ft. below ridge, Set a n 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., $\frac{1}{4}\ \frac{S\ 18}{S\ 19}\ \frac{}{1917}$ Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Desc. gradually, over sandy bench land.
75.00	Wash, 50 ft. below ridge, 20 lks. wide, 2 ft. deep, drains SE. Asc. gradually.
79.94	The cor. of secs. 17, 18, 19 and 20, 10 ft. above wash. Land, rolling sandy bench land, with a few sandstone outcrppings, general drainage to the NE. and W. and SE. Soil, light, dry, sand and sandy loam, subsoil same. Timber, none. Undergrowth, scattered mountain rush, sagebrush, greasewood, rabbit-brush and grass. Fair grazing.

N. 0° 03' W., on true line, bet. secs. 17 and 18.

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

15.00 Leave bench land, bears E. and W. Desc. abruptly over sandstone ledges, bear with bench.

22.60 Wash in box canyon, 130 ft. below bench, 40 lks. wide, 3 ft. deep, drains SE. Some scattered cottonwoods trees along canyon bottom. Water can be obtained in small quantities by digging a few feet in the sand in bottom of canyon.

Chains	
	Asc. abruptly over sandstone ledges bear with canyon.
29.60	Top of ledges and rim of broken bench, bears NW. and SE. Thence over broken point of bench.
33.70	Edge of bench, bears NE. and SW., desc. abruptly over sandstone ledges, bear NE. and SW.
40.00	Point falls in fork of box canyon, 110 ft. below point o bench, course SW. Impracticable to set cor. here on account of crumbling ledges. Asc. abruptly.
41.00	Edge of bench, 110 ft. above canyon, bears NE. and SW. Asc. gradually over broken sandstone and gravel ledge
42.55	On edge of rolling bench, 130 ft. above canyon, 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. 17 and 18, with brass cap mkd., $\frac{1}{4}$ S 18 | S 17 W C 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the W. C.
	Thence over rolling sandy bench land.
80.00	On rolling bench land, 20 ft. above ¼ W. C., 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 42 S R 2 E S 7 | S 8 S 18 | S 17 1917 No stone available for mound, therefore dig pits, 18 x 18 x 12 ins. in each sec. 5½ ft. dist. from the cor.
	Land, rolling sandy bench land, cut by deep box canyons draining SW. and SE.
	Soil, light, dry, sand and sandy loam, subsoil same, much sandstone along canyons.
	Timber, none.
	Undergrowth, scattered greasewood, mountain rush, rabbit-

Chains	
	brush, sagebrush and grass. Fair grazing.
	East, on random line, bet. secs. 8 and 17.
40.00	Point fall in ravine.
41.26	Set temp. point for ¼ W. C.
80.00	Intersect the N. and S. line, 6 lks. S. of the cor. of secs. 8, 9, 16 and 17.
	Thence,
	S. 89° 57' W., on true line, bet. secs. 8 and 17.
	Over broken mountainous land, through scattered rabbit-brush and sagebrush undergrowth.
1.40	Spur, level with sec. cor., projects NW. Asc. gradually.
3.20	Top of sandstone ledge along E. rim of Wahweap canyon, 20 ft. above cor., bears N. and S. Desc. abruptly.
8.80	Ravine at base of ledge, 60 ft. below top, course SW. Thence desc. gradually over rolling Wahweap canyon bottom,
17.10	E. bank of Wahweap wash, level with ravine, bears NW. and SE. Desc. into wash.
22.50	Wahweap creek, dry, 10 ft. below bank. Course SE. Asc. gradually.
31.00	W. bank of Wahweap wash, 10 ft. above creek, bears N. 20° W. and S. 20° E. Asc. abruptly over high sandstone wall, bears with creek bank.
38.70	Top of sandstone wall, 160 ft. above creek, bears N. 20° W. and S. 20° E. Desc. gradually.
38.74	On top of sandstone wall, 160 ft. above Wahweap creek; 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. 8 and 17 with brass cap mkd.;
	$WC\frac{1}{4}\ \frac{E\ 8}{S\ 17}\ 1917$
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.

Chains	
	Desc. gradually.
40.00	Point falls in ravine, 50 ft. below W. C., course SE. Impracticable to set cor. at this point on account of floods washing cor. out. Asc. gradually.
50.00	Thence over rolling bench land, 60 ft. above ravine, bears NW. and SE. Desc. gradually.
80.00	The cor. of secs. 7, 8, 17 and 18, 20 ft. below top of bench.
	Land, rolling and broken mountainous, with Wahweap canyon cutting through, general drainage to the SE. and SW.
	Soil, on east portion, rocky, sandy gravelly clayloam, on sandstone bedrock, W. portion, light, dry, sandy loam, subsoil same.
	Timber, none.
	Undergrowth, scattered rabbit-brush, shadscale, mountain rush and grass. Fair grazing.

	N. 89° 56' W., on random line, bet. secs. 7 and 18.
40.00	Set temp. point for ¼ cor.
79.86	Intersect the W. bdy. of the Tp. 18 lks. S. of the cor. of secs. 7, 12, 13 and 18, described in the notes of T. 42 S., R. 1 E.
	Thence,
	S. 89° 48' E., on true line, bet. secs. 7 and 18.
	Over rolling bench land, desc. gradually through scattered rabbit-brush, greasewood, shadscale and grass undergrowth
34.90	Ravine, 30 ft. below sec. cor., course SE. Asc. gradually.
39.86	On gradual SW. slope, 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. 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

Chains	
	of the ¼ cor.
	Asc. gradually.
41.60	Spur, 40 ft. above ¼ cor., projects SE. Desc. gradually.
79.86	The cor. of secs. 7, 8, 17 and 18, 30 ft. below spur.
	Land, rolling sandy bench land, general drainage to the SE.
	Soil, sandy clay loam, subsoil same.
	Timber, none.
	Undergrowth, scattered rabbit-brush, greasewood, shadscale, and grass. Fair grazing.

N. 0° 03' W., on true line, bet. secs. 7 and 8.

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

18.60 Leave rolling sandy bench land, enter broken clay bench land, bear E. and NW. Desc. gradually.

40.00 On broken blue clay bench, 80 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. 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 cor.

Desc. gradually over broken clay hills.

80.00 On broken blue clay bench land, 40 ft. below ¼ cor., Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 5, 6, 7, and 8, with brass cap mkd.,

T 42 S R 2 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.

Chains	
	Land, rolling sandy bench on the S. portion and broken clay hills on the N. portion, general drainage to the NE.
	Soil, on south portion, light, dry, sandy loam, subsoil same, N. portion blue clay, mixed with some sand, subsoil same. Few sandstone outcropping throughout mile.
	Timber, none.
	Undergrowth, scattered mountain rush, grease-wood, rabbit-brush and grass. Fair grazing on S. portion of mile, poor grazing on N. portion.

	N. 89° 57' E., on random line, bet. secs. 5 and 8.
37.40	Set temp. point for ¼ W. C.
40.00	Falls in wash.
72.28	Intersect the N. and S. line, 14 lks. S. of the cor. of secs. 4, 5, 8 and 9.
	Thence,
	S. 89° 51' W., on true line, bet. secs. 5 and 8.
	Over broken mountainous land, desc. through scattered mountain rush, greasewood, rabbit-brush and grass undergrowth.
30.60	Base of foothills and edge of Wahweap canyon, 100 ft. below sec. cor., bears N. and S. Thence desc. gradually overrolling Wahweap valley.
33.33	Falls in Wahweap creek, 20 ft. below base of foothills, Wahweap wash is 7.00 chs. wide, 8 ft. deep, course S. Dry. Asc. gradually.
40.58	On W. side of Wahweap wash, 10 ft. above creek,
	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 8, with brass cap mkd.,
	¼ S 5 / S 8 — WC — 1917
	Raise a mound of stone, 2 ft. base, 1 ft. high, north of the cor.

Chains	
	Continue gradual ascent over Wahweap valley.
45.60	Leave Wahweap valley enter rolling blue clay hills, both bear with creek.
79.98	The cor. of secs. 5, 6, 7 and 8, 40 ft. above creek.
	Land, rolling and broken mountainous, general drainage to the S. and SW.
	Soil, on E. portion rocky, gravelly, sandy clay loam, subsoil same. W. portion blue clay with some sand, and sandstone outcroppings, subsoil same.
	Timber, none.
	Undergrowth, scattered mountain rush, greasewood, rabbit-brush and grass. Fair grazing.

	N. 89° 48' W., on random line, bet. secs. 6 and 7.
40.00	Set temp. point for ¼ cor.
79.71	Intersect the W. bdy. of the Tp. 14 lks. S. of the cor. of secs. 1, 6, 7, and 12, described in the notes of T. 42 S., R. 1 E.
	Thence,
	S. 89° 42' E., on true line, bet. secs. 6 and 7.
	Over broken bench land, through scattered greasewood, mountain rush, rabbit-brush and grass undergrowth.
21.10	Spur, 60 ft. above sec. cor., projects SE. Leave bench lands and desc. over broken blue clay hills, bear with spur.
32.20	Foot of bench lands, 100 ft. below spur, bear NW. and SE. Thence over rolling blue clay hills.
39.71	On blue clay hills, 100 ft. below spur,
	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 / 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.

Chains	
	Desc. gradually over rolling blue clay hills, undergrowth becomes very scattered.
79.71	The cor. of secs. 5, 6, 7 and 8, 50 ft. below ¼ cor.
	Land, W. portion, broken sandy bench, E. portion, rolling and broken blue clay hills, general drainage to the S. and SE.
	Soil, W. portion, sandy, gravelly clay loam, subsoil same E. portion, blue clay, with some sand, subsoil same, sandstone outcroppings throughout mile.
	Timber, none.
	Undergrowth, scattered greasewood, mountain rush, rabbit-brush and grass. Fair grazing.

	N. 0° 03' W., on random line, bet. secs. 5 and 6.
40.00	Set temp. point for ¼ cor.
83.62	Intersect the N. bdy. of the Tp. at the cor. of secs. 5, 6, 31 and 32, heretofore described.
	Thence,
	S. 0° 03' E., on true line, bet. secs. 5 and 6.
	Over broken blue clay hills, desc. gradually through scattered shadscale, greasewood and grass undergrowth.
14.30	Gulch, 30 ft. below sec. cor., course E. Asc. gradually.
24.60	Spur, 40 ft. above gulch, projects SE. Desc. gradually.
43.62	On gradual S. slope of clay hills, 50 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 5 and 6, with brass cap mkd.,
	¼
	S 6 | S 5
	1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Desc. gradually.
59.30	Gulch, 60 ft. below ¼ cor., course S. 70° E. Asc. gradually.

Subdivision of T. 42 S., R. 2 E.

Chains

83.62 The cor. of secs. 5, 6, 7, and 8, 20 ft. above gulch.

Land, rolling and broken blue clay hills, general drainage tothe E.

Soil, blue clay mixed with sand and sandstone outcroppings subsoil same.

Timber, none.

Undergrowth, scattered shadscale, greasewood and grass. Poor grazing.

Latitudes, Departures and Closing Errors,

T. 42 S., R. 2 E.

Line Designated	Course	Dist. Chs.	Latitudes N.Chs.	Latitudes S.Chs.	Departures E.CHS.	Departures W,Chs.
East Bouhdary	North	483.76	483.76	.....	.....	.....
North "	West	479.48	.....	.....	480.26	479.48
West "	South	483.50	.....	483.50	.....	.....
South "	S.89°57'E.	80.26	.....	.07	80.26	.48
	East	400.00	.....	.....	400.00	.....
Convergency						.55
Totals			483.76	483.57	480.26	480.03
			483.57		480.03	
Error in Lat.			.19			
Error in Dep.					.23	

General Description of T, 42 S., R. 2 E.

The land embraced in the area of this township is in general very rough mountainous with numerous series of sandstone ledges throughout the township. The west part of the township, west of Wahweap canyon, is mostly rolling and broken bench land cut by ledgy canyons. This part of the township is very sandy , being pure sand in many places. The general drainage of the township is NW. and SE. into Coyote canyon draining SE. to Wahweap canyon, E. and W. into Wahweap canyon, drainang S. and E. and W. into Nipple canyon, which drains SW. into Wahweap canyon. The extreme NE. part

of the township drains NE. toward Tibbet canyon.

The soil of the township ranges from pure sand to heavy sandy clay loam, and pure clay, being usually shallow rocky, sandy clay loam, on sandstone bedrock, mixed with gravel along Wahweap canyon.

There is no timber in the township, except a few scattered cottonwood trees in Nipple canyon in sec. 2 and in the box canyon in secs. 17, 18 and 20.

Scattered growths of mountain rush, greasewood, shadscale, oose-root, willow bushes, yellow-top, rabbit-brush, and juniper occur in the township with a scattered growth of mountain grass. The grazing is fair on the mesas and benches of the township, but is scanty most everywhere.

There are numerous indications of coal in the township. Small coal veins a few inches in thickness are to be found among the ledges along Wahweap and Nipple canyons and in the breaks toward the SE. corner of the towhship, the indication being more numerous in the SE. part of the township. A few indications of coal are also found in Coyote canyon. The coal is of a fair grade of bituminous, with the veins thin and horizontal.

There are several springs and seeps of water in the townshi .The seeps occuring at numerous places in the Wahweap cree flowing for a short distance then disappearing. Water can be obtained in small quantities by digging in the sand in the box canyon in secs. 17, 18 and 20. Dripping spring in sec. 23 in Nipple canyon, flows about a gallon per minute of cold, water which carries considerable alkali and magnesia. Nipple spring in sec. 2, is the best water in this locality and flows about 10 gallons per minute. This water carries very little alkali or magnesia and carries some iron.

No improvements were found in the township except a short, stone and wire fence in sec. 2, which is in bad condition. No settlers in the township and none of the land is farmed. The entire township is used for grazing.

General Description of T. 42 S., R. 2 E.

Chains

Wahweap and Coyote canyon can be traversed with wagons throughout the township and Ripple canyon as far as Dripping spring in sec. 23. A trail runs from Ripple spring to Tibbet canyon on the East and NW. to Wahweap canyon, through the township N. of this one. A trail also runs from Wahweap creek, W. to Coyote canyon, leaving Wahweap in sec. 8 and running about W. This trail is not always distinct where line crosses it, on account of sand but is usually easily followed, and a wagon can be taken over it.

No minerals were found in the township.

Blank

Page

West ½ sec. 2, Nipple spring.

SW. ¼ sec. 23, Dripping spring.

Secs. 8, 17, 21 and 28, small seeps in to bottom of Wahweap canyon, flowing for a short distance and then disappearing.

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Page

4—680

BOOK A-433

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Lynn Phelps	First assistant.
Melvin Lewis	" "
Lacel Bird	" and second assistant.
Ira Mace	Second Assistant.
Ray Roberson	" " and flagman.
Pharo Phelps	Cornerman.
Roy Lloyd	"
Lester Metcalf	Flagman.
Hugh Parry	Axeman.
Harold Phelps	"

6—2764

348

CERTIFICATE OF UNITED STATES ~~SURVEYOR.~~ TRANSITMAN.

I, Lyman E. Bolinger, Transitman, U. S. ~~Surveyor~~, hereby certify upon honor that, in pursua

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 t

in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instr

tions, and the laws of the United States, ~~surveyed~~ retraced, resurveyed & surveyed all those parts or portions of of the south boundary and surveyed all the portions or parts of the East and north boundaries and subdivision of T. 42 S., R. 2 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented and index diagram on page 1 of same, and on dates shown on said dia the foregoing field notes, as having been executed by me, and under my direction; and that all the corners said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instru tions, 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 such survey.

Lyman E. Bolinger

U. S. ~~Surveyo~~ Trans

Dated May 28, 1916

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

A—6850

BOOK A-433

FIELD ASSISTANTS.

NAMES	CAPACITY.
[illegible]	First assistant.
[illegible]	" "
[illegible]	" and second assistant.
[illegible]	Second assistant.
[illegible]	" " and flagman.
[illegible]	Flagman.
[illegible]	"
[illegible]	Laborer.
[illegible]	Axeman.
[illegible]	"

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Thos. C. Rathbone, U. S. Surveyor, hereby certify upon honor that, in pursua
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 tr
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instr
tions, and the laws of the United States, retraced, resurveyed and surveyed all those parts or portions of the south boundary and surveyed all those parts and portions of the East and north boundaries and subdivision of T. 42 S., R. 2 E.
of the Salt Lake Base and Meridian, in the State of Utah, which are represented
the foregoing field notes and index diagram on page 1 of same, and on dates shown on said diag as having been executed by me, and under my direction; and that all the corners
said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instru
tions, 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
such survey.

Thos C Rathbone
U. S. Surveyo

Dated Apr 24 1918.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Oct. 15, 1918

The foregoing field notes of the survey of retracement, resurvey, and survey of the south boundary and the survey of the east and north boundaries and subdivision of Township No. 42 South, Range No. 2 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, 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.

M. O. Thoresen
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in
, has been correctly copied from the original notes on file in this office.

6—6784

U. S. Surveyor General.

4—679

BOOK A-433 E.

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

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT, RESURVEY AND SURVEY OF THE EAST BOUNDARY, SURVEY OF THE NORTH BOUNDARY AND THE RETRACEMENT, RESURVEY AND SURVEY OF A FRACTION OF THE SUBDIVISION OF T. 42 S., R. 1 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* February 1, 191 6, *issued by the United States Surveyor General to govern surveys included in Group No.* 42, *which were approved by the Commissioner of the General Land Office,* March 9, 1916. and under assignment instructions dated May 3, 1917, issued by the Asst. Supervisor of Surveys for Utah.

Survey commenced June 16, 1917

Survey completed July 29, 1917.

6—151

Examined Recorded

A Plat E.P.B. Notes E.B.

B Computations F.B.B.

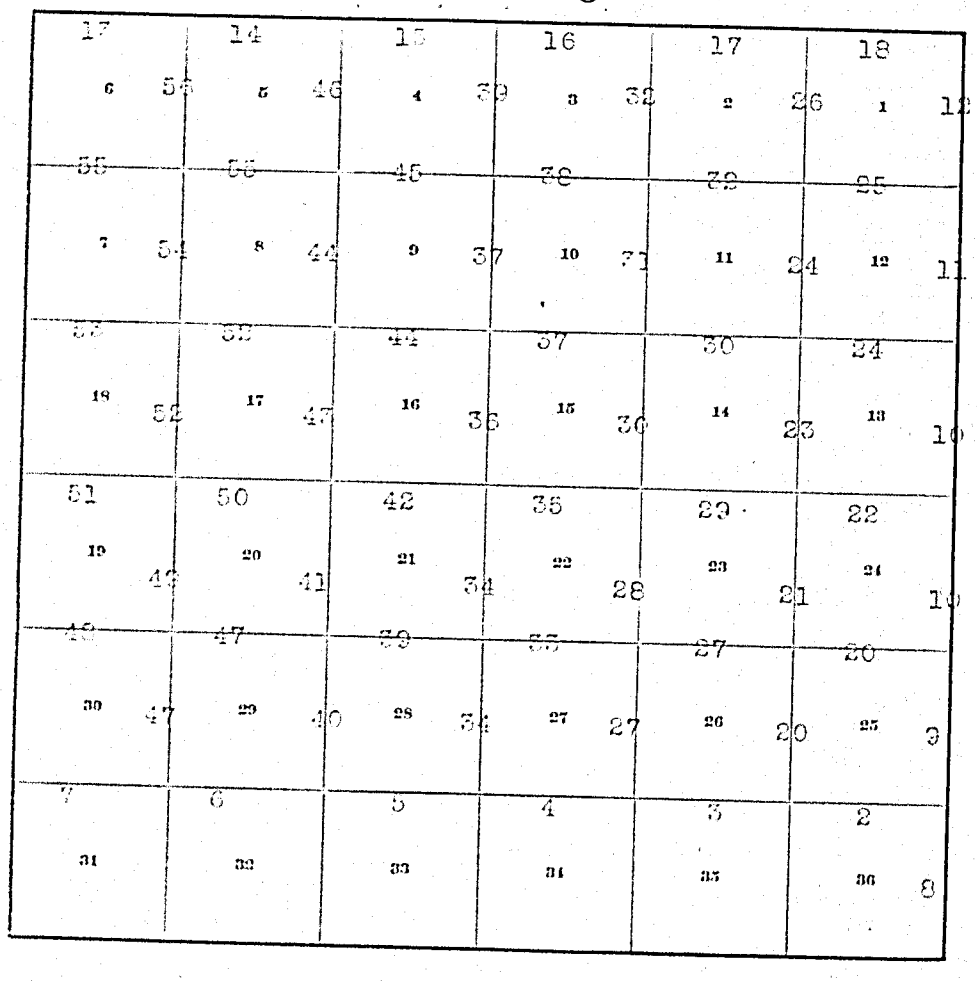
Comparing

C Plat V.I.F. Notes H.F.B.

Book A 483

INDEX DIAGRAM.

Township 42 South, *Range* 1 East.

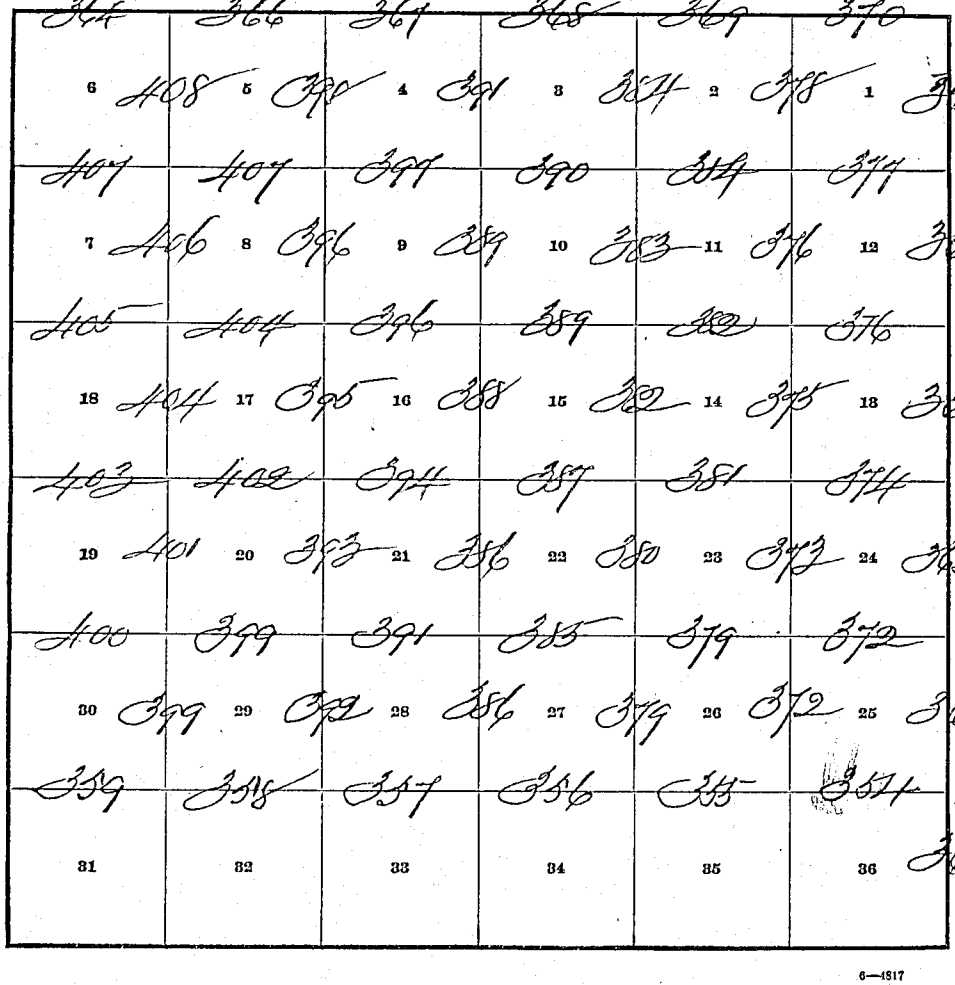


BOOK A-433

4—679 b

INDEX DIAGRAM.

Township 42 S, Range 1 E



6—1917

Preliminary Data.

Date Diagram.

For notes of this line see T. 42 S., R. 1 W.

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

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

Lines dated and colored in red were surveyed by Lyman E. Bolinger, U.S.Transitman.

Survey commenced June 16,1917, and executed with W.& 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.42 S.,R.2 E.,Utah.

The instruments were approved for use in this survey by the Assistant Supervisor of Surveys for Utah, in assignment instructions dated May 3,1917, conditional upon

RETRACEMENTS AND RESURVEYS OF T.42 S.,R.1 E.

Chains

satisfactory field tests.

That the instruments remained in good adjustment throughout the survey was evidenced by frequent tests on a Polaris meridian and by daily noon observations for latitude.

Measurements were made with 5 ch. steel tapes which were tested frequently with a standard steel tape. Slope measurements were reduced to the true horizontal distances by the use of clinometers for reading vertical angles and the application of the standard field tables.

I begin at the restored cor. of secs. 25, 30, 31, and 36 hereinafter described on the E. bdy. of T.

Thence

West retracing line bet. secs. 25 and 36.

40.00 Find no trace of old ¼ sec. cor. Set temp. ¼ sec. cor.

80.04 Full 99 lks. N. of old cor. of secs. 25, 26, 35, and 36, which is a sandstone 12"x 10"x 6"ins. dimly marked with one notch on edge; other marks obliterated. I reestablish cor. as follows:

At exact point of old cor. set the above described sandstone 8 ins. in the ground for the cor. of secs. 25, 26, 35, and 36, marked with 1 notch on S. and 1 notch on E. edge; and raise a mound of stone 2 ft. base, 1½ ft. high,W. of cor.

Therefore the course of this line is S.89°17'W. and the distance is 80.05 chs.

Thence

N.89°17'W. on resurvey bet. secs. 25 and 36.

Over broken bench land cut by box gulches.

3.75 Ravine, intersection of two washes, course NE. Ascend 15 ft. to

4.75 Spur, projects W. about 2 chs. Descend 15 ft. to

5.25 Ravine, course NW. Ascend 50 ft. to

5.50 Course over level bench land.

RETRACEMENTS AND RESURVEYS OF T.42 S.,R.1 E.

Chains	
40.02½	Set an iron post 3 ft. long, 1 in. in diam., 26 in. in the ground, for the restored ¼ sec. cor. with brass cap marked ¼ S 25 / S 36 1917
	No rocks available for mound. Impracticable to dig pits.
80.05	The cor. of secs. 25, 30, 31, and 36.
	Land, first 10 chs. broken benches cut by gulches; remainder level bench.
	Soil, good quality sandy loam.
	No timber.
	Undergrowth, greasewood, mountain rush, oose-root, rabbit-brush, and scattering grass.

	From the reestablished cor. of secs. 25, 26, 35, and 36.
	S.89°53'W. retracing line bet. secs. 26 and 35.
39.98	Find no trace of ¼ sec. cor. Set temp. ¼ sec. cor.
79.85	Fall 149 lks. S. of the old cor. of secs. 26, 27, 34, and 35, which is a sandstone 10 x 8 x 4 ins. above ground, marked and witnessed as described by the surveyor general.
	Therefore the course of this line is N.89°03'W. and the distance is 79.86 chs.
	Thence
	S.89°03'E. on resurvey bet. secs. 26 and 35.
	Over rolling mountainous land.
9.40	Top of mesa land, thence over rolling bench.
39.93	Set an iron post 3 ft. long, 1 in. in diam., 20 in. in the ground and 6 in. in a mound of stone, for the restored ¼ sec. cor. with brass cap marked ¼ S 26 / S 35 1917
	Raise mound of stone, 2 ft. base, and 1½ ft. high N. of cor.
	Thence descend 80 ft. to
47.50	Ravine, course SE. Ascend 70 ft. out of ravine to
56.10	Spur, projects SE. about 10 chs. Descend 155 ft. to

RETRACEMENTS AND RESURVEYS OF T.42 S.,R.1 E.

Chains

79.86 The cor. of secs. 25, 26, 35, and 36.

Land, rolling mountainous with sandstone ledges outcropping and cut by ravines draining SE.

Soil, clay and sandy loam on a sandstone subsoil.

No timber.

Undergrowth, mountain rush, greasewood, shadscale, and rabbit-brush.

From the reestablished cor. of secs. 26, 27, 34, and 35.

S.89°45'W. retracing line bet. secs. 27 and 34.

40.03 Find no trace of ¼ sec. cor. Set temp. ¼ cor.

78.66 Fall 304 lks. S. of the old cor. of secs. 27, 28, 33, and 34, which is a white sandstone 16 x 8 x 4 ins. lying on the ground and marked 1 notch on one edge and 3 notches on opposite edge.

The above retracements show it will be necessary to run a sectional correction line for the tier of sections to the north, therefore I reestablish old cor. as follows;

At exact point of old cor. set the above described stone 12 in. in the ground for the cor of secs. 33 and 34.

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

Therefore the course of this line is N.88°02'W. and the distance is 78.71 chs.

Thence

S.88°02'E. on resurvey of the N. bdy. of sec. 34.

Over rolling bench land through scattering undergrowth.

38.68 Subsequently set an iron post, 3 ft. long, 1 in. in diam. 26 in. in the ground, for the ¼ sec. cor., with brass cap marked

¼ S 27

1917

No rocks available for mound. Sandy, pits impracticable.

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

¼ S 34

1917

Chains	
	No rocks available for mound. Sandy, pits impracticable.
78.71	The cor. of secs. 26, 27, 34, and 35.
	Land, rolling mountainous, and bench.
	Soil, light sandy loam mixed with clay and sandstone outcroppings.
	No timber.
	Undergrowth, rabbit-brush, shadscale, mountain rush, oose-root, and grass.

	From the reestablished cor. of secs. 33 and 34.
	West retracing line bet. secs, 28 and 33.
39.87	Intersect old ¼ sec. cor.
79.12	Fall 45 lks. N. of old cor. of secs. 28, 29, 32, and 33 which is a gray sandstone 10 x 4 x 4 ins. lying on the ground, marked 1 notch on 1 edge and 4 notches on opposite edge. I reestablish cor. as follows:
	At exact point of old cor. set the above described sandstone 7 in. in the ground for the cor. of secs. 32 and 33 only; dig pits 24 x 24x 12 ins. in said secs. 6 ft. dist.
	Therefore the course of the W. half mile is S.89°21'W. and the distance is 39.25 chs. and the course of the E. half mile is West and the distance is 39.87 chs.
	Thence
	N.89°21'E. on resurvey of N. bdy. of sec. 33. W. half.
	Over rolling sandy bench land, through scattering undergrowth.
33.90	Descend 20 ft. to
37.75	In small ravine course NE., subsequently set an iron post, 3 ft. long, 1 in. diam., 26 in. in the ground for ¼ cor. sec. 28 only, with brass cap marked
	¼ S. 28
	1917
	Raise mound of stone, 2 ft. base, 1½ ft. high N. of cor.
39.25	The old ¼ cor. secs. 28 and 33 which is a gray sandstone

Chains	
	30 x 10 x 5 ins. lying on ground and marked ¼ on face. I reestablish cor. as follows:
	Set above described sandstone 20 ins. in the ground for ¼ cor. of sec. 33, with ¼ marked on S. face; raise mound of stone 2 ft. base 1½ ft. high S. of cor.
	Thence
	East on resurvey of N. bdy. of sec. 33. E. half.
	Over rolling bench land through scattering undergrowth.
39.87	The cor. secs. 33 and 34.
	Land, rolling benches with sandstone outcrops.
	Soil, sandy and clay loam with sandy subsoil.
	No timber.
	Undergrowth, mountain rush, greasewood, oose-root, shadscale, and grass.

	From the reestablished cor. of secs. 32 and 33.
	West retracing line bet. secs. 29 and 32.
42.70	Fall 51 lks. S. of the old ¼ Sec. cor.
	Thence west from old ¼ sec. cor. by continuous measurement
82.49	Fall 32 lks. S. of old cor. of secs. 29, 30, 31, and 32 which is a sandstone 8 x 8 x 2 ins., lying on the ground marked and witnessed as described by the surveyor general. I reestablish cor. as follows:
	At exact point of old cor. set above described sandstone 5 ins. in ground for the cor. of secs. 29, 30, 31, and 32, marked 1 notch on S. and 5 notches on E. edge; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.
	Therefore the course of E. half mile is N.89°19'W. and the distance is 42.70 chs., and the course of the W. half mile is N.89°32'W. and the distance is 39.79 chs.
	Thence
	S.89°32'E. on resurvey of N. bdy. of sec. 32. W. half.
	Over sandy and rolling bench land through scattering undergrowth.
5.40	Old trail, bears NE. and SW.
10.40	Gradually descend 35 ft. to

Chains	
21.70	Ravine, course NE. Ascend 60 ft. over rolling bench land to
39.79	The old ¼ cor. secs. 29 and 32 which is a sandstone 12 x 12 x 4 ins. lying on ground and marked ¼ on face. I re-establish cor. as follows:
	Set above described sandstone 8 ins. in the ground for the ¼ cor. sec. 32, marked ¼ on S. face; dig pits 18 x 18 x 12 ins. E. and W. of cor., 3 ft. dist.
	Thence
	S.89°19'E. on resurvey of N. bdy. of sec. 32. E. half.
.38	Subsequently set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ cor. of sec. 29, with brass cap marked
	¼ S 29
	1917
	Raise mound of stone 2 ft. base, 1½ ft. high, N. of cor.
40.43	The point for the closing cor. for secs. 28 and 29.
42.70	The cor. of secs. 32 and 33.
	Land, rolling bench.
	Soil, sandy loam with sandstone subsoil and outcroppings.
	No timber.
	Undergrowth, rabbit-brush, greasewood, oose-root, mountain rush, shadscale, and grass. Good grazing.
	From the reestablished cor. of secs. 29, 30, 31, and 32.
	West retracing line bet. secs. 30 and 31.
40.23	Fall 11 lks. S. of old ¼ sec. cor.
	Thence west from old ¼ sec. cor. with continuous measurement.
80.65	Fall 42 lks. S. of the cor. of secs. 25, 30, 31, and 36, described in notes of T.42 S.,R.1 W.
	Therefore the course of the E. half mile is N.89°51'W. and distance 40.23 chs., and the course of the W. half mile is N.89°24'W. and the distance is 40.42 chs.
	Thence
	S.89°24'E. on resurvey bet. secs. 30 and 31. W. half.
	Over rolling and broken bench land, through scattering

RETRACEMENTS AND RESURVEYS OF T.42 S.,R.1 E.

Chains	
	undergrowth.
	Ascend 25 ft. to
5.70	Low ridge, bears N. and S. Descend 150 ft. over sandstone ledges to
22.10	Ravine, course NE. Ascend out of ravine to
46.42	The old ¼ cor. of secs. 30 and 31 which is a sandstone 12 x 8 x 2 ins. lying on the ground, marked ¼ on face. I reestablish cor. as follows:
	Set above described sandstone 8 ins. in ground for the ¼ cor. of secs. 30 and 31, marked ¼ on N. face, raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	Thence
	S.89°51'E. on resurvey bet. secs. 30 and 31. E. half.
40.23	The cor. of secs. 29, 30, 31, and 32.
	Land, rolling and broken by sandstone ledges.
	Soil, sandy loam with considerable sandstone in W. portion.
	No timber.
	Undergrowth, rabbit-brush, greasewood, oose-root, shad-scale, and grass.

RETRACEMENTS, RESURVEY, AND SURVEY OF THE EAST BOUNDARY OF T.42 S.,R.1 E.

From the reestablished cor. of Ts. 42 and 43 S.,Rs. 1 and 2 E. heretofore described.

Thence

North retracing line bet. secs. 31 and 36.

40.00 Find no trace of old ¼ sec. cor. Set temp. ¼ cor.

80.00 Find no trace of old sec. cor., therefore I set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the restored cor. of secs. 25, 30, 31, and 36, with brass cap marked,

T42S

R1E	R2E
S 25	S 30
S 36	S 31

1917

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

Thence

Chains	
	South on resurvey bet. secs. 31 and 36.
	Over rolling hills with sandstone outcroppings, through scattering undergrowth.
40.00	Set an iron post, 3 ft. long, 1½in. diam., 26 ins. in the ground for ¼ sec. cor. with brass cap marked

¼

S 36 | S 31

1917

	Dig pits 18 x 18 x 12 ins., N. and S. of cor. 3 ft. dist.
80.00	The cor. of Ts. 42 and 43 S., Rs. 1 and 2 E.
	Land, rolling hills, sandstone outcroppings, drainage general NE.
	Soil, light red sandy loam.
	No timber.
	Undergrowth, scattering sagebrush, loose-rock. Good grazing.

	From the cor. of secs. 25, 30, 31, and 36.
	Thence
	North on a true line bet. secs. 25 and 30.
	Over rolling hills, through scattering undergrowth.
	Descend 75 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked

¼

S 25 | S 30

1917

	Dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
46.50	Coyote Wash, 20 ft. below ¼ sec. cor., drains SE. Ascend abruptly 250 ft. to
70.00	Top of ridge, bears E. and W. Descend gradually to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., on bare sandstone, 24 ins. in mound of stone, 4 ft. base, for the cor. of secs. 19, 24, 25, and 30, with brass cap marked

T42S

R1E | R2E

S24 | S19

S25 | S30

1917

Chains	
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of post.
	Land, rolling hills and broken mountainous, sandstone outcroppings.
	Soil, light dry loam.
	No timber.
	Undergrowth, scattering sagebrush, oose-root.

	North on true line bet. secs. 19 and 24.
	Over rolling hills, sandstone outcrops, through scattering undergrowth.
	Descend 40 ft. to
5.00	Wash, drains W. Ascend gradually 50 ft. to
17.50	Spur, projects S.70°W. Descend gradually.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked,

¼

S 24 | S 19

1917

	No stones available for mound, pits impracticable.
42.00	Swale, 30 ft. below spur, drains SW. Ascend 30 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 13, 18, 19, and 24, with brass cap marked,

T42S

R1E | R2E

S 13 | S 18

S 24 | S 19

1917

	Dig pits 24 x 24 x 18 ins. in each sec., 5½ ft. dist.
	Land, rolling sand hills, sandstone outcroppings,
	Soil, light dry sandy loam. No timber.
	Undergrowth, scattering sagebrush, oose-root, and grass.

	North on true line bet. secs. 13 and 18.
	Over rolling hills, through scattering undergrowth.
	Ascend 30 ft. to
13.00	Spur, projects W. Descend 40 ft. to
17.00	Gulch, drains W., cottonwood trees in bottom, seep springs

Chains	
	may be dug and water obtained in the sand under the cottonwoods. Ascend 70 ft. to
26.50	Ridge, bears E. and W. Descend.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 13 | S 18 1917
	Dig pits 18 x 18 x 12 ins., N. and S. of cor., 3 ft. dist.
76.00	Gulch, 90 ft. below ridge, drains S.60°E. Ascend 50 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 12, 13, 7, and 18, with brass cap marked T42S R1E | R2E S 12 | S 7 S 13 | S 18 1917
	Dig pits, 18 x 18 x 12 ins., in each sec., 5½ f t. dist.
	Land, rolling mountainous, bench, sandstone outcroppings.
	Soil, sandy loam.
	No timber.
	Undergrowth, shadscale, oose-root, scattering cottonwoods.
	Good grazing.
	North, on true line bet. secs. 7 and 12.
	Over rolling bench land, through scattering undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 12 | S 7 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of cor., 3 ft. dist.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 1, 6, 7, and 12, with brass cap marked T42S R1E | R2E S 1 | S 6 S 12 | S 7 1917

RETRACEMENTS, RESURVEYS,

AND SURVEY OF THE EAST BOUNDARY OF T.42 S.,R.1 E.

Chains	
	Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.
	Land, sloping bench, sandstone outcroppings.
	Soil, light sandy loam on sandstone subsoil.
	No timber.
	Undergrowth, scattering sagebrush, shadscale, oose-root.
	Good grazing.

	North, on true line bet. secs. 1 and 6.
	Over rolling bench land, through scattering undergrowth.
	Ascend 40 ft. to
38.00	Top of ascent. Thence descend over NE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked
	¼ S 1 | S 6 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
53.00	Ravine, 130 ft. below top of ascent, drains SE. Ascend over broken sandstone ledges, enter scattering cedars, bears E. and W. Ascend 410 ft. to
80.00	Set temp. cor. Ts. 41 and 42 S., Rs. 1 and 2 E.
83.50	Later determined as true cor. point. W. C. set at 14.19 chs. N. (See page 19 these notes).
	Land, S. half rolling bench, general S. drainage, N. half rough and broken mountainous, SE. drainage.
	Soil, S. half light sandy loam, N. half sandy, rocky.
	No timber, except few scattering cedars.
	Undergrowth, shadscale, scattering cedar, oose-root.

	SURVEY OF NORTH BOUNDARY OF T.42 S.,R.1 E.
	From the temp. cor. Ts. 41 and 42 S., Rs. 1 and 2 E.
	Thence
	West, on a random line on N. bdy. of T., setting temp. cors. at intervals of 40 and 80 chs.
131.57	West edge of mesa, descend over abrupt cliffs. Impracticable to chain W. from this point, therefore to determine distance over cliffs I proceed as follows:

SURVEY OF NORTH BOUNDARY OF T.42 S.,R.1 E.

Chains

Set flag at this point and set flag W. on line at foot of cliffs. I then proceed to the flag at foot of cliffs and measure a base S.43°32'E. 10.00 chs. from which point the flag on edge of mesa bears N.76°46'E., therefore the distance bet. the two flags on line is

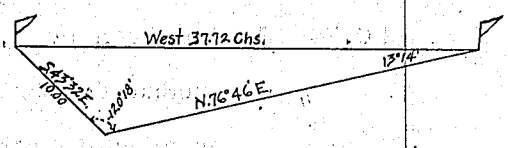
$$10.00 \times \frac{\sin 120° 18'}{\sin 13° 14'}$$ computing

log 10.00 -------- 1.000000

Log sin 120°18' ---9.936210

colog sin 13°14' ---0.640322

log 37.72 -------- 1.576532



37.72 chs. added to 131.57 chs. gives

169.29 Point of triangulation. Thence I measure E. 9.29 chs. to

160.00 Set temp. cor. of secs. 2, 3, 34, and 35.

Thence I continue W. on random on N. bdy. of T.

320.75 Impracticable to chain further on line therefore I offset as follows to avoid impassable cliffs.

South 17.77 chs. thence

West on offset line 40.90 chs. thence

North 17.77 chs. to point on random line 361.65 chs. west of temp. T. cor. Thence I measure E. 1.65 chs. to

360.00 Set temp. ¼ cor. secs. 5 and 32.

Thence continue W. on random on N. bdy. of T.

480.74 Intersect W. bdy. of T. 3.50 chs. S. of the cor. of Ts. 41 and 42 S., Rs. 1 E. and 1 W., which is an iron post 3 ins. diam., marked and witnessed as described in notes of T. 42 S., R. 1 W.

Thence from the above T. cor.

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

Over broken bench land, through scattering cedar and pinion timber, and undergrowth.

6.00 Leave bench land and timber, bears N. and S. Descend 200 ft. over broken sandstone ledges to

36.50 Coyote Wash, 100 lks. wide, 6 ft. deep, course S. Ascend 140 ft. over decomposing sandstone ledges, bears N. and S.

38.00 Top of ledges, bears N. and S. Thence over bench land.

SURVEY OF NORTH BOUNDARY OF T.42 S.,R.1 E.

Chains

40.74 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, on solid rock and 20 ins. in a mound of stone for the ¼ sec. cor., with brass cap marked

¼ S 31 / S 6 / 1917

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

Thence gradually ascend 150 ft. to

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

T41S R1E
S 31 | S 32
S 6 | S 5
T42S
1917

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

Land, broken bench, drainage into Coyote Wash.

Soil, shallow sandy and gravelly loam.

Timber, scattering cedar and pinion.

Undergrowth, shadscale, yellow-top, service-berry, mountain rush.

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

Ascend over broken foothills, bears NW. and SE., through shadscale and yellow-top.

62.00 Begin abrupt ascent to high gray bluffs, bears NW. and SE.

38.35 Offset point.

40.00 Set an iron post, 3 ft. long, 1 in. diam., on solid rock, 26 ins. in mound of rock, for the ¼ sec. cor., with brass cap marked

¼ S 32 / S 5 / 1917

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

Thence return W. 1.65 chs. to offset point at 38.35 chs.

Thence

South 21.27 chs.

SURVEY OF NORTH BOUNDARY OF T.42 S.,R.1 E.

Chains	
	East, 40.90 chs. to E. end of offset line.
	North, 21.27 chs. to
79.25	Offset point on true line. Thence E. to
80.00	On rugged SE. slope, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in crack bet. 2 stationary boulders, firmly rocked in for the cor. of secs. 4, 5, 32, and 33, with brass cap marked

T41S R1E

S 32 | S 33

S 5 | S 4

T42S

1917

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

Note- The following is the approximate topography along true line.

63.00, top of high gray bluffs, 600 ft. above ¼ sec. cor. and 840 ft. above sec. cor., bears NW. and SE. Thence over point of mesa, through scattering cedar and pinion timber.

69.90, Leave mesa and timber, bears NE, and SW., descend 550 ft. over vertical sandstone walls, bears NE. and SW.

Land, broken bench, rugged breaks and high gray bluffs.

Soil, shallow rocky and gravelly sand on bedrock.

Timber, dense cedar and pinion on mesa.

Undergrowth, shadscale and yellow-top.

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

Descend abruptly over broken sandstone ledges, through shadscale, white sage, and yellow-top.

34.50 White sandstone pinnacle, 50 ft. high, 40 ft. base, S. edge on line.

40.00 200 ft. below sec. cor., set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor. with brass cap marked

¼

S 33

S 4

1917

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

SURVEY OF NORTH BOUNDARY OF T.42 S., R.1 E.

Chains	
52.00	Wash, 80 ft. below ¼ sec.cor., 50 lks. wide, course S.20°W.
	Ascend 100 ft. to
75.00	Spur, projects SW. Descend 20 ft. to
80.00	On E. slope, set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground and 14 ins. in a mound of stone for the cor. of secs. 3, 4, 33, and 34, with brass cap marked T41S R1E S 33 | S 34 S 4 | S 3 T42S 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rough and broken bluffs and benches, general south drainage.
	Soil, shallow sandy and gravelly loam.
	No timber.
	Undergrowth, shadscale, yellow-top, and white sage.

	East, on true line bet. secs. 3 and 34.
	Over broken bench land, through yellow-top, shadscale, and white sage.
2.20	Gulch, 40 ft. below cor., drains S. Ascend.
7.00	Top of ascent, 70 ft. above gulch. Thence over broken bench.
25.00	Wash, 50 ft. below top of ascent, drains SW. Ascend 180 ft. to
33.50	Spur, projects N. Descend 50 ft. to
40.00	On E. slope, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 34 / S 3 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
42.00	Ravine, 30 ft. below ¼ sec. cor., course NW. Ascend 170 ft. to
54.00	Spur, projects NW. Descend 50 ft. to
70.00	Ravine, course NW. Ascend.
70.71	Point of triangulation. Continue ascent.

SURVEY OF NORTH BOUNDARY OF T.42 S.,R.1 E.

Chains	
80.00	At foot of high gray bluffs, bears N. and S., set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor of secs. 2, 3, 34, and 35, with brass cap marked T41S R1E S 34 | S 35 S 3 | S 2 T42S 1917 Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, broken bench, general N. and W. drainage. Soil, shallow rocky and gravelly loam. No timber. Undergrowth, shadscale, yellow-top, and white sage.
	East, on true line bet. secs. 2 and 35.
	Ascend abruptly over cliffs and ledges, through scattering shadscale, yellow-top, and white sage.
28.43	Point of triangulation on edge of mesa.
28.80	Top of high gray bluff, rim of mesa, 800 ft. above sec. cor. Thence over mesa, through dense cedar, pinion, service-berry, and mountain rush.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and 12 ins. in a mound of rock for the ¼ sec. cor., with brass cap marked ¼ S 35 / S 2 1917. From which A cedar, 14 ins. diam., bears N.50½°E., 36 lks. dist., marked ¼ S 35 B T. A cedar 12 ins. diam., bears S.44°W., 146 lks. dist., marked ¼ S 2 B T. Thence continue over nearly level mesa.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock and 18 ins. in mound of stone for the cor. of secs. 1, 2, 35, and 36, with brass cap marked

SURVEY OF NORTH BOUNDARY OF T.42 S.,R.1 E.

Chains	
	T41S R1E S 35 | S 36 S 2 | S 1 T42S 1917
	From which
	A pinion, 6 ins. diam., bears N.74°E., 51 lks. dist., marked T 41 S R 1 E S 36 B T.
	A pinion, 14 ins. diam., bears S.51°E., 197 lks. dist., marked T 42 S R 1 E S 1 B T.
	A pinion, 10 ins. diam., bears S.51°W., 110 lks. dist., marked T 42 S R 1 E S 2 B T.
	A pinion, 18 ins. diam., bears N.50°W., 97 lks. dist., marked T 41 S R 1 E S 35 B T.
	Land, west 29 chs. rim of high mesa, extremely rough and broken, balance nearly level mesa top.
	Soil, shallow rocky and gravelly loam on sandstone subsoil.
	Timber, dense cedar and pinion on mesa top.
	Undergrowth, shadscale, yellow-top, white sage, service-berry, and mountain rush.

	East, on true line bet. secs. 1 and 36.
	Over high mesa top, through dense cedar and pinion timber and undergrowth.
15.10	Leave mesa top, bears NE. and SW., set flag, thence descend abruptly over rugged sandstone ledges.
40.00	On rugged SE. slope, 750 ft. below mesa, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in mound of stone for the ¼ sec. cor., with brass cap marked ¼ S 36 / S 1 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Continue descent of rugged SE. slope.
65.00	Ravine, end of descent, 300 ft. below ¼ sec. cor., drains SE. Ascend over series of sandstone ledges.
80.00	The true point for the cor. of Ts. 41 and 42 S., Rs. 1 and 2 E. falls on sandstone ledges, 450 ft. above

SURVEY OF NORTH BOUNDARY OF T.42 S.,R.1 E.

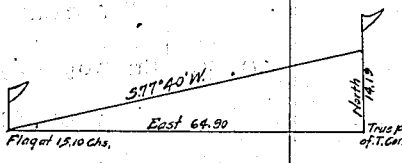
Chains

ravine, and 3.50 chs. N. of the temp. cor. Impracticable to set cor. in this locality on account of steep crumbling sandstone cliffs and ledges, therefore I set a flag on top of the ledges to the N. of the true point. It is impracticable to chain to flag so I determine the distance as follows:

I proceed to the flag set to the N., from which point I observe that the flag left on edge of mesa at 15.10 chs. on line bet. secs. 1 and 36, bears S.77°40'W. therefore the required distance is 64.90 x cotan. 77°40'

Computing-

Log 64.90----------1.812245
Log cotan.77°40'----------9.339739
Log 14.19----------1.151984



Therefore at 14.19 chs. N. and 600 ft. above true point of T. cor., set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in mound of stone for the witness cor. to the cor. of Ts. 41 and 42 S., Rs. 1 and 2 E., with brass cap marked

T41S
R1E | R2E
S 36	S 31
S 1	S 6
T42S
WC
1917

From which

A pinion, 8 ins. diam., bears N.61¼°E., 133 lks. dist., marked W C T 41 S R 2 E S 31 B T.

No other bearing trees available, therefore I raise mound of stone, 4 ft. base, with slab of stone 7 ft. long, 1 ft. wide, and 6 ins. thick standing on end in mound, S.of cor.

Land, extremely rugged and broken mountainous, SE. drainage.

Soil, rocky and sandy.

Timber, cedar and pinion on mesa, scattering cedar and pinion on NE. slope below mesa.

Undergrowth, service-berry, mountain rush, yellow-top, and white sage.

Chains

From the above described cor. of secs. 19, 24, 25, and 30,
Thence
West, on sectional correction line, bet. secs. 24 and 25.
Ascend over rolling mountainous land, through chaparral and scrub-oak.

10.00 Ridge, 25 ft. above sec. cor., bears NE. and SW. Descend over cone-shaped sandstone outcroppings.

27.00 Begin abrupt descent over sandstone ledges, bears NE. and SW.

30.00 Wash, end of descent, 170 ft. below ridge, course SW. Ascend 40 ft. to

40.00 On top of sand ridge, bears NE. and SW., set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked

$$\frac{\frac{1}{4}\ \text{S 24}}{\text{S 25}}$$
1917

Pits impracticable on account of drifting sand, no rocks available for mound.

46.50 Head of gulch, 10 ft. below ¼ sec. cor., drains SW. Ascend.

57.00 Sand ridge, 20 ft. above gulch, bears NE. and SW. Descend.

59.50 Wash, 20 ft. below ridge, course SW.

80.00 On SW. slope, 10 ft. above wash, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 23, 24, 25, and 26, with brass cap marked

T42S | R1E	
S 23	S 24
S 26	S 25

1917

No rocks available for mound, pits impracticable on account of drifting sand.

Land, rolling sand hills, general SW. drainage.

Soil, light drifting sand and soft sandstone ledges.

No timber.

Undergrowth, chaparral and scrub-oak.

S.0°1'E. on random line bet. secs. 25 and 26.

40.00 Set temp. ¼ sec. cor.

SUBDIVISIONS OF T.42 S., R.1 E.

Chains	
80.99	Intersect E. and W. line 2 lks. East of the cor. of secs. 25, 26, 35, and 36, heretofore described.
	Thence
	North, on true line bet. secs. 25 and 26.
	Over rolling mountainous land, through scattering undergrowth.
10.60	Sandstone spur, 50 ft. above cor., projects E. 10 chs.
	Descend 60 ft. to
13.10	Ravine, course SE. Ascend 70 ft. over broken hills and sandstone ledges to
16.40	Top of bench land, bears E. and W. Thence across nearly level bench.
32.70	Leave bench land, bears E. and W. Descend 60 ft. to
35.20	Ravine, course E. Ascend 50 ft. to
37.50	Spur, projects E. about 3 chs.
40.99	The true point for ¼ sec. cor. falls on steep sidehill where cor. would be destroyed, therefore at
41.29	A point 30 lks. N. of the true point of cor., set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the witness cor. to the ¼ sec. cor., with brass cap marked

¼

S 26 | S 25

WC

1917

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

46.90	Edge of canyon, bears NW. and SE. Descend 80 ft. to
64.10	Coyote Wash, 8 ft. deep, 1 ch. wide, course SE.
66.10	Road, Wahweap Canyon to Blue Trails, bears E. and W.
80.99	The cor. of secs. 23, 24, 25, and 26.

Land, broken level and rolling mountainous.

Soil, sandy clay and gravelly loam on sandstone subsoil.

No timber.

Undergrowth, mountain rush, shadscale, greasewood, white sage, and some grass.

N.0°1'W., bet. secs. 23 and 24.

Over rolling bench land, through scattering undergrowth.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
4.50	Top of white sandstone spur, 75 ft. above cor., projects E.
20.50	Trail, bears NW. and SE.
27.70	Base of white sandstone ledge, bears E. and W.
30.15	Top of ridge, 150 ft. above sec. cor., bears E. and W.
	Descend over white sandstone spurs.
40.00	On N. slope of spur, 50 ft. below top of ridge, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked
	¼
	S 23 | S 24
	1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
42.00	Head of gulch, drains NW. Ascend 30 ft. to
54.30	Top of sandstone ridge, bears E. and W.
59.70	Spur, projects W.
77.55	Top of spur, projects W.
80.00	On N. slope of white sandstone ridge, set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock and 18 ins. in a mound of stone, for the cor. of secs. 13, 14, 23, and 24, with brass cap marked
	T42S R1E
	S 14 | S 13
	S 23 | S 24
	1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, broken bench.
	Soil, shallow sandy loam.
	No timber.
	Undergrowth, sagebrush, shadscale, oose-root, Good grazing.
	East, on random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect east bdy. of T. 42 1ks. N. of the cor. of secs. 13, 18, 19, and 24, heretofore described.
	Thence
	N.89°55'W., on true line bet. secs. 13 and 24.
	Over rolling and broken bench land, through scattering

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	undergrowth.
21.60	Begin descent into gulch.
31.00	Gulch, 140 ft. below bench, drains SW. Ascend.
40.05	On S. slope of sandy ridge, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor. with brass cap marked ¼ S 13 / S 24 1917 No stones available for mound; sandy, pits impracticable.
59.90	From this point a very prominent lone red sandstone rock, 175 ft. high, bears N. 4 chs. dist.
80.10	The cor. of secs. 13, 14, 23, and 24. 230 ft. above gulch at 31.00 chs.
	Land, rolling and broken bench. General SW. drainage.
	Soil, rocky and sandy loam, blue clay.
	No timber.
	Undergrowth, white sage, shadscale, and bunch grass. Good grazing.

	N.0°1'W., bet. secs. 13 and 14.
	Over broken bench land, through scattering undergrowth.
13.30	End of clay spur, projects SE.
16.00	Hollow, 30 ft. below spur, drains SE.
27.00	Top of ledge, 120 ft. above hollow, bears SW. and NE.
35.50	Top of ridge, 20 ft. above last ridge, bears SW. and NE.
40.00	On N. slope of ridge, 1 ch. E. of rim of canyon, set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock and 20 ins. in mound of stone, for the ¼ sec. cor., with brass cap marked ¼ S 14 | S 13 1917 Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
80.00	On E. slope of ridge, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 11, 12, 13, and 14, with brass cap marked

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	T42S R1E S 11 | S 12 S 14 | S 13 1917
	No stones available for mound; sandy, pits impracticable.
	Land, broken bench.
	Soil, shallow sandy loam.
	No timber.
	Undergrowth, shadscale, oose-root, and white sage, Good grazing.

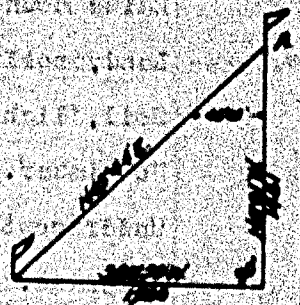
	S.89°55'E., on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.16	Intersect E. bdy. of T. 15 lks. S. of the cor. of secs. 7, 12, 13, and 18, heretofore described.
	Thence
	S.89°59'W., on a true line bet. secs. 12 and 13.
	Over rolling bench land, through scattering undergrowth.
5.20	Point of clay spur, 35 ft. above cor., projects SW. Descend 35 ft. to
40.08	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 12 / S 13 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
45.20	Low ridge, bears NW. and SE. Descend 20 ft. to
80.16	The cor. of secs. 11, 12, 13, and 14.
	Land, rolling bench. General S. drainage.
	Soil, shallow sandy and gravelly loam, some clay.
	No timber.
	Undergrowth, white sage and shadscale. Good grazing.

	N.0°1'W., bet. secs. 11 and 12.
	Over rolling bench land.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	$\frac{1}{4}$ S 11 | S 12 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
60.50	Trail, bears NE. and SW.
80.00	On NE. slope of small spur, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 1, 2, 11, and 12, with brass cap marked T42S R1E S 2 | S 1 S 11 | S 12 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling bench.
	Soil, light gravelly and sandy loam.
	No timber.
	Undergrowth, sagebrush, white sage, blue grass and bunch grass. Good grazing.
	N.89°59'E., on a random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.18	Intersect E. bdy. of T. 7 lks. N. of the cor. of secs. 1 6, 7, and 12, heretofore described.
	Thence
	N.89°58'W., on true line bet. secs. 1 and 12.
	Over rolling bench land, through scattering undergrowth.
5.20	Wash, 10 lks. wide, 1½ ft. deep, course SE.
40.09	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked ¼ S 1 S 12 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
42.20	Flat topped spur, projects SE.
80.18	The cor. of secs. 1, 2, 11, and 12.
	Land, rolling bench, general SE. drainage.
	Soil, sandy and blue clay loam.

Chains	
	No timber.
	Undergrowth, white sage and shadscale.

	N.9°1'W., on random line bet. secs. 1 and 2.
40.00	Set temp. ¼ sec. cor.
	Impassable cliffs make it impracticable to chain beyond the temp. ¼ sec. cor., therefore I set a flag "A" on line on top of cliffs and to determine the intervening distance I proceed as follows:
	From the temp. ¼ cor. I measure a base S.89°59'W. 15chs. to flag "B", from which point flag "A" on top of cliffs bears N.45°44'E. The required distance then is 15.00 x cotan.45°45'. Computing
	Log 15----------1.176091 Log cotan.45°45'-------9.988629 Log 14.61---------- 1.164720
	
	14.61 added to 40.00 chs. gives
54.61	Rim of high cliffs.
85.48	Intersect N. bdy. of T. 24 lkd. W. of the cor. of secs. 1 2, 35, and 36, heretofore described.
	Thence
	S.0°9'W., on true line bet. secs. 1 and 2.
	Over broken mesa top, through dense cedar and pinion timber, and undergrowth.
3.34	Sandstone ledge, bears NE. and SW.
28.87	Point of triangulation; edge of mesa, bears NE. and S.60°W. leave mesa and timber and descend over vertical cliffs and ledges.
41.48	950 ft. below edge of mesa, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec.cor., with brass cap marked
	¼ S 2 | S 1 1917
	Raise mound of stone, 2 ft. base; 1½ ft. high, W. of cor.
	Thence descend gradually over rolling land.
63.48	The cor. of secs. 1, 2, 11, and 12.

Chains	
	Land, broken mesa top in N. 25 chs., remainder of first half mile vertical cliffs, S. half mile rolling bench.
	Soil, dry sandy and gravelly loam. Sandstone outcroppings.
	Timber, dense cedar and pinion on mesa top.
	Undergrowth, shadscale, white sage, ocea-root, serviceberry, and yellow top.

	From the above described cor. of secs. 23, 24, 25, and 26.
	Thence
	West, on sectional correction line, bet. secs. 25 and 26.
	Over rolling bench land, through scattering undergrowth.
14.20	Ridge, 40 ft. above cor., bears NE. and SE. Descend.
21.20	Coyote Wash, 25 ft. below ridge, course SW.
38.00	Ridge, 60 ft. above wash, bears NE. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 25 / S 26 / 1917 No rocks available for mound; sandy, pits impracticable.
56.50	Ridge, 60 ft. above ¼ sec. cor., bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 22, 23, 26, and 27, with brass cap marked T42S R1E S 22 | S 23 S 27 | S 26 1917 No rocks available for mound; sandy, pits impracticable.
	Land, rolling bench, sand ridges. SE. drainage.
	Soil, light loose sand.
	No timber.
	Undergrowth, shadscale, ocea-root, mountain mahogany.

	S. 0° 15' W., on a random line bet. secs. 25 and 27.
40.00	Set temp. ¼ sec. cor.
75.48	Intersect the east and west line 5 lks. N. of the cor. of secs.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	26, 27, 34, and 35, heretofore described.
	Thence
	N.0°3'W., on true line bet. secs. 26 and 27.
	Over rolling bench land, through scattering undergrowth.
9.60	Small ridge, bears SE. and NW. Descend 20 ft. to
35.42	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked
	¼ S 27 | S 26 1917
	No rocks available for mound; sandy, pits impracticable.
79.68	Red clay and white sand ridge, bears SE. and NW. Descend 70 ft. to
45.10	Wash, 30 ft. wide, 2 ft. deep, course E.
79.48	The cor. of secs. 22, 23, 26, and 27.
	Land, rolling bench.
	Soil, sandy clay with numerous sandstone outcroppings.
	No timber.
	Undergrowth, rabbit brush, shadscale, cose-root, mountain rush, grass. Good grazing.

	N.0°1'W., bet. secs. 22 and 23.
	Descend gradually over grassy bench land through scattering undergrowth.
18.80	Wash, 50 ft. below cor., course NE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked
	¼ S 22 | S 23 1917
	Pit pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
31.0	Coyote Wash, 2 chs. wide, 8 ft. deep, course SE. 80 ft. below ¼ sec. cor. Ascend 90 ft. to
70.00	Top of flat ridge, bears E. and W. Descend 20 ft. to
80.00	On N. slope of ridge, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 14,

Chains	
	15, 22, and 23, with brass cap marked
	T42S R1E S 15 | S 14 S 22 | S 23 1917
	No stone available for mound; sandy, pits impracticable.
	Land, level and rolling bench.
	Soil, white sand.
	No timber.
	Undergrowth, white sage, shadscale, mountain rush, oose-root, and grass. Good grazing.
	East, on a random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 9 lks. S. of the cor. of secs. 13, 14, 23, and 24.
	Thence
	S.89°56' W., on true line bet. secs. 14 and 23.
	Ascend over broken bench land.
12.50	Top of white sandstone spur, 60 ft. above cor., projects SW. Descend.
17.00	Base of white sandstone spur, bears SW. and NE.
22.90	Wash, 6 ft. wide, 4 ft. deep, course SW. 65 ft. below spur.
40.00	110 ft. above wash, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 14 / S 23 1917
	No stones available for mound; sandy, pits impracticable.
63.40	Top of spur, projects SW. Descend 150 ft. to
77.70	Base of white sandstone ledges, bears N. and S.
80.00	The cor. of secs. 14, 15, 22, and 23.
	Land, broken bench.
	Soil, coarse sandy loam.
	No timber.
	Undergrowth, white sage, oose-root, mountain rush, grass. Good grazing.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	N.0°1'W., bet. secs. 14 and 15.
	Over rolling and broken bench land.
9.60	Top of white sandstone ledges, 110 ft. above cor., bears E. and W. Thence over rolling bench land.
17.00	Begin 100 ft. descent into canyon, course SW.
39.74	Knowing that the true point for the ¼ sec. cor. falls on a steep ledge where post cannot be set, at the above point, which is S.0°1'E. 26 lks. dist. from the true point, I set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone, for the witness cor. to ¼ sec. cor., with brass cap marked ¼ W C S 15 | S 14 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of post.
40.00	The true point for ¼ sec. cor. Cor. not set.
	Thence over broken sandstone outcroppings.
49.00	Base of ledges, sand and clay formation, bears SE. and NW.
57.30	Top of sandstone ledges, 80 ft. above base, bears SE. and NW. Thence over rolling bench.
66.40	Ridge, bears E. and W.
80.00	ON N. slope, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 10, 11, 14, and 15, with brass cap marked T42S R1E S 10 | S 11 S 15 | S 14 1917
	Dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist.
	Land, broken and rolling bench. SE. drainage.
	Soil, sandy and clay loam.
	No timber.
	Undergrowth, shadscale, white sage.

	N.89°56'E., on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect the cor. of secs. 11, 12, 13, and 14.

SUBDIVISIONS OF T.42 S., R.1 E.

Chains	
	Thence
	S.89°56'W., on true line bet. secs. 11 and 14.
	Over rolling bench land.
39.98	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 11 S 14 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
	Thence over broken bench land, descend 125 ft. to
55.00	Wash, in bottom of canyon, course SW. Ascend 100 ft. to
64.90	Top of spur, projects S.70°E.
79.96	The cor. of secs. 10, 11, 14, and 15.
	Land, rolling and broken bench.
	Soil, light sandy loam.
	No timber.
	Undergrowth, blue grass and bunch grass. Excellent grazing.

	N.0°1'W., bet. secs. 10 and 11.
	Over rolling bench land, through scattering undergrowth.
3.50	Low ridge, bears E. and W.
16.30	Trail, bears NE. and SW.
23.30	Trail, Coyote to Wahweap, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 10 | S 11 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 2, 3, 10, and 11, with brass cap marked T42S R1E SS 3 | S 2 S 10 | S 11 1917
	Dig pits, 18 x 18 x 12 ins., in each sec. 5½ ft. dist.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	Land, rolling bench, blue clay formation. S. drainage.
	Soil, heavy blue clay loam, some gravel.
	No timber.
	Undergrowth, shadscale and white sage.

	N.89°56'E., on a random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line 7 lks. N. of the cor. of secs. 1, 2, 11, and 12.
	Thence
	S.89°59'W., on true line bet. secs. 2 and 11.
	Over rolling bench land.
39.99	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked
	¼ S 2 / S 11 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
79.98	The cor. of secs. 2, 3, 10, and 11.
	Land, rolling blue bench. General S. drainage.
	Soil, blue clay loam.
	No timber.
	Undergrowth, white sage and shadscale.

	N.0°9'E., on a random line bet. secs. 2 and 3.
40.00	Set temp. ¼ sec. cor.
83.50	Intersect N. bdy. of T. 10 lks. E. of the cor. of secs. 2, 3, 34, and 35, heretofore described.
	Thence
	S.0°5'W., on true line bet. secs. 2 and 3.
	Over rough mountainous land.
13.10	Ledgy Gulch, drains W. about 10 chs. thence NW. Ascend 320 ft. over cliffs and ledges to
26.30	Rocky spur, projects S.70°W. Descend over abrupt cliffs and ledges.
34.30	Top of vertical cliff, 90 ft. high, bears N.60°W. and S.60°E.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	Thence continue descent over broken ledges.
39.80	Base of mountain, 400 ft. below spur at 26.30 chs., bears NW. and SE. Thence over broken bench land.
43.50	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 3 | S 2 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
43.60	Wash, 30 lks. wide, 10 ft. deep, course SW.
55.70	Ravine, 40 ft. deep, 2 chs. wide, course, SW.
66.50	Wash, 30 lks. wide, 10 ft. deep, Course SW.
75.00	Begin descent of SE. slope.
83.50	The cor. of secs. 2, 3, 10, and 11. 70 ft. below beginning of descent.
	Land, N. ½ mile rough mountainous with broken cliffs and ledges, S. ½ mile broken bench.
	Soil, rocks in N. half mile, hard gravelly and sandy clay loam in S. half mile.
	No timber.
	Undergrowth, shadscale, yellow top, white sage, oose-root.
	From the above described cor. of secs. 22, 23, 26, and 27.
	Thence
	West, on sectional correction line bet. secs. 22 and 27.
	Over rolling bench land, through scattering undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 22 / S 27 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 21, 22, 27, and 28, with brass cap marked T42S R1E S 21 | S 22 S 28 | S 27 1917
	Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains

Land, rolling bench.

Soil, white loose sand and light sandy loam.

No timber.

Undergrowth, shadscale and white sage.

S.0°3'E., on a random line bet. secs. 27 and 28.

40.00 Set temp. ¼ sec. cor.

76.96 Intersect N. bdy. of sec. 33, 1.35 chs. W. of the cor. of secs. 33 and 34, heretofore described. At point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the closing cor. of secs. 27 and 28, with brass cap marked

C C
T42S | R1E
S 28 | S 27
S 33
1917

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

Thence

N.0°3'W., on true line bet. secs. 27 and 28.

Over rolling bench land, through scattering undergrowth.

21.50 Wash, 40 lks. wide, 7 ft. deep, course SE. Ascend 120 ft.

36.96 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor., with brass cap marked

¼
S 28 | S 27
1917

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

76.96 The cor of secs. 21, 22, 27, and 28.

Land, rolling bench.

Soil, sandy loam with numerous sandstone outcroppings.

No timber.

Undergrowth, shadscale, mountain rush, rabbit-brush, oose-root, and grass. Good grazing.

N.0°2'W., bet. secs. 21 and 22.

Over rough and broken bench land, Descend over sandstone ledges into White Rock Canyon.

Chains	
16.50	Wash, 10 ft. wide, 2 ft. deep, in bottom of White Rock Canyon, course E. 80 ft. below cor. Thence over bottom of canyon.
20.00	Leave canyon bottom and ascend over white sandstone ledges
26.00	Top of ledges, 90 ft. above canyon, bears E, and W. Thence over broken bench.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked ¼ S 21 | S 22 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
80.00	100 ft. below ¼ sec. cor., set an iron post, 3 ft. long, 2 in. diam., 24 ins. in the ground, for the cor. of secs. 15, 16, 21, and 22, with brass cap marked T42S R1E S 16 | S 15 S 21 | S 22 1917
	Dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist.
	Land, broken bench, with numerous ledges. E. drainage.
	Soil, light rocky and sandy loam; drifting sand.
	No timber,
	Undergrowth, shadscale, mountain rush, white sage, and rabbit-brush.
	East, on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line 2 lks. N. of the cor. of secs. 14, 15, 22, and 23.
	Thence
	N.89°59'W., on true line bet. secs. 15 and 22.
	Over broken bench land.
21.00	Wash, 10 ft. wide, 2 ft. deep, course SW.
40.02	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked ¼ S 15 S 22 1917

SUBDIVISIONS OF T.42 S., R.1 E.

Chains	
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist
78.50	Coyote Wash, 1 ch. wide, 3 ft. deep, course SE.
80.64	The cor. of secs. 15, 16, 21, and 22.
	Land, rolling and broken bench. General SE. drainage.
	Soil, shallow and sandy clay loam.
	No timber.
	Undergrowth, white sage, shadscale, mountain rush, and rabbit-brush.

	N.0°2'W., bet. secs. 15 and 16.
	Descend over broken bench land, through scattering undergrowth.
3.10	Coyote Wash, 110 lks. wide, 6 ft. deep, course SE. Ascend.
31.90	S. edge of bench, bears E. and W. Continue to ascend.
37.00	Begin abrupt ascent over ledges.
40.00	On S. slope of ledges, set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground and 20 ins. in a mound of stone, for the ¼ sec. cor., with brass cap marked ¼ S 16 | S 15 1917
	Raised mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Thence continue ascent.
41.40	Top of ledges, 150 ft. above wash, bears E. and W. Thence over a series of spurs and gulches.
50.30	Head of box gulch, 100 ft. below top of ledges, course NW.
63.80	Point of red spur, 110 ft. above gulch, projects NW.
65.85	Wash, 20 lks. wide, 4 ft. deep, in gulch, course SW. 85 ft. below spur. Ascend 120 ft. to
80.00	The true point for the cor. of secs. 9, 10, 15, and 16, falls on ledges where post cannot be set, therefore at
80.24	Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground and 18 ins. in a mound of stone, for the witness cor. to the cor. of secs. 9, 10, 15, and 16, with brass cap marked T42S R1E S 9 | S 10 S 16 | S 15 W C 1917

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of post.
	Land, rough and broken bench. General SW. drainage.
	Soil, shallow sandy and rocky loam.
	No timber.
	Undergrowth, white sage, mountain rush, shadscale, and rabbit-brush.

	From the true point of cor. of secs. 9, 10, 15, and 16, which is 24 lks. S. 0°02'E. of the W.C.
	Thence
	S.89°59'E., on a random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.09	Intersect N. and S. line 7 lks. S. of the cor. of secs. 10, 11, 14, and 15.
	Thence
	S.89°58'W., on true line bet. secs. 10 and 15.
	Over rolling and broken bench land.
40.64½	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, for the ¼ sec. cor., with brass cap marked ¼ S 10 / S 15 / 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
58.80	Trail, bears NW. and SE.
66.10	Top of ledge, bears N. and S. Thence descend over ledges 60 ft. to
69.90	Wash, 20 lks. wide, 10 ft. deep, course SW. Ascend 85 ft. to
80.09	The true point for the cor. of secs. 9, 10, 15, and 16.
	Land, rolling bench and broken mountainous. SW drainage.
	Soil, shallow, rocky, and light sandy loam.
	No timber.
	Undergrowth, white sage, shadscale, and rabbit-brush.

	From the true point of cor. of secs. 9, 10, 15, and 16.
	Thence
	N.0°02'W., bet. secs. 9 and 10.
	Over rolling and broken bench land.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
.24	The W.C. to the cor of secs. 9, 10, 15, and 16.
20.00	Blue Trail, Coyote to Wahweap, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 9 | S 10 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the cor of secs. 3, 4, 9, and 10, with brass cap marked T42S R1E S 4 | S 3 S 9 | S 10 1917
	Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.
	Land, rolling blue bench. General S. drainage.
	Soil, blue clay and sand loam, nearly barren.
	No timber.
	Undergrowth, white sage, shadscale, and rabbit-brush.

	N.89°58'E., on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.24	Intersect N. and S. line 7 lks. N. of the cor. of secs. 2, 3, 10, and 11.
	Thence
	N.89°59'W., on true line bet. secs. 3 and 10.
	Over rolling bench land.
14.80	Wash, course SW.
20.70	Ridge, bears N. and S.
36.85	Wash, 1½ lks. wide, 2 ft. deep, course S.
40.12	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 3 / S 10 1917
	Dig pits, 18 x 18 x 12 ins., N. and W. of post, 3 ft. dist.
45.70	Wash, 20 lks. wide, 3 ft. deep, course S.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
80.24	The cor. of secs. 3, 4, 9, and 10.
	Land, rolling bench.
	Soil, coarse sandy and gravelly loam.
	No timber.
	Undergrowth, shadscale, mountain rush, yellow top, and white sage.

	N.0°5'E., on a random line bet. secs. 3 and 4.
40.00	Set temp. ¼ sec. cor.
83.60	Intersect N. bdy. of T. 02 lks. W. of the cor. of secs. 3, 4, 33, and 34, Heretofore described.
	Thence
	S.0°6'W., on true line bet. secs. 3 and 4.
	Over broken and rolling bench land.
25.10	Wash, 18 lks. wide, 5 ft. deep, course SE.
43.60	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked ¼ S 4 | S 3 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
83.60	The cor. of secs. 3, 4, 9, and 10.
	Land, broken and rolling bench. General SE. drainage.
	Soil, light sandy and blue clay loam; nearly barren.
	No timber.
	Undergrowth, white sage, shadscale, and rabbit-brush.

	From the above described cor. of secs. 21, 22, 27, and 28.
	Thence
	West, on sectional correction line bet. secs. 21 and 28.
	Over rolling bench land, through scattering undergrowth.
23.90	East edge of White Rock Canyon, bears SW. and NE. Descend 30 ft. to
28.90	White Rock Canyon, course NE. Ascend 40 ft. to
36.00	West edge of White Rock Canyon, bears NE. and SW. Thence over rolling land.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains 40.00	Set an iron post, 3 ft. long, 1 in. diam., on solid rock, 26 ins. in a mound of stone, for the ¼ sec. cor., with brass cap marked ¼ S 21 / S 28 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
62.10	White sandstone spur, 50 ft. above ¼ sec. cor. projects SE
80.00	On S. slope of white sandstone ridge, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 20, 21, 28, and 29, with brass cap marked T42S R1E S 20 | S 21 S 29 | S 28 1917
	No stones available for mound; sandy, pits impracticable.
	Land, rolling bench and broken mountainous.
	Soil, light dry sand, with numerous sandstone outcroppings.
	No timber.
	Undergrowth, mountain rush, rabbit-brush, shadscale, oose-root, and grass. Fair grazing.

	S.0°3'E., on a random line bet. secs. 28 and 29.
40.00	Set temp. ¼ sec. cor.
77.68	Intersect N. bdy. of sec. 32, at 2.27 chs. N.89°19'W. of cor of secs. 32 and 33, heretofore described. At point of intersection, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the closing cor. of secs. 28 and 29, with brass cap marked C C T42S R1E S 29 | S 28 S 32 1917
	No stones available for mound; sandy, pits impracticable.
	Thence
	N.0°3'W., on true line bet. secs. 28 and 29.
	Over rolling bench land and small box canyons.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
16.20	Small canyon, course E. 50 ft. below cor. Ascend 80 ft. to
35.80	Ridge, bears N.70°E. and S.70°W. Descend into canyon.
37.68	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked ¼ S 29 | S 28 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.
50.50	Wash, in canyon 130 ft. below ¼ sec. cor., course NE.
51.70	Road, in canyon, bears NE. and SW.
51.90	White Rock Canyon, course NE. Ascend 40 ft. over bench.
67.20	Enter canyon, course SE.
72.90	Wash, 10 lks. wide, 1 ft. deep, course SE.
76.20	Head of canyon, course SE.
77.68	The cor. of secs. 20, 21, 28, and 29.
	Land, broken bench with box canyons.
	Soil, sandy with patches of sandy clay, and numerous sandstone outcroppings.
	No timber.
	Undergrowth, rabbit-brush, mountain rush, shadscale, goose-root, and grass. Good grazing.

	N.0°3'W., bet. secs. 20 and 21.
	Descend gradually over broken mountainous land, through scattering undergrowth.
5.10	Gulch, 30 ft. below cor., drains SE.
15.00	White sandstone and clay outcroppings, bears NW. and SE.
26.30	Clay and white sandstone ridge, 20 ft. above gulch, bears NW. and SE. Descend 70 ft. over ledges to
38.20	Wash, 18 lks. wide, 4 ft. deep, course NE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 20 | S 21 1917
	Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.

SUBDIVISIONS OF T.42 S., R.1 E.

Chains	
57.00	Base of white sandstone and clay ledge, bears NW. and SE.
58.00	Top of above mentioned ledge, bears NW. and SE.
65.00	Spur, 220 ft. above ¼ sec. cor., projects E. Descend 50 ft. to
80.00	On SE. slope, 50 ft. below spur, set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground and 20 ins. in a mound of stone, for the cor. of secs. 16, 17, 20, and 21, with brass cap marked T42S. R1E S 17 | S 16 S 20 | S 21 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, broken mountainous, sandstone and clay formation. East drainage.
	Soil, shallow rocky and sandy clay loam.
	No timber.
	Undergrowth, white sage, shadscale, and yellow top.

	East, on a random line bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 2 lks. S. of the cor. of secs. 15, 16, 21, and 22.
	Thence
	S.89°59'W., on true line bet. secs. 16 and 21.
	Descend over broken bench and mountainous land.
23.90	White sandy ridge, 50 ft. above cor., bears N. and S.
25.90	Hollow, 20 ft. below spur, drains S. Ascend.
35.10	Trail, bears N. and S.
39.95	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 16 S 21 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
71.30	Spur, 140 ft. above hollow, projects SE. Descend 60 ft. to
78.90	Head of canyon, course SE. Ascend 15 ft. to

SUBDIVISIONS OF T.42 S., R.1 E.

Chains	
79.90	The cor. of secs. 16, 17, 20, and 21.
	Land, broken bench and broken mountainous, red and white sandstone formation. General SE. drainage.
	Soil, rocky white and red sand.
	No timber.
	Undergrowth, shadscale, white sage, and rabbit-brush.

	N.0°3'W., bet. secs. 16 and 17.
	Over rolling bench land, through scattering undergrowth.
3.20	Ridge, 90 ft. above cor., bears NE. and SW. Descend 65 ft. to
10.00	Hollow, course E. Ascend 75 ft. to
30.00	Top of bench, bears E. and W. Thence over level bench.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked ¼ S 17 | S 16 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Descend.
41.10	Gulch, 10 ft. below ¼ sec. cor., course SE. Continue to descend.
46.50	Wash, 30 lks. wide, 4 ft. deep, in canyon, 150 ft. below ¼ sec. cor., course SE. Ascend 75 ft. to
58.00	Spur, projects E. Descend 150 ft.
70.20	Blue Trail, from Coyote Wash to Wahweap, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 in. diam., 24 ins. in the ground for the cor. of secs. 8, 9, 16, and 17, with brass cap marked T42S. R1E S 8 | S 9 S 17 | S 16 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and broken bench, General SE. drainage.
	Soil, blue clay and sand, very poor.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	No timber.
	Undergrowth, white sage, shadscale, and rabbit-brush.

	N.89°59'E., on a random line bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 25 lks. N. of the true point of cor. of secs. 9, 10, 15, and 16.
	Thence
	N.89°51'W., on true line bet. secs. 9 and 16.
	Over rolling bench land.
39.95	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock and 20 ins. in a mound of stone, for the ¼ sec. cor, with brass cap marked
	¼ S 9 / S 16 / 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
61.90	Rocky gulch, 3 chs. wide, 50 ft. deep; course S. Ascend over rolling bench.
76.90	Top of gray ledges, bears N. and S. Descend 50 ft. to
78.40	Coyote Wash, 1 ch. wide, 4 ft. deep, at bend from N.80°W. to SE.
79.90	The cor. of secs. 8, 9, 16, and 17.
	Land, rolling bench, broken by ledges and canyons. General S. drainage.
	Soil, dark blue clay loam and sand on sandstone bedrock.
	No timber.
	Undergrowth, white sage, shadscale, and rabbit-brush.

	N.0°3'W., bet. secs. 8 and 9.
	Descend over broken canyon bottom.
3.50	Coyote Wash, 1 ch. wide, 4 ft. deep, 30 ft. below cor., course SE. Ascend over sandstone ledges, thence over rolling bench.
40.00	60 ft. above wash, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor. with brass cap marked

SUBDIVISIONS OF T.42 S., R.1 E.

Chains	
	$\frac{1}{4}$ S 8 | S 9 1917
------	Dig pits, 18 x 18 x 12 ins., N. and S. of cor. 3 ft. dist.
80.00	40 ft. above $\frac{1}{4}$ sec. cor., set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 4, 5, 8, and 9, with brass cap marked T42S R1E S 5 | S 4 S 8 | S 9 1917
	Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.
	Land, rolling and broken bench. General S. drainage.
	Soil, dark sandy and gravelly clay loam.
	No timber.
	Undergrowth, rabbit-brush, shadscale, greasewood, and bunch grass. Good grazing.

	S.89°51'E., on a random line bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.82	Intersect N. and S. line 2 lks. N. of the cor. of secs. 3, 4, 9, and 10.
	Thence
	N.89°50'W., on true line bet. secs. 4 and 9.
	Over rolling blue hills and bench land.
9.90	Wash, 50 lks. wide, 3 ft. deep, course SW. 50 ft. below cor.
39.10	Wash, 10 lks. wide, 6 ft. deep, course S.
39.91	Set an iron post, 3 ft. long, 1 in. diam., 26ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 4 / S 9 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
64.80	Trail, Coyote Springs to Wahweap, bears NW. and SE.
79.82	The cor. of secs. 4, 5, 8, and 9. 80 ft. below $\frac{1}{4}$ sec. cor.
	Land, rolling blue clay hills. General S. drainage.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	Soil, light sand and soft dark clay loam.
	No timber.
	Undergrowth, shadscale, rabbit-brush, and white sage.
	N.9°6'E., on a random line bet. secs. 4 and 5.
40.00	Set temp. ¼ sec. cor.
83.46	Intersect N. bdy. of T.15 lks. E. of the cor. of secs. 4, 5, 32, and 33, heretofore described.
	Thence
	South, on true line bet. secs. 4 and 5.
	Descend over rough and broken mountainous land.
17.50	Point of white sandstone spur, 160 ft. below cor., projects SE. Continue descent.
22.30	Gulch, 85 ft. below spur, drains E. Thence along E. slope.
29.80	Red sandstone spur, 85 ft. above gulch, projects E. Descend 75 ft. to
43.46	In head of ravine, drains E, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor. with brass cap marked ¼ S 5 | S 4 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Thence ascend 75 ft. over broken ledges to
53.46	Top of ledges, bears NW. and SE. Descend abruptly over yellow sandstone and clay ledges.
63.90	End of abrupt descent, 390 ft. below top of ledges, bears E. and W.
68.96	Blue Trail, Coyote Springs to Wahweap, bears E. and W.
83.46	The cor. of secs. 4, 5, 8, and 9.
	Land, very rough and broken with steep S. and E. slopes broken by ledges. Red and white sandstone formation.
	Soil, shallow sand and loose rock.
	No timber.
	Undergrowth, shadscale, white sage, mountain rush.

SUBDIVISIONS OF T.42 S., R.1 E.

Chains	
	From the above described cor. of secs. 20, 21, 28, and 29.
	Thence
	West, on sectional correction line bet. secs. 20 and 29.
	Over broken mountainous land, through scattering under-growth.
8.50	Wash, 20 lks. wide, 4 ft. deep, course SE.
24.30	Base of broken clay and white sandstone ledges, bears SW. and NE. Ascend abruptly.
30.90	Spur, 260 ft. above wash, projects SW. Descend 80 ft. to
34.70	Head of wash, 15 lks. wide, 2 ft. deep, course S.
40.00	Near head of ravine, 60 ft. below wash, set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bed-rock and 8 ins. in a mound of stone, for the $\frac{1}{4}$ sec. cor. with brass cap marked $\frac{1}{4}$ S 20 / S 29 1917
	Raised mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
41.45	Spur, 30 ft. above $\frac{1}{4}$ sec. cor., projects SW. Thence over rolling bench land.
80.00	On N. slope of bench, set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to bedrock, and 12 ins. in a mound of stone, for the cor. of secs. 19, 20, 29, and 30, with brass cap marked T42S R1E S 19 | S 20 S 30 | S 29 1917
	Raised mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, broken and cut by box canyons.
	Soil, sandy clay with numerous outcroppings of sandstone.
	No timber.
	Undergrowth, shadscale, mountain rush, rabbit brush, oose-root, and grass. Good grazing.

	S.0°3'E., on a random line bet. secs. 29 and 30.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
76.79	Intersect E. and W. line 20 lks. E. of the old cor. of

SUBDIVISIONS OF T.42 S., R.1 E.

Chains	
	secs. 29, 30, 31, and 32, heretofore described.
	Thence
	N.0°6'E., on true line bet. secs. 29 and 30.
	Over broken and rolling bench land, through scattering undergrowth.
10.90	Canyon, 50 ft. below cor., course NE. Ascend 50 ft. to
23.00	Spur, projects E. Descend.
36.50	Road and old trail, bears E. and W., general course E. in White Rock Canyon.
36.79	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked
	¼
	S 30 | S 29
	1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
43.50	Bottom of White Rock Canyon, 50 ft. below spur, course E. Ascend 130 ft. to
56.60	Rim of ledges along canyon, red sandstone formation, bears E. and W. Thence over broken bench to
76.79	The cor. of secs. 19, 20, 29, and 30.
	Land, benches, broken by ledgy canyons and ravines. General E. drainage.
	Soil, sandy rocky loam, with numerous sandstone outcroppings.
	No timber.
	Undergrowth, greasewood, shadscale, mountain rush, oose-root, rabbit-brush, and grass. Good grazing.

	Knowing that it will be necessary to set a closing cor. for secs. 19 and 30 on the W. bdy. of the T. I run West, on true line bet. secs. 19 and 30.
	Over rolling bench land, through scattering undergrowth.
24.00	Wash, 10 ft. below secs cor., 5 lks. wide, 1 ft. deep, course SE.
40.00	On N. slope of bench, set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, to bedrock, and 14 ins. in a mound of stone, for the ¼ sec. cor., with brass

SUBDIVISIONS OF T.42 S., R.1 E.

Chains	
	cap marked ¼ S 19 / S 30 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
58.00	Wash, 10 ft. below ¼ sec. cor., 40 lks. wide, 3 ft. deep, course SE.
80.77	Intersect W. bdy. of T. 3.70 chs. S. of the cor. of secs. 19, 24, 25, and 30, described in the notes of T.42 S., R.1 W. I destroy all marks pertaining to R.1 E. and at above point of intersection
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for the closing cor. of secs. 19 and 30, with brass cap marked S 25 | T42S / S 19 / S 30 / R1E | C C 1917
	Dig pits, 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and E. of post 7 ft. dist.
	Land, rolling bench with numerous sandstone outcroppings.
	Soil, sandy clay loam on rocky subsoil.
	No timber.
	Undergrowth, mountain rush, shadscale, rabbit-brush, ooseroot, and grass. Good grazing.
	From the above described cor. of secs. 19, 20, 29, and 30.
	Thence
	N.0°3'W., bet. secs. 19 and 20:
	Over rolling bench land, sandstone outcroppings, and through scattering undergrowth.
35.00	Wash, 20 ft. below cor., 8 lks. wide, 1 ft. deep, course SE.
40.00	On N. slope of bench, set an iron post, 3 ft. long, 1 in. diam., on solid rock, 26 ins. in a mound of rock, for the ¼ sec. cor., with brass cap marked ¼ S 19 | S 20 1917

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
54.80	Wash, 20 ft. below ¼ sec. cor., 35 lks. wide, 15 ft. deep, course SW..
80.00	On W. slope of rocky ridge, bears NW. and SE., set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, to bedrock, and 6 ins. in a mound of rock, for the cor. of secs. 17, 18, 19, and 20, with brass cap marked T42S R1E S 18 | S 17 S 19 | S 20 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling bench, with sandstone outcroppings.
	Soil, rocky clay and gravelly sand on rocky subsoil.
	No timber.
	Undergrowth,,mountain rush, shadscale, oose-root, rabbit-brush, and grass. Good grazing.

	East, on a random line bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
80.03	Intersect N. and S. line 5 lks. N. of the cor. of secs. 16, 17, 20, and 21.
	Thence
	N.89°58'W., on true line bet. secs. 17 and 20.
	Ascend over rolling and broken bench land, through scattering undergrowth.
10.00	Low ridge, 70 ft. above cor., bears NW. and SE. Descend 100 ft. to
19.60	Wash, 80 lks. wide, 6 ft. deep, course NW. Ascend 40 ft, to
40.01½	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked ¼ S 17 S 20 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
49.60	Trail, Pahreah to Coyote Canyon, bears NE. and SW.
76.10	Ridge, bears NW. and SE. Descend gradually 50 ft. to
80.03	The cor. of secs. 17, 18, 19, and 20.

SUBDIVISIONS OF T.42 S., R.1 E.

Chains	
	Land, rolling and broken bench. General W. drainage.
	Soil, shallow rocky and blue clay loam.
	No timber.
	Undergrowth, shadscale, white sage, and yellow top.

	West, on true line bet. secs. 18 and 19.
	Over rolling bench land of sandy gravel formation with numerous sandstone outcroppings.
2.20	Wash, 8 lks. wide, 2 ft. deep, course NE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked ¼ S 18 / S 19 1917
	Raise mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
80.65	Intersect W. bdy. of T. 3.80 chs. S. of the cor. of secs. 13, 18, 19, and 24, described in the notes of T.42 S., R.1 W. I destroy all marks pertaining to R.1 E. and at above point of intersection
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the closing cor. of secs. 18 and 19, with brass cap marked S 24 | T42S / S 18 / C C / S 19 / R1E 1917
	Dig pits, 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and E. of post 7 ft. dist.
	Land, rolling bench with numerous sandstone outcroppings, sandy and gravelly formation.
	Soil, gravelly and sandy clay loam.
	No timber.
	Undergrowth, shadscale, mountain rush, ocse-root, rabbit-brush, and grass. Good grazing.

	From the above described cor. of secs. 17, 18, 19, and 20.
	Thence

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	N.0°3'W., bet. secs. 17 and 18.
	Over rolling bench land, through scattering undergrowth.
3.10	Wash, 6 lks. wide, 4 ft. deep, course NE.
15.00	Small clay ridge, 20 ft. above wash, bears E. and W.
30.20	Old trail, bears NE. and SW.
40.00	On S. slope of small ridge, bears NW. and SE., set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the ¼ sec. cor., with brass cap marked ¼ S 18 | S 17 1917 Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
65.50	Wash, 10 lks. wide, 1 ft. deep, course SE.
80.00	On W. slope of small clay ridge, 20 ft. above wash, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the cor. of secs. 7, 8, 17, and 18, with brass cap marked T42S R1E S 7 | S 8 S 18 | S 17 1917 Raise mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling bench, clay formation.
	Soil, dark clay with some sand and gravel and sandstone outcroppings.
	No timber.
	Undergrowth, mountain rush, shadscale, goose-foot, rabbit-brush, and grass. Good grazing.

	S.89°58'E., on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect N. and S line 5 lks. S. of the cor. of secs. 8, 9, 16, and 17.
	Thence
	West, on true line bet. secs. 8 and 17.
	Over broken canyon bottom, ascending along S. side of wash.
10.00	Bend in Coyote Wash, course S.80°E. changes to N.80°E.

. SUBDIVISIONS OF T.42 S., R.1 E.

Chains.	
17.00	Leave Coyote Wash, course from NW. to E.
38.00	Head of gulch, course NE.
40.06	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 8 S 17 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
80.12	The cor. of secs. 7, 8, 17, and 18. Land, rolling and broken bench. General S. drainage. Soil, light sand and dark blue clay loam. No timber. Undergrowth, white sage, shadscale, grease-wood in wash, and grass. Good grazing.
	West on true line bet. secs. 7 and 18, Over rolling bench land; through scattering undergrowth.
40.00	On N. slope of dark clay bench, set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1}{4}$ S 7 S 18 1917 Dig pits 18 x 18 x 12 ins. E and W. of post, 3 ft. dist.
54.10	Trail bears NE. and SW.
72.00	Impassable ledges, 500 ft. high; therefore offset S. 26.00 chs.; thence West on offset line S. 54 chs. to
80.54	Intersect W. bdy. of T. 34.30 chs. S. of the witness cor. to cor. of secs. 12 and 13, which is 4.60 chs. N. of the true point for said cor.; described in notes of T.42 S.R.1 W. The true point for the closing cor. of secs. 7 and 18, which is 3.70 chs. S. of the true point for the cor. of secs. 12 and 13 falls on ledges, where it is impracticable to set cor.; therefore I return to offset point at 72.00 chs. at foot of ledges, and

SUBDIVISIONS OF T.42 S., R.1 E.

Chains.

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for witness cor. to closing cor. of secs. 7 and 18, with brass cap marked

T 42 S
S 13 | S 7
WC ——CC
S 18
R 1 E
1917

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

Land, first 72.00 chs. rolling bench, remainder rough mountainous, sandstone ledges.

Soil, on E. portion dry, dark, blue clay with sandstone outcroppings.

No timber. Undergrowth, mountain rush, rabbit-brush, shad-scale, cose root, scattering grass. Poor grazing.

From the cor. of secs. 7, 8, 17, and 18,

N. 0° 03' W. bet. secs. 7 and 8,

Over rolling bench land; through scattering undergrowth.

21.50 Wash, 50 lks. wide, 2 ft. deep, course SE., 20 ft. below cor.

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

S 7 | ¼ | S 8
1917

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

44.70 Wash, 40 lks. wide, 3 ft. deep, course SE.

54.20 Ridge, 70 ft. above wash, bears NW. and SE.

79.90 Coyote Wash, 100 lks. wide, 4 ft. deep, course SE., 60 ft. below ridge.

80.00 On N. side of wash and 10 ft. above wash, set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 7, and 8, with brass cap marked

T 42 S R 1 E
S 6 | S 5
S 7 | S 8
1917.

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains	
	Raise mound of stone, 2 ft. base, 1½ ft. High, W. of cor.
	Land, rolling bench, General SE. drainage.
	Soil, light sand and blue clay loam, poor quality.
	No timber.
	Undergrowth, shadscale, white sage, and rabbit-brush.

	East, on a random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.24	Intersect N. and S. line 1 lk. S. of the cor. of secs. 4, 5, 8, and 9.
	Thence
	West, on true line bet. secs. 5 and 8.
	Over rolling clay hills, through scattering undergrowth.
40.12	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked
	¼ S 5 / S 8 / 1917
	Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
78.00	Begin descent into Coyote Wash.
80.24	The cor. of secs. 5, 6, 7, and 8.
	Land, rolling blue and yellow clay hills. General SW. drainage.
	Soil, yellow and blue clay, poor quality.
	No timber.
	Undergrowth, white sage, yellow top, and shadscale.

	West, on true line bet. secs. 6 and 7.
	Over rolling hills, sandstone formation, through scattering undergrowth. Descend into Coyote Wash.
4.40	Coyote Wash, 150 lks. wide, 10 ft. deep, course SE. Ascend foothills, bears NW. and SE. to
16.90	Thence over rocky bench land.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for the ¼ sec. cor., with brass cap marked
	¼ S 6 / S 7 / 1917

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains

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

52.90 Descend from rolling bench land, bears NW. and SE. to

57.90 Ravine, 20 ft. below bench, drains SE. Ascend 50 ft. to

80.51 Intersect W. bdy. of T. 3.64 chs. S. of the cor. of secs. 1, 6, 7, and 12, described in the notes of T.42 S., R.1 W. I destroy all marks pertaining to R.1 E. and at above point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the closing cor. of secs. 6 and 7, with brass cap marked

T42S
S 12 | S 6 CC | S 7
R1E

1917

Raise mound of stone, 2 ft. base, 1½ ft. high, E. of post.

Land, rolling and broken bench, General SE. drainage.

Soil, sandy and gravelly blue clay loam.

No timber.

Undergrowth, shadscale, white sage, rabbit-brush, and scattering greasewood.

From the above described cor. of secs. 5, 6, 7, and 8.

Thence

North, , on a random line bet. secs. 5 and 6.

40.00 Set temp. ¼ sec. cor.

83.50 Intersect N. bdy. of T. 08 lks. W. of the cor. of secs. 5, 6, 31, and 32, heretofore described.

Thence

S.0°1'W., on true line bet. secs. 5 and 6.

Descend Over rolling and broken mountainous land, through scattering undergrowth.

24.30 Ravine, 100 ft. below cor., drains SW. Thence over gulches and spurs.

[illegible].50 On spur, projects SW., set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for the ¼ sec. cor., with brass cap marked

SUBDIVISIONS OF T.42 S.,R.1 E.

Chains

$\frac{1}{4}$

S 6 | S 5

1917

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

Descend over S. slope.

53.50 End of descent, 180 ft. below ¼ sec. cor. Thence over rolling bench land.

83.50 The cor. of secs. 5, 6, 7, and 8.

Land, S. 30 chs. rolling clay hills and bench, remainder mountainous and broken. General SW. drainage.

Soil, light clay loam, gravelly and rocky sand.

No timber.

Undergrowth, shadscale, white sage, and rabbit-brush.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

T.42 S.,R.1 E.

Line Designated	Course	Dist. Chs.	Latitude		Departure	
			N. chs.	S.chs	E.chs	W.chs.
N.5 miles of W. bdy.	North	399.65	399.65			
North Boundary	East	480.74			480.74	
N.5 miles of E. bdy.	South	403.50		403.50		
Bet. secs. 25 & 36	S.89°17'W.	80.05		.99		80.04
Bet. secs. 26 & 35	N.89°03'W.	79.86	1.32			79.85
N. bdy. sec. 34	N.88°02'W.	78.71	2.70			78.66
N. bdy. sec. 33.E ½.	West	39.87				39.87
N. bdy. sec. 33.W ½	S.89°21'W.	39.25		.45		39.25
N. bdy. sec. 32.E ½	N.89°19'W.	42.70	.51			42.70
N. bdy. sec. 32.W ½	N.89°32'W.	39.79	.32			39.79
N. bdy. sec. 31.E ½	N.89°51'W.	40.23	.11			40.23
N. bdy. sec. 31.W ½	N.89°24'W.	40.42	.42			40.42
Convergency					.46	
Totals			405.03 404.94	404.94	481.20 480.81	480.81
Error in latitude			.09			
Error in departure					.39	

GENERAL DESCRIPTION T.42 S.,R.1 E.

This township consists almost wholly of bench land cut by numerous washes and small box canyons. The high mesas of T.41 S.,R.1 E. project into the north tier of sections and break off in a series of cliffs and steep rocky slopes making this part extremely rough and mountainous. The erosion of the bench land has formed numberless washes and small canyons, many of which have almost vertical walls. The formation is chiefly sandstone which outcrops in most of the washes and on the ridges and spurs and other points of higher elevation as cliff and broken down ledges. Windblown sand occurs in most of the level portions.

The general drainage is to the southeast through Coyote canyon which enters the township on the north boundary of section 6 and leaves it on the east boundary of section 25. All of the east, northeast, and northwest portions are drained directly through this wash, while the southwest portion is drained through White Rock Canyon, a branch of Coyote Canyon which drains northeast through sections 30, 29, 28, and 21 into section 22 where White Rock enters Coyote Canyon. Both canyons are dry; no living springs or permanent water occurs in either canyon.

The soil of the township ranges from pure sand to heavy clay loam. Windblown sand occurs in most of the lower southeast parts, while rocky clay loam and sandy loam in the central and western portions. In the northern portion at the foot of the mesa land the soil is mostly heavy blue clay. The soil throughout the township is shallow and of poor quality. In most places it rests on a sandstone subsoil.

A small amount of scrub cedar and pinion timber exists on top of the mesa on the north boundary of the township. This is the only timber and is practically unobtainable on account of the rough nature of the slopes of the mesa. The undergrowth is mostly of the low variety and is widely

scattered. Mountain rush, yellow top, rabbit-brush, white sage, shadscale, and grass are found on the bench land. Scattering greasewood is found along the canyon bottoms and washes. The township may be considered as fair for grazing; lack of water, however, makes the land practically worthless.

There is no water in the township though seepage water may be obtained by digging in the sand in the wash crossed at 17.00 chs. on line between sections 13 and 18 on the east boundary of the township.

Many small seams of bituminous coal outcrop at various places on the cliffs and ledges in the north part of the township. Also a few seams were noticed in the lower part of Coyote Canyon. All the seams were only a few inches in thickness. The coal contained considerable rock and shale and is of very poor quality. No other valuable minerals were found.

A trail leads from Coyote Springs in section 31 of T.41 S. R.1 W. southwest through section 6 thence in a general easterly direction across the bench at the foot of the high mesas to the north. It is obscured in many places where it crosses the section lines but its approximate position is shown on the accompanying sketch plat. It is also possible to take a wagon along this trail.

There are no settlers in the township and no improvements were found.

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4—680

BOOK A-433

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Melvin Lewis	first assistant.
Lacel Bird	" "
Ira Mace	second "
Ray Roberson	" "
Charo Phelps	cornerman.
Lester Metcalf	"

6—2764

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Thos. C. Rathbone, ..., U. S. Surveyor, hereby certify upon honor that, in pursu
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 t
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Inst
tions, and the laws of the United States, Retraced, resurveyed and surveyed the East
Boundary, surveyed all those parts or portions of the North bour
and retraced, resurveyed and surveyed all those parts or portion
of the Subdivision of T. 42 S., R. 1 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 that all the corner and index diagram on page 1 of sure, and of dates shown on said dia
said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instr
tions, 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
such survey.

Thos C Rathbone
U. S. Surve

Dated Apr 24 1918

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 be
critically examined, and the necessary corrections and explanations made, the said field notes, and the surve
they describe, are hereby approved.

.....
U. S. Surveyor Gener

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 Genera

6—2764

4—680

BOOK A-433

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Melvin Lewis	first assistant
Lacel Bird	" "
Ira Mace	second "
Ray Roberson	" "
Eharo Phelps	cornerman.
Lester Metcalf	"

C—2704

CERTIFICATE OF UNITED STATES ~~SURVEYOR~~ TRANSITMAN.

I, Lyman E. Bolinger, Transitman, U. S. ~~Surveyor~~, hereby certify upon honor that, in pursu

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 t

in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Inst

tions, and the laws of the United States, ~~surveyed~~ retraced, resurveyed and surveyed all those parts or portions of the west bound

surveyed all those parts or portions of the south boundary and retr

resurveyed and surveyed all those parts or portions of the subdivis

of T. 42 S., R. 1 E.

of the Salt Lake

Base and Meridian, in the State of Utah, which are represente

the foregoing field notes, as having been executed by me, and under my direction; and that all the corner and index diagram on page 1 of same, and on dates shown on said diag

said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instr

tions, 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 such survey.

Lyman E. Bolinger

Dated March 28, 1916

U. S. ~~Surveyor~~ Tran

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Oct. 15, 19

The foregoing field notes of the ~~survey of~~ retracement, resurvey, and survey of the east boundary; survey of the north boundary, and the retracement, resurvey, and survey of the subdivisional lines in Township No. 42 South, Range No. 1 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 be

critically examined, and the necessary corrections and explanations made, the said field notes, and the survey retracements, resurveys, and they describe, are hereby approved.

U. S. Surveyor Genera

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 Genera

8—2764

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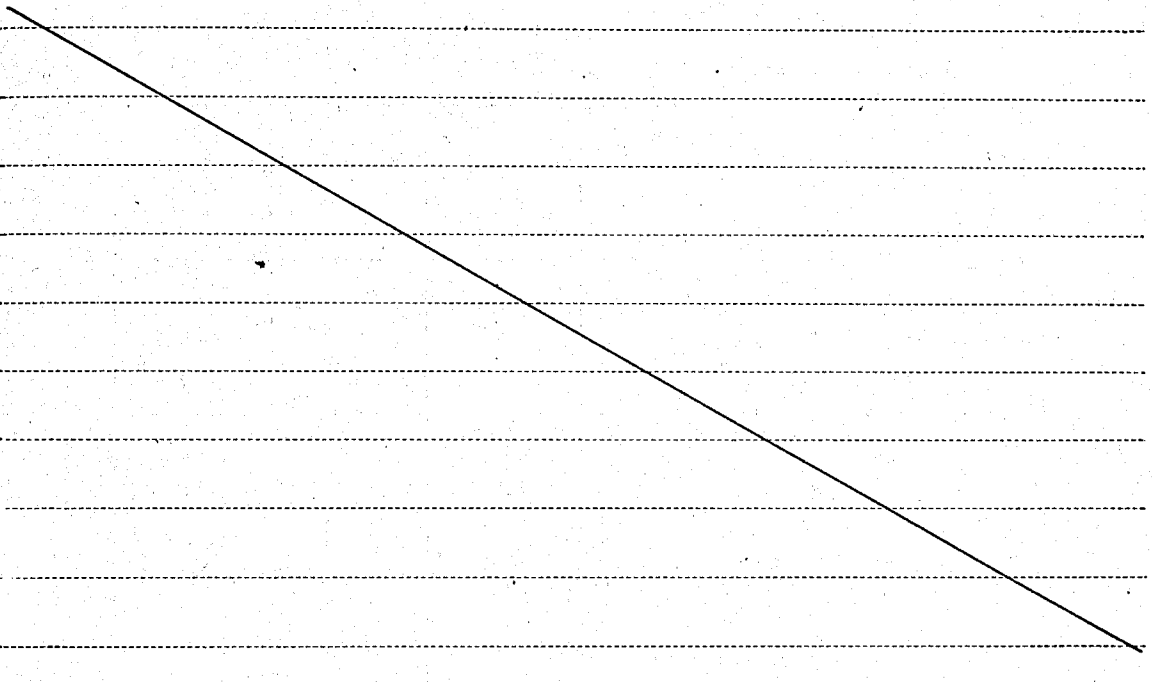
BOOK A-433 F.

F.

FIELD NOTES

OF THE SURVEY OF THE

EIGHTH STANDARD PARALLEL SOUTH THROUGH RANGE 1 EAST; AND THE EAST BOUNDARY AND SUBDIVISION OF T. 41 S., R. 1 E.



Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

Thos. C. Rathbone and Lyman E. Bolinger.

and U. S. Transitman

In the capacity of U. S. Surveyor, *under instructions dated* February 1, *191*6 *issued by the United States Surveyor General to govern surveys included in Group No.* 42, *which were approved by the Commissioner of the General Land Office,* March 3, *191*6, and under assignment instructions dated May 3, 1917 issued by the Asst. Supervisor of Surveys for Utah.

Survey commenced July 28, *191*7

Survey completed Sept. 24, *191*7

6—151

Examinations Classified

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

B Computations F.B.J.

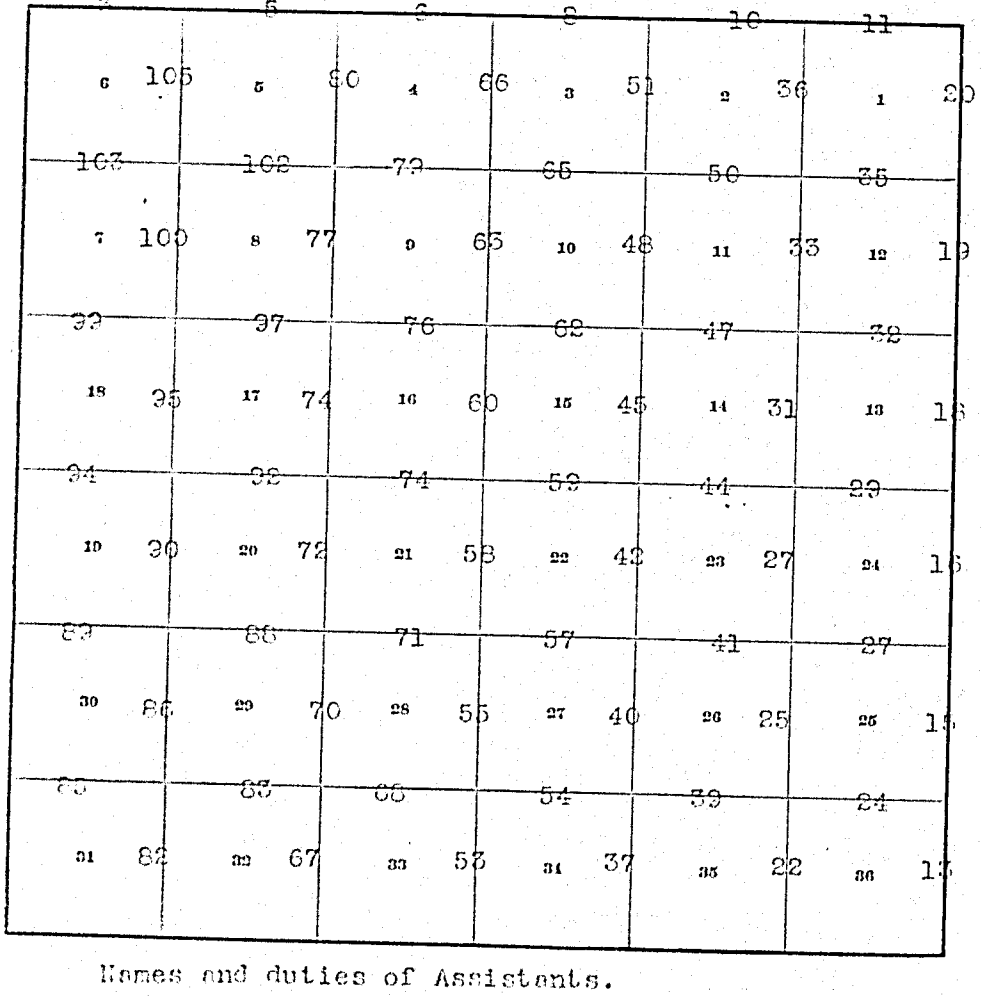
Comparing

C Plat H.I.F. Notes H.F.B.

BOOK A-433

INDEX DIAGRAM.

Township 41 S., , *Range* 1 E.



Names and duties of Assistants.

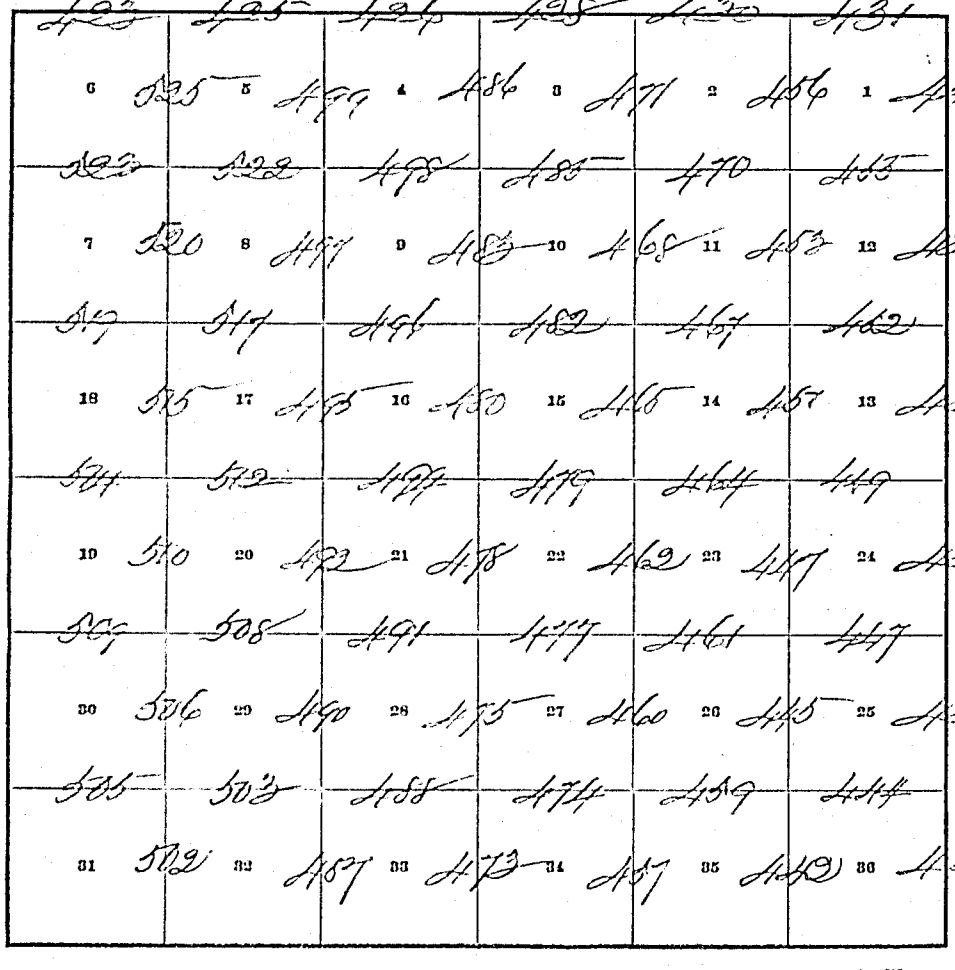
Lacel Bird,	first assistant.
Melvin Leris,	" "
Ira Vace,	" " and second assistant.
Farren Clark,	second assistant.
David Gustavson,	flagman.
Frank Johnson,	"
Ross Phelps,	cornerman.
Bernie Isenhauer,	"

BOOK A-433

4—679 b

INDEX DIAGRAM.

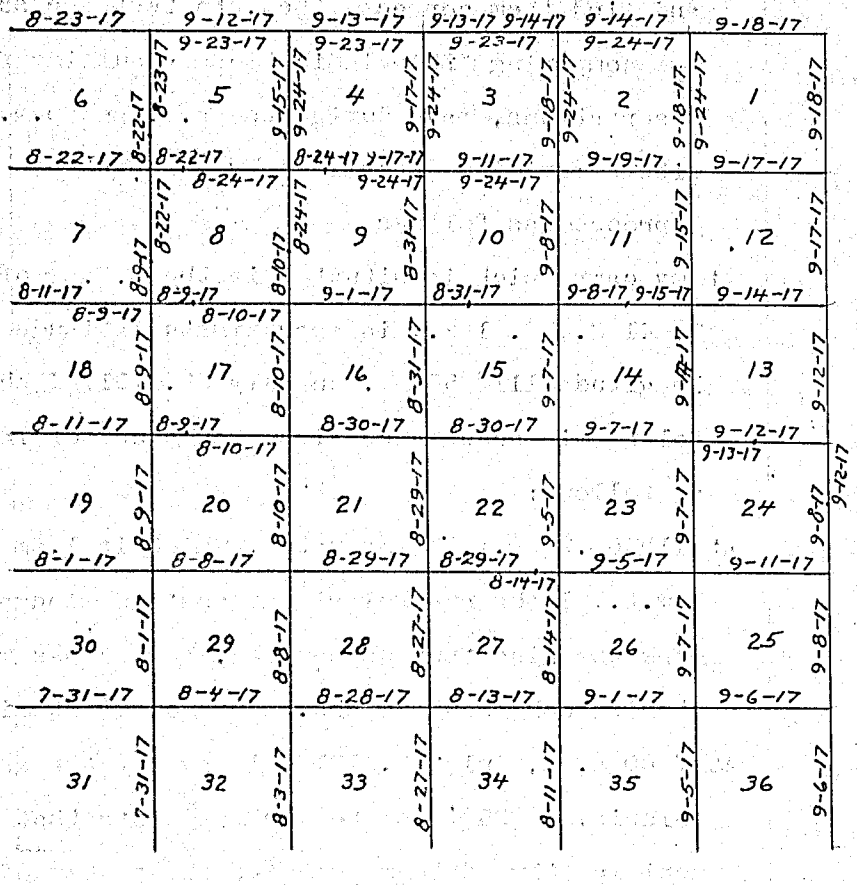
Township 41 S, Range 1 E



6—4517

Survey of the Eighth Standard Par... S. to ... through T.40 S., R.1 E

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 Lymen E. Bolinger, U.S.Transitman.

Survey commenced July 28, 1917, and executed with W. & L.E.Gurley light mountain transit No. 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, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were approved for use on this survey by the Assistant Supervisor of Surveys for Utah, May 3, 1917, conditional upon satisfactory field test.

I examine the adjustments of the W. & L.E.Gurley transi and find them correct, then, to test the solar appara by comparing its indications resulting from solar observations, made during the a.m. and p.m. hours, with a meridian determined by observations on Polaris I proceed as follows:

At my camp which is situated in the S.W. $\frac{1}{4}$ of sec. 30, T. 41 S., R. 1 E., in approximate latitude 37° 13' N., longitude 111° 53' W. on July 28, 1917 I observe Polaris in accordance with the Manual of Instructions as follows:

At 11h 08.3m p.m. by my watch, which is 1.6m slow of l.m.t., I observe Polaris at eastern elongation, and mark the line thus determined, by a cross mark on a stable rock about 20 chs. north of my station.

At 7:00 a.m., July 29, 1917, I lay off the azimuth of Polaris, 1° 25½' to the west and note that the true meridian thus determined hits the center of a small well defined rock about a mile north of my station.

July 29, 1917, at 8:00 a.m. with the transit at the Polaris station I set off 37° 13' N. on the latitude arc and 18° 49' N. on the declination arc and determin a meridian with the solar attachment of the W. & L.E. Gurley transit and note that the meridian thus determi agrees with the Polaris meridian

At the same time, and with the same settings on the latitude and declination arc, and after examining and finding correct the adjustments of Young and Sons transit No. 8584, Mr. Lyman E. Bolinger determines a meridian with the solar apparatus of said instrument which meridian agrees with the Polaris meridian determined by me.

At apparent noon I set off 18° 46' N. on the declination arc of the W. & L.E.Gurley transit and observe the sun in the meridian, with the resulting lat. 37° 13'.

At the same time and with the same declination setting on transit No. 8584, Mr. Lyman E. Bolinger, observes the sun in the meridian with the resulting latitude, 37° 13'.

At 5:00 p.m. app. t. I set off 37° 13' N. on the latitude arc of the Gurley transit and 18° 44' N. on the declination arc, and determine a meridian with the solar attachment. The meridian thus determined practically falls in the middle of the rock whose bearing was found to be north, by the Polaris observation.

At the same time and with the same settings on the lat. and decl. arcs of Young and Sons. transit number 8584, Mr. Lyman E. Bolinger, determines a meridian with the solar attachment of this instrument which coincides with the meridian determined by observations on Polaris.

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 the Polaris 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 tape kept for this purpose exclusively.

Survey of the Eighth Standard Parallel through T. 41 S., R. 1 E.

From the S.C. of T. 40 and 41 S., R. 1 W. and R. 1 E., which is an iron post, 3 ins. dia., set 8 ins. in the ground and 16 ins. in a mound of stone, firmly set, properly mkd. and witnessed.

East on true line along the S. bdy. of sec. 31.

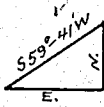
Chains	
	Over rough mts. land, asc. over sandstone ledges through dense cedar and pinon timber and mountain rush, shadscale and grass undergrowth.
2.00	Base of sandstone ledges 500 ft. high, bear N. and S., impossible to chain over ledges, therefore, offset north, a distance of 11.43 chs., thence east on offset line over broken sandstone ledges which bear N. 20° W. and S. 20° E.
40.00	Offset S. 11.43 chs. to true line, and on N.E. slope of canyon, 320 ft. below top of ledges, Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone with 3½ ft. base, for the St. ¼ cor. of sec. 31, with brass cap mkd., S C / ¼ S 31 / 1917 from which, A Pinon, 4 Ins. dia., bears N. 39½° E., 82 lks. dist., mkd. S.C. ¼ S 31 B T. A Cedar, 6 ins. dia., bears N. 32° W., 1.22 chs. dist., mkd. S.C ¼ S 31 B T
43.50	Ravine, 110 ft. below ¼ cor., drains NW. Asc. abruptly over sandstone ledges, bear with ravine.
72.70	Top of broken red sandstone spur, 210 ft. above ravine, projects N. 30° W. Desc. abruptly over sandstone ledges into canyon.
80.00	On the NE slope of canyon, 230 ft. below spur, Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in the ground to solid rock and 16 ins. in a mound of stone, with 3 ft. base, for the S.C. of secs. 31 and 32, with brass cap mkd., S C / T40S R1E / S 31 | S 32 / 1917

Chains	
	from which,
	A pinon, 6 ins. dia., bears, N 71° E. 66 lks. dist., mkd. SC T 40 S R 1 E S 32 B T.
	A pinon, 4 ins. dia., bears, N 20° W., 1.24 chs. dist., mkd. SC T 40 S R 1 E S 31 B T.
	Land, rough mountainous, with high sandstone ledges, draining to the N.W.
	Soil, Light, dry, rocky sandy, with much sandstone, on sandstone.
	Timber, dense cedar and pinon.
	Undergrowth, mountain rush, shadscale and scattered bunch grass. Too rough for grazing.
	From the S.C. of secs. 31 and 32.
	East on true line along the S. bdy. of sec. 32.
	Over rough mountainous land, desc. over sandstone ledges, through scattered cedar and pinon timber and scattered rabbit brush, mountain rush, service-berry, and choke-cherry brush undergrowth.
2.00	Ledgy canyon, 50 ft. below sec. cor., course NW.
	Asc. abruptly over sandstone ledges. Timber becomes dense.
10.10	Top of ledges and edge of rolling mesa, bears with canyon, 210 ft. above canyon. Thence over rolling mesa.
25.00	Timber becomes scattered, enter dense sage brush, bears NW. and SE. Mesa begins to slope east.
40.00	On gentle east slope of mesa, 20 ft. below top of mesa, Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in the ground to solid rock and 14 ins. in a mound of stone with 3 ft. base, for the S¼ cor. of sec. 32, with brass cap mkd.,
	S C ¼ S 32 1917
	From which
	A cedar, 14 ins. dia., bears N. 61° W., 53 lks. dist.,

Chains	
	mkd., S C ¼ S 32 B T.
	A pinon, 12 ins. dia., bears N. 26° E., 78 lks. dist., Mkd., S C ¼ S 32 B T.
49.20	Wash, 30 ft. below ¼ cor., 20 lks. wide and 25 ft. deep, drains NW.
75.70	Wash, 10 lks. wide and 8 ft. deep, level with wash, drains N. 70° W. to main ravine.
80.00	On broken mesa, level with wash, Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in a mound of stone, 3½ ft. base, on solid rock, for the S. C. of secs. 32 and 33, with brass cap mkd., S C / T 40 S R 1 E / S 32 | S 33 / 1917
	From which
	A cedar, 12 ins. dia., bears N. 46½° E., 65 lks. dist., mkd. S C T 40 S R 1 E S 33 B T.
	A Pinon, 10 ins. dia., bears N. 30° W., 36 lks. dist., mkd., S C T 40 S R 1 E S 32 B T.
	Land, west portion, rough sandstone ledges, east portion, rolling mesa.
	Soil, on west portion, rocky, sandy; on east portion, light, dry, sandy loam, with sandstone outcroppings; all on sandstone bed rock.
	Timber, dense cedar and pinon, except on extreme west portion of mile and on the east portion where it is scattered.
	Undergrowth, scattered rabbit brush, mountain rush, service-berry and choke cherry brush.
	Fair grazing on mesa, balance of mile too rough.
	From the S.C. of secs. 32 and 33.
	East on true line along the S. bdy. of sec. 33.
	Over broken mesa edge, desc. over rough broken sandstone ledges through cedar and pinon timber and scattered mountain rush, sage brush, rabbit brush and bunch

Survey of the Eighth St. Par. S. through T. 40 S., R. 1 E.

Chains	
	of grass undergrowth.
9.80	Ledgy ravine, 140 ft. below sec. cor., course south to main canyon. Asc. abruptly over sandstone ledges, along NW. slope of mesa.
33.10	Top ledge of mesa and extreme N. point of mesa, 180 ft. above ravine, point of mesa bears from SE. to SW. Desc. abruptly over sandstone ledges.
40.00	On north slope of mesa, 260 ft. below mesa, Set an iron post, 3 ft. long, 1 in. dia., on solid rock, 26 ins. in a mound of stone, with 4 ft. base, for the St ¼ cor. of sec. 33, with brass cap mkd., S C / ¼ S 33 / 1917 From which A Pinon, 10 ins. dia., bears N. 58½° E., 70 lks. dist., mkd. S C ¼ S 33 B T. A pinon, 6 ins. dia., bears N. 56½° W., 31 lks. dist., mkd. S C ¼ S 33 B T.
42.21	Top of ledges impossible to chain, bear NE. and SW., 60 ft. below ¼ sec. cor. To determine distance to edge of bench east across ledgy breaks I proceed as follows; Set a point across breaks on line east on bench and make detour to this point and from this point measure north a distance of 20.00 chs. for a base line to triangulate. From the north end of base I observe with the transit that the flagman at the 42.21 chs. point bears S. 59° 41' W. The distance from west triangulation point to the east triangulation is then, 20.00 × tan. 59° 41' = 20.00 × 1.71015 = 34.20 chs.
76.41.	East triangulation point and edge of lower bench, 280 ft. above bottom of breaks, bears NW. and SE. Thence across lower rolling, broken bench.
80.00	On broken lower bench, Set an iron post, 3 ft. long, 2 ins. dia., on solid rock,



Chains	
	24 ins. in a mound of stone, with 4 ft. base, for the S.C. of secs. 33 and 34, with brass cap mkd.,
	S C T 40 S R 1 E S 33 | S 34 1917
	from which
	A cedar, 12 ins. dia., bears N. 45° W., 43 lks. dist. mkd., S C T 40 S R 1 E S 33 B T.
	A cedar, 14 ins. dia., bears N. 1½° E., 73 lks. dist. mkd., S C T 40 S R 1 E S 34 B T.
	Land, rough mountainous, with sandstone ledges throughout mile. General drainage to SE.
	Soil, rocky, sandy loam on sandstone bed rock.
	Timber, cedar and pinon.
	Undergrowth, scattered mountain rush, sage brush, rabbit brush and bunch grass.
	Most of mile too rough for grazing.
	From the S.C. of secs. 33 and 34.
	East, on true line along the S. bdy. of sec. 34.
	Over broken bench land with numerous sandstone outcropping through scattered cedar and pinon timber and scattered rabbit brush, sage brush, russian thistle and bunch grass undergrowth. Desc. gradually.
8.50	Wash, 20 lks. wide and 4 ft. deep, drains, southeast, 70 ft. below sec. cor.
14.50	Recross same wash, drains northeast.
19.50	Recross same wash, drains southeast, forks of washes about 30 lks. northwest.
21.80	Leave timber, bears NW. and SE. Enter scattered shadscale undergrowth, bears with timber. Asc. gradually.
40.00	On broken bench, 20 ft. above wash,
	Set an iron post, 3 ft. long, 1 in. dia., on solid rock, 26 ins. in a mound of stone with 4 ft. base, for the S¼. ¼. cor. of sec. 34, with brass cap mkd.,

Survey of the Eighth St.Par.S.through T. 40 S., R. 1 E.

Chains	
	S C ¼ S 34 1917
	from which
	A cedar, 15 ins. dia., bears N. 8½° W., 128 lks. dist., mkd., S C ¼ S 34 B T.
	No other bearing tree available in sec. 34, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
43.30	Wash, 30 lks. wide and 10 ft. deep, 20 ft. below ¼ cor., drains south.
53,85	Wash, level with wash, 15 lks. wide and 3 ft. deep, drains south.
75.50	Sharp spur, 110 ft. above wash, projects SE. Desc. abruptly over broken sandstone ledges.
80.00	On broken east slope of spur, 240 ft. below spur, Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in the ground, to bed rock, and 14 ins. in a mound with 2½ ft. base, for the S.C. of secs. 34 and 35, with brass cap mkd.,
	S C T 40 S R 1 E S 34 | S 35 1917
	No bearing trees available, therefore, raise a mound of stone, 2 ft. base, 1½ ft. high, north of the cor.
	Land, broken bench on west portion, rough mountainous on east portion, with sandstone ledges.
	Soil, shallow, light, dry, sandy loam on west portion, with numerous sandstone outcroppings, rocky and sandy on east portion, all on sandstone bed rock a few inches below surface.
	Timber, some scattered cedar and pinon.
	Undergrowth, scattered rabbit and sage brush, russian thistle, shadscale and bunch grass.
	Fair grazing, except on east portion.

Chains	
	Fron the S.C. of secs. 34 and 35.
	East on true line along the S. bdy. of sec. 35.
	Over broken mountainous land, desc. gradually, through scattered cedar and pinon timber and shadscale, mountai rush and bunch grass undergrowth.
19.90	Timber becomes dense. Numerous sandstone outcroppings.
40.00	On broken bench land, 50 ft. below sec. cor., Set an iron post, 3 ft. long, 1 in. dia., on solid rock, 26 ins. in a mound of stone with 4 ft. base, for the S. ¼ cor. of sec. 35, with brass cap mkd., S C ✓ / ¼ S 35 / 1917
	from which,
	A pinon, 14 ins. dia., bears N. 56° W., 84 lks. dist. mkd., S.C ¼ S 35 B T. ✓
	A pinon, 13 ins. dia., bears N. 69½ E., 95 lks. dist. mkd., S C ¼ S 35 B T. ✓
45.60	Cliff, overlooking Wahweap canyon, 20 ft. below ¼ cor., bears, N. 40° W. and S. 40° E. Leave timber, bears with cliff. Desc. into Wahweap canyon.
50.50	Wahweap creek in bottom of canyon, 40 ft. below cliff, course S. 40 E. Good iron drinking water seeping out of creek bottom. Creek dry except small seeps at numerous places along canyon bottom.
	Asc. abruptly from creek bottom.
68.50	Edge of lower bench, 280 ft. above creek, bears with creek. Thence asc. over broken bench.
80.00	On broken bench, 110 ft. above edge of bench, Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the S.C. of secs. 35 and 36, with brass cap mkd., S.C ✓ / T 40 S R 1 E / S 35 | S 36 / 1917

Chains

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

Land, rough mountainous.

Soil, light, dry, sandy loam, with numerous sandstone outcroppings.

Timber, cedar and pinon on the west portion.

Undergrowth, shadscale, mountain rush, and bunch grass.

Fair grazing.

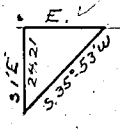
From the S.C. of secs. 35 and 36.

East on true line along the south bdy. of sec. 36.

Over rough mountainous land, asc. abruptly over series of sandstone ledges, through dense cedar and pinon timber and scattered service-berry, mountain rush, sagebrush, yellow-top and grass undergrowth.

Line passes over sandstone ledges impossible to chain accurately, therefore prepare to triangulate to top of ridge east as follows,

Set a flag at the S.C. of secs. 35 and 36, then, set a point on line east at top or ridge and make detour to the latter point, from which point, observe with the transit that the flag previously set, 24.21 chs. S. 1° E. of C.C. for secs. 1 and 2, bears S. 35° 53' W. The C.C. is 41 lks. east of the S.C. The distance to east triangulation point is then,



cotan. 54° 07' x 24.21 + (1 lk.)= 17.52 chs. from the closing corner of secs. 1 and 2.

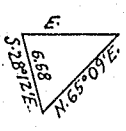
Distance from the S.C. of secs. 35 and 36 is then,

17.52 chs. + 41 lks. = 17.93 chs.

Move point 1.1k. west and at

17.92 Set point on top of sharp, rocky ridge, 700 ft. above sec. cor., bears S. 60° E. and N. 60° W.

Desc. abruptly into box canyon impossible to chain, therefore proceed to triangulate as follows, set a flag at the 17.92 chs. point, from which point measure



Chains	
	S. 28° 12' E., 6.68 chs. dist., for a base line, from the S. end of base the flag previously set on line at the east edge of box canyon, bears, N. 65° 09' E., the distance to east triangulation point is then, log. 6.68 + log. sin. 86°39' + colog. sin. 24° 51' = 0.824776 + 9.999257 + 0.376498 = 1.200531 log. of dist. = 15.87 chs.
22.00	Approximate bottom of box canyon, 500 ft. deep, course south. Asc. abruptly over sandstone ledges.
33.79	Triangulation point on east rim of box canyon, 500 ft. above canyon, bears NE. and SW. Asc. over broken sandstone ledges.
40.00	On top of sandstone spur, projects north, 120 ft. above rim of canyon, Set an iron post, 3 ft. long, 1 in. dia., on solid rock, 24 ins. in a mound of stone, with 4 ft. base, for the St. ¼ cor. of sec. 36, with brass cap mkd., S C / ¼ S 36 / 1917 from which, A pinon, 10 ins. dia., bears E. 29° E., 33 lks. dist., mkd.; S C ¼ S 36 B T. No other suitable bearing trees available, therefore, raise a mound of stone, base 2 ft., 1½ ft. high, north of the cor. Desc. from, ¼ sec. cor. over broken sandstone ledges.
44.30	Shallow gulch, 40 ft. below ¼ cor., drains N. Asc. over broken sandstone ledges.
51.23	Sandstone spur, 70 ft. above gulch, projects N. Asc.
55.70	High rim of mesa, 710 ft. above box canyon, bears NW. and SE. Timber becomes denser. Thence over rolling mesa.
80.00	On high mesa, Set an iron post, 3 ft. long, 3 ins. dia., 6 ins. in the

Survey of the Eighth St. Par. through T. 40 S., R. 1 E.

Chains

ground to bedrock, 20 ins. in a mound of stone with 3½ ft. base, for the standard corner of Township No. 40 S., Rs. 1 and 2 E., with brass cap mkd.,

S C
T 40 S
R 1 E | R 2 E
S 36 | S 31

1917

from which

A pinon, 12 ins. dia., bears N. 22° E., 105 lks. dist., mkd., S C T 40 S R 2 E S 31 B T.

A pinon, 10 ins. dia., bears N. 47½° W., 88 lks. dist., mkd., S C T 40 S R 1 E S 36 B T.

Land, rough mountainous with sandstone ledges except east portion which is rolling mesa.

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

Timber, dense cedar and pinon.

Undergrowth, scattered service-berry, mountain rush, sagebrush, yellow-top and grass. | Fair grazing on east portion.

Survey of the E. bdy. T. 41 S., R. 1 E.

From the witness corner to the cor. of T. 41 and 42 S., R. 1 and 2 E., which is 14.13 chs. north of true cor. point, heretofore described.

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

Over broken mesa land, asc. gradually, through dense cedar and pinon timber and scattered undergrowth of mountain rush, sagebrush, yellow-top and silverleaf bushes.

19.20 Top small rim of sandstone ledges, 10 ft. above W.C., bears E. and W. Desc. gradually.

40.00 In small hollow, 20 ft. below ledges, drains east.

Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3½ ft. base, for the ¼ cor. of secs. 31 and 36, with brass cap mkd.,

Chains	
	$\frac{1}{4}$ S 36 | S 31 1917 from which A pinon, 6 ins. dia., bears S. 34° E., 26 lks. dist. mkd., $\frac{1}{4}$ S 31 B T. A pinon, 12 ins. dia., bears N. 52½° W., 158 lks., dist., mkd., $\frac{1}{4}$ S 36 B T.
67.90	Broken spur, 40 ft. above cor., projects N. 10° E. Desc. abruptly.
80.00	30 ft. below spur, Set an iron post, 3 ft. long, 2 ins. dia., 6ins. in the ground to bedrock, 18 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 25, 30, 31 and 36, with brass cap mkd., T 41 S R 1 E R 2 E S 25 | S 30 S 36 | S 31 1917 from which A cedar, 11 ins. dia., bears N. 32½° E., 120 lks. dist., mkd., T 41 S R 2 E S 30 B T. A cedar, 10 ins. dia., bears S. 28½° E., 130 lks. dist., mkd., T 41 S R 2 E S 31 B T. A cedar, 12 ins. dia., bears S. 2° W., 126 lks. dist., mkd., T 41 S R 1 E S 36 B T. A cedar, 8 ins. dia., bears N. 42° W., 76 lks. dist., mkd., T 41 S R 1 E S 25 B T. Land, S. 14.00 chs. rough sandstone ledges, balance, broken mesa. Soil, light, dry, red, sandy formation, on sandstone bedrock, numerous sandstone outcroppings. Timber, dense cedar and pinon. Undergrowth, mountain rush, yellow-top, sagebrush, and silverleaf bushes.

E. bdy. of T. 41 S., R. 1 E.

Chains	
	North, on true line, bet. secs. 25 and 30.
	Over broken mesa land, through dense cedar and pinon timber and service-berry, shadscale, mountain rush, yellow-top and grass undergrowth.
5.73	S. rim of deep canyon, level with sec. cor., bears SE. and SW. Desc. abruptly over sandstone ledges. Impossible to chain over ledges, therefore prepare to triangulate as follows; measure E. 7.10 chs. dist. for a base, from which flag, previously set on line north, bears N. 15° 41' W. It was impossible to get a longer base on account of ledges. The distance to point N. is then,
	tan. 74° 19' x 7.10 = 3.56159 x 7.10 = 25.29 chs.
31.02	N. triangulation point in ledgy gulch, 530 ft. below rim of mesa, course N. 10° W. Thence cross and recross wash in bottom of gulch. Leave timber, bears E. and W.
32.80	Large red sandstone boulder, in gulch bottom, 20 ft. x 15 ft. x 15 ft.
33.20	Leave wash in bottom of gulch, course N. 10° W. Asc. abruptly, along E. side of gulch.
40.00	10 ft. above wash, on E. side of wash,
	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 $\frac{1}{4}$ cor. of secs. 25 and 30, with brass cap mkd.,
	$\frac{1}{4}$ S 25 | S 30 1917
	No bearing trees available, therefore raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of the cor.
58.90	Sandstone spur, 30 ft. above $\frac{1}{4}$ cor., projects N. 75° W. Desc. abruptly from spur.
64.00	Wash, 30 lks. wide, 3 ft. deep, in bottom of deep ledgy ravine, drains N. 20° E., 220 ft. below spur. Asc. abruptly along SW. slope of spur.
78.00	Spur, 140 ft. above wash, projects N. 30° E. Desc. gradually.

Chains	
80.00	10 ft. below spur, on north slope of 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. 19, 24, 25 and 30, with brass cap mkd., T 41 S R 1 E | R 2 E S 24 | S 19 S 25 | S 30 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of the cor. Land, rough mountainous, with sandstone ledges throughout mile, General NE. drainage. Soil, light, dry, red, sandy and rocky, mixed with gravel. Timber, cedar and pinon on south posbion of mile. Undergrowth, service-berry, shadscale, mountain rush, yellow-top and grass. Poor grazing.
	North, on true line, bet. secs. 19 and 24. Over broken mountainous land, desc. gradually through cedar and pinon timber and sagebrush undergrowth.
16.50	Sandstone spur, 50 ft. below sec. cor., projects E. Desc. gradually.
26.47	S. rim of Wahweap canyon, 40 ft. below spur, bears SE. and NW. Desc. abruptly over sandstone ledges.
	True point for ¼ cor. will fall in sandstone ledges which are inaccessible, therefore on S. rim of Wahweap canyon, Set an iron post, 1 in. dia., 3 ft. long, 12 ins. in the ground to bedrock, 14 ins. in a mound of stone, 3 ft. base, for a witness cor. to the ¼ sec. cor. of secs. 19 and 24, with brass cap mkd., W C ¼ S 24 | S 19 1917

Chains	
	from which
	A cottonwood, 16 ins. dia., bears S. 71½° E., 310 dist., mkd., W C ¼ S 13 B T.
	A cottonwood, 6 ins. dia., bears N.58½° W., 250 lks., dist., mkd., W C ¼ S 24 B T.
	Set flag at witness cor. for triangulation.
30.00	Creek in bottom of Wahweap canyon, 40 ft. below W.C., course, S.E., small stream of clear alkali water, 6 lks. wide, 2 ins. deep.
35.00	N. bank of Wahweap wash, 30 ft. above creek, bears NW. and SE. Asc. abruptly over sandstone ledges which it is impossible to chain over, therefore triangulate as follows; Set point on line north at top rim of ledges and from this point measure S. 64° 45' E., 10.81 chs. dist., for base line, from which point the angle between flag at W.C. and N. triangulation point is 86° 45'. The distance then is; log.10.81 + log.sin.86° 45' + colog. sin. 28° 30' = 1.033826 + 9.999301 + 0.321337 = 1.354464 = log. of dist. Distance = 22.62 chs.
43.09	North triangulation point and rim of high gray bluff, 710 ft. above Wahweap creek, bears N. 60° W. and S. 60° E. Asc. gradually over red sandstone ledges.
80.00	On high gray bluff, 20 ft. above rim, Set an iron post, 3 ft. long, 2 ins. dia., on bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 13, 18, 19 and 24, with brass cap mkd.,

T 41 S
R 1 E | R 2 E
S 13 | S 18
S 24 | S 19

1917

from which

A cedar, 10 ins. dia., bears N. 33° E., 48 lks. dist., mkd., T 41 S R 1 E S 18 B T.

A cedar, 12 ins. dia., bears N. 82° W., 260 lks. dist., mkd., T 41 S R 1 E S 13 B T.

Chains

A cedar, 10 ins. dia., bears S. 16½° E., 276 lks., dist., mkd., T 41 S R 2 E S 19 B T.

A cedar, 6 ins. dia., bears S 11° W., 194 lks. dist., mkd., T 41 S R 1 E S 24 B T.

Land, rough broken mountainous, general drainage SE.

Soil, rocky, shallow, sandy on sandstone bedrock.

Timber, cedar and pinon.

Undergrowth, sagebrush.

North, on true line, bet. secs. 13 and 18.

Over broken mesa land, desc. gradually over broken red sandstone ledges through dense cedar and pinon tim and scattered shadscale, sagebrush, yellow-top, servic berry and grass undergrowth.

40.00 On high broken mesa, 30 ft. below sec. cor.,

Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in a mound of stone, base 4 ft., on solid bedrock, for the ¼ cor. of secs. 13 and 18, with brass cap mkd.,

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 13 \mid \text{S } 18 \\ 1917 \end{array}$$

from which

A cedar, 10 ins. dia., bears S. 15° E., 113 lks. dist., mkd., ¼ S 18 B T.

A cedar, 24 ins. dia., bears S. 13½° W., 129 lks., dist., mkd., ¼ S 13 B T.

Continue gradual desc. into canyon.

69.00 Wash in canyon, 30 ft. below ¼ cor., 40 lks. wide, 4 ft. deep, drains E. Asc. gradually from wash.

80.00 On S. slope of small white sandstone spur, projecting SW., 75 ft. above wash,

Set an iron post, 3 ft. long, 2 ins. dia., on solid bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 7, 12, 13 and 18, with brass cap mkd.,

Chains	
	T 41 S R 1 E | R 2 E S 12 | S 7 S 13 | S 18 1917
	from which
	A pinon, 20 ins. dia., bears N. 55° E., 60 lks. dist., mkd., T 41 S R 2 E S 7 B T.
	A pinon, 10 ins. dia., bears S. 7½° E., 202 lks. dist., mkd., T 41 S R 2 E S 18 B T.
	A pinon, 12 ins. dia., bears S. 35½° W., 263 lks. dist., mkd., T 41 S R 1 E S 13 B T.
	A cedar, 8 ins. dia., bears N. 80° W., 122 lks. dist., mkd., T 41 S R 1 E S 12 B T.
	Land, broken rocky mesa, draining S. to Wahweap and E.
	Soil, shallow, rocky, sandy loam, on sandstone bedrock.
	Timber, cedar and pinon.
	Undergrowth, shadscale, yellow-top, sagebrush, service-berry and grass. Fair grazing.
	North, on true line, bet. secs. 7 and 12.
	Over broken mesa land, Asc. gradually through cedar and pinon timber and mountain rush, sagebrush, service-berry, yellow-top and grass undergrowth.
2.10	Spur, 30 ft. above sec. cor., projects SW. Desc. over broken sandstone ledges.
9.30	Wash, 30 ft. below spur, 30 lks. wide and 3 ft. deep, drains SW. Asc. gradually.
24.80	Ridge, 40 ft. above wash, bears NW. and SE. Desc. gradually into wash.
29.80	Wash, 20 ft. below ridge, 10 lks. wide and 4 ft. deep, drains SE. Asc. over broken foothills.
37.00	Asc. abruptly over clay hills, bear NW. and SE.
40.00	On clay foothills, 110 ft. above wash,
	Set an iron post, 3 ft. long, 1 in. dia., on solid bed-rock, 24 ins. in a mound of stone, 4 ft. base, for

Chains

the ¼ cor. of secs. 7 and 12, with brass cap mkd.,

S 12 | S 7

1917

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

Continue gradual asc. over clay and sandstone foothills.

48.30 Asc. more abruptly.

63.00 Gray sandstone spur, 310 ft. above ¼ sec. cor., projects SW. from high gray bluffs. Desc. abruptly over gray sandstone ledges and boulders.

77.10 Rocky ravine, 120 ft. below spur, course west. Asc. abruptly over large sandstone boulders. Leave timber.

80.00 20 ft. above ravine.

Set an iron post, 3 ft. long, 2 ins. dia., 4 ins. in the ground to bedrock and 20 ins. in a mound of stone, 3½ ft. base, for the cor. of secs. 1, 6, 7 and 12, with brass cap mkd.,

T 41 S

R 1 E | R 2 E

S 1 | S 6

S 12 | S 7

1917

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

Land, rough, rugged foothills, draining E. on south portion and SW. to Wahweap creek on north portion of mile.

Soil, rocky, sand and clay, on sandstone subsoil.

Timber, cedar and pinon.

Undergrowth, mountain rush, sagebrush, service-berry, yellow-top and grass. Poor grazing.

North, on true line, bet. secs. 1 and 6.

Over rough mountainous land through scattered undergrowth of shadscale, mountain rush, sagebrush, yellow-top and grass.

E. bdy. of T. 41 S., R. 1 E.

Chains	
	Asc. abruptly over SW. slope of high gray bluffs over which it is impossible to chain, therefore, triangulate as follows, set a point on line, N., at rim of bluff, and from this point observe that the flag previously set 40.00 chs. dist., west of the cor. of secs. 1, 6, 7 and 12, bears S. 61° 40' W. The distance to the north triangulation point is then,
	40.00 x cotan. 61° 40' or .53920 = 21.57 chs.
21.57	North triangulation point and rim of high gray bluffs, 710 ft. above sec. cor., bears N. 20° W. and S. 20° E. Enter dense cedar and pinon timber, bears with bluffs. Desc. gradually along broken mesa.
30.30	Rocky wash, 60 ft. below rim, 20 lks. wide and 2 ft. deep, drains NE. Asc. gradually along S. slope of spur.
31.30	Sandstone spur, 30 ft. above wash, projects west. Desc.
40.00	On gentle N. slope of spur, 10 ft. below spur, Set an iron post, 3 ft. long, 1 in. dia., on solid bedrock, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 1 and 6, with brass cap mkd.,
	¼ S 1 | S 6 1917
	from which
	A pinon, 12 ins. dia., bears N. 38½ E., 74 lks. dist., mkd., ¼ S 6 B T.
	A cedar, 8 ins. dia., bears N. 14° W., 12 lks. dist., mkd., ¼ S 1 B T.
	Desc. from ¼ cor.
45.10	Head of Box canyon, 125 ft. below ¼ cor., course N. 60° W.
45.70	Sandstone ridge, 10 ft. above head of canyon, bears E. and W. Desc. N. slope of ridge.
54.20	Box canyon, 80 ft. below ridge, drains N. 40° W. Asc. S. slope of spur.
59.20	Sandstone spur, 50 ft. above canyon, projects west. Desc. N. slope of spur.

Chains	
61.10	Head of box canyon, 40 ft. below spur, course west. Asc. over broken S. slope of sandstone ridge.
75.00	Sandstone ridge, 60 ft. above canyon, bears E. and W. Desc. N. slope of ridge over broken sandstone ledges.
85.57	Intersect the Eighth St. Par. S. 53 lks. east of the S.C. of T. 40 S., R. 1 and 2 E. At intersection, 50 ft. below ridge,

Set an iron post; 3 ft. long, 3 ins. dia.; 10 ins. in the ground to solid bedrock, 14 ins. in a mound of stone, 4 ft. base, for the C.C. of T. 41 S., R. 1 and 2 E., with brass cap mkd.,

T 40 S R 2 E
S 31
S 1 | S 6
R 1 E | R 2 E
T 41 S
C C
1917

from which

A pinon, 8 ins. dia., bears S. 28½° W., 54 lks. dist., mkd., C C T 41 S R 1 E S 1 B T.

A pinon, 7 ins. dia., bears S. 70° E., 20 lks. dist., mkd., C C T 41 S R 2 E S 6 B T.

Land, S. portion, extremely rugged breaks from high gray bluffs, N. portion, high broken mesa. General drainage SW. to Wahweap creek.

Soil, shallow, rocky, sandy loam, on snadstone bedrock.

Timber, cedar and pinon.

Undergrowth, shadscale, mountain rush, sagebrush, yellow-top and grass. Fair grazing on mesa.

Subdivision of T. 41 S., R. 1 E.

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

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

Over broken, rocky, mesa, desc. gradually through dense

Chains	
	cedar and pinon timber and scattered shadscale, service-berry, rabbit-brush and sagebrush undergrowth.
21.60	Head of ledgy gulch, 20 ft. below sec. cor., course NE. Asc. gradually over broken mesa.
40.00	On top of small rim of ledges, bears E. and W., 10 ft. above head of gulch,
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to solid bedrock, 20 ins. in a mound of stone, 3½ ft. base, for the ¼ cor. of secs. 35 and 36, with brass cap mkd.,
	¼ S 35 | S 36 1917
	from which
	A pinon, 18 ins. dia., bears N. 59° E., 40 lks. dist., mkd., ¼ S 36 B T.
	A pinon, 8 ins. dia., bears N. 42° W., 65 lks. dist., mkd., ¼ S 35 B T.
	From ¼ cor. a small seep spring of good clear drinking water bears E. about 21.00 chs. dist.
58.00	Wash, 20 lks. wide, 2 ft. deep, 20 ft. below ¼ cor., drains N. 70° E. Desc. gradually.
80.00	On rocky mesa, 20 ft. below wash,
	Set an iron post, 3 ft. long, 2 ins. dia., 14 ins. in the ground to bedrock, 10 ins. in a mound of stone, 2½ ft. base, for the cor. of secs. 25, 26, 35 and 36, with brass cap mkd.,
	T 41 S R 1 E S 26 | S 25 S 35 | S 36 1917
	from which
	A pinon, 10 ins. dia., bears N. 63° E., 71 lks. dist., mkd., T 41 S R 1 E S 25 B T.
	A pinon, 8 ins. dia., bears S. 20° E., 59 lks. dist., mkd., T 41 S R 1 E S 36 B T.

Chains	
	A cedar, 6 ins. dia., bears S. 57° W., 147 lks. dist. mkd., T 41 S R 1 E S 35 B T.
	A pinon, 12 ins. dia., bears N. 84° W., 71 lks. dist. mkd., T 41 S. R 1 E S 26 B T.
	Land, rocky, broken mesa, general drainage NE.
	Soil, shallow, loose, rocky, sandy loam on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered, shadscale, service-berry, rabbit-brush and sagebrush. Fair grazing.
	East, on random line, bet. secs. 25 and 36.
	Over rough, broken mesa land.
40.00	Set temp. point for ¼ sec. cor.
80.40	Intersect E. bdy. of Tp. 38 lks. S. of the cor. of secs. 25, 30, 31 and 36, heretofore described.
	Thence,
	S. 89° 44' W., on true line, bet. secs. 25 and 36.
	Over rough, broken mesa land, asc. gradually through dense cedar and pinon timber and scattered sagebrush, service-berry, yellow-top, shadscale and bunch grass undergrowth.
8.10	Wash, 10 ft. above sec. cor., 40 lks. wide, 8 ft. deep, drains N. 40° E. Asc. gradually.
11.20	Top rim of ledges along canyon edge, 10 ft. above wash, bears N. and S. Desc. abruptly over red sandstone ledges into deep canyon.
28.50	Wash in bottom of canyon, 360 ft. below rim, 20 lks. wide, 3 ft. deep, course NE. Asc. abruptly over red sandstone ledges.
40.20	270 ft. above wash, on E. slope,
	No iron posts available, therefore set a red sandstone, 20 x 14 x 4 ins., 15 ins. in a mound of stone, 2 ft. base, on solid bedrock, for the ¼ cor. of secs. 36 and 25, mkd. ¼ on N. face,

Subdivision of T. 41 S., R. 1 E.

Chains	
	No bearing trees available, therefore, raise a mound of stone, 2 ft. base, 1½ ft. high, N. of the cor. Asc. abruptly over rough E. slope of mesa.
47.80	High rim of red sandstone ledges, 310 ft. above ¼ cor. bears N. 30° E. and S. 30° W. Thence asc. gradually over broken sandstone ledges.
64.20	Top of small rim of red sandstone ledges, 30 ft. above ledges, bears NE. and SW. Desc. gradually over broken mesa.
75.10	Wash, 60 ft. below ledges, 15 lks. wide, 3 ft. deep, drains N. Asc. gradually.
80.40	The cor. of secs. 25, 26, 35 and 36, 10 ft. above wash. Land, rough, broken mesa, cut by deep ledgy canyon, draining NE. Soil, shallow, rocky, sandy loam, on sandstone bedrock. Timber, dense cedar and pinon. Undergrowth, scattered sagebrush, service-berry, yellow-top, shadscale and bunch grass. Fair grazing.
	N. 0°01' W., on true line, bet. secs. 25 and 26. Over broken mesa land, Asc. gradually through dense cedar and pinon timber and service-berry, sagebrush, shadscale, mountain rush, yellow-top and bunch grass undergrowth.
22.20	Top of broken white sandstone spur, 20 ft. above sec. cor., projects NE. Desc. gradually along NW. slope of spur.
35.40	Wash, 70 ft. below spur, 15 lks. wide, 1 ft. deep, drains N. 40° E. Asc. gradually from wash.
40.00	On broken mesa, 10 ft. above wash, Set an iron post, 3 ft. long, 1 in. dia., on solid bed-rock, 26 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 25 and 26, with brass cap mkd.,

¼

S 26 | S 25

1917

Subdivision of T. 41 S., R. 1 E.

Chains	
	from which
	A pinon, 10 ins. dia., bears N. 16° E., 115 lks. dist., mkd., ¼ S 25 B T.
	A pinon, 12 ins. dia., bears S. 51° W., 110 lks. dist., mkd., ¼ S 26 B.T.
	Asc. gradually.
42.10	Small rim of red sandstone ledges, 10 ft. above ¼ cor., bears NE. and SW. Desc. gradually from ledge.
44.90	S. rim of deep canyon, 10 ft. below ledge, bears NE. and SW. From this point small seep spring of good clear drinking water at base of ledge near top of mesa, bears S. 70° W. Desc. abruptly over sandstone ledges.
70.50	Wash, in bottom of canyon, 490 ft. below mesa, 35 lks. wide, 3 ft. deep, course, east. Asc. abruptly over sandstone ledges.
74.70	From this point seep spring mentioned above bears S. 19½° W. Continue abrupt asc. over ledges.
80.00	On SE slope, 210 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. 23, 24, 25 and 26, with brass cap mkd.,
	T 41 S R 1 E S 23 | S 24 S 26 | S 25 1917
	No bearing trees available, therefore, raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Land, rough broken mesa, cut by deep, ledgy canyons draining to the NE.
	Soil, light, dry, rocky red and white sandy loam on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, service-berry, sagebrush, shadscale, mountain rush, yellow-top and bunch grass. Fair grazing.

Chains	
.00	N. 89° 44' E., on random line bet. secs. 24 and 25.
40.00	Set temp. point for ¼ sec. cor.
80.22	Intersect E. bdy. of Tp. at the cor. of secs. 19, 24, 25, and 30, heretofore described. Thence
	S. 89° 44' W., on true line, bet. secs. 24 and 25.
	Over broken bench land, desc. abruptly through scattered shadscale and yellow-top undergrowth.
19.90	Wash, 80 ft. belwo sec. cor., 35 lks. wide, 2 ft. deep, drains N. 10° E. Asc. abruptly over sandstone ledges.
29.60	Spur, 310 ft. above wash, projects S. Desc. gradually over west slope of spur.
40.11	20 ft. below spur, on west slope,
	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. 24 and 25, with brass cap mkd.,
	S 24 ¼ —— S 25 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of the cor.
	Asc. gradually from ¼ cor.
51.80	Spur, 60 ft. above ¼ cor., projects south. Desc.
80.22	The cor. of secs. 23, 24, 25 and 26, 40 ft. below spur.
	Land, broken, bench, draining to the NE.
	Soil, rocky, shallow sandy loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale and yellow-top.
	Poor grazing.
	———
	N. 0° 01' W., on true line, bet. secs. 23 and 24.
	Over rough mountainous land, asc. abruptly through scattered shadscale and yellow-top undergrowth.

Chains	
	It is impossible to chain over ledges N. of this cor. therefore, triangulate as follows;
	As the cor. of secs. 23, 24, 25 and 26 cannot be seen from the top of ledge, set a flag 5.33 chs. S. 0° 01' E., of cor., and then set a point N. 0° 01' W. at top of ledge from which measure base line S. 61° 21' W., 11.47 chs. dist., from W. end of base the flag 5.33 chs. dist., S. 0° 01' E. of cor. bears S. 62° 46' E.
	The log. of distance is then,
	log. 11.47 + log. sin. 55° 53' + colog. sin. 62° 45'=
	1.059563 + 9.917376 + 0.051090 = 1.028629
	Distance = 10.68 chs. from S. triangulation point.
5.35	North triangulation point and rim of mesa, 370 ft. above cor., bears NE. and SW. Enter cedar and pinon timber and service-berry, mountain rush, and sagebrush undergrowth, bear with rim of mesa. Asc. gradually.
19.70	Small broken spur, 20 ft. above mesa, projects west.
	Desc. gradual N. slope of spur.
40.00	On mesa, 30 ft. below spur,
	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. 23 and 24, with brass cap mkd.,
	¼
	S 23 | S 24
	1917
	from which
	A pinon, 8 ins. dia., bears N. 49° E., 76 lks. dist., Mkd., ¼ S 24 B T.
	A pinon 10 ins. dia., bears S. 72° W., 128 lks.dist., mkd., ¼ S 23 B T.
	Desc. gradually.
50.30	Top rim of red sandstone ledges, 60 ft. below ¼ cor., bear NE. and SW. Asc. gradually.
60.10	Red sandstone spur, 20 ft. above rim, projects N. 10° W.

Chains	
	Desc. abruptly over sandstone ledges.
60.50	Leave timber, bears NE. and SW.
80.00	On S. edge of gulch, draining SE., 410 ft. below spur, Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in the ground to bedrock, 18 ins. in a mound of stone, 3½ ft. base, for the cor. of secs. 13, 14, 23 and 24, with brass cap mkd.,

T 41 S R 1 E

S 14	S 13
S 23	S 24

1917

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

Land, rough broken mesa, cut by deep canyons draining NE. to Wahweap creek.

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

Timber, cedar and pinon on S. portion of mile.

Undergrowth, sagebrush, shadscale, yellow-top, mountain rush, service-berry and bunch grass. Poor grazing.

	N. 89° 44' E., on random line, bet. secs. 13 and 24.
17.08	Base of ledges over which it is impossible to chain, therefore, triangulate as follows, set a flag on line N. 89° 44' E., at top of ledges, then from the 17.08 chs. point measure a base line, S. 0° 16' E., 10.00 chs. dist., from which point the flag at top of ledges bears N. 67° 01' E., the distance is then,

N 89° 44' E
10.00
N 67° 01' E

10.00 x tan. 67° 17' or 2.38863 = 23.89 chs.

40.00	Point falls on inaccessible ledges.
40.97	E. triangulation point, set temp. point for W.C. ¼ cor.
80.17	Intersect the E. bdy. of the Tp. 9 lks. N. of the cor. of secs. 13, 18, 19 and 24, heretofore described.
	Thence,
	S. 89° 48' W., on true line, bet. secs. 13 and 24.
	Over broken mesa land, desc. gradually over broken sand-

Chains	
	stone ledges through scattered cedar and pinon timber and sagebrush, shadscale, service berry, yellow-top, mountain rush, bunchgrass undergrowth.
39.20	East triangulation point.
39.30	Edge of gray bluffs and rim of mesa, 20 ft. above sec. cor., bears, N. 60° W., and S. 60° E.
40.08½	Point falls in inaccessible ledges, therefore return to,
39.20	On rim of high gray bluffs, 20 ft. above sec. cor., Set aniron post, 3 ft. long, 1 in. dia., on bedrock, 24 ins. in a mound of stone, 3½ ft. base, for the W.C. to the ¼ cor. of secs. 13 and 24, with brass cap mkd.,

$$WC\ \tfrac{1}{4}\ \frac{S\ 13}{S\ 24}\ 1317$$

from which

A pinon, 10 ins. dia., bears N. 7° W., 34 lks. dist., mkd., W C ¼ S 13 B T.

A pinon, 8 ins. dia., bears S. 40° E., 21 lks. dist., mkd., W C ¼ S 24 B T.

63.09	West, triangulation point at base of high gray ledges, 430 ft. below mesa, bears NW. and SE. Desc. gradually
63.50	Enter Wahweap wash, 20 ft. below triangulation point, bears S. 20° E. and N. 20° W. Desc. into wash.
67.90	Wahweap creek, 10 ft. below edge of wash, stream of muddy water, 6 lks. wide, 6 ins. deep, after a small flood, course S. 20° E.
71.70	Leave Wahweap wash, 10 ft. above creek, bears with creek. Asc. gradually.
80.17	The cor. of secs. 13, 14, 23 and 24, 30 ft. above Wahweap creek.
	Land, high broken mesa and rough steep slopes draining SE.
	Soil, shallow, rocky, sandy loam, on sandstone bedrock.
	Timber, cedar and pinon.

Subdivision of T. 41 S., R. 1 E.

Chains	
	Undergrowth, sagebrush, shadscale, service-berry, yellow-top, mountain rush and bunch grass. Fair grazing.
	N. 0° 01' W., on true line, bet. secs. 13 and 14. Over broken mountainous land, Desc. abruptly through shadscale and sagebrush undergrowth.
2.70	Box gulch, 50 ft. below sec. cor., course SE. Asc. abruptly over broken sandstone ledges.
3.60	Spur, 30 ft. above gulch, projects SE. Desc. gradually over broken NE. slope.
16.10	Foot of descent, 30 ft. below spur, bears NW. and SE. Thence across Wahweap canyon bottom, gravel formation.
21.10	Wahweap creek, 30 ft. below spur, stream of muddy water, 6 lks. wide, 6 ins. deep, after a flood, course SE.
31.10	Leave canyon, bears NW. and SE. Thence asc. broken brown sandstone ledges.
40.00	On broken SW. slope, 60 ft. above creek. Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in a mound of stone, 4 ft. base, for the $\frac{1}{4}$ cor. of secs. 13 and 14, with brass cap mkd.,
	$\frac{1}{4}$ | S 14 | S 13 | 1917
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Thence, asc. abruptly over sandstone ledges over which it is impossible to chain, therefore, set a flag on line, N. 0° 01' W., at top of ledges and a point S. 0° 01' E. 4.66 chs. dist. from $\frac{1}{4}$ cor. and from the latter point, measure base line, S. 89° 59' W., 10.00 chs. dist. from which point the flag at top of ledges bears, N. 29° 51' E. The distance is then,
	10.00 x tan. 60° 08' or 1.74140 = 17.41 chs.
52.75	N. triangulation point and rim of high mesa, 460 ft. above creek, bears NW. and SE. Enter cedar and pinon timber

N29°51'E 589.59 10.00

Chains	
	and service-berry, mountain rush, yellow-top and bunch grass undergrowth, bear with mesa. Thence over broken top of mesa.
80.00	On broken mesa top, level with rim of 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. 11, 12, 13 and 14, with brass cap mkd.,

T 41 S R 1 E

S 11	S 12
S 14	S 13

1917

from which

A cedar, 10 ins. dia., bears N. 46½° E., 133 lks. dist., mkd., T 41 S R 1 E S 12 B T.

A cedar, 12 ins. dia., bears S. 65° E., 121 lks. dist., mkd., T 41 S R 1 E S 13 B T.

A pinon, 10 ins. dia., bears S. 65° W., 270 lks. dist., mkd., T 41 S R 1 E S 14 B T.

A cedar, 4 ins. dia., bears N. 75° W., 120 lks. dist. mkd., T 41 S., R 1 E. S 11 B T.

Land, Rough broken breaks of mesa and high mesa, draining E. and SW. to Wahweap creek.

Soil, shallow, rocky, sandy loam, on sandstone bedrock, gravel along creek.

Timber, cedar and pinon on mesa.

Undergrowth, shadscale, sagebrush, mountain rush, yellow-top, service-berry and bunch grass. Fair grazing.

N. 89° 48' E., on random line, bet. secs. 12 and 13.

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

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

Thence,

S. 89° 50' W., on true line, bet. secs. 12 and 13.

Over broken mesa land, desc. gradually over broken white

Chains	
	and brown sandstone ledges through cedar and pinon timber and service-berry, shadscale, sagebrush, mountain rush, yellow-top and bunch grass undergrowth.
2.10	Wash, 40 ft. below sec. cor., 25 lks. wide, 2 ft. deep, drains S. 20° W. Asc. over steep E. slope of spur.
9.60	White sandstone spur, 110 ft. above wash, projects S. Desc. gradually over W. slope of spur.
40.00½	On broken W. slope, 20 ft. below spur, 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. 12 and 13, with brass cap mkd., $\frac{\frac{1}{4}}{\frac{S\ 12}{S\ 13}}$ 1917. from which, A cedar, 8 ins. dia., bears N. 21° E., 128 lks. dist., mkd. ¼ S 12 B T. A cedar, 6 ins. dia., bears S. 53° W., 247 lks. dist., mkd., ¼ S 13 B T.
	Thence, over rolling mesa.
80.01	The cor. of secs. 11, 12, 13 and 14, level with ¼ cor. Land, broken and rolling mesa, draining west. Soil, light, dry, sandy loam, on sandstone bedrock. Timber, cedar and pinon. Undergrowth, shadscale, mountain rush, service-berry, sagebrush, yellow-top and bunch grass. Fair grazing.
	N. 0° 01' W., on true line, bet. secs. 11 and 12. Over broken mesa land, desc. gradually through cedar and pinon timber and sagebrush, shadscale, yellow-top, service-berry, mountainrush and bunch grass undergrowth.
20.00	Head of box gulch, 50 ft. below sec. cor., course W. Asc. gradually.
32.00	Ridge, 50 ft. above gulch, bears NW. and SE. Desc. over broken sandstone ledges to head of canyon.

Chains	
40.00	On gradual NW. slope of ridge, 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. 11 and 12, with brass cap mkd., ¼ S 11 | S 12 1917 from which A cedar, 8 ins. dia., bears S. 32° E., 363 lks. dist, mkd., ¼ S 12 B T. A cedar, 6 ins. dia., bears S. 53° W.; 336 lks. dist., mkd., ¼ S 11 B T.
47.30	Box canyon, boxes up 5.00 chs. E., 80 ft. below ¼ cor. course SW. Asc. abruptly over sandstone ledges.
50.00	Sandstone ridge, 50 ft. above canyon, bears NE. and SW. Desc. gradually.
53.70	Head of box canyon, 30 ft. below ridge, course SW.
75.80	Desc. over sandstone ledges, bear NE and SW.
77.50	Asc. over ledges.
80.00	On broken NW. slope, 50 ft. above box 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, 3 ft. ba for the cor. of secs. 1, 2, 11 and 12, with brass cap mkd., T 41 S R 1 E S 2 | S 1 S 11 | S 12 1917 from which A cedar, 8 ins. dia., bears N. 71° E., 72 lks. dist., mkd., T 41 S R 1 E S 1 B T. A pinon, 10 ins. dia., bears S. 32° E.,57 lks. dist., mkd., T 41 S R 1 E S 12 B T. A pinon, 6 ins. dia., bears S. 14° W., 51 lks., dist., mkd., T 41 S R 1 E S 11 B T.

Chains	
	A cedar, 12 ins. dia., bears N. 37° W., 180 lks. dist., mkd., T 41 S R 1 E S 2 B T.
	Land, rough broken mesa, draining W. to Wahweap creek.
	Soil, shallow, rocky, sandy loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered--shadscale, mountain rush, sagebrush, yellow-top, service-berry and bunch grass, Fair grazing.
	———
	N. 89° 50' E., on random line, bet. secs. 1 and 12.
40.00	Set temp. point for ¼ sec. cor.
79.78	Intersect the cor. of secs. 1, 6, 7, and 12, heretofore described, on E. bdy. of Tp.
	Thence,
	S. 89° 50' W., on true line, bet. secs. 1 and 12.
	Over broken mountainous land, desc. over huge sandstone boulders through scattered cedar and pinon timber and scattered sagebrush, service-berry, shadscale, mountain rush, yellow-top and bunch grass undergrowth.
35.50	Wash, 280 ft. below sec. cor., 35 lks. wide, 5 ft. deep, drains SW. Thence desc. gradually over broken foothills.
39.89	10 ft. below wash, on broken foothills.
	Set a gray sandstone, 24 x 12 x 10 ins. 18 ins. in the ground, for the ¼ cor. of secs. 1 and 12, mkd. ¼ on N. face. No iron posts were available.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of the cor., there being no suitable bearing trees available.
54.00	Wash, 20 ft. below ¼ cor., 10 lks. wide, 2 ft. deep, drains SW. Asc. gradual SE. slope of spur.
62.50	Spur, 30 ft. above wash, projects S. 20° W. Desc.
64.10	Head of box canyon, 20 ft. below spur, course SW.
75.80	Ridge, 10 ft. above canyon, bears SW. and NE.
79.78	The cor. of secs. 1, 2, 11 and 12, 20 ft. below ridge.
	Land, roughm broken mountain foothills, draining SW.
	Soil, rocky, shallow clay and sandy loam, on sandstone

Subdivision of T. 41 S., R. 1 E.

Chains	
	bedrock,
	Timber, scattered cedar and pinon.
	Undergrowth, scattered, shadscale, mountain rush, sage-brush, service-berry, yellow-top and bunch grass.
	Poor grazing.
	N. 0° 01' W., on true line, bet. secs. 1 and 2.
	Over, rough broken foothills of high gray bluffs, Asc. gradually over SW. slope through shadscale, mountain rush, rabbit brush and bunch grass undergrowth.
9.60	Wash, 10 ft. above sec. cor., 30 lks. wide, 3 ft. deep, drains SW. Asc. gradually. Enter cedar and pinon tim
15.90	Wash, 40 ft. above wash, 20 lks. wide, 2 ft. deep, drain SW. Continue gradual ascent.
40.00	30 ft. above wash, on rolling table land,
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the $\frac{1}{4}$ cor. of secs. 1 and 2, with brass cap mkd.,
	$\frac{1}{4}$ S 2 | S 1 1917
	from which
	A cedar, 14 ins. dia., bears N. 44½° E., 41 lks. dist., mkd., $\frac{1}{4}$ S 1 B T.
	A cedar, 8 ins. dia., bears N ½° W., 97 lks. dist., mkd., $\frac{1}{4}$ S 2 B T.
45.70	Box canyon, 20 ft. below $\frac{1}{4}$ cor., course SW. Box is about 150 lks. NE. of line.
61.59	Set flag for triangulation.
70.80	Leave cedar and pinon timber, bears NW and SE.
70.90	S. side of box canyon, level with $\frac{1}{4}$ cor., bears SW. and NE. Desc. into canyon.
71.20	Wash in box canyon, 40 ft. below rim, 10 lks. wide, 2 ft. deep, course SW. Asc. abruptly.
73.00	N. edge of box canyon, 40 ft. above wash, bears NE. and

Chains	
	SW. Asc. gradually.
77.80	Sharp spur, 20 ft. above rim of canyon, projects SW.
	Desc. gradually from spur.
85.80	Intersect the Eighth St. Par. S. 41 lks. E. of the S.C. of secs. 35 and 36, 30 ft. below spur.
	At intersection,
	Set an iron post, 3 ft. long, 2 ins. dia., on bedrock, 24 ins. in a mound of stone, 4 ft. base, for the C.C. of secs. 1 and 2, with brass cap mkd.,

T 40 S R 1 E
S 36
S 2 | S 1
T 41 S R 1 E
C C
1917

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

Land, rough and rolling foothills general drainage to SW.

Soil, sandy, clay loam, on clay subsoil.

Timber, cedar and pinon.

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

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, broken mountainous land, asc. abruptly over SW. slope of high mesa through scattered shadscale, mountain rush, rabbit brush and bunch grass undergrowth. The line passes over ledges N. from the sec. cor. impracticable to chain therefore triangulate to top of ledges as follows, from the sec. cor. measure a base line S. 89° 59' W., 15.91 chs. dist., and set flag, then set a point N. 0° 01' W. at top of ledges, from which point the flag at W. end of base line bears S. 24° 43' W. The distance is then,

Chains	
	15.91 x coton. 24° 44' or 2.17083 = 34.54 chs.
34.54	North triangulation point and rim of mesa, 640 ft above sec. cor., bears N. 20° W. and S. 20° E. Enter dense cedar and pinon timber and sagebrush undergrowth, bear with mesa, thence over broken top of mesa.
40.00	10 ft. below rim of mesa, on mesa, 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. 34 and 35, with brass cap mkd.,

¼

S 34 | S 35

1917

from which

A pinon, 14 ins. dia., bears S. 79° W., 183 lks. dist., mkd., ¼ S 34 B T.

A pinon, 8 ins. dia., bears N. 68° E., 114 lks. dist., mkd., ¼ S 35 B T.

Thence over nearly level mesa.

80.00 On 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 41 S R 1 E

S 27 | S 26

S 34 | S 35

1917

from which

A pinon, 12 ins. dia., bears N. 79½° E., 5.42 chs., dist., mkd., T 41 S R 1 E S 26 B T.

A cedar, 14 ins. dia., bears S. 79½° W., 1.10 chs. dist., mkd., T 41 S R 1 E S 34 B T.

A cedar, 18 ins. dia., bears S. 58¼° E., 3.70 chs. dist., mkd., T 41 S R 1 E S 35 B T.

A cedar, 15 ins. dia., bears N. 40½° W., 1.23 chs. dist., mkd., T 41 S R 1 E S 27 B T.

Land, S. portion, rugged breaks of mesa, N. portion

Chains	
	broken mesa top, general drainage SW.
	Soil, shallow, rocky, sandy loam, on sandstone bedrock.
	Timber, dense cedar and pinon on mesa.
	Undergrowth, scattered shadscale, mountain rush, rabbit-brush, sagebrush and bunch grass. Good grazing on mesa.
	East, on random line, bet. secs. 26 and 35.
40.00	Set. temp. point for ¼ sec. cor.
80.10	Intersect N. and S. line, 22 lks. S. of the cor. of secs. 25, 26, 35 and 36.
	Thence,
	S. 89° 51' W., on true line, bet. secs. 26 and 35.
	Over broken mesa land through dense cedar and pinon timber and scattered shadscale, rabbit brush, mountain rush and bunch grass undergrowth.
9.10	Gray sandstone ridge, 50 ft. above sec. cor., bears N. and S. Desc. over sandstone ledges.
15.30	Ledgy wash, 10 lks. wide, 4 ft. deep, 50 ft. below ridge, drains NE. Asc. over low sandstone ledges.
40.05	On broken mesa, 30 ft. above wash,
	Set an iron post, 1 ins. in dia., 3 ft. long, 4 ins in the ground to bed rock, 22 ins, in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 26 and 35, with brass cap mkd.,
	¼ S 26 / S 35 / 1917
	from which,
	A pinon, 8 ins. dia., bears S. 3° W., 83 lks. dist., mkd., ¼ S 35 B T.
	A pinon, 6 ins. dia., bears N. 21° W., 72 lks. dist., mkd., ¼ S 26 B T.
47.00	Wash, 20 lks. wide, 3 ft. deep, 10 ft. below ¼ cor., drains NE. from NW.
66.70	Same wash, course from SW. to NE. thence SE.
80.10	The cor. of secs. 26, 27, 34 and 35. 20 ft. above wash.

Chains	
	Land, broken mesa top. General drainage, NE.
	Soil, shallow, rocky, sandy loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered shadscale, rabbitbrush, mountain rush and bunch grass. Fair grazing.

	N. 0° 01' W., on true line, bet. secs. 26 and 27.
	Over broken mesa land, desc. gradually through dense cedar and pinon timber and scattered mountain rush, shadscale and bunch grass undergrowth.
40.00	On gentle NE. slope, 40 ft. below sec. cor.,
	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground for the ¼ cor. of secs. 26 and 27, with brass cap mkd.,
	S 27 | S 26 1317
	from which
	A pinon, 10 ins. dia., bears S. 63½° E., 26 lks. dist., mkd., ¼ S 26 B T.
	A cedar, 14 ins. dia., bears N. 13½° W., 27 lks. dist., mkd., ¼ S 27 B T.
	Desc. gradually from ¼ cor.
76.00	Wash, 35 lks. wide, 15 ft. deep, 40 ft. below ¼ cor., drains N. 30° E. Asc. abruptly over broken sandstone ledges.
80.00	On S. slope of sandstone spur, 50 ft. above wash.
	Set an iron post, 3 ft. long, 2 ins. dia., on 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 41 S R 1 E S 22 | S 23 --- S 27 | S 26 1317
	from which
	A cedar, 6 ins. dia., bears N. 39½° E., 32 lks.

Chains	
	dist., mkd., T 41 S R 1 E S 23 B T.
	A pinon, 7 ins. dia., bears S. 1½° E., 69 lks. dist., mkd., T 41 S R 1 E S 26 B T.
	A cedar, 8 ins. dia., bears S. 48½° W., 70 lks. dist., mkd., T 41 S R 1 E S 27 B T.
	A pinon, 10 ins. dia., bears N. 33½° W., 81 lks. dist., mkd., T 41 S R 1 E S 22 B T.
	Land, broken mesa draining to East.
	Soil, shallow, light, rocky sandy loam, on sandstone bedrock.
	Timber, cedar and pinon.
	Undergrowth, scattered mountain rush, shadscale and bunch grass. Fair grazing.

	N. 89° 51' E., on random line, bet. secs. 23 and 26.
40.00	Set point for temp. ¼ sec. cor.
80.14	Intersect N. and S. line 2 lks. S. of the cor. of secs. 23, 24, 25 and 26.
	Thence,
	S. 89° 50' W., on true line, bet. secs. 23 and 26.
	Over rough mountainous land, asc. abruptly over sandstone ledges through scattered cedar and pinon timber and scattered mountain rush, greasewood, rabbit-brush, sagebrush and bunch grass undergrowth.
10.00	Top of sandstone ledges, 450 ft. above cor., bear NE. and SW. Desc. gradually over broken N. slope.
30.30	Wash, in bottom of ledgy gulch, 110 ft. below ledges, drains N., 20 lks. wide, 3 ft. deep. Timber becomes dense.
40.07	On broken N. slope of mesa, 30 ft. above wash,
	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. 23 and 26, with brass cap mkd.,

S 23
¼
S 26
1917

Chains

from which

A cedar, 8 ins. dia., bears S. 45½° E., 55 lks. dist., mkd., ¼ S 26 B T.

A pinon, 10 ins. dia., bears N. 3° E., 65 lks., dist., mkd., ¼ S 23 B T.

40.20 Leave timber, bears NE. and SW.

58.70 Enter dense cedar and pinon timber, bears NE. and SW.

60.60 Top of sandstone ridge, overlooking plain, 30 ft. above ¼ cor., bears N. 30° E., and S. 30° W. Desc.

72.20 Desc. abruptly over sandstone ledges into wash, 60 ft. below ridge, bears NE. and SW.

78.10 Rocky wash, 40 ft. below ledges, 20 lks. wide, 4 ft. deep, drains NE. Asc. abruptly over ledges.

79.00 Top of ledges along wash, 40 ft. above wash, bear NE. and SW.

80.14 The cor. of secs. 22, 23, 26 and 27, 60 ft. above wash.

Land, rough, broken mountainous, general drainage to N. and NE.

Soil, sandy, clay, shale and loam, on sandstone bedrock.

Timber, Dense cedar and pinon.

Undergrowth, scattered, mountain rush, greasewood, rabbit-brush, sagebrush and bunch grass. Fair grazing.

N. 0° 01' W., on true line, bet. secs. 22 and 23.

Over very rough, rocky mountainous land, through cedar and pinon timber and rabbit-brush, sagebrush and bunch grass undergrowth.

8.30 Rocky wash, 40 ft. below sec. cor., 30 lks. wide, 4 ft. deep, drains NE. Asc. over sandstone.

10.50 Wash, level with wash, 30 lks. wide, 3 ft. deep, course east.

Thence over broken rocky land.

40.00 70 ft. below wash,

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.

Chains	
	of secs. 22 and 23, with brass cap mkd.,
	$\frac{1}{4}$ S 22 | S 23 1917
	from which
	A cedar, 8 ins. dia., bears N. 12° E., 109 lks. dist., mkd., $\frac{1}{4}$ S 23 B T.
	A pinon, 6 ins. dia., bears N. 15½° W., 172 lks. dist., mkd., $\frac{1}{4}$ S 22 B T.
	Desc. over broken sandstone.
72.60	S. edge of box ravine, 60 ft. below $\frac{1}{4}$ cor., bears N. 70° E. and S. 70° W. Thence desc. abruptly over sandstone ledges.
75.30	Bottom of solid rock ravine, 60 ft. below edge of box, course N. 70° E. 15 lks. N. 70° E. of line, canyon bottom has vertical drop of 100 ft. over sandstone ledge. Asc. abruptly over ledges.
80.00	On rock point, between canyons, 60 ft. above bottom, Set an irom post, 3 ft. long, 2 ins. dia., on bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 14, 15, 22 and 23, with brass cap mkd.,
	T 41 S R 1 E S 15 | S 14 S 22 | S 23 1917
	from which
	A cedar, 16 ins. dia., bears N. 45° E., 117 lks. dist., mkd., T 41 S R 1 E S 14 B T.
	A cedar, 8 ins. dia., bears S. 30° E., 98 lks. dist., mkd., T 41 S R 1 E S 23 B T.
	A cedar, 12 ins. dia., bears S. 40° W., 138 lks. dist., mkd., T 41 S R 1 E S 22 B T.
	A pinon, 10 ins. dia., bears N. 20° W., 44 lks. dist., mkd., T 41 S R 1 E S 15 B T.
	Land, rough, rocky, mountainous, draining to E. and NE. Soil, shallow, light, dry, sandy loam, on sandstone bedrock.

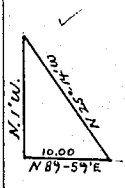
Chains	
	Timber, dense cedar and pinon.
	Undergrowth, scattered, sagebrush, rabbit-brush and bunch grass. Fair grazing.

	N. 89° 50' E., on random line, bet. secs. 14 and 23.
40.00	Set temp. point for the ¼ cor. of secs. 14 and 23.
80.08	Intersect the N. and S. line, 12 lks. N. of the cor. of secs. 13, 14, 23 and 24.
	Thence,
	S. 89° 55' W., on true line, bet. secs. 14 and 23.
	Over rough mountainous land, Desc. abruptly over sandstone ledges through scattered undergrowth of white sagebrush, greasewood, mountain rush and bunch grass.
3.60	Rocky wash, 90 ft. below sec. cor., 20 lks. wide, 2 ft. deep, in bottom of ledgy ravine draining NE. to Wahweap creek. Asc. abruptly over sandstone ledges on rough E. slope of mountain.
21.80	Top of sandstone ledges, 500 ft. above wash, bear N. and S. Thence asc. gradually over broken, rocky land.
40.04	On broken NE. slope, 70 ft. above ledges.
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock and 20 ins. in a mound of stone, 3½ ft. base, for the ¼ cor. of secs. 14 and 23, with brass cap mkd.,
	¼ S 14 / S 23 / 1917
	from which
	A cedar, 24 ins. dia., bears N. 69½° E., 170 lks. dist., mkd., ¼ S 14 B T.
	A cedar, 14 ins. dia., bears S. 65½° W., 80 lks. dist., mkd., ¼ S 23 B T.
	Desc. gradually over gentle, broken NW. slope.
64.20	Enter dense cedar and pinon timber, bears N. and S. Enter rabbit-brush undergrowth bears with timber.

Subdivision of T. 41 S., R. 1 E.

Chains	
69.10	Small ridge, 70 ft. above timber, bears NW. and S. Desc. gradually.
77.70	Rocky wash in ledgy ravine, 20 lks. wide, 3 ft. deep, 110 ft. below ridge, course N. Asc. over ledges.
79.80	West rim of ledgy ravine, 90 ft. above wash, bears N. and S.
80.08	The cor. of secs. 14, 15, 22 and 23, level with rim of ledgy ravine.
	Land, rough, rocky mountainous land, cut by ledgy ravines draining N. and NE.
	Soil, shallow, sandy, rocky loam, on sandstone bedrock.
	Timber, dense cedar and pinon on west portion of mile.
	Undergrowth, scattered white sagebrush, greasewood, rabbit-brush and bunch grass. Fair grazing on west portion of mile.

	N. 0° 01' W., on true line, bet. secs. 14 and 15.
	Over rocky, broken mesa, Desc. abruptly over sandstone ledges through dense cedar and pinon timber and scattered mountain rush, greasewood, sagebrush and bunch grass undergrowth.
4.30	Bottom of ledgy box canyon, 120 ft. below sec. cor., course NW. Asc. abruptly over sandstone ledges.
6.30	Top of ledges and N. rim of canyon, 60 ft. above canyon, bears NW. and SE. 25 lks. W. of line ledges drop abruptly, 100, ft. into canyon.
17.97	Top of ledges, 70 ft. above canyon, bear E. and W. Desc. abruptly over sandstone ledges over which it is impracticable to chain therefore triangulate as follows, Set a point N. 0° 01' W. on line, and then from the 17.97 chs. point measure a base line, N. 89° 59' E., 10.00 chs. dist., from which point the point N. 0° 01' W. on line, bears N. 25° 14' W. The distance is then,
	10.00 x tan. 64° 47' or 2.12350 = 21.23 chs.



Chains	
27.30	Approximate position of creek (dry) in bottom of canyon, 320 ft. below top of ledges, course E.
32.20	N. triangulation point and top of ledges, 330 ft. above creek, bear with creek. Thence over rolling, broken bench land.
40.00	On north side of box canyon, 330 ft. above creek. 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 15, with brass cap mkd.,

¼
S 15 | S 14
1917

from which

A cedar, 12 ins. dia., bears S. 70° W., 35 lks. dist., mkd., ¼ S 15 B T.

A cedar, 8 ins. dia., bears N. 89° E., 60 lks. dist., mkd., ¼ S 14 B T.

Continue over rolling, broken bench land, cedar and pinon timber very dense.

68.80	Brink of canyon and top of ledges, 20 ft. below ¼ cor., bears E. and W. Desc. abruptly over high sandstone ledges.
75.80	Dry creek in bottom of box canyon, 350 ft. below brink, course east.
80.00	On S. slope, 70 ft. above creek, Set an iron post, 3 ft. long, 2 ins. dia., on bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 10, 11, 14 and 15, with brass cap mkd.,

T 41 S R 1 E
S 10 | S 11
S 15 | S 14.
1917

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

From this cor. a spring of good drinking water, bears S. 70° W., about 20.00 chs. dist. The water drips

Subdivision of T. 41 S., R. 1 E.

Chains	
	from the ledges in bottom of canyon into a small pond, about 15 lks. wide.
	Land, rocky, broken bench, cut by deep box canyons draining E.
	Soil, shallow, rocky, sandy loam on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, greasewood, sagebrush and bunch grass. Fair grazing.
	N. 89° 55' E., on random line, bet. secs. 11 and 14.
39.85	At top of ledges over which it is impracticable to chain, set flag, then set flag on line N. 89° 55' E. at top of ledges and from the latter point measure a base line, S. 14° 37' E. 12.11 chs. dist., impossible to get longer base onaccount of ledges. From the S. end of base the flag at W. rim of canyon bears N. 69° 46' W. The distance is then, the antilog. of log.12.11 + log.sin.55° 09' + colog.sin. 20° 12' = 1.083144 + 9.914158 + 0.459410 = 1.456712 = 28.62 chs.
68.47	E. triangulation point.
80.06	Intersect the N. and S. line 7 lks. N. of the cor. of secs. 11, 12, 13 and 14.
	Thence,
	S. 89° 58' W., on true line, bet. secs. 11 and 14.
	Over high mesa through cedar and pinon timber and scattered sagebrush, shadscale, service-berry, mountain rush, yellow-top and bunch grass undergrowth.
11.59	East triangulation point and rim of mesa, 20 ft. above sec. cor. bears N. and S. 10° E. Desc. abruptly over impassable sandstone ledges above Wahweap creek.
27.00	Approximate position of Wahweap creek, 500 ft. below mesa, stream of clear water, 8 lks. wide, 6 ins. deep, course S. 20° E. Asc. abruptly over impassable sandstone ledges.
40.03	On west rim of Wahweap creek, 520 ft. above creek,

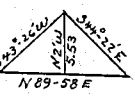
N 89-55 E
N 69-46 W

Subdivision of T. 41 S., R. 1 E.

Chains	
	Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in a mound of stone, base 4 ft., for the ¼ cor. of secs. 11 and 14, with brass cap mkd., ¼ S 11 / S 14 1917, from which
	A cedar, 10 ins. dia., bears N. 33½° W., 20 lks. dist., mkd., ¼ S 11 B T.
	A pinon, 14 ins. dia., bears S. 1° W., 135 lks. dist., mkd., ¼ S 14 B T.
	Thence rolling bench land.
40.21	West triangulation point.
80.06	The cor. of secs. 10, 11, 14 and 15, level with ¼ cor. Land, rolling mesa and very rugged, ledgy slopes into Wahweap creek, draining SE.
	Soil, light, dry, sandy, rocky loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, service-berry, shadscale, sagebrush, yellow-top and bunch grass.
	Fair grazing on mesa.

	N. 0° 01' W., on true line, bet. secs. 10 and 11. Over rough mountainous land, asc. abruptly over sandstone ledges through dense cedar and pinon timber and scattered greasewood, mountain rush, rabbit-brush sagebrush and bunch grass undergrowth.
17.40	Top of ledges, 180 ft. above cor., bear E. and W. Thence over gently rolling bench land.
12.40	Leave cedar and pinon timber, bear E. and W. Grass becomes thicker.
24.40	Enter cedar and pinon timber, bears E. and W. Bench becomes rough and broken.
40.00	On broken bench, 40 ft. below top of ledges.

Chains	
	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. 10 and 11, with brass cap mkd.,
	¼ S 10 | S 11 1917
	from which
	A pinon, 8 ins. dia., bears N. 10° E., 12 lks. dist., mkd., ¼ S 11 B T.
	A cedar, 12 ins. dia., bears, N. 54½° W., 100 lks. dist., mkd., ¼ S 10 B T.
45.00	Wash, 10 lks., wide, 2 ft. deep, 10 ft. below ¼ cor., drains E. Thence over broken bench land.
49.50	Main trail to Wahweap canyon, bears E. and W.
80.00	On broken bench land, 20 ft. above wash.
	Set an iron post, 3 ft. long, 2 ins. dia., On bedrock, 24 ins. in a mound of stone, 4 ft. base, for the cor. of secs. 2, 3, 10 and 11, with brass cap mkd.,
	T 41 S R 1 E S 3 | S 2 S 10 | S 11 1917
	from which
	A pinon, 10 ins. dia., bears N. 53½° E., 45 lks. dist., mkd., T 41 S R 1 E S 2 B T.
	A cedar, 10 ins. dia., bears S. 62½° E., 33 lks. dist., mkd., T 41 S R 1 E S 11 B T.
	A pinon, 5 ins. dia., bears N. 6½° W., 120 lks. dist., mkd., T 41 S R 1 E S 3 B T.
	A cedar, 20 ins. dia., bears S. 55½° W., 105 lks. dist., mkd., T 41 S R 1 E S 10 B T.
	Land, rolling and broken bench draining E.
	Soil, rocky, shallow, sandy loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered greasewood, mountain rush, rabbit-brush, sagebrush and bunch grass. Fair grazing.



Chains	
	N. 89° 58' E., on random line, bet. secs. 2 and 11.
40.00	Set temp. point for ¼ sec. cor.
40.88	Top of ledges over which it is impracticable to chain, therefore triangulate as follows; set a point on line N. 89° 58'E. at bottom of canyon and another on the same line at top of ledges on E. side of canyon, then from the point in bottom of canyon measure a base line N. 0° 02' W, 5.53 chs. dist., from which point the flag on line west bears S. 43° 26' W., and the flag on line east bears S. 44° 22' E:, the distances are then, from flag west to bottom of canyon, 5.53 x tan. 43° 28' or .94786 = 5.24 chs. and from point in bottom of canyon to point east, 5.53 x tan. 44° 20' or .97700 = 5.40 chs.
51.52	East triangulation point.
80.03	Intersect the N. and S. line, 5 lks. S. of the cor. of secs. 1, 2, 11 and 12.
	Thence,
	S. 89° 56' W., on true line, bet. secs. 2 and 11.
	Over rough, broken bench land, asc. gradually through scattered cedar and pinon timber and scattered sage-brush, service-berry, mountain rush, yellow-top and bunch grass undergrowth.
1.00	Desc. gradually.
2.60	Wash, 20 lks. wide, 3 ft. deep, 15 ft. below sec. cor., drains SW. Asc. over gradual E. slope of spur.
7.30	Spur, 70 ft. above wash, projects S. Desc.
28.51	East triangulation point and rim of high bench, 10 ft. below spur, bears NW. and SE. Desc. abruptly over impassable sandstone ledges.
33.91	Triangulation point in bottom of canyon.
35.00	Wahweap creek, 150 ft. below bench, stream good, clear water, 6 lks. wide, 6 ins. deep, course SE. Asc. abruptly over sandstone ledges over which it is impracticable to chain.

Chains	
39.15	West triangulation point and rim of bench, 150 ft. above creek, bears NW. and SE. Thence over broken bench land.
40.01½	On broken bench, near rim of ledges. 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. 2 and 11, with brass cap mkd., ¼ S 2 / S 11 1917 from which A cedar, 8 ins. dia., bears N. 48½° W., 88 lks. dist., mkd., ¼ S 2 B T. A cedar, 6 ins. dia., bears S. 45° E., 124 lks., dist., mkd., ¼ S 11 B T. Thence over broken bench land.
57.20	N. 20° W., 5.75 chs. dist, thence N. 5.00 chs. dist., to small spring of good drinking water in canyon draining to NE. Cottonwood trees around spring.
66.80	Wash, 20 lks. wide, 3 ft. deep, 20 ft. above ¼ cor., drains NE. Asc. gradual NE. slope.
80.03	The cor. of secs. 2, 3, 10 and 11, 50 ft. above wash. Land, broken mesa and rocky, rugged slopes from mesa, draining NE. and SW. into Wahweap creek. Soil, rocky, sandy, shallow loam on sandstone bedrock. Timber, scattered cedar and pinon. Undergrowth, scattered sagebrush, service-berry, mountain rush, yellow-top and bunch grass. Fair grazing on bench.
	N. 0° 01' W., on true line, bet. secs. 2 and 3. Over rough broken bench land, Desc. gradually through dense cedar and pinon timber and scattered rabbit-brush, mountain rush, russian thistle and bunch grass undergrowth.
4.80	Wash, 20 lks. wide, 2 ft. deep, 40 ft. below sec. cor., drains east. Thence asc. gradually.

Chains	
9.70	Desc. gradually.
14.60	S. rim of box canyon, 30 ft. below wash, bears S. 70° W. and N. 70° E. Thence desc. abruptly over sandstone ledges.
19.20	Bottom of canyon, 240 ft. below rim, course E. 8.00 chs. thence SE. Cottonwood timber and willow brush along bottom of canyon. Asc. abruptly over sandstone ledges.
21.60	N. rim of box canyon, 160 ft. above bottom of canyon, bears S. 70° W. and N. 70° E. Thence over broken bench land.
40.00	On broken bench, level with rim of canyon. 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. 2 and 3, with brass cap mkd., $\frac{1}{4}$ S 3 | S 2 1917 from which A cedar, 14 ins. dia., bears N. 15½° E., 81 lks. dist., mkd., ¼ S 2 B T. A cedar, 18 ins. dia., bears N. 25½° W., 120 lks. dist., mkd., ¼ S 3 B T.
55.40	Leave timber, bears E. and W.
59.80	Enter scattered cedar and pinon timber bears E. and W.
62.80	Leave scattered timber, bears E. and W. Thence over broken, open bench land.
80.55	Top of first series of ledges on south slope of high mesa, 120 ft. above ¼ cor. Thence over narrow bench bearing E. and W.
85.60	Intersect the Eighth St.Par.S.38 lks. E. of the S. C. of secs. 34 and 35, At intersection, on narrow bench bearing E. and W., 120 ft. above lower bench, Set in iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the C.C. of secs. 2 and 3, with brass

Chains	
	cap mkd., T 40 S R 1 E S 35 S 3 | S 2 T 41 S R 1 E C C 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of the cor.
	Land, broken bench, cut by deep box canyon draining E.
	Soil, rocky, shallow sandy loam, on sandstone bedrock.
	Timber, dense and scattered cedar and pinon.
	Undergrowth, rabbit-brush, mountain rush, russian thistle, and bunch grass. Poor grazing.
	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 rough mountainous land, asc. gradually through shadscale, mountain rush, greasewood, rabbit-brush and grass undergrowth.
5.00	Asc. abruptly over sandstone ledges, bear E. and W.
30.70	Sandstone spur, 500 ft. above sec. cor., projects about 10.00 chs. dist., west. Desc. abruptly over sandstone ledges.
40.00	On west slope of high mesa, 150 ft. below spur, 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. 33 and 34, with brass cap mkd., ¼ S 33 | S 34 1917 Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Desc. abruptly from ¼ cor. over broken west slope.

Chains	
64.10	Top of ledge, 50 ft. high, projects NW. 20 lks. Desc. abruptly over sandstone ledges.
66.20	Ravine, 170 ft. below ¼ cor., course west. Scattered cedar and pinon timber along ravine. Asc. abruptly over ledgy S. slope of ravine.
80.00	On broken SW. slope, 250 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.27, 28, 33 and 34, with brass cap mkd.,

T 41 S R 1 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, rough, broken mountainous, draining W. and SW.

Soil, light, dry, shallow sandy loam, on sandstone bedrock.

Timber, none, except along ravine where there is scattered cedar and pinon.

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

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

It is impracticable to chain E. on line from sec. cor., therefore to determine the distance over the impassable sandstone ledges, triangulate as follows. Set a point on line E. at top of ledges and from this point observe that the ¼ cor. of secs. 33 and 34 bears S. 22° 48' W. The distance to point is then,

40.00 x cotan. 67° 12' or .42036 = 16.81 + 0.02 due to course of base = 16.83 chs.

16.83	East. triangulation point.
40.00	Set temp. point for ¼ cor.
80.05	Intersect N. and S. line, 26 lks. N. of the cor. of

Subdivision of T. 41 S., R. 1 E.

Chains	
	secs. 26, 27, 34 and 35,
	Thence,
	N. 89° 42' W., on true line, bet. secs. 27 and 34.
	Over broken bench or mesa land through dense cedar and pinon timber and shadscale, sagebrush, mountain rush and scattered grass undergrowth.
40.02½	On nearly level mesa, level with sec. cor.
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bedrock and 20 ins. in a 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
	from which
	A cedar, 10 ins. dia., bears N. 43¾° W., 142 lks. dist., mkd., ¼ S 27 B T.
	A cedar, 14 ins. dia., bears S. 48½° W., 140 lks. dist., mkd., ¼ S 34 B T.
48.80	Enter more rocky, broken land, bears N. and S.
63.22	Rim of mesa and top of ledges, 10 ft. below ¼ cor., bears NW. and SE. East triangulation point. Desc. abruptly over sandstone ledges.
80.05	The cor. of secs. 27, 28, 33 and 34, 320 ft. below mesa.
	Land, West portion, rough, rugged SW. slope of high mesa, E. portion, high rolling and broken mesa, drainage, to SW.
	Soil, rocky, shallow, sandy loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered sagebrush, shadscale, mountain rush and bunch grass. Fair grazing on mesa.
	N. 0° 02' W., on true line, bet. secs. 27 and 28.
	Over rough mountainous land, asc. abruptly over broken

Chains	
	sandstone ledges through scattered mountain rush, shadscale, rabbit-brush and scattered bunch grass.
2.10	Sandstone spur, 30 ft. above sec. cor., projects west, about 15.00 chs. dist. Desc. abruptly over sandstone ledges.
10.10	Rocky ravine, 50 ft. below spur, course west. Asc. abruptly over sandstone ledges.
17.20	Sandstone, spur, 60 ft. above ravine, projects west about 10.00 chs. dist. Desc. abruptly over sandstone ledges. Enter scattered Cedar and pinon timber.
25.00	Rocky ravine, 110 ft. below spur, course west. Asc. abruptly over sandstone ledges.
40.00	On rocky steep SW. slope, 150 ft. above ravine. Set an iron post, 3 ft. long, 1 in. dia., 14 ins. in the ground, on bedrock, 12 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

1917

No bearing trees available, therefore, raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor. Continue abrupt ascent over sandstone ledges.

53.30	Top of ledges and rim of mesa, 320 ft. above ¼ cor., bears E. and W. Thence over broken mesa. Enter dense cedar and pinon timber, bears E. and W.
80.00	On broken sandstone mesa, 20 ft. above rim. Set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the ground to bedrock, 6 ins. in a mound of stone, 2 ft. base, for the cor. of secs. 21, 22, 27 and 28, with brass cap mkd.,

T 41 S R 1 E

S 21 | S 22

S 28 | S 27

1917

from which

Subdivision of T. 41 S., R. 1 E.

Chains	
	A cedar, 24 ins. dia., bears N. 31¼° E., 17 lks. dist., mkd., T 41 S R 1 E S 22 B T.
	A cedar, 18 ins. dia., bears S. 34½° E., 99 lks. dist., mkd., T 41 S R 1 E S 27 B T.
	A cedar, 16 ins. dia., bears S. 20° W., 79 lks. dist., mkd., T 41 S R 1 E S 28 B T.
	A cedar, 12 ins. dia., bears N. 30¼ W., 42 lks. dist., mkd., T 41 S R 1 E S 21 B T.
	Land, S. portion, rough, rugged SW. slope of high mesa, N. portion, broken mesa. General drainage SW.
	Soil, S. portion, rocky, sandy clay loam, N. portion, rocky, sandy, shallow loam, all on sandstone bedrock.
	Timber, scattered and dense cedar and pinon.
	Undergrowth, scattered mountain rush, shadscale, rabbit-brush and bunch grass.

	S. 89° 49' E., on random line, bet. secs. 22 and 27.
40.00	Set temp. point for ¼ sec. cor.
80.12	Intersect N. and S. line, 33 lks. S. of the cor. of secs. 22, 23, 26 and 27.
	Thence,
	S. 89° 57' W., on true line, bet. secs. 22 and 27.
	Over broken mesa land, asc. gradually through dense cedar and pinon timber and rabbit-brush, scattered sage-brush, mountain rush, shadscale and bunch grass under-growth.
6.70	Low sandstone spur, 20 ft. above sec. cor., projects N. 30° E. Asc. gradually.
18.30	Old trail, bears N. and S.
26.70	Rocky ridge, 40 ft. above spur, bears NE. and SW. Desc. abruptly over broken sandstone.
40.06	On broken NW. slope, 30 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in the ground to bedrock and 8 ins. in a mound of stone, 1½ ft. base, for the ¼ cor. of secs. 22 and 27, with

Chains	
	brass cap mkd., $\frac{1}{4}$ S 22 | S 27 1917
	from which,
	A pinon, 8 ins. dia., bears N. 49½° E., 22 lks. dist., mkd., ¼ S 22 B T.
	A pinon, 12 ins. dia., bears S. 63½° E., 27 lks., dist., mkd., ¼ S 27 B T.
44.40	Wash, 20 lks. wide, 3 ft. deep, 10 ft. below ¼ cor., drains N.
58.90	Wash, level with wash, 25 lks. wide, 5 ft. deep, course NE.
80.12	The cor. of secs. 21, 22, 27 and 28, 20 ft. above wash.
	Land, rolling and broken mesa, general drainage to NE.
	Soil, rocky, sandy, shallow loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered rabbit-brush, mountain rush, shadscale and bunch grass, and sagebrush. Fair grazing
	N. 0° 02' W., on true line, bet. secs. 21 and 22.
	Over broken mesa land, asc. abruptly over S slope through dense cedar and pinon timber and scattered mountain rush, rabbit-brush, shadscale and bunch grass undergrowth.
3.10	Broken sandstone ridge, 30 ft. above sec. cor., bears E. and W. Desc. over rocky, broken mesa.
40.00	On broken mesa, 60 ft. below ridge,
	Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 24 ins. in a mound of stone, 4 ft. base, for the ¼ cor. of secs. 21 and 22, with brass cap mkd., ¼ S 21 | S 22 1917
	from which
	A cedar, 14 ins. dia., bears S. 33° E., 35 lks.

Chains	
	dist., mkd., ¼ S 22 B T.
	A cedar, 10 ins. dia., bears S. 48½° W., 61 lks.
	dist., mkd., ¼ S 21 B T.
	Desc. over broken mesa land.
80.00	80 ft. below ¼ 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. 15, 16, 21, and 22, with brass cap mkd.,

T 41 S R 1 E

S 16	S 15
S 21	S 22

1917

from which

A cedar, 16 ins. dia., bears N. 33½° E., 114 lks.
dist., mkd., T 41 S R 1 E S 15 B T.

A cedar, 8 ins. dia., bears S. 10° E., 145 lks.
dist., mkd., T 41 S R 1 E S 22 B T.

A pinon, 10 ins. dia., bears S. 25° W., 58 lks.
dist., mkd., T 41 S R 1 E S 21 B T.

A cedar, 12 ins. dia., bears N. 49½° W., 26 lks.
dist., mkd., T 41 S R 1 E S 16 B T.

Land, rocky, broken mesa, draining to NE.

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

Timber, dense cedar and pinon.

Undergrowth, scattered mountain rush, shadscale, rabbit-brush and bunch grass. Fair grazing.

N. 89° 57' E., on random line, bet. secs. 15 and 22.

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

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

Thence,

N. 89° 53' W., on true line, bet. secs. 15 and 22.

Over broken mesa land, desc. gradually through dense

Chains	
	cedar and pinon timber and scattered mountain rush, rabbit-brush, sagebrush and bunch grass undergrowth.
40.03	On broken SE. slope, 70 ft. below sec. cor., Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in a m of stone, 4 ft. base, on bedrock, for the ¼ cor. of secs. 15 and 22, with brass cap mkd.,
	¼ S 15 / S 22 1917
	from which
	A pinon, 6 ins. dia., bears N. 20° E., 40 lks. dist., mkd., ¼ S 15 B T.
	A pinon, 10 ins. dia., bears, S. 53½° W., 62 lks. dist., mkd., ¼ S 22 B T.
	Asc. abruptly broken SE. slope of spur.
56.10	Broken red sandstone spur, 70 ft. above ¼ cor., projects N. 50° E. Desc. abruptly over broken sandstone ledges.
67.50	S. edge of chasm, 90 ft. below spur, chasm 270 lks. wide and 40 ft. deep, course NE.
80.06	The cor. of secs. 15, 16, 21 and 22, 80 ft. above bottom of chasm.
	Land, rocky, broken mesa, graining to the NE.
	Soil, shallow, rocky, sandy loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, rabbit-brush, sage-brush and bunch grass. Fair grazing.

	N. 0° 02' W., on true line, bet. secs. 15 and 16.
	Over broken mesa land, desc. gradually through dense cedar and pinon timber and scattered mountain rush, sagebrush, rabbit-brush and bunch grass undergrowth.
3.60	Chasm, 70 ft. below sec. cor., 150 lks. wide, course NE. Thence asc. ledges on N. slope of chasm.
23.20	Wash, 20 ft. below chasm, 10 lks. wide, 2 ft. deep, drains N. 70° E. Asc.
33.50	Broken white sandstone ridge, 40 ft. above wash, bears

Subdivision of T. 41 S., R. 1 E.

Chains	
	NE. and SW. Desc. gradual NW. slope of ridge.
40.00	On broken NW. slope, 70 ft. below ridge.
	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, 2 ft. base, for the ¼ cor. of secs. 15 and 16, with brass cap mkd.,
	¼ S 16 | S 15 1917
	from which
	A cedar, 12 ins. dia., bears S. 33° E., 43 lks. dist., mkd., ¼ S 15 B T.
	A cedar, 10 ins. dia., bears N. 44¾° W., 97 lks. dist., mkd., ¼ S 16 B T.
	Desc. gradually over broken mesa.
80.00	On gradual N. slope, 70 ft. below ¼ cor.,
	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. 9, 10, 15 and 16, with brass cap mkd.,
	T 41 S R 1 E S 9 | S 10 S 16 | S 15 1917
	from which
	A cedar, 10 ins. dia., bears N. 30° E., 60 lks. dist., mkd., T 41 S R 1 E S 10 B T.
	A cedar, 16 ins. dia., bears S. 37½° E., 135 lks. dist., mkd., T 41 S R 1 E S 15 B T.
	A cedar, 12 ins. dia., bears S. 55½° W., 185 lks. dist., mkd., T 41 S R 1 E S 16 B T.
	A pinon, 8 ins. dia., bears N. 28° W., 86 lks. dist., mkd., T 41 S R 1 E S 9 B T.
	Land, rolling and broken mesa draining E. and NE.
	Soil, rocky, shallow, sandy loam, on sandstone bedrock.
	Timber, cedar and pinon.

Chains	
	Undergrowth, mountain rush, sagebrush, rabbit-brush and bunch grass. Fair grazing.
	S. 89° 53' E., on random line, bet. secs. 10 and 15.
8.38	On account of ledges, offset, 9.07 chs. dist., S. thence S. 89° 53' E.
40 .00	Offset 9.07 chs. dist., N. and set temp. point for the ¼ sec. cor.
	Offset N. 8.50 chs., dist. on account of ledges. Thence S. 89° 53' E.
80.00	Intersect N. and S. line 8.32 chs. N. of the cor. of secs. 10, 11, 14 and 15.
	Thence,
	S. 89° 59' W., on true line, bet. secs. 10 and 15.
	Over rough mountainous land, Asc. through dense cedar and pinon timber and scattered mountain rush, shadscale rabbit-brush, and bunch grass undergrowth.
	On account of sandstone ledges over which it is impracticable to chain, offset N. 8.32 chs. dist. thence S. 89° 59' W., on true offset line.
40.00	Offset 8.32 chs. S. to true line and in bottom of canyon, 50 ft. above sec. cor.
	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. 10 and 15, with brass cap mkd.,
	¼ S 10 / S 15 / 1917
	from which
	A pinon, 4 ins. dia., bears S. 2° W., 40 lks. dist., mkd., ¼ S 15 B T.
	A cottonwood, 10 ins. dia., bears N. 14° E., 53 lks. dist., mkd., ¼ S 10 B T.
	Cottonwood timber along bottom of canyon.
	From ¼ sec. cor. offset S. 9.07 chs. dist., on account

Chains	
	of sandstone ledges over which it is impracticable to chain, ledges bear with canyon. Thence S. 89° 59' W., on offset line.
71.62	Offset N. 9.07 chs. dist. to true line, point is on S. brink of box canyon, bears N. 70° W. and S. 70° E. Canyon, course S. 70° E.; 250 ft. deep.
80.00	The cor. of secs. 9, 10, 15 and 16, 390 ft. above ¼ sec. cor:
	Land, rough mountainous and broken mesa. Draining to E.
	Soil, shallow, rocky, sandy loam, on sandstone bedrock.
	Timber, dense cedar and pinon, Cottonwood along canyon bottom.
	Undergrowth, scattered mountain rush, shadscale, rabbit-brush and bunch grass. Fair grazing.

	N. 0° 02' W., on true line, bet. secs. 9 and 10.
	Over broken mesa land, desc. gradually over broken sandstone ledges through dense cedar and pinon timber and scattered mountain rush, shadscale, rabbit-brush and bunch grass undergrowth.
2.50	Box canyon near head of box, 30 ft. below sec. cor., course S. 70° E. Asc. abruptly over sandstone ledges.
7.00	Broken sandstone spur, 80 ft. above canyon, projects S. 70° E.
12.70	Wash, 10 ft. wide, 2 ft. deep, 20 ft. below spur, drains E. Asc.
16.90	Red sandstone spur, 50 ft. above wash, projects E. Desc. gradually.
20.00	Ravine, 110 ft. below spur, course N. 70° E. Asc. gradually.
40.00	On gradual SW. slope, 30 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. 9 and 10, with brass cap

Chains

mkd.,

$\frac{1}{4}$

S 9 | S 10

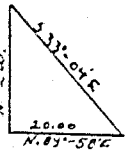
1917

from which

A cedar, 10 ins. dia., bears N. 13° E., 165 lks. dist., mkd., $\frac{1}{4}$ S 10 B T.

A cedar, 8 ins. dia., bears S. 8½° W., 49 lks. dist., mkd., $\frac{1}{4}$ S 9 B T.

Asc. abruptly over sandstone ledges impracticable to to chain, therefore, to determine distance to top of ledges, triangulate as follows; set a point on line, N. 0° 02' W., at top of ledges, and measure a base line, a distance of 20.00 chs. N. 89° 58' E., from the $\frac{1}{4}$ sec. cor. and set flag. From the point at top of ledges the flag at E. end of base bears S. 33° 04' E. The distance is then,



20.00 x cotan. 33° 02' or 1.53731 = 30.76 chs.

70.76 North triangulation point and top of rocky ridge, 480 ft. above $\frac{1}{4}$ cor., bears NW. and SE. Thence desc. abruptly over sandstone ledges on NE. slope of ridge.

80.00 On rough, rocky, NE. slope of ridge, 430 ft. below ridge,

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. 3, 4, 9 and 10, with brass cap mkd.,

T 41 S R 1 E

S 4	S 3
S 9	S 10

1917

Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor. No suitable bearing trees available.

Land, rough, broken mesa, draining to the east.

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

Timber, dense cedar and pinon.

Chains	
	Undergrowth, scattered mountain rush, shadscale, rabbit-brush, and bunch grass. Fair grazing.
	N. 89° 59' E., on random line, bet. secs. 3 and 10.
40.00	Set temp. point for ¼ sec. cor.
79.78	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 2, 3, 10 and 11.
	Thence,
	S. 89° 55' W., on true line, bet. secs. 3 and 10.
	Over rough, broken mesa at base of high mountain through dense cedar and pinon timber and scattered mountain rush, rabbit-brush, shadscale, and bunch grass undergrowth.
6.00	Wash, 30 ft. below sec. cor., 10 lks. wide, 3 ft. deep, drains NE. Asc. gradually over broken mesa.
20.80	Wash, 110 ft. above wash, 20 lks. wide, 3 ft. deep, drains NE. Asc.
23.30	Sandstone spur, 40 ft. above wash, projects NE. Leave timber, bears NE. and SW. Thence Asc. abruptly over shale formation.
33.00	Wash, 180 ft. above spur, 20 lks. wide, 3 ft. deep, drains NE. Asc. over broken shale.
37.20	Spur, 40 ft. above wash, projects NE. Desc. gradually.
39.89	On NW slope, 20 ft. below spur, Enter cedar and pinon timber. 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. 3 and 10, with brass cap mkd.,

¼ S 3 / S 10 1917

from which

A cedar, 20 ins. dia., bears N. 24° W., 140 lks. dist. mkd., ¼ S 3 B T.

A pinon, 6 ins. dia., bears S. 46° E., 118 lks. dist., mkd., ¼ S 10 BT.

Chains	
	Desc. gradually from $\frac{1}{4}$ cor.
46.10	Wash, 70 ft. below $\frac{1}{4}$ cor., 20 lks. wide, 4 ft. deep, drains NE. Thence over numerous small unimportant ravines and spurs.
79.78	The cor. of secs. 3, 4, 9 and 10, 260 ft. above wash. Land, east portion broken mesa, sandstone formation, west portion rough, broken mountain side, shale and sandstone formation, general drainage NE. Soil, shallow, sandy and shale loam, on sandstone bedrock. Timber, dense cedar and pinon. Undergrowth, scattered mountai n rush, shadscale, rabbit-brush and bunch grass. Poor grazing.

N. 0° 02' W., on true line, bet. secs. 3 and 4. Over rough mountainous land, desc. through scattered mountain rush, shadscale, rabbit-brush and bunch grass undergrowth.

4.20	Wash in bottom of ravine, 150 ft. below sec. cor., 10 lks. wide, 3 ft. deep, course NE. Asc. abrubtly.
6.80	Sandstone spur, 40 ft. above wash, projects NE. Enter cedar and pinon timber bears with spur. Desc.
32.70	Wash, 150 ft. below spur, 30 lks. wide, 4 ft. deep, drains east. Asc. gradually.
40.00	On gradual S. slope, 30 ft. above wash, Set an iron post, 3 ft. long, 1 in. dia., 14 ins. in the ground to bedrock, 12 ins. in amound of stone, 2 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

from which

A pinon, 14 ins. dia., bears S. 73$\frac{1}{4}$° W., 165 lks. dist., mkd., $\frac{1}{4}$ S 4 B T.

Subdivision of T. 41 S., R. 1 E.

Chains	
	A pinon, 6 ins. dia., bears N. 26½° E., 34 lks. dist. mkd., ¼ S 3 B T.
	Thence ascending and descending over numerous unimportant washes and spurs, bearing and draining generally E. and SE.
53.80	Wash, 110 ft. below ¼ cor., 20 lks. wide, 4 ft. deep, drains E. Continue over land broken by numerous unimportant washes and spurs., Draining to E.
85.76	Intersect the Eighth St. Par. 46 lks. E. of the S. C. of secs. 33 and 34, 70 ft. above wash.
	At intersection,
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in a mound of stone, on bedrock, for the C.C. of secs. 3 and 4, with brass cap mkd.,

T 40 S R 1 E
S 34

S 4 | S 3

T 41 S R 1 E

CC
1917

from which

A pinon, 13 ins. dia., bears S. 78° E., 14 lks. dist., mkd., C C T 41 S R 1 E S 3 B T.

A cedar, 7 ins. dia., bears S. 76½° W., 68 lks. dist., mkd., C C T 41 S R 1 E S 4 B T.

Land, broken and rough mountainous, general drainage E.

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

Timber, dense cedar and pinon.

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

From cor. of secs. 4, 5, 32 and 33 on S. bdy. of Tp. heretofore desc. N. 0° 03' W., on true line, bet. secs. 32 and 33.

Over rough mountainous land, asc. abruptly over sandstone and shale ledges through scattered shadscale, white sagebrush and rabbit-brush undergrowth.

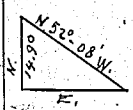
12.00	Sandstone spur, 300 ft. above sec. cor., projects N. 75°

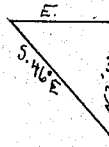
Chains	
	E. Desc. abruptly over sandstone ledges over which it is impracticable to chain, therefore triangulate as follows; set a point on line, N. 0° 03' W., and from this point measure a base line N. 89° 57' E., 14.20 chs dist., from which point the flag previously set at the 12.00 chs. point bears S. 28° 38' W., the distance is then,
	14.20 x tan. 61° 19' or 1.82780 = 25.95 chs.
37.95	N. triangulation point on steep E. slope of mountain. 200 ft. below spur. Thence over ledges.
40.00	Falls on inaccessible ledges therefore return to
37.90	On rocky E. slope,
	Set a sandstone 20 x 18 x 6 ins., 15 ins. in a mound of stone, 2 ft. base, on bedrock, for W.C. to ¼ cor. of secs. 32 and 33, mkd., W C ¼ on W. face, raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor. No iron post was available for this cor.
	Thence over rough, rocky E slope of mountain.
80.00	On rocky E. slope, 60 ft. below ¼ W.C.
	Set a sandstone 26 x 15 x 4 ins., 20 ins. in a mound of stone, 3 ft. base, on bedrock, for the cor. of secs. 28, 29, 32 and 33, mkd., 1 notch on S. and 4 notches on the E. edge. Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor. There was no iron post available for this cor.
	Land, rough mountainous, draining to E.
	Soil, rocky, sandy and clay loam, on sandstone bedrock.
	Timber, none.
	Undergrowth, scattered shadscale, white sagebrush and rabbit brush. No grazing.

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

Line passes over ledges over which it is impracticable to chain, therefore, triangulate to top of ledges as

Chains	
	follows; set a point on line, E. of the sec. cor. at top of ledges, from which point flag previously set 14.90 chs. N. of the sec. cor., bears N. 52° 08' W. The distance is then,
	14.90 x cotan. 37° 52' or 1.28610 = 19.16 chs.
19.16	E. triangulation point.
38.94	Top of ledges over which it is impracticable to chain, therefore triangulate as follows to the sec. cor., observe that the cor. of secs. 27, 28, 33 and 34 bears N. 89° 38' E., which corresponds to a falling of 26 lks. S. Also observe that the ¼ cor. of secs. 33 and 34 bears S. 46° E. The distance to sec. cor. is,
	39.74 x cotan. 44° or 1.03553 = 41.15, +.02 = 41.13 chs.
80.07	Intersect the N. and S. line, 26 lks. S. of the cor. of secs. 27, 28, 33 and 34.
	Thence,
	S. 89° 49' W., on true line, bet. secs. 28 and 33.
	Over rough mountainous land, desc. abruptly over sandstone ledges through scattered undergrowth.
10.00	Approximate position of rocky ravine, 210 ft. below sec. cor., course S. 10° W. Asc. over high sandstone ledges.
41.00	Top of ledges and rim of broken mesa, 640 ft. above ravine, bears N. 20° E. and S. 20° W. Thence over broken rocky mesa.
41.13	West triangulation point. The true cor. point falls on inaccessible sandstone ledges, therefore at this point, on bare sandstone,
	Set a sandstone, 28 x 16 x 4 ins., 21 ins. in a mound of stone, 2 ft. base, for the witness cor. to the ¼ cor. of secs. 28 and 33, mkd., WC ¼ on N. face.
	There was no iron post available for this cor.
	from which
	A cedar, 12 ins. dia., bears S. 62° W., 36 lks. dist., mkd., W C ¼ S 33 B T.
	A cedar, 24 ins. dia., bears N. 12½° W., 79 lks.





Chains	
	dist., mkd., W C ¼ S 28 E T.
41.30	Enter dense cedar and pinon timber, bears N. 20° E. and S. 20° W. Thence over rocky, broken mesa.
60.31	East triangulation point and rim of mesa, 40 ft. above ¼ W.C., bears N. 20° W. and S. 20° E. Thence desc. abruptly over sandstone ledges over which it is impracticable to chain. Leave timber bears with mesa.
73.00	Approximate position of rocky ravine, 530 ft. below mesa, course S. Thence asc. over sandstone ledges.
80.07	The cor. of secs. 28, 29, 32 and 33, 120 ft. above ravine. Land, rough mountainous and broken mesa, general drainage to the S.
	Soil, shallow, rocky sandy loam, on sandstone bedrock.
	Timber, dense cedar and pinon on mesa.
	Undergrowth, scattered mountain rush, shadscale, sagebrush, rabbit-brush and grass. Fair grazing.

	N. 0° 03' W., on true line, bet. secs. 28 and 29.
	Over rough mountaincus land, asc. abruptly over sandstone ledges through scattered mountain rush, greasewood, shadscale, rabbit-brush, sagebrush and bunch grass.
14.30	Top of ledges and edge of broken mesa, 400 ft. above sec. cor., bears W. about 5.00 chs. dist., thence S., and E. about 5.00 chs. dist. thence SE. Set flag. Thence over broken mesa, asc. Enter dense cedar and pinon timber, bears with mesa.
27.40	Old trail, bears E. and W.
40.00	On broken mesa, 70 ft. above rim of mesa,
	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
	from which

Subdivision of T. 41 S., R. 1 E.

Chains	
	A cedar, 16 ins. dia., bears S. 51¼° E., 68 lks. dist., mkd., ¼ S 28 B T.
	A cedar, 12 ins. dia., bears S. 84½° W., 108 lks. dist., mkd., ¼ S 29 B T.
47.10	Old trail, bears E and W.
51.00	Desc. over broken sandstone ledges, bear E. and W.
78.40	Ravine, 160 ft. below ¼ cor., course E. Asc.
80.00	On broken E. slope of mesa, 30 ft. above ravine. Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for the cor. of secs. 20, 21, 28 and 29, with brass cap mkd.,

T 41 S R 1 E

S 20	S 21
S 29	S 28

1917

from which

A cedar, 8 ins. dia., bears N. 79¼° E., 92 lks. dist., mkd., T 41 S R 1 E S 21 B T.

A cedar, 24 ins. dia., bears S. 66½° E., 35 lks. dist., mkd., T 41 S R 1 E S 28 B T.

A cedar, 8 ins. dia., bears S. 13½° W., 88 lks. dist., mkd., T 41 S R 1 E S 29 B T.

A cedar, 20 ins. dia., bears N. 45¾° W., 103 lks. dist., mkd., T 41 S R 1 E S 20 B T.

Land, rocky, broken mesa, draining E.

Soil, light, dry, rocky sandy loam.

Timber, dense cedar and pinon on mesa.

Undergrowth, scattered mountain rush, greasewood, shadscale, rabbit-brush, sagebrush and bunch grass. Fair grazing.

	N. 89° 49' E., on random line, bet. secs. 21 and 28.
40.00	Set temp. point for ¼ sec. cor.
80.19	Intersect the N. and S. line, 16 lks. N. of the cor. of secs. 21, 22, 27 and 28.
	Thence,

Subdivision of T. 41 S., R. 1 E.

Chains.	
	S. 89° 56' W., on true line, bet. secs. 21 and 28. Over broken mesa land through dense cedar and pinon timber and scattered mountain rush, greasewood, sage-brush, rabbit-brush and bunch grass, undergrowth.
2.30	Top of sandstone ledges, 40 ft. above sec. cor., bears NE. and SW. Thence over rolling mesa.
27.60	Leave rolling mesa, desc. over sandstone ledges, bear NE. and SW.
40.09½	On broken mesa, 120 ft. below ledges. 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 from which A pinon, 12 ins. dia., bears N. 27½° E., 71 lks. dist., mkd., ½ S 21 B T. A pinon, 10 ins. dia., bears S. 18¾° E., 64 lks. dist., mkd., ½ S 28 B T.
	Thence over rolling and broken mesa land.
80.12	The cor. of secs. 20, 21, 28, 29, level with ¼ cor. Land, rolling and broken mesa, draining to NE. Soil, rocky, sandy loam, on sandstone bedrock. Timber, dense cedar and pinon. Undergrowth, scattered mountain rush, greasewood, sage-brush, rabbit-brush and bunch grass.

	N. 0° 03' W., on true line, bet. secs. 20 and 21. Over broken mesa land, asc. through dense cedar and pinon timber and scattered mountain rush, greasewood, rabbit-brush, shadscale and bunch grass, undergrowth.
6.80	Spur, 30 ft. above sec. cor., projects about 3.00 chs. dist., E. Desc. gradually.
15.80	Ravine, 20 ft. below spur, course E. Asc. gradually.
30.10	Spur, 30 ft. above ravine, projects about 10.00 chs.

Chains	
	dist. E.. Desc. gradually over N. slope of spur.
40.00	40 ft. below 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 ¼ cor. of secs. 20 and 21, with brass cap mkd.,
	¼ S 20 | S 21 1917
	from which
	A cedar, 8 ins. dia., bears S. 84° E., 41 lks. dist., mkd., ¼ S 21 B T.
	A cedar, 24 ins. dia., bears S. 61° W., 99 lks. dist., mkd., ¼ S 20 B T.
	Desc. gradual N. slope.
41.00	Ravine, 10 ft. below ¼ cor., course E., thence over rolling mesa slop ing to the E.
80.00	On gradual E. slope, level with ¼ cor.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the cor. of secs. 16, 17, 20 and 21, with brass cap mkd.,
	T 41 S R 1 E S 17 | S 16 S 20 | S 21 1917
	from which
	A cedar, 10 ins. dia., bears N. 83° E., 101 lks. dist., mkd., T 41 S R 1 E S 16 B T.
	A cedar, 4 ins. dia., bears S. 13° E., 70 lks., dist., mkd., T 41 S R 1 E S 21 B T.
	A cedar, 10 ins. dia., bears S. 20° W., 109 lks. dist., mkd., T 41 S R 1 E S 20 B T.
	A cedar, 24 ins. dia., bears N. 24° W., 70 lks. dist., mkd., T 41 S R 1 E S 17 B T.
	Land, broken mesa, draining to E.
	Soil, shallow, sandy clay loam, on sandstone.
	Timber, Dense cedar and pinon.
	Undergrowth, scattered mountain rush, shadscale, rabbit-

Chains	
	brush, greasewood and bunch grass. Fair grazing.
	N. 89° 56' E., on random line, bet. secs. 16 and 21.
40.00	Settemp. point for the ¼ sec. cor.
79.87	Intersect the N. and S. line, 5 lks. N. of the cor. of secs. 15, 16, 21 and 22.
	Thence,
	S. 89° 58' W., on true line, bet. secs. 16 and 21.
	Over broken mesa land, desc. abruptly through dense cedar and pinon timber and scattered mountain rush, shadscale, rabbit-brush and bunch grass undergrowth.
4.30	Ravine, 50 ft. below sec. cor., course NE. Asc. gradually
14.50	Broken red sandstone ridge, 20 ft. above ravine, bears SW. and NE. Continue gradual ascent.
39.93½	On gradual NE. slope, 30 ft. above ridge,
	Set an iron post, 3 ft. long, 1 in. dia., 14 ins. in the ground to bedrock, 10 ins. in a mound of stone, 1½ ft. base, for the ¼ cor. of secs. 16 and 21, with brass cap mkd.,
	S 16 ¼ S 21 1917
	from which
	A cedar, 8 ins. dia., bears N. 1½° W., 44 lks. dist., mkd., ¼ S 16 B T.
	A cedar, 10 ins. dia., bears S. 45¼° E., 71 lks. dist., mkd., ¼ S 21 B T.
79.87	The cor. of secs. 16, 17, 20 and 21, level with ¼ cor.
	Land, broken mesa, draining E. and NE.
	Soil, rocky, sandy loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, shadscale, rabbit-brush and bunch grass. Fair grazing.
	N. 0° 03' W., on true line, bet. secs. 16 and 17.

Subdivision of T. 41 S., R. 1 E.

Chains	
	Over broken mesa land, desc. gradually through dense cedar and pinon timber and scattered mountain rush, shadscale, greasewood, sagebrush and bunch grass undergrowth.
24.80	Ravine, 20 ft. below sec. cor., course E. Thence over broken mesa land draining E.
40.00	On low ridge, 20 ft. above ravine, bears E. and W.
	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
	from which
	A cedar, 8 ins. dia., bears S. 21½° E, 167 lks. dist., mkd., ¼ S 16 B T.
	A cedar, 10 ins. dia., bears N. 77° W., 43 lks. dist., mkd., ¼ S 17 B T.
	Desc. gradually from ¼ cor.
66.20	Ravine, 50 ft. below ¼ cor., course NE. Asc. gradual S. slope of spur.
67.20	Spur, 20 ft. above ravine, projects about 5.00 chs. dist., E. Desc. gradual N. slope of spur.
74.80	Ravine, 20 ft. below spur, course SE. Asc. gradually.
80.00	On small spur, 20 ft. above ravine, projecting about 10.00 chs. dist., E.
	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 41 S R 1 E S 8 | S 9 S 17 | S 16 1917
	from which
	A cedar, 8 ins. dia., bears N. 67½° E., 134 lks. dist., mkd., T 41 S R 1 E S 9 B T.

Chains	
	A cedar, 6 ins. dia., bears S. 73° E., 288 lks. dist., mkd., T 41 S R 1 E S 16 B T.
	A cedar, 10 ins. dia., bears S. 28° W., 388 lks. dist., mkd., T 41 S R 1 E S 17 B T.
	A cedar, 5 ins. dia., bears N. 37° W., 370 lks. dist., mkd., T 41 S R 1 E S 8 B T.
	Land, broken mesa draining to E.
	Soil, light, rocky, sandy loam, on clay and sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered shadscale, mountain rush, greasewood, sagebrush and bunch grass. Fair grazing.
	N. 89° 58' E., on random line, bet. secs. 9 and 16.
40.00	Set temp. point for the ¼ sec. cor.
79.80	Intersect the N. and S. line 2 lks. S. of the cor. of secs. 9, 10, 15 and 16.
	Thence,
	S. 89° 57' W., on true line, bet. secs. 9 and 16.
	Over broken mesa land, through dense cedar and pinon timber and scattered mountain rush, shadscale, rabbitbrush, sagebrush and bunch grass, undergrowth.
4.10	Wash, 10 ft. below sec. cor., 130 lks. wide, 5 ft. deep, drains N. 30° E.
26.60	Wash, level with wash, 25 lks. wide, 3 ft. deep, drains N. 30° E. Asc/ abruptly.
32.50	Broken white sandstone spur, 70 ft. above wash, projects N. 40° E. Desc. gradual NW. slope of spur.
39.90	On gradual NW. slope, 30 ft. below spur,
	Set an iron post, 3 ft. long, 1 in. dia., 14 ins. in the ground to bedrock, 12 ins. in a mound of stone, 1½ ft. base, for the ¼ cor. of secs. 9 and 16, with brass cap mkd.,

S 9
¼
S 16

1917

Chains	
	from which
	A cedar, 8 ins. dia., bears N. 45½° E., 34 lks. dist., mkd., ¼ S 8 B T.
	A cedar, 16 ins. dia., bears S. 1½° E., 7 lks. dist., mkd., ¼ S 16 B T.
	Asc. abruptly from ¼ cor.
48.10	White sandstone and clay spur, 70 ft. above ¼ cor. projects N. 60° E. Desc. gradually.
57.50	Ravine, 100 ft. below spur, course SE. Asc. gradually.
79.80	The cor. of secs. 8, 9, 16 and 17, 40 lks. above ravine.
	Land, broken mesa, draining to the E.
	Soil, rocky, sandy and clay loam, on clay and sandstone.
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, shadscale, rabbit-brush, sagebrush and bunch grass.

	N. 0° 03' W., on true line, bet. secs. 8 and 9.
	Over broken mesa land through scattered cedar and pinon timber and scattered mountain rush, shadscale, rabbit-brush, sagebrush and bunch grass.
12.30	Ravine, 20 ft. below sec. cor., course SE. Asc. gradually.
16.30	Spur, 20 ft. above ravine, projects E. Desc. gradually.
21.00	Ravine, 20 ft. below spur, course SE. Leave mesa and asc. abruptly over sandstone ledges on S. slope of High mountain, bears E and W.
34.16	Base of sandstone ledges, bear E. and W. over which it is impracticable to chain, therefore since the true point for ¼ sec. cor. is inaccessible, at this point,
	At base of sandstone ledge, on rugged S. slope of mountain 180 ft. above ravine,
	Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in the ground to bedrock, 8 ins. in a mound of stone, 1½ ft. base, for the W.C. to the ¼ cor. of secs. 8 and 9, with brass cap mkd.,

W C

S 8 | S 9

1317

Chains	
	from which
	A cedar, 6 ins. dia., bears S. 50° E., 202 lks. dist. mkd. WC, ¼ S 9 B T.
	A cedar, 8 ins. dia., bears S. 56½° W., 300 lks. dist., mkd. WC ¼ S 8 B T.
	As it is impossible to continue line N. from W.C. or to see top of mountain on account of ledges, return to the sec. cor. and set a point at top of ledges, N., from which point observe that flag previously set, 59.98 chs. W. and 14 lks. N. of the cor. of secs, 8, 9, 16 and 17, bears S. 49° 38' W. The distance is then,
	59.98 x cotan. 49° 38' or .85006 + 14 lks. = 51.13 chs
51.13	N. triangulation point at top of ledges and rim of high mesa, 680 ft. above sec. cor., bears E. and W. Thence over broken mesa.
57.82	Rim of box canyon, 20 ft. above mesa, bears N. 60 W., and S. 60° E. Thence desc. abruptly over sandstone ledges over which it is impracticable to chain, Therefore triangulate as follows, measure a base line, W. 10.00 chs. dist., from which point flag previously set N. on line, bears N. 24° 09' E. The distance is then,
	10.00 x tan. 65° 51' or 2.23030 = 22.30 chs.
80.12	N. triangulation point, offset 12 lks. S. and 7 lks. W. on account of line being run N.
80.00	On broken rim of ledges, 260 ft. above box canyon, bearing N. 70 E. and S. 70 W.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in a mound, of stone, 4 ft. base, on sandstone bedrock, for the cor. of secs. 4, 5, 8 and 9, with brass cap mkd.,

T 41 S R 1 E

S 5	S 4
S 8	S 9

1917

Subdivision of T. 41 S., R. 1 E.

Chains	
	from which
	A pinon, 8 ins. dia., bears N. 53½° E., 87 lks. dist., mkd., T 41 S R 1 E S 4 B T.
	A pinon, 12 ins. dia., bears S. 24½° E., 129 lks. dist., mkd., T 41 S R 1 E S 9 B T.
	A pinon, 6 ins. dia., bears S. 58¼° W., 53 lks. dist., mkd., T 41 S R 1 E S 8 B T.
	A pinon, 14 ins. dia., bears N. 61½° W., 82 lks. dist., mkd., T 41 S R 1 E S 5 B T.
	Land, S. portion broken mesa draining SE. N. portion rough, rocky, rugged mountainous draining S. and NW.
	Soil, rocky, shallow, sandy loam, on sandstone bedrock.
	Timber, cedar and pinon.
	Undergrowth, scattered, mountain rush, shadscale, rabbit-brush, sagebrush and bunch grass. Fair grazing.
	N. 89° 57'E., on random line, bet. secs. 4 and 9.
40.00	Set temp. point for the ¼ sec. cor.
79.88	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 3, 4, 9 and 10.
	Thence,
	S. 89° 55' W., on true line, bet. secs. 4 and 9.
	Over rough mountainous land, asc. gradually through scattered cedar and pinon timber, and scattered mountain, rush, shadscale, rabbit-brush, and bunch grass undergrowth.
7.30	Enter dense-cedar and-pinon-timber, bears N. and S.
12.00	Leave sharp spur, projecting N^{E}. 40 ft. above sec. cor., and desc. abrupt NW. slope.
20.30	Wash, 30 ft. below spur, drains NE. Asc. abruptly.
24.10	Sharp spur, 80 ft. above wash, projects NE. Desc.
25.00	Wash, 20 ft. below spur, 10 lks. wide, 3 ft. deep, drains N. Asc.
27.70	Sharp spur, 60 ft. above wash, projects about 20 chs. N. Thence asc. and desc. over numerous spurs and washes.
37.80	Sharp spur, 70 ft. above spur, projects N. Desc. along

Chains	
	steep N. slope.
39.94	On steep N. slope, 30 ft. below spur, 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. 4 and 9, with brass cap mkd., ¼ S 4 / S 9 1917 from which A pinon, 7 ins.dia., bears N. 40½° W., 53 lks. dist., mkd., ¼ S 4 B T. A pinon, 8 ins. dia., bears S. 78½° W., 30 lks. dist., mkd., ¼ S 9 B T.
	Thence asc. abruptly over sandstone ledges.
59.40	Sandstone spur, 480 ft. above ¼ cor., projects NW. Desc. abruptly over sandstone ledges.
62.30	Rocky ravine, 100 ft. below spur, course NW. Asc. abruptly over sandstone ledges.
67.30	Red sandstone spur, 110 ft. above ravine, projects N. 30° W. Desc. abruptly over sandstone ledges.
79.88	The cor. of secs. 4, 5, 8 and 9, 70 ft. below spur. Land, rough, rocky rugged, N. slope from high mesa. Soil, rocky, shallow, sandy loam, on sandstone bedrock. Timber, dense cedar and pinon. Undergrowth, scattered mountain rush, shadscale, rabbit-brush and bunch grass. Poor grazing.

	N. 0° 03' W., on true line, bet. secs. 4 and 5. Over very, rough rugged mountainous land, desc. abruptly over sandstone ledges through scattered cedar and pinon timber and scattered mountain rush, shadscale, rabbit-brush and bunch grass undergrowth.
3.86	Brink of mountain, 60 ft. below sec. cor., bears E. and W. It is impracticable to chain farther on account of high sandstone ledges, therefore triangulate as follows, it being impossible to get a base here on

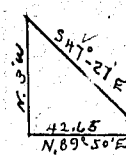
Chains

account of sandstone ledges, set a point on line, N. 0° 03' W., and from this point observe that the flag 42.65 chs. E. and 12 lks. N. of the cor. of secs. 4, 5, 8 and 9, bears S. 47° 21' E., the distance is then,

log.42.65 + logsin.42° 49' + cologsin. 47° 18' =

1.629919 + 9.832088 + 0.136763 = 1.598970 = antilog.

= 39.44 chs.



39.44 N. triangulation point.

40.00 On rugged E. slope of mountain, 530 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, 2 ft. base, for the ¼ cor. of secs. 4 and 5, with brass cap mkd.,

S 5 | S 4

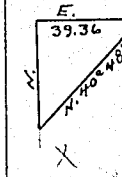
1917

from which

A cedar, 12 ins. dia., bears S. 20½° E., 70 lks. dist., mkd., ¼ S 4 B T.

A cedar, 6 ins. dia., bears N. 7° W., 45 lks. dist., mkd., ¼ S 5 B T.

It is impracticable to chain N. from this cor., therefore triangulate as follows; set a point N. at the intersection with Eighth St. Par. S. which is 64 lks. E. of S.C., then observe that the S. ¼ cor. of sec. 33 bears N. 40° 48' E. The distance is then,



39.36 x cotan. 40° 48' or 1.15851 = 45.60

85.60 Intersect the Eighth St. Par. S. 60 lks. E. of the S. C. of secs 32 ans 33, 580 ft. above ¼ cor.

At intersection,

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 C.C. of secs. 4 and 5, with brass cap mkd.,

T 40 S R 1 E

S 33

S 5 | S 4

T 41 S R 1 E

C C

1917

Subdivision of T. 41 S., R. 1 E.

Chains	
	from which
	A cedar, 12 ins. dia., bears S. 28½° W., 37 lks. dist., mkd., C C T 41 S R 1 E S 5 B T.
	A pinon, 8 ins. dia., bears S. 33¼ E., 120 lks. dist., mkd., C C T 41 S R 1 E S 4 B T.
	Land, rough, rugged, mountain side, draining to E.
	Soil, rocky, sandy clay loam, on sandstone bedrock.
	Timber, scattered cedar and pinon.
	Undergrowth, scattered mountain rush, shadscale, rabbit-brush and bunch grass. Poor grazing.
	From cor. of secs. 5, 6, 31&32 on S. bdy. of Tp. heretofore desc. N. 0° 03' W., on true line, bet. secs. 31 and 32.
	Over rough mountainous land, asc. through scattered shadscale undergrowth, blue clay formation.
9.20	Asc. abruptly over broken S. slope of spur.
26.10	Sharp spur, 525 ft. above sec. cor., projects W. Desc. abruptly.
40.00	On NE. slope of spur, 300 ft. below top,
	No iron post available therefore set a white sandstone, 30 x 15 x 5 ins., on bare sandstone, 23 ins. in a mound of stone, 3 ft. base, for the ¼ cor. of secs. 31 and 32, mkd., ¼ on W. face.
	Raise a mound of stone, 2 ft. base, 1½ ft. high, west of the cor.
	Continue abrupt descent.
47.00	Rocky box canyon, 100 ft. below ¼ cor., course W.
	It is impracticable to chain farther on account of high sandstone ledges, therefore, triangulate to top of ledges as follows; set a flag on line, N. 0° 03' W., at top of ledges, and from this point measure a base line S. 61° 30' E., 7.95 chs. dist., from which point the angle between ¼ sec. cor. and N. triangulation point is 104° 43'. The distance is then,
	log. 7.95 + logsin. 104° 43' + colog. sin. 13° 50' = 0.900367 + 9.985514 + 0.621423 = 1.507304 = antilog. = 32.16 chs.

Chains	
72.16	N. triangulation point on rim of mesa, 480 ft. above canyon, bears N. 60° W. and S. 60° E. Enter scattered service-berry and sagebrush undergrowth and dense cedar and pinon timber, bear with mesa. Thence over rocky mesa top.
80.00	On mesa, 480 ft. above canyon. Set an iron post, 3 ft. long, 2 ins. dia., on bare sandstone bedrock, 24 ins. in mound of stone, 4 ft. base, for the cor. of secs. 29, 30, 31 and 32, with brass cap mkd.,

T 41 S R 1 E

S 30	S 29
S 31	S 32

1917

from which

A cedar, 12 ins. dia., bears S. 47½° W., 68 lks. dist., mkd., T 41 S R 1 E S 31 B T.

A pinon, 6 ins. dia., bears N. 30° W., 72 lks. dist., mkd., T 41 S R 1 E S 30 B T.

A pinon, 4 ins. dia., bears N. 72° E., 76 lks. dist., mkd., T 41 S R 1 E S 29 B T.

A pinon, 8 ins. dia., bears S. 78° E., 84 lks. dist., mkd., T 41 S R 1 E S 32 B T.

Land, S. portion, blue clay steep slopes from mountain, N. portion rocky mesa. General drainage W.

Soil, S. portion, blue clay loam, N. portion, shallow sandy, rocky loam, on sandstone bedrock.

Timber, none on S. portion, dense cedar and pinon on N. portion,

Undergrowth, scattered shadscale on S. portion, scattered shadscale, sagebrush and service-berry on N. portion.

No grazing on S. portion, fair on N. portion of mile.

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

40.00	Set temp. point for the ¼ sec. cor.,
68.64	Top of ledges over which it is impracticable to chain,

Chains

therefore triangulate as follows, note from this point that the cor. of secs. 28, 29, 32 and 33 bears E. Then since it is impossible to get a suitable base at this point on account of ledges, measure back to the 67.98 chs. point and from this point measure a base line N. 0° 03' W., a distance of 15.17 chs., from which point the cor. of secs. 28, 29, 32 and 33, bears S. 38° 42' E. The distance to corner is then,

log.15.17 + log.sin.38° 39' + colog.sin. 51° 18' =
1.180986 + 9.795575 + 0.107666 = 1.084227 = antilog.
= 12.14 chs.

80.12 Intersect the N. and S. line, at the cor. of secs. 28, 29, 32 and 33.

Thence,

West, on true line, bet. secs. 29 and 32.

Over rough mountainous land, asc. abruptly over sandstone ledges through scattered shadscale, white sagebrush and rabbit-brush undergrowth,

11.50 Top of high sandstone ledges, 410 ft. above sec. cor., bear N. and S. Asc. over broken sandstone ledges.

12.14 W. triangulation point, 460 ft. above sec. cor., on rim of mesa, bears N. and S. Asc. gradually over small sandstone ledges. Enter cedar and pinon timber.

18.12 Top of small sandstone ledges, 30 ft. above triangulation point, bear N. and S. Desc. gradually over broken mesa.

40.06 50 ft. below ledges,

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for the ¼ cor. of secs. 29 and 32, with brass cap mkd.,

$\frac{1}{4}$ $\frac{S\ 29}{S\ 32}$

1217

from which

A cedar, 14 ins. dia., bears S. 22½° W., 105 lks. dist., mkd., ½ S 32 B.T.

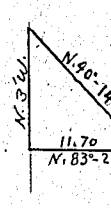
Subdivision of T. 41 S., R. 1 E.

Chains	
	A cedar, 18 ins. dia., bears N. 45° W., 68 lks. dist., mkd., ¼ S 29 B T.
	Desc. gradually over broken, rocky mesa.
70.90	Gulch, 30 ft. below ¼ cor., course NW. Asc. gradually.
80.12	The cor. of secs. 29, 30, 31 and 32, 20 ft. above gulch. Land, E. portion rough, rugged, ledgy E. slope of mountain. W. portion, rocky, broken mesa, draining to the NW.
	Soil, shallow, rocky, sandy loam, on sandstone bedrock.
	Timber, dense cedar and pinon on west portion of mile.
	Undergrowth, scattered shadscale, white sagebrush, rabbit-brush. Poor grazing.

	W. on random line, bet. secs. 30 and 31.
23.53	Top of ledges over which it is impracticable to chains. therefore set a point on broken bench below ledges for triangulation. From this point measure a base line S. a distance of 9.00 chs., from the S. end of base the flag at top of ledges bears N. 65° 09' E. The distance is then,
	9.00 x tan. 65° 09' or 2.15325 = 19.43 chs.
40.00	Set temp. point for the ¼ sec. cor.
42.96	W. triangulation point.
80.63	Intersect the W. bdy. of the Tp. 12 lks. S. of the cor. of secs. 25, 30, 31 and 36, heretofore described.
	Thence,
	S. 89° 55' E., on true line, bet. secs. 30 and 31.
	Over broken bench land, through scattered cedar timber and scattered rabbit-brush, white sagebrush, mountain rush and bunch grass undergrowth.
8.30	Rim of bench, level with sec. cor., bears S. and N. Thence desc. abruptly over sandstone ledges.
12.40	Coyote creek in bottom of canyon, 100 ft. below bench, small stream of clear alkali water, 1 lk. wide, 2 ins.

Chains	
	deep, course S. Asc. gradually.
13.40	Small white spur, 20 ft. above creek, projects S. Desc.
17.00	Small gulch, 20 ft. below spur, course S. 70° W. Asc.
21.70	Top of bench, 90 ft. above coyote creek, bears N. and S. Asc. gradually over bench land.
37.67	W. triangulation point. Triangulation made from this point because flag at top of ledges cannot be seen from points farther E., on account of ledges.
40.63	On W. slope of spur, projecting NW., 20 ft. above triangulation point.
	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 ¼ cor. of secs. 30 and 31, with brass cap mkd.,
	¼ S 30 / S 31 / 1917
	No bearing trees available, therefore raise a mound of stone, 2 ft. base, 1½ ft. high, N. of the cor.
41.00	Leave bench lands, bear NW. and SE. Asc. abruptly over high sandstone ledges.
57.10	E. triangulation point at top of ledges and rim of rocky mesa, 420 ft. above ¼ cor., bears N. and S. Thence enter dense cedar and pinon timber, bears N. and S. Thence over rocky, broken mesa.
80.63	The cor. of secs. 29, 30, 31 and 32, level with rim of mesa.
	Land, rough mountainous and rocky, broken mesa and benches. general drainage, S.
	Soil, rocky, sandy, clay loam, on sandstone bedrock.
	Timber scattered cedar on west portion and dense cedar and pinon on east portion of mile.
	Undergrowth, scattered rabbit-brush, mountain rush, white sagebrush and bunch grass. Fair grazing.
	N. 0° 03' W., on true line, bet. secs. 29 and 30.
	Over rocky, broken mesa land, asc. abruptly through dense

Chains	
	cedar and pinon timber and scattered mountain rush, shadscale, rabbit-brush and bunch grass undergrowth.
5.00	Broken sandstone spur, 40 ft. above sec. cor., projects S. 70° W. Desc. over rocky N. slope.
10.70	Rocky gulch, 30 ft. below spur, course W. Asc. abruptly.
13.80	Broken sandstone spur, 50 ft. above gulch, projects SW. Desc.
25.70	Top of rim of sandstone ledges, 20 ft. high, 40 ft. below spur, bears SW. and NE. Desc. over ledges.
40.00	On broken N. slope of mesa, 80 ft. below ledges. 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. 29 and 30, with brass cap mkd.,
	$\frac{1}{4}$ ✓ S 30 | S 29 1917
	from which.
	A pinon, 8 ins. dia., bears N. 38° E., 44 lks. dist., mkd., ¼ S 29 B T. ✓
	A cedar, 10 ins. dia., bears N. 50° W., 55 lks. dist., mkd., ¼ S 30 B T. ✓
41.73	S. rim of box canyon, 10 ft. below ¼ cor., bears E. and W. Impracticable to chain farther on account of high sandstone ledges along box canyon, therefore, triangulate as follows; set a point on line, N. 0° 03' W., at N. rim of canyon and then from the point at S. rim of canyon measure a base line, N. 83°21' E., a distance of 11.70 chs., from the E. end of base the point at N. rim of canyon bears N. 40° 14' W. The distance is then,
	log.11.70 + log.sin.56° 25' + colog.sin.40° 11' = 1.068186 + 9.920688 + 0.190282 = 1.179156 = antilog. = 15.11 chs.
51.00	Approximate bottom of canyon, 400 ft. deep, course W. Asc. abruptly over high sandstone ledges.
56.84	N. triangulation point and N. rim of box canyon, 400 ft.



Chains

above canyon, bears E. and W. Thence over broken mesa.

73.80 Old trail, bears NW. and SE.

80.10 On broken N. slope of mesa, level with rim of canyon.

Set an iron post, 3 ft. long, 2ins. dia., 24 ins. in the ground for the cor. of secs. 19, 20, 29 and 30, with brass cap mkd.,

T 41 S R 1 E

S 19	S 20
S 30	S 29

1917

from which

A cedar, 8 ins. dia., bears N. 55½° E., 97 lks. dist., mkd., T 41 S R 1 E S 20 B T.

A cedar, 6 ins. dia., bears S. 11° E., 55 lks. dist., mkd., T 41 S R 1 E S 29 B T.

A cedar, 10 ins. dia., bears S. 35° W., 66 lks. dist., mkd., T 41 S R 1 E S 30 B T.

A cedar, 12 ins. dia., bears N. 52½° W., 60 lks. dist., mkd., T 41 S R 1 E S 19 B T.

Land, rocky, broken mesa, cut by deep box canyon draining W.

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

Timber, dense cedar and pinon.

Undergrowth, scattered mountain rush, shadscalem rabbit-brush and bunch grass. Fair grazing.

E. on random line, bet. secs. 20 and 29.

[illegible].00 Set temp. point for ¼ sec. cor.

[illegible].10 Intersect the N. and S. line, 18 lks. N. of the cor. of secs. 20, 21, 28 and 29.

Thence,

N. [illegible] W., on true line, bet. secs. 20 and 29.

Over rocky, broken mesa, asc. through dense cedar and pinon timber and scattered mountain rush, shadscale, sagebrush, rabbit-brush and bunch grass undergrowth.

Chains	
34.30	Ridge, 100 ft. above sec. cor., bears NE. and SW. Desc.
40.09	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. 20 and 29, with brass cap mkd.,
	$\frac{1}{4}$ S 20 / S 29 / 1917
	from which
	A cedar, 6 ins. dia., bears N. 23° E., 78 lks. dist., mkd., $\frac{1}{4}$ S 20 B T.
	A cedar, 12 ins. dia., bears S. 50½° W., 46 lks. dist., mkd., $\frac{1}{4}$ S 29 B T.
	Thence over rocky, rolling mesa.
80.18	The cor. of secs. 19, 20, 29 and 30, level with $\frac{1}{4}$ cor.
	Land, rolling and broken, rocky mesa, draining to SW.
	Soil, shallow, rocky, sandy clay loam, on sandstone bed-rock.
	Timber, dense cedar and pinon timber.
	Undergrowth, scattered mountain rush, shadscale, sage-brush, rabbit-brush and bunch grass. Fair grazing.

	N. 89° 55' W., on random line, bet. secs. 19 and 30.
40.00	Set temp. point for $\frac{1}{4}$ sec. cor.
80.53	Intersect the W. bdy. of Tp. 3 lks. N. of the cor. of secs. 19, 24, 25 and 30, heretofore described.
	Thence,
	S. 89° 56' E., on true line, bet. secs. 19 and 30.
	Over rough mountainous land, asc. abruptly over sandstone ledges through scattered undergrowth of mountain rush, shadscale, yellow-top, sagebrush, rabbit-brush and bunch grass.
5.70	E. rim of Coyote canyon, 230 ft. above sec. cor., bears NW. and SE. Enter dense cedar and pinon timber bears with canyon. Asc. gradually over broken mesa land.

Chains	
16.30	NW. end of broken spur, 30 ft. above rim, projects about 2.00 chs. distance, NW. Desc. gradually.
40.53	20 ft. below 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, 1½ ft. base, for the ¼ cor. of secs. 19 and 30, with brass cap mkd.,
	¼ S 19 / S 30 / 1917
	from which
	A cedar, 14 ins. dia., bears N. 70° E., 12 lks. dist., mkd., ¼ S 19 B T.
	A cedar, 8 ins. dia., bears S. 77½° W., 34 lks. dist., mkd., ¼ S 30 BT.
60.00	Wash, 40 ft. below ¼ cor., 10 lks. wide, 1 ft. deep, drains NW. Asc. gradually.
80.53	The cor. of secs. 19, 20, 29 and 30, 30 ft. above wash. Land, rocky, broken mesa and canyon slope, drains NW. Soil, shallow, rocky sandy loam, on sandstone bedrock. Timber, dense cedar and pinon, except W. portion, no timber. Undergrowth, scattered mountain rush, shadscale, sagebrush, yellow-top, rabbit-brush and bunch grass. Fair grazing.
	N. 0° 03' W., on true line, bet. secs. 19 and 20. Over broken mountainous land, desc. gradually through dense cedar and pinon timber and scattered mountain rush, shadscale, sagebrush, rabbit-brush and bunch grass undergrowth.
2.10	Wash, 8 lks. wide, 3 ft. deep, 10 ft. below sec. cor., drains NW. Asc. gradually.
12.40	S. rim of broken bench, 40 ft. above wash, bears SW. and NE. Leave dense timber and enter scattered cedar

Chains	
	and pinon timber, bears with bench. Thence over broken bench, asc. gradually.
40.00	On broken bench, about 10.00 chs. W. of high gray bluffs, bearing N. and S.
	Set an iron post, 3 ft. long, 1 in. dia., 14 ins. in a the ground to bedrock and 12 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 19 and 20, with brass cap mkd.,
	¼ S 19 | S 20 1917
	from which
	A cedar, 6 ins. dia., bears N. 38¾° E., 175 lks. dist., mkd., ¼ S 20 B T.
	A cedar, 8 ins. dia., bears S. 37½° W., 192 lks. dist., mkd., ¼ S 19 B T.
	Continue over broken bench land.
45.50	Leave broken bench, 20 ft. above ¼ cor., bears NE. and SW. Asc. abruptly over rough mountainous land.
51.20	Red sandstone spur, 40 ft. above ¼ cor., projects S. 30° W. Set flag. Desc. abruptly over rocky NW slope.
55.40	Wash, 80 ft. below spur, 25 lks. wide, 10 ft. deep, drains NW. Asc. abruptly over rocky SE. slope of spur.
71.35	Rough sandstone spur, 110 ft. above wash, projects S. 70° W. Desc. abruptly over rocky NW. slope.
75.50	Wash, 90 ft. below spur, 12 lks. wide, 3 ft. deep, drains S. 70° W. Asc. abruptly over rocky SE. slope.
80.00	On rocky SE. slope, 160 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 cor. of secs., 17, 18, 19 and 20, with brass cap mkd.,
	T 41 S R 1 E S 18 | S 17 S 19 | S 20 1917

Chains

from which

A cedar, 10 ins. dia., bears N. 72¾° W., 128 lks. dist., mkd., T 41 S R 1 E S 18 B T.

A cedar, 10 ins. dia., bears S. 72¼° W., 176 lks. dist., mkd., T 41 S R 1 E S 19 B T.

No suitable bearing trees available in secs. 17 and 20, therefore, raise a mound of stone, 2 ft. base, 1½ ft. high, west of the sec. cor.

Land, broken and rough mountainous, draining SW.

Soil, shallow, rocky, sandy loam, mixed with clay, on sandstone bedrock.

Timber, dense cedar and pinon.

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

S. 89° 52' E., on random line, bet. secs. 17 and 20.

It is impracticable to chain E. from this cor. therefore, triangulate as follows, set a flag at top of high gray ledges, S. 89° 52' E., then measure N. 0° 03' W., a distance of 14.85 chs. from which point the flag at top of ledges bears S 54° 38' E. The distance is then,

log.14.85 + log.sin.54° 35' + colog.sin.35° 14' =

1.171726 + 9.911136 + 0.238894 = 1.321756 = antilog.

= 20.98 chs.

20.98 E. triangulation point. It is impossible to chain on east from this point therefore triangulate as follows; note that the cor. of secs. 16, 17, 20 and 21 bears S. 89° 54' E., and that the ½ cor. of secs. 20 and 21 bears S. 55° 49' E. The distance is then,

40.11 x cotan. 34° 11' or 1.47238 = 59.06 chs. - 4 lks.

It was necessary to triangulate to the sec. cor. on account of the ledges making it impracticable to get a suitable base anywhere else.

80.60 Intersect the N. and S. line, 4 lks. S. of the cor. of secs. 16, 17, 20 and 21.

Thence.

Chains	
	N. 89° 54' W., on true line, bet. secns. 17 and 20.
	Over broken mesa land, asc. gradually through dense cedar and pinon timber and scattered mountain rush, shadscale, rabbit-brush, sagebrush and bunch grass undergrowth.
15.00	30 ft. above sec. cor., leave mesa and asc. more abruptly over broken E. slope of high gray bluffs. Leave dense timber and enter scattered cedar and pinon timber, bears N. and S.
37.14	Base of high gray sandstone ledges, impossible to chain farther, bear N. and S. Therefore at this point, 125 ft. above sec. cor., on rough E. slope of high gray bluffs,
	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. 17 and 20, with brass cap mkd.,
	$WC\frac{1}{4}\ \frac{S\ 17}{S\ 20}\ 1917$
	No suitable bearing trees available, therefore, raise a mound of stone, 2 ft. base, 1½ ft. high. N. of the W.C.
	Thence asc. abruptly over impassable sandstone ledges, bear N. and S.
40.00	Point is inaccessible.
59.02	Triangulation point at top of high, gray bluffs, 570 ft. above ¼ W. C., bear N. and S. Thence desc. abruptly over sandstone ledges over which it is impossible to chain.
80.00	The cor. of secs. 17, 18, 19 and 20, 660 ft. below bluffs.
	Land, rough, rugged, ledgy mountainous, except E. 15.00 chs. which is broken mesa. General drainage E. and W. from high gray bluffs.
	Soil, shallow, rocky, sandy clay loam, on sandstone bed-rock.
	Timber, cedar and pinon, dense on E. portion and scattered

Chains	
	on the W. 65.00 chs.
	Undergrowth, scattered mountain rush, shadscale, rabbit-brush, sagebrush and bunch grass. Poor grazing.

	N. 89° 56' W., on random line, bet. secs. 18 and 19.
	It is impracticable to chain W. from this cor. on account of ledges, therefore triangulate as follows, set a point on line, N. 89° 56' W., and from this point measure a base line, N. 0° 04' E., a distance of 20.00 chs. from which point the cor. of secs. 17, 18, 19 and 20, bears S.61° 54' E. The distance is then, 20.00 x tan. 61° 58' or 1.87809 = 37.56 chs.
37.56	Triangulation point.
40.00	Set temp. point for the ¼ sec. cor.
80.56	Intersect the W. bdy. of TP. 5 lks. S. of the cor. of secs. 13, 18, 19 and 24, heretofore described.
	Thence,
	S. 89° 54' E., on true line, bet. secs. 18 and 19.
	Over rough mountainous land, desc. abruptly over sandstone ledges through dense cedar and pinon timber and scattered mountain rush, sagebrush, grease wood, rabbit-brush and bunch grass underrowth.
10.90	Bottom Coyote canyon, 260 ft. below sec. cor., dry, course S. Forks about 1.00 ch. dist., N., forks draining from N. and E. Asc. abruptly over N. end of spur, projecting N. to the E. fork of Coyote canyon.
28.60	Sandstone spur, 200 ft. above canyon, projects about 2.00 chs. dist., N. to canyon. Desc. abruptly over broken sandstone ledges.
32.50	Rocky canyon, 60 ft. below spur, course N. 30° W. Asc. over steep sandstone ledges.
40.56	On rocky W. slope, 100 ft. above canyon,
	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. 18 and 19, with

Chains	
	brass cap mkd., $\frac{1}{4}$ S 18 / S 19 1917
43.00	Base of sandstone ledges, bear N. and S. Impracticable to chain farther, triangulation point.
80.56	The cor. of secs. 17, 18, 19 and 20, 320 ft. above $\frac{1}{4}$ cor.
	Land, rough, ledgy, mountainous land, draining generally S.
	Soil, rocky, shallow, sandy clay loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, sagebrush, greasewood, rabbit-brush and bunch grass. Fair grazing.

	N. 0° 05' W., on true line, bet. secs. 17 and 18.
	Over rough mountainous land, asc. abruptly over rocky, sandy clay formation through scattered cedar and pinon timber and scattered mountain rush, shadscale, rabbit-brush, sagebrush and bunch grass undergrowth.
2.10	Broken red sandstone spur, 80 ft. above sec. cor., projects SW. Asc. abruptly over rocky NW. slope.
14.85	Spur, 50 ft. above spur, projects NW. Thence over broken W. slope. Set flag.
15.00	Cedar and pinon timber becomes dense, bears E. and W.
29.30	Timber becomes scattered, bears NW. and SE.
37.20	Rocky spur, 30 ft. below spur, projects NW. Desc.
38.70	On broken NW. slope, 50 ft. below spur,
	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 a W.C. to the $\frac{1}{4}$ cor. of secs. 17 and 18, with brass cap mkd., W C $\frac{1}{4}$ S 18 | S 17 1917

Chains	
	from which
	A cedar, 14 ins. dia., bears N. 77½° E., 12 lks. dist., mkd., W C ¼ S 17 B T.
	A cedar, 8 ins. dia., bears S 38¼° W., 55 lks. dist., mkd., W C ¼ S 18 B T.
40.00	Point falls on side of clay and sandstone ledges, on unsafe ground. Desc. abruptly.
44.10	Head of ravine, 90 ft. below W. C., course N. 75° W. Asc. abruptly over clay hills.
47.20	Rocky clay spur, 110 ft. above ravine, projects S. 30° W. Desc. abruptly.
48.80	Leave scattered timber, bears SW. and NE.
55.40	Ravine, 310 ft. below spur, course NW. Asc. abruptly over steep, rocky, clay hills.
59.20	Clay spur, 170 ft. above ravine, projects N. 35° W. Desc. abruptly over steep NE. slope.
64.00	Wash, 170 ft. below spur, 10 lks. wide, 6 ft. deep, drains N. 70° W. Asc. abruptly.
77.80	Broken clay spur, 400 ft. above wash, projects S. 60° W. Desc. gradually.
78.00	Enter scattered cedar and pinon timber, bears E. and W.
80.00	On NW. slope of broken clay spur, 20 ft. below top. Set an irom 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. 7, 8, 17 and 18, with brass cap mkd.,
	T 41 S R 1 E S 7 | S 8 S 18 | S 17 1917
	from which
	A cedar, 8 ins. dia., bears S. 21° W., 54 lks. dist., mkd., T 41 S R 1 E S 18 B T.
	A cedar, 12 ins. dia., bears S. 3° E., 185 lks. dist., mkd., T 41 S R 1 E S 17 B T.
	A cedar, 8 ins. dia., bears N. 84° W., 14 lks.

Subdivision of T.41 S., R.1 E.

Chains.

dist., mkd. T 41 S R 1 E S 7 B T

No suitable bearing trees available in sec. 8, therefore raise a mound of stone, 2 ft. base, 1½ ft. high west of the cor.

Land rocky mountainous, general drainage to the W.

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

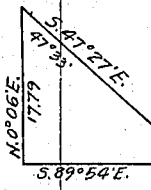
Timber, scattered cedar and pinon.

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

S.89° 54'E. on random line bet. secs. 8 and 17,

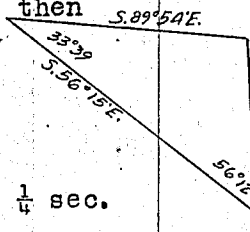
It is impracticable to chain E. from this cor., therefore triangulate as follows to top of ledges; set a flag at top of high gray bluffs, on line, S.89° 54'E., then measure N.0° 03'W., a distance of 17.79 chs. from the cor. of secs. 7, 8, 17, and 18, from which point offset 5 lks. dist. E. and observe that the flag at top of bluffs bears S.47° 27'E., the course of the base line is N.0° 06'E., the distance is then

17.79 x tan. 47° 33' or 1.09322 = 19.45 chs.



19.45 Triangulation point.

20.15 It is impracticable to chain farther E. from this point on account of high sandstone ledges, therefore triangulate as follows: Observe that the cor. of secs. 8, 9, 16, and 17 bears S.89° 54'E., and that the ¼ cor. of secs. 16 and 17 bears S.56° 15'E., the distance to sec. cor. is then



log 40.00 chs.	=	1.6020600
log sin 56°12'	=	9.9195929
colog sin 33°39'	=	0.2563986
59.99	=	1.7780515

It is impracticable to set a temp. point for the ¼ sec. cor. on the random line, on account of ledges making it inaccessible from the west.

80.14 Intersect the cor. of secs. 8, 9, 16, and 17.

Subdivision of T.41 S., R.1 E.

Chains.	
	Thence
	N.89°.54'W.on true line bet.secs.8 and 17,
	Over broken mesa land, desc.gradually through dense cedar and pinon timber and scattered mountain rush, sagebrush, shadscale, rabbit-brush and bunch grass undergrowth.
10.40	Ravine, 20 ft.below sec.cor., course SE. Asc.over rolling hills.
15.40	Asc.more abruptly over rocky foothills bearing N.and S.
40.07	180 ft.above sec.cor., on rocky E.slope of high gray bluffs.
	Set an iron post 3 ft.long, 1 in.dia., 18 ins.in the ground, to bed rock, 8 ins.in a mound of stone 1½ ft. base, for the ¼ cor.of secs.8 and 17, with brass cap mkd.
	¼ S 8 / S 17 / 1917
	from which
	A cedar 10 ins.dia., bears S.66½°E. 80 lks.dist. mkd.¼ S 17 B T
	A cedar, 12 ins.dia., bears N.69¾°W. 59 lks.dist. mkd.¼ S 8 B T
	Asc.abruptly over high sandstone ledges over which it is impracticable to chain, bear N.and S.
59.99	Triangulation point at top of high gray bluffs, 420 ft. above ¼ cor. bear N.and S.Thence over narrow, level top of bluffs.Timber becomes scattered,bears N.and S.
60.69	W.edge of narrow top of high gray bluffs, bears N.and S.
	Desc.abruptly over impassable sandstone ledges.
80.14	The cor.of secs.7,8,17,and 18,520 ft.below gray bluffs.
	Land E.portion broken mesa;balance of mile rough,rocky foothills and rugged sandstone ledgy mountain.
	Soil, rocky,sandy clay loam,on sandstone bedrock.
	Timber,dense cedar and pinon on E.portion,scattered on west portion.Undergrowth,scattered mountain rush,shad-

Chains	
	scale,, rabbit brush, sagebrush and bunch grass. Poor grazing.
	N. 89° 54' W., on random line, bet. secs. 7 and 18.
	On account of sandstone ledges over which it is impracticable to chain, triangulate as follows; set a point on line N. 89° 54' W., from which point offset 9 lks. dist., S. to a point W. of the sec. cor., and then observe that a flag previously set, 31.26 chs. dist., S. 0° 03' E. of the cor. of secs. 7, 8, 17 and 18, bears S. 59° 19' E. The distance is then,
	31.26 x cotan. 30° 41' or 1.68531 = 52.68 - .03 = 52.65 chs.
52.65	Triangulation point, measure W. a distance of 9 lks. and S. 89° 54' E., a distance of 12.65 chs.
40.00	Set temp. point for the ¼ sec. cor.
80.55	Intersect the W. bdy. of the Tp. 12 lks. N. of the cor. of secs. 7, 12, 13 and 18, heretofore described.
	Thence,
	S. 89° 59' E., on true line, bet. secs. 7 and 18.
	Over rough mountainous land, desc. abruptly over sandstone ledges along canyon, through dense cedar and pinon timber and scattered mountain rush, sagebrush, shadscale, rabbit-brush, and bunch grass undergrowth.
7.00	Bottom Coyote canyon, 160 ft. below sec. cor., course S. Asc. abruptly over sandstone ledges, bear with canyon.
14.80	Sandstone spur, 70 ft. above canyon, projects about 5.00 chs. dist., S. Desc. abruptly over sandstone ledges.
19.30	Ravine, 40 ft. below spur, course SW. Asc. abruptly over sandstone ledges.
27.30	Triangulation point on sandstone spur, 50 ft. above ravine, projects about 10.00 chs. dist., SW. Thence over rocky, broken mountainous land.
40.55	On rocky W. slope, 10 ft. above spur,
	Set an iron post, 3 ft. long, 1 in. dia., 14 ins. in the ground to bedrock, 12 ins. in a mound of stone, 1½ ft.

West
S. 59° 19' E.

Chains	
	base, for the ¼ cor. of secs. 7 and 18, with brass cap mkd.,
	S 7 ¼ —— S 18 1917
	from which,
	A cedar, 6 ins. dia., bears N. 58° E., 57 lks. dist., mkd., ¼ S 7 B T.
	A cedar, 16 ins. dia., bears S. 15° W., 64 lks. dist., mkd., ¼ S 18 B T.
	Thence asc. abruptly over series of sandstone ledges and broken, rocky foothills.
80.55	The cor. of secs. 7, 8, 17 and 18, 390 ft. above ¼ cor.
	Land, rough, rocky mountainous land, draining generally E. and W. to Coyote canyon, draining S.
	Soil, rocky, sandy clay loam, on sandstone bedrock.
	Timber, dense cedar and pinon.
	Undergrowth, scattered mountain rush, shadscale, rabbit-brush, sagebrush and bunch grass. Fair grazing.
	———
	N. 0° 03' W., on true line, bet. secs. 7 and 8.
	Over rough mountainous land, desc. gradually through scattered cedar and pinon timber and scattered mountain rush, shadscale, rabbit-brush, sagebrush and bunch grass undergrowth.
10.62	Broken, rocky clay spur, 20 ft. below sec. cor., projects N. 35° W. Desc. abruptly.
17.79	Set flag.
19.20	Ravine, 160 ft. below spur, course NW. Asc. abruptly.
34.60	Broken white clay spur, 90 ft. above ravine, projects N. 60° W. Desc. gradually.
40.00	On NE. slope, 50 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the ground to bedrock, 16 ins. in a mound of stone, 2 ft. base, for the ¼ cor. of secs. 7 and 8, with brass cap mkd.

Chains	
	$\frac{1}{4}$ S 7 | S 8 1917
	from which,
	A cedar, 8 ins. dia., bears S. 65° E., 57 lks. dist., mkd., $\frac{1}{4}$ S 8 B T.
	A cedar, 10 ins. dia., bears S. 86½° W., 38 lks. dist., mkd., $\frac{1}{4}$ S 7 B T.
	Desc. abruptly into ravine.
50.40	Ravine, 110 ft. below $\frac{1}{4}$ cor., course NW. Asc. abruptly.
72.50	Base of inaccessible sandstone ledges, bearing E. and W. It being impossible to chain over ledges, offset W. a distance of 2.32 chs., thence N. 0° 03' W., on offset line.
75.00	On offset line, clay and sandstone spur, 610 ft. above ravine, projects W. Desc. abruptly over sandstone boulders.
77.32	Offset E. 2.32 chs. dist., to true line, thence N. 0° 03' W., on true line.
80.00	On steep N. slope, 180 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. 5, 6, 7 and 8, with brass cap mkd., T 41 S R 1 E S 6 | S 5 S 7 | S 8 1917
	from which
	A pinon, 8 ins. dia., bears N. 65½° E., 112 lks. dist., mkd., T 41 S R 1 E S 5 B T.
	A cedar, 6 ins. dia., bears S. 85½° E., 34 lks. dist., mkd., T 41 S R 1 E S 8 B T.
	A cedar, 8 ins. dia., bears S. 19½° W., 45 lks. dist., mkd., T 41 S R1 E S 7 B T.
	A cedar, 6 ins. dia., bears N. 76° W., 89 lks. dist., mkd., T 41 S R 1 E S 6 B T.

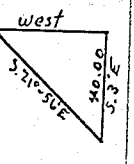
Chains	
	Land, rough mountainous, draining generally to the W.
	Soil, rocky, sandy, clay loam, on sandstone bedrock.
	Timber, scattered cedar and pinon.
	Undergrowth, scattered mountain rush, shadscale, sage-brush, rabbit-brush and bunch grass. Fair grazing.
	S. 89° 54' E., on random line, bet. secs. 5 and 8.
	It is impracticable to chain E. from this cor. on account of high sandstone ledges, therefore triangulate as follows, set a point on line, S. 89° 54' E., at top of ledges, as it is impossible to set up the instrument at this point on account of steep ledges, offset 33 lks. S. to a point 35 lks. S. of E. of the sec. cor., and from this point observe that the flag previously set 16.31 chs. N. of the cor. of secs. 5, 6, 7 and 8, bears N. 33° 55' W., the distance is then,
	16.66 x tan. 33° 55' or .67239 = 11.20 chs.
11.20	Triangulation point. Offset 33lks. dist. N. to random line
40.00	Set temp. point for the ¼ sec. cor.
60.18	On account of sandstone ledges, offset S. 8.21 chs. dist., thence S. 89° 54' E., on offset line.
80.10	Offset N. 8.21 chs. to true random line, and intersect the N. and S. line, 3 lks. S. of the cor. of secs. 4, 5, 8 and 9.
	Thence,
	N. 89° 55' W., on true line, bet. secs. 5 and 8.
	Over rough mountainous land, desc. abruptly over sandstone ledges, through dense cedar and pinon timber and scattered mountain rush, shadscale, sagebrush, rabbit-brush and bunch grass undergrowth.
	On account of sandstone ledges over which it is impracticable to chain offset S. 8.24 chs. to offset point thence N. 89° 55' W., on offset line.
13.32	Offset point, thence N. 8.24 chs. to true line and N. 89° 55' W., on true line.
26.50	Top rim of sandstone ledges, 80 ft. above sec. cor.

N.33° 55'W.
East

Subdivision of T: 41 S., R. 1 E.

Chains	
	bears NE. and SW. Thence asc. gradually over rocky broken mesa.
40.05	On rocky mesa, level with ledges,
	Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in the ground to bed rock, 18 ins. in a mound of stone, 3 ft. base, for the ¼ cor. of secs. 5 and 8, with brass cap mkd.,
	¼ S 5 / S 8
	1917
	from which
	A cedar, 4 ins. dia., bears N. 25¾° W., 65 lks. dist., mkd., ¼ S. 5 B T.
	A pinon, 5 ins. dia., bears S. 36° W., 17 lks. dist., mkd., ¼ S 8 B T.
	Desc. from ¼ cor.
53.00	Ravine, heads 10.00 chs. SE., 50 ft. below ¼ cor., course NW. Asc. gradually.
58.10	Ridge, 10 ft. above ravine, bears NW. and SE. Desc. abruptly over rocky SW. slope of mountain.
68.90	Triangulation point at top of ledges; 110 ft. below ridge, bear N. and S. Leave dense timber thence timber is scattered. Desc. abruptly over impassable sandstone ledges.
80.10	The cor. of secs. 5, 6, 7 and 8; 550 ft. below ledges.
	Land, rough mountainous, draining W. and NE.
	Soil, rocky, sandy clay loam, on sandstone bedrock.
	Timber, , dense cedar and pinon, except W. portion is scattered.
	Undergrowth, scattered mountain rush, shadscale, rabbitbrush, sagebrush and bunch grass: Poor grazing.

	N. 89° 59' W., on random line, bet. sec. 6 and 7.
	It is impracticable to chain W. from this sec. cor. therefore triangulate as follows, set a point W. of sec.



Chains	
	at base of mountain from which point observe that the ¼ cor. of secs. 7 and 8 bears S. 21° 56' E., distance is then,
	40.00 x tan. 21° 56' or .40267 - 4 lks. = 16.07 chs.
16.07	Triangulation point.
40.00	set temp. point for the ¼ sec. cor.
80.50	Intersect the W. bdy. of Tp. 21 lks. S. of the cor. of secs. 1, 6, 7 and 12, heretofore described.
	Thence,
	S. 89° 50' E., on true line, bet. secs. 6 and 7.
	Over rough mountainous land, asc. abruptly over sandstone ledges through scattered cedar and pinon timber and scattered mountain rush, shadscale, sagebrush, rabbit-brush and bunch grass undergrowth.
4.90	Sandstone spur, 60 ft. above sec. cor., projects SW.
	Thence over broken bench land. Cedar and pinon timber becomes dense, bears NE and SW.
22.60	Wash, 30 ft. below spur, 12 lks. wide, 6 ft. deep, drains S. 70° W. Asc. abruptly.
24.10	Broken sandstone spur, 50 ft. above wash, projects S. 10° W. Desc. gradually.
40.50	40 ft. below spur, on E. slope.
	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. bas
	for the ¼ cor. of secs. 6 and 7, with brass cap mkd.,
	¼ S 6 / S 7 1917
	from which
	A cedar, 12 ins. dia., bears N. 41½° W., 48 lks. dist., mkd., ¼ S 6 B T.
	A cedar, 10 ins. dia., bears S. 17° E., 146 lks. dist., mkd., ¼ S 7 B T.
	Desc. gradually.
46.70	Wash, 20 ft. below ¼ cor., drains S. 70° W., 8 lks. wide, 4 ft. deep.

Subdivision of T. 41 S., R. 1 E.

Chains	
	Triangulation point at
64.45	Base of high ledgy mountain, bears NE and SW. It is impracticable to chain farther on account of ledges.
80.50	The cor. of secs. 5, 6, 7 and 8, 400 ft. above the triangulation point.
	Land, rough mountainous, general drainage to S.
	Soil, rocky, shallow, sandy clay loam, on sandstone bedrock.
	Timber, dense cedar and pinon except W. portion which bears scattered cedar and pinon.
	Undergrowth, scattered mountain rush, shadscale, rabbit-brush, sagebrush and bunch grass. Fair grazing.

	N. 0° 03' W., on true line, bet. secs. 5 and 6.
	Over, rough mountainous land, desc. abruptly through scattered cedar and pinon timber and scattered mountain rush, shadscale, rabbit-brush, sagebrush and bunch grass undergrowth.
7.90	Ravine, 270 ft. below sec. cor., course NW.
16.31	Set flag 1 lk. E. of line. It is impracticable to chain farther N. on account of high sandstone ledges, and being unable to get a suitable base here, set a point at top of ledges, N. 0° 03' W., from which point the ¼ cor. of secs. 6 and 7 bears, S. 48° 47' W., the distance is then,
	39.97 x cotan. 48° 47' or .87535 + 12 lks. = 35.13 chs.
35.00	Rim of high broken mesa, 800 ft. above ravine, bears NE. and SW. Asc. gradually.
35.13	Triangulation point. Cedar and pinon timber becomes dense, bears with mesa.
40.00	On broken S. slope of mesa, 40 ft. above rim.
	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. 5 and 6, with brass cap mkd.,

S. 48° 47' W.
N. 89° 50' W.
39.97

Chains

$\frac{1}{4}$

S 6 | S 5

1917

from which

A pinon, 10 ins. dia., bears N. 24½° E., 150 lks. dist., mkd., $\frac{1}{4}$ S 5 S 6 T.

A pinon, 8 ins. dia., bears N. 41° W., 58 lks. dist., mkd., $\frac{1}{4}$ S 6 S 6 T.

80.10 Small broken sandstone spur, 40 ft. above $\frac{1}{4}$ cor., projects S. 20° W.. Desc. abruptly over sandstone ledges bearing E. and W.

80.43 Intersect the Eighth St.Par.S.73 lks. E. of the S. C. of secs. 31 and 32, heretofore described. At the intersection with ST. Par., 170 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 C. C. of secs. 5 and 6, with brass cap mkd.,

T 40 S R 1 E

S 32

S C | S 5

T 41 S R 1 E

C C

1917

from which

A pinon, 6 ins. dia., bears S. 32½° E., 116 lks. dist., mkd., C C T 41 S R 1 E S 5 S 6 T.

A pinon, 8 ins. dia., bears S. 71½° W., 33 lks. dist., mkd., C C T 41 S R 1 E S 6 S 6 T.

Land, rough mountainous and broken rocky mesa, drainage to the NW. and SW.

Soil, shallow, rocky, sandy clay loam, on sandstone bed rock.

Timber, dense cedar and pinon on N. portion, scattered cedar and pinon on S. portion.

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

Latitudes, Departures and Closing errors.

T. 41 S., R. 1 E.

Line Designated	Course	Distance Chs.	Latitudes N.Chs.	Latitudes S.Chs.	Departures E.Chs.	Departures W.Chs.
East Boundary.	North	485.57	485.57	.....	.....	.....
North Boundary.	West.	480.53	.....	.....	.	480.53
West Boundary.	South	485.31	.....	485.31	.....	.....
South Boundary.	East	480.74	.....	.....	480.74	.
Convergency					.	55
Totals			485.57	485.31	480.74	481.08
			485.31		.	480.74
Error in Lat.			.26			
Error in Dep.					.	.34

General Description of T. 41 S., R. 1 E.

The land embraced on the area of the township is in general very rugged mountainous and rocky, broken mesas, ranging from sheer sandstone cliffs and ledges to steep rocky, clay slopes and rocky, broken mesa, with general drainage East and west to Coyote canyon and Wahweap creek, both of which drain generally south.

No farming is possible anywhere in the township.

The soil on the township is mostly shallow, rocky, sandy clay loam, being mostly sandy loam on the mesas and more clay on the steep slopes. Everywhere the soil is on sandstone bedrock which is either almost bare or only a few inches below the surface.

Practically all of the township is covered with a dense growth of scrub cedar and pinon timber, on the steep slopes and along the bottom of Wahweap creek the timber is scattered.

Scattered growths of mountain rush, service-berry, sage-brush, shadscale, rabbit-brush, yellow-top occur within the township with a scanty or scattered growth of bunch grass. There is fair grazing on most all of the mesas and on the slopes that are not too rough.

Th ere are numerous indications of coal in the town-

ship. This coal is of a fair grade of bituminous and outcrops in small veins along most all of the ledges, the veins being usually only a few inches in thickness and are horizontal.

There are several small seep springs in the township as listed by locations below. Usually these seeps are good either for culinary or drinking purposes, except along Coyote canyon small seeps are found at numerous places which are heavily charged with alkali, gypsum and magnesia.

No evidence of other minerals were found.

No settlers were found in the township and no improvemer were found except a log fence across Coyote canyon in sec. 30. A natural bridge is located in sec. 5; not seen from line.

Locations of Water in the T. 41 S., R. 1 E.

W. ½ sec. 18. Coyote canyon.
NW. ¼ sec. 19, " "
SW. ¼ sec. 30 " "
NW. ¼ sec. 31 " "
SW. ¼ sec. 2. in box canyon.
SE. ¼ sec. 10. in box canyon.
Ne. ¼ sec. 26, " " "
NW. ¼ sec. 25, " " "
W. ½ sec. 36, " " "
E. ½ sec. 2, Wahweap creek. mostly seeps along bottom.
E. ½ sec. 11, " " " " " "
NE. ¼ sec. 14, " " " " " "
SW. ¼ sec. 13, " " " " " "
N. ½ sec. 24, " " " " " "

United States Surveyor.

BOOK A-433

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.

530 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, 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 Eighth St. Par. S., through R. 1 E.; the East boundary and subdivision of T. 41 S., R. 1 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 the dates shown on said di 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~~ Transitma

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,

_____, 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

4—680

BOOK 4-433

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.

.....

6—2761

U. S. Surveyor.

532

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 Eighth St. Par. S. through R. 1 E; the East boundary and subdivision of T. 41 S., R. 1 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further and index diagram on page 1 of same, and on dates shown on said diagr~~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 2-1916

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Oct. 15, 1918.

The foregoing field notes of the survey of the Eighth Standard Parallel South, through Range No. 1 East; the east boundary and subdivision of Township No. 41 South, Range No. 1 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, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

M. D. Thoresen
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ....., has been correctly copied from the original notes on file in this office.

.....
U. S. Surveyor General.