# Volume

# #

# R0444

U.S. Land Office Surveyor General's Office
JUL 23 1919
SALT LAKE CITY, UTAH

4—679

C

BOOK A-444

# FIELD NOTES

OF

RETRACEMENT AND RESURVEY OF

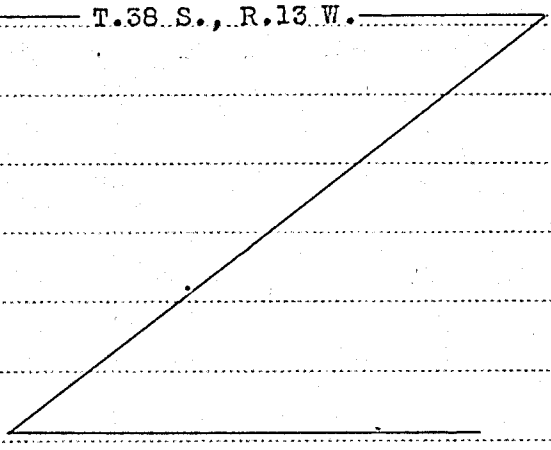
NORTH BOUNDARY, PART OF EAST BOUNDARY AND SUBDIVISIONS,

SURVEY OF

SOUTH AND WEST BOUNDARIES AND SUBDIVISIONS

OF

T.38 S., R.13 W.



*Of the* SALT LAKE BASE AND *Meridian,*

*In the State of* UTAH

EXECUTED BY

HUGO PRICE

AND

ELLIOT BIRD

*In the capacity of U. S. Surveyor* and Transitman *under instructions dated* May 22, *1916*, and supplemental special instructions, dated June 12, 1918, *issued by the United States Surveyor General to govern surveys included in Group No.* 57, *which were approved by the Commissioner of the General Land Office,* July 2, *1918*. Supplemental assignment instructions issued May 6, 1918, and March 29, 1918 and Oct. 10, 1918, respectively.

*Survey commenced* July 27, *1918.*

*Survey completed* October 31, *1918.*

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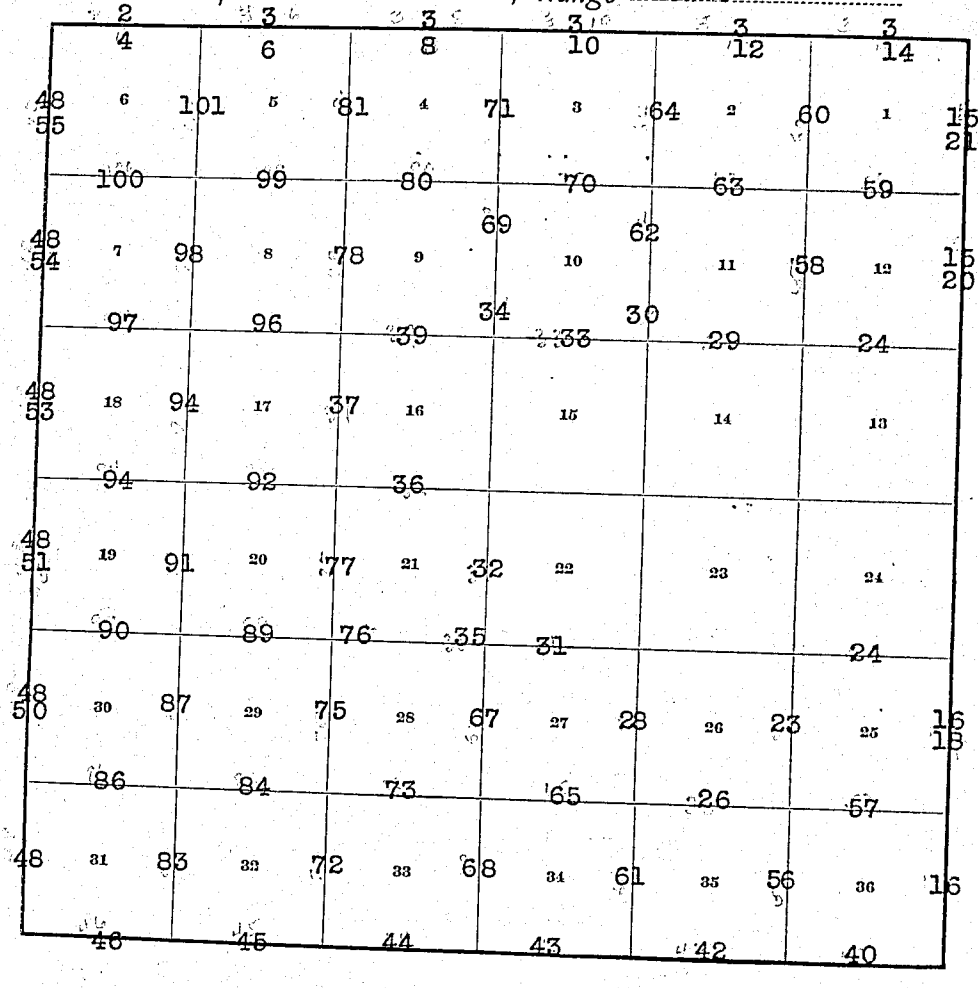
# INDEX DIAGRAM.

*Township* 38 S., *Range* 13 W.

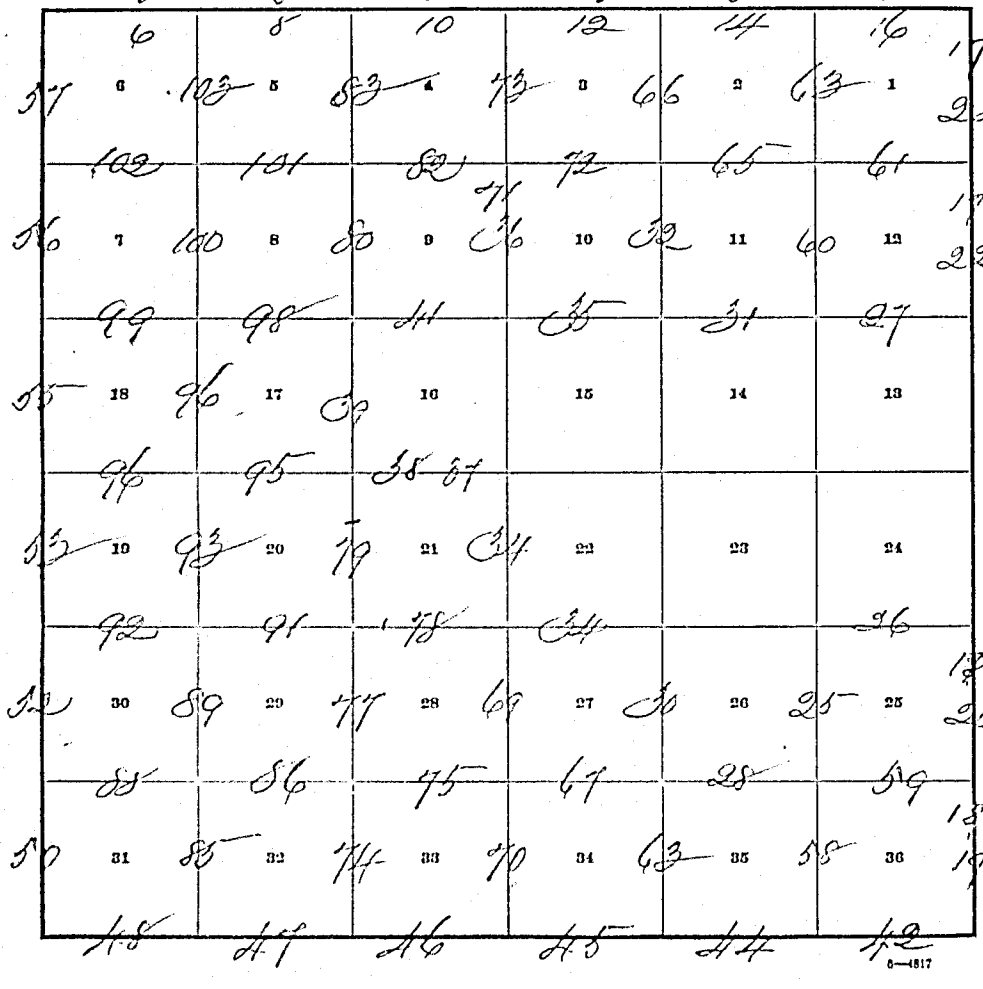


BOOK A-444

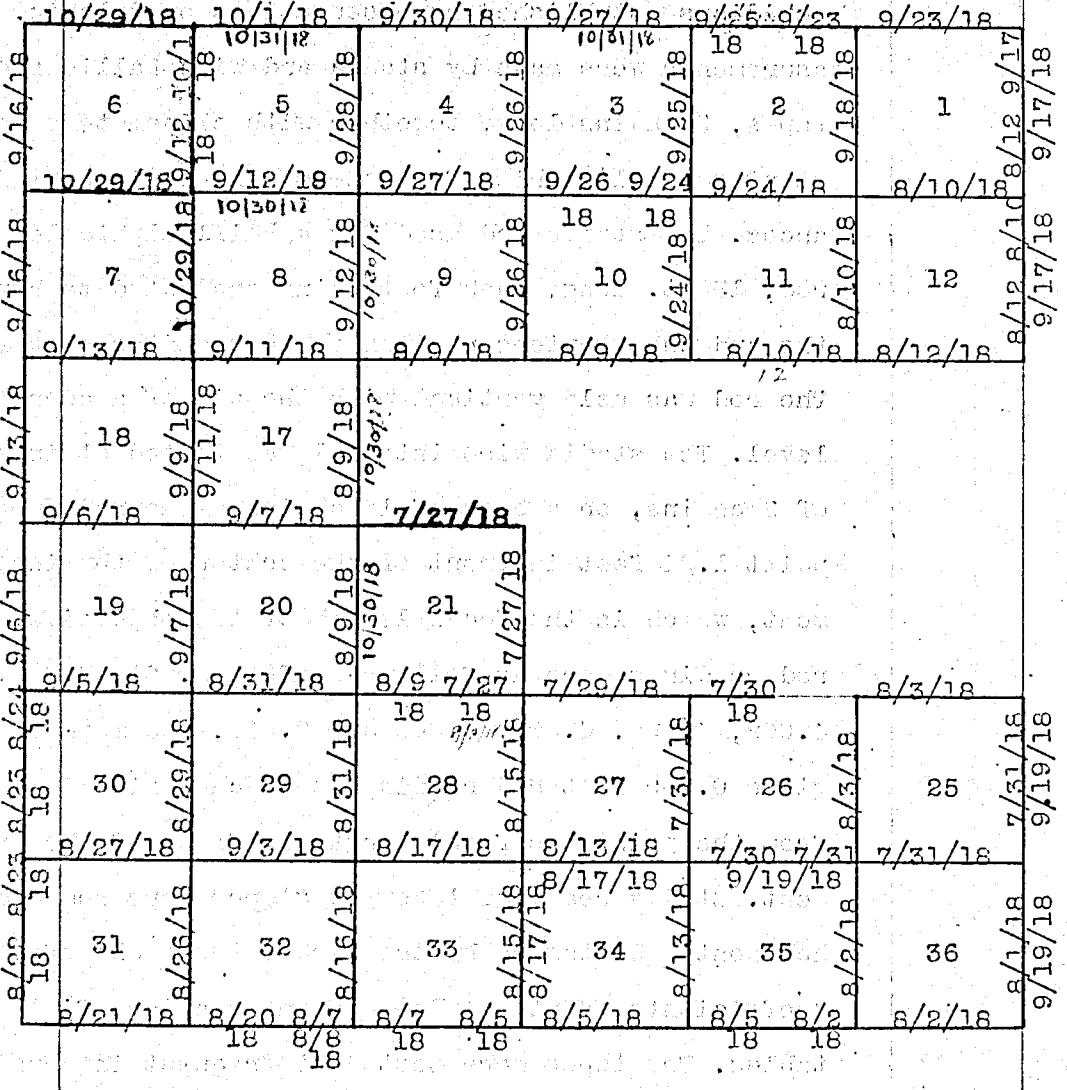
4—679 b

# INDEX DIAGRAM.

Township 38 S., Range 12 W.



Date Diagram T.38 S.,R.13 W.




All lines dated and colored black were surveyed by Hugo Price, U.S.Surveyor.

All lines dated and colored red were surveyed by Elliot Bird, U.S.Transitman.

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DESCRIPTION AND TEST OF INSTRUMENTS.

Survey commenced July 27, 1918, and was executed with Young and Sons light mountain transits, No. 8539 used by Hugo Price, U.S.Surveyor, and No. 8531 used by Elliot Bird, U.S.Transitman. Both instruments were

DESCRIPTION AND TESTS OF INSTRUMENTS.

provided with Smith Solar attachments.

For complete description, tests, and approval of instruments see the notes of the survey of T.40 S.,R.18 W.

Both instruments were kept in good adjustment throughout the survey and were tested at frequent intervals on meridians established by observations on Polaris.

Measurements were made by stadia and with Lallie steel tapes, 5 chains long, together with clinometers and standard field tables for determining horizontal distances. The stadia rod used was a Philadelphia level rod, 13 ft. long, each foot being graduated to hundredths and the verniers reading to thousandths of a foot. The rod was held vertical with the aid of a corner level. The stadia wire interval was tested at intervals of 2 chains, on a base of 16 chains, measured from a point 1.24 feet in front of the center of the instrument, which is the focal length of the objective. The rod readings were as follows- 1.000, 2.001, 3.000, 4.002, 4.998, 6.001, 7.002 and 8.001, the mean of which gives 0.500 foot rod reading for each chain distant from the point the focal length in front of the instrument. Stadia readings taken on slopes were reduced to horizontal distances by the use of the table of Stadia Coefficients, Vertical Rod, in the standard field tables. The tapes were tested at frequent intervals, comparison being made with a 1 chain tape, kept and used for that purpose only. Stadia wire interval test made weekly.

The magnetic bearing is N.16°15'W. which gives the magnetic declination as 16°15'E.

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## RETRACEMENT AND RESURVEY
## OF THE NORTH BOUNDARY OF T.38 S.,R.13 W.

From the corner of Ts.37 and 38 S.,Rs.13 and 14 W. which is a granite stone, 14x11 ins., firmly set and extending 10 ins. above the ground, marked and witnessed as

| Chains | |
|---|---|
| | described by the surveyor general. |
| | East, on retracement of line on the N. boundary of T. |
| 40.00 | Unable to find old ¼ cor. |
| 80.00 | Unable to find the old cor. of secs. 5,6,31 and 32. |
| 121.80 | Fall 20 lks.S. of point for ¼ cor. of secs. 5 and 32. |
| | The course of this 1½ miles is therefore N.89°54'E. and the distance is 121.80 chs. |
| | From the old ½ cor. of secs. 5 and 32. |
| | East, on retracement of line on the N. boundary of T. |
| 40.00 | Unable to find old cor. of secs. 4,5,32 and 33. |
| 80.83 | Fall 102 lks. N. of the old ¼ cor. of secs. 4 and 33. |
| | The course of this mile is therefore S.89°17'E. and the distance is 80.84 chs. |
| | From the old ½ cor. of secs. 4 and 33. |
| | East, on retracement of line on the N. boundary of T. |
| 40.00 | Unable to find the old cor. of secs. 3,4,33 and 34. |
| 80.00 | Unable to find old ½ cor. |
| 120.00 | Unable to find the old cor. of secs. 2,3,34 and 35. |
| 162.09 | Fall 126 lks. S. of the old ¼ cor. of secs. 2 and 35. |
| | The course of this 2 miles is therefore N.89°33'E. and the distance is 162.09 chs. |
| | From the old ½ cor. of secs. 2 and 35. |
| | East, on retracement line on the N. boundary of T. |
| 40.03 | Fall 112 lks. N. of the old cor. of secs. 1,2,35 and 36. |
| | The course of this half mile is therefore S.88°24'E. and the the distance is 40.04 chs. |
| | From the old cor. of secs. 1,2,35 and 36. |
| | East,on retracement of line on the N. boundary of T. |
| 40.28 | Fall 36 lks. N. of the old ½ cor. of secs. 1 and 36. |
| | The course of this half mile is therefore S.89°29'E. and the distance is 40.28 chs. |
| | From the old ½ cor. of secs. 1 and 36. |
| | East, on retracement of line on the N. boundary of T. |
| 40.28 | Fall 25 lks. N. of the cor. of Ts.37 and 38 S.,R.12 and 13 W. |
| | The course of this half mile is therefore S.89°39'E. and the distance is 40.28 chs. |

RETRACEMENT AND RESURVEY

OF THE NORTH BOUNDARY OF T.38 S.,R.13 W.

Chains

I now return to the cor. of T.38 S.,Rs.13 and 14 W. and destroy all marks and bearing trees referring to the townships on the S. making it the cor. of T.37 S., Rs. 13 and 14 W., only.

Thence

N.89°54'E., on resurvey of line on the S. boundary of sec. 31 of T.37 S.,R.13 W.

Over mountainous land, through dense cedar and pinon timber and oak and sage undergrowth.

5.40 Intersect the W. boundary of T.38 S.,Rs.13 and 14 W. At point of intersection

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of T.38 S.,Rs.13 and 14 W. only. with brass cap marked

S1 | S6
R14W | R13W
T38S
1918

From which

A pinon, 8 ins. diam., brs. S.66°E. 76 lks. dist. marked T 38 S R 13 W S 6 B T.

A pinon, 10 ins. diam., brs. S.69½°W. 45 lks. dist. marked T 38 S R 14 W S 1 BT.

14.40 Wash, 10 lks. wide, 3 ft. deep, course S. 100 ft. below cor. Ascend steep W. slope.

40.60 Proportional distance, 200 ft. above wash,

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the restored ¼ cor. of sec. 31 only, with brass cap marked

S31
¼

1918

From which

A pinon, 8 ins. diam., brs. N.17°E. 103 lks. dist., marked ¼ S 31 B T.

A pinon, 8 ins. diam., brs. N.52°W. 54 lks. dist., marked ¼ S 31 B T.

| Chains | |
|---|---|
| 43.40 | Point 40.00 chs. from the cor. of secs. 5 and 6, Set an iron post, 3 ft. long, 1 in. in diam., on solid rock, 26 ins. in a mound of stone, for the $\frac{1}{4}$ cor. of 6 only, with brass cap marked $\frac{\frac{1}{4}}{S6}$ 1918 From which A pinon, 8 ins. diam., brs. S.87°E. 33 lks. dist., marked $\frac{1}{4}$ S 6 B T. A pinon, 8 ins. diam., brs. S.2°W. 107 lks. dist., marked $\frac{1}{4}$ S 6 B T. |
| 69.20 | Top of Granite Mountain, brs. N.30°W. and S.30°E. 820 ft. above $\frac{1}{4}$ cor. Descend steep E. slope, over broken granite boulders, through scattering cedar and pinon timber and oak undergrowth. |
| 81.20 | Proportional distance, 340 ft. below top of Granite Mountain, Set an iron post, 3 ft. long, 2 ins. in diam., on solid rock, 24 ins. in a mound of stone, for the restored cor. of secs. 31 and 32 only, with brass cap marked, T37S \| R13W / S31 \| S32 1918 And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. From this cor. Kirkers double cabin bears N.35½°E. Land, rough mountainous, granite formation. SW. exposure and drainage on first 69 chs. E. exposure and drainage on remainder. Soil, coarse granite sandy loam and loose rocks. Timber, cedar and pinon, dense on W. portion, scattering on E. portion. Undergrowth, sage, oak, sallal, and manzanita brush. Fair grazing. |

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RETRACEMENT AND RESURVEY

OF THE NORTH BOUNDARY OF T.38 S.,R.13 W.

Chains

From the restored cor. of secs. 31 and 32.

N.29°54'E., on resurvey of line on S. boundary of sec. 32 of T.37 S.,R.13 W.

Descend over rough mountainous land, through medium growth of cedar and pinon timber and oak and sage undergrowth.

2.20 Intersect line bet. secs. 5 and 6. At point of intersection, Set an iron post, 3 ft. long, 2 ins. in diam., on solid rock, 26 ins. in a mound of stone, for the cor. of secs. 5 and 6, with brass cap marked

S6 | S5
T38S | R13W
1918

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

33.00 Descent becomes more gradual, leave large rocks and boulders.

40.60 970 ft. below sec. cor. Point for the old ¼ cor. of secs. 5 and 32. Old cor. had been destroyed but bearing tree was still standing and in good condition, therefore at N.30°W. 60 lks. dist. (record course and distance) from bearing tree I

Set an iron post, 3 ft. long, 1 in. in diam., on solid rock, 26 ins. in a mound of stone, for the restored ¼ cor. of sec. 32 only, with brass cap marked

S32
¼
1918

From which

A pinon, 5 ins. diam., brs. N.4°E. 93 lks. dist., marked ¼ S 32 B T.

A pinon, 6 ins. diam., brs. N.85°W. 59 lks. dist., marked ¼ S 32 B T.

I destroyed the old bearing tree which stood to the S. in sec. 5.

Thence

| Chains | |
|---|---|
| | S.89°17'E., with continuous measurement. |
| 42.20 | Point 40.00 chs. from the cor. of secs. 5 and 6. Set an iron post, 3 ft. long, 1 in. in diam., on solid rock, 26 ins. in a mound of stone, for the ¼ cor. of sec. 5 only, with brass cap marked, ¼ / S5 1918 From which A cedar, 6 ins. diam., brs. S.34°E. 63 lks. dist., marked ¼ S 5 B T. A pinon, 6 ins. diam., brs. S.61½°W. 34 lks. dist., marked ¼ S 5 B T. |
| 56.40 | Wagon road, brs. S. to New Harmony and N. to Kirker's double cabin. |
| 60.20 | Creek, 2 lks. wide, 3 ins. deep, course S. 170 ft. below ¼ cor. Ascend through dense cedar and pinon timber and sage and oak undergrowth. |
| 79.89 | Intersect line bet. secs. 4 and 5. At point of intersection, Set an iron post, 3 ft. long, 2 ins. in diam., on solid rock, 26 ins. in a mound of stone, for the cor. of secs. 4 and 5, with brass cap marked, S5 \| S4 T38S \| R13W 1918 From which A pinon, 10 ins. diam., brs. S.76¾°E. 53 lks. dist., marked T 38 S R 13 W S 4 B T. A cedar, 12 ins. diam., brs. S.74°W. 38 lks. dist., marked T 38 S R 13 W S 5 B T. |
| 81.02 | Proportional distance, 170 ft. above creek, Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock, and 12 ins. in a mound of stone, for the restored cor. of secs. 32 and 33 only, with brass cap marked |

RETRACEMENT AND RESURVEY

OF THE NORTH BOUNDARY OF T.38 S.,R.13 W.

Chains.

T37S | R13W
S32 | S33

1918

From which

A cedar, 12 ins. diam., brs: N63°E. 80 lks. dist., marked T 37 S R 13 W S 33 B T.

A cedar, 8 ins. diam., brs. N.11°W. 55 lks. dist., marked T 37 S R 13 W S 32 B T.

Land, mountainous. Granite formation. general S. exposure and drainage.

Soil, coarse clay loam with loose granite rocks.

Timber, heavy growth of cedar and pinon, on E.20.32 chs.; medium on balance.
Undergrowth, sage, oak, sallal and manzanita brush. Scant growth of grass, fair grazing.

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From the restored cor. of secs. 32 and 33.

S.89°17'E., on resurvey of line on S. boundary of sec. 33 of T.37 S.,R.13 W.

Over mountainous land, through dense cedar and pinon timber and sage and oak undergrowth.

2.90 Small ridge, 60 ft. above cor., brs. N. and S.

16.10 Wash, 30 lks. wide, 8 ft. deep, course S.15°E. 100 ft. below ridge.

34.10 White marble outcrop, brs. N. and S.

38.87 Point 40.00 chs. from the cor. of secs. 4 and 5, 200 ft. above wash,

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

$\frac{1}{4}$
S4
1918

From which

A cedar, 8 ins. diam., brs. S.47°W. 16 lks. dist., marked $\frac{1}{4}$ S 4 B T.

A pinon, 8 ins. diam., brs. S.60½°E. 42 lks. dist., marked $\frac{1}{4}$ S 4 B T.

RETRACEMENT AND RESURVEY

OF THE NORTH BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| 40.42 | The old ¼ cor. of secs. 4 and 33 which is a granite rock 12x10 ins., firmly set and extending 4 ins. above the ground, and marked and witnessed as described by the surveyor general. I destroyed the bearing tree referring to sec. 4 and reestablish the cor. as follows- |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the reestablished ¼ cor. of sec. 33 only, with brass cap marked |
| | S33<br>¼<br>1918 |
| | From which |
| | A pinon, 12 ins. diam., brs. N.13½°E. 37 lks. dist., marked ¼ S 33 B T. |
| | A pinon, 4 ins. diam., brs. N.65°W. 42 lks. dist., marked ¼ S 33 B T. |
| | Thence |
| | N.89°33'E., with continuous measurement. |
| 56.60 | Wash, 3 lks. wide, 1 ft. deep, course S. |
| 62.30 | Wash, 6 lks. wide, 1 ft. deep, course S.20°W. |
| 73.70 | Wagon road, brs. N.30°E. and S.30°W. |
| 78.40 | Wash, 10 lks. wide, 1 ft. deep, course S.20°W. |
| 79.54 | Intersect line bet. secs. 3 and 4. At point of intersection, 460 ft. above ¼ cor., |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to solid rock, and 12 ins. in a mound of stone, for the cor. of secs. 3 and 4 only, with brass cap marked, |
| | S4 \| S3<br>T38S \| R13W<br>1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high S. of cor. |
| 80.95 | Proportional measurement, 470 ft. above ¼ cor., |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to solid rock, and 8 ins. in a mound of stone, for the restored cor. of secs. 33 and 34 only, |

RETRACEMENT AND RESURVEY

OF THE NORTH BOUNDARY OF T.38 S.,R.13 W.

Chains.

With brass cap marked

| T37S | R13W |
|---|---|
| S33 | S34 |

1918

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

Land, mountainous, granite formation, general S. exposure and drainage.

Soil, coarse sandy loam and loose rocks.

Timber, heavy growth of cedar and pimon.

Undergrowth, oak, sage, manzanita and sallal brush. Fair grazing.

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From the restored cor. of secs. 33 and 34,

N.89°33'E., on resurvey of line on the S. boundary of sec. 34 of T.37 S.,R.13 W.

Ascend over mountainous land, through scattering cedar and pinon timber and dense oak and sage undergrowth.

19.00 Top of ridge, brs. N. and S, 230 ft. above cor.,leave timber and dense undergrowth. descend through scattering sage.

30.40 Wash, 50 lks. wide, 10 ft. deep, in canyon drains S. 300 ft. below ridge.

Ascend over open SW. slope.

38.59 Point 40.00 chs. from the cor. of secs. 3 and 4, on open SW. slope, 110 ft. above wash,

Set an iron post, 3 ft. long, 1 in. in diam., on solid rock, 26 ins. in a mound of stone, for the ¼ cor. of sec. 3 only, with brass cap marked,

¼
S 3

1918

From which

A pinon, 8 ins. diam., brs. S.33½°E. 120 lks. dist., marked ¼ S 3 B T.

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

RETRACEMENT AND RESURVEY

OF THE NORTH BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | No other bearing tree available. |
| 40.52 | Proportional measurement, |
| | Set an iron post, 3 ft. long, 1 in. in diam., on solid rock, 26 ins. in a mound of stone, for the restored ¼ cor. of sec. 34 only, with brass cap marked, |
| | S34 / ¼ / 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. |
| 49.10 | Spur, 40 ft. above ¼ cor., projects S.20°E. |
| 69.10 | Wash, 10 lks. wide, 3 ft. deep, in draw, drains S.30°E. 610 ft. below spur. |
| 73.00 | Point of spur, 40 ft. above wash, projects S.30°E. |
| 76.50 | Enter dense oak and maple undergrowth, brs. N. and S. |
| 78.40 | Spring branch, 2 lks. wide, 2 ins. deep, in canyon, drains S., 70 ft. below point of spur. |
| 79.24 | Intersect line bet. secs. 2 and 3. At point of intersection, |
| | Set an iron post, 3 ft. long, 2 ins. in diam., on solid rock, 24 ins. in a mound of stone, for the cor. of secs. 2 and 3 only, with brass cap marked, |
| | S3 \| S2 / T38S \| R13W / 1918 |
| | From which |
| | A cedar, 10 ins. diam., brs. S.65°E. 203 lks. dist., marked T 38 S R 13 W S 2 B T. |
| | An oak, 12 ins. diam., brs. S.47°W. 232 lks. dist., marked T 38 S R 13 W S 3 B T. |
| 81.04 | Proportional distance, 50 ft. above spring branch, |
| | Set an iron post, 3 ft. long, 2 ins. in diam., on solid rock, 24 ins. in a mound of stone, for the restored cor. of secs. 34 and 35, only, with brass cap marked, |
| | T37S \| R13W / S34 \| S35 / 1918 |
| | From which |

RETRACEMENT AND RESURVEY

OF THE NORTH BOUNDARY OF T.38 S.,R.13 W.

Chains

A cedar, 10 ins. diam., brs. N.82°W. 74 lks. dist., marked T 37 S R 13 W S 34 B T.

A cedar, 10 ins. diam., brs. N.71½°E, 186 lks. dist., marked T 37 S R 13 W S 35 B T.

Land, mountainous, granite formation, general S. exposure and drainage.

Soil, coarse sandy loam with loose rocks.

Timber, scattering cedar and pinon.

Undergrowth, oak, sage, manzanita, sallal and maple. Fair grazing.

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From the restored cor. of secs. 34 and 35, N.89°33'E., on resurvey of line on the S. boundary of sec. 35 of T.37 S.,R.13 W.

Ascend over mountainous land, through scattering cedar and pinon timber and dense oak and sage undergrowth.

27.40 Top of ridge, brs. N. and S. 740 ft. above cor.

Descend NE. slope through medium growth of cedar and pinon timber and dense oak and sage undergrowth.

38.20 Point 40.00 chs. from the cor. of secs. 2 and 3, 216 ft. below ridge.

Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground and 6 ins. in a mound of stone, for the ¼ cor. of sec. 2 only, with brass cap marked,

¼
S2
1918

From which

A red cedar, 12 ins. diam., brs. S.18½°E. 115 lks. dist., marked ¼ S 2 B T.

A cedar, 4 ins. diam., brs. S.62½°W. 73 lks. dist., marked ¼ S 2 B T.

40.52 The point for the old ¼ cor. of secs. 2 and 35. Old cor. had been destroyed but both bearing trees were standing and in good condition, therefore at record course and distance from the bearing trees I reestablish the cor. as follows-

RETRACEMENT AND RESURVEY

OF THE NORTH BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground and 14 ins. in a mound of stone, for the restored ¼ cor. of sec. 35 only, with brass cap marked, |
| | S35 ¼ |
| | 1918 |
| | From which |
| | A red cedar, 20 ins. diam., brs. N.20°W. 85 lks. dist., marked ¼ S 35 B T. This is the old B.T. which I re-marked. |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No other bearing tree available. |
| | Thence S. 88° 24' E. |
| 42.80 | Top of spur, 50 ft. above cor., projects S. |
| 53.10 | Wash, 30 lks. wide, 6 ft. deep, in canyon, course S.20°E. 220 ft. below spur. |
| 54.00 | Point of spur, 30 ft. above wash, projects S. |
| 55.30 | Wash, 25 lks. wide, 10 ft. deep, in canyon, course S.20°W. |
| | Ascend steep W. slope through dense oak, sallal, sage and manzanita undergrowth. |
| 75.50 | Top of spur, 470 ft. above wash, projects S. |
| 79.34 | Intersect line bet. secs. 1 and 2, At point of intersection, |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 1 and 2 only, with brass cap marked. |
| | S2 \| S1 |
| | T38S \| R13W |
| | 1918 |
| | From which |
| | A pinon, 10 ins. diam. brs. S.67¾°E. 98 lks. dist., marked T 38 S R 13 W S 1 B T. |
| | A pinon, 6 ins. diam., brs. S.46¾°W. 74 lks. dist., marked T 38 S R 13 W S 2 B T. |
| 80.56 | The old cor. of secs. 1,2,35 and 36 which is a granite stone, 18x10x5 ins., lying on the ground, marked 5 notches on 1 edge and 1 notch on opposite edge, and wit- |

Chains

nessed as described by the surveyor general. I destroyed the bearing trees to the S. and reestablish the cor. as follows-alongside of stone,

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

| T37S | R13W |
|---|---|
| S35 | S36 |

1918

From which

A pinon, 10 ins. diam., brs. N.85½°E. 75 lks. dist., marked T 37 S R 13 W S 36 B T.

And raise a mound of stone, 2 ft. base, 1½ ft. high, NE. of cor. Impracticable to place mound to N.

No other bearing tree available.

Land, mountainous, granite formation, general S. exposure and drainage.

Soil, coarse sandy clay loam and loose rocks.

Timber, scattering cedar and pinon.

Undergrowth, dense oak, sallal, manzamita and sage. Fair grazing.

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From the reestablished cor. of secs. 35 and 36, S.89°29'E., on resurvey of line on the S. boundary of sec. 36 of T.37 S.,R.13 W.

Descend over mountainous land, through scattering cedar and pinon timber and dense oak, sallal and manzanita undergrowth.

1.00 Cross head of landslide, brs. NE. and SW.

38.78 Point 40.00 chs. from the cor. of secs. 1 and 2,

Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground and 8 ins. in a mound of stone, for the ¼ cor. of sec. 1 only, with brass cap marked,

¼

S1

1918

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

RETRACEMENT AND RESURVEY

OF THE NORTH BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | of cor. |
| 40.28 | On top of ridge, 360 ft. below secs cor., brs. N.60°W. and S.60°E. The old ¼ cor. of secs. 1 and 36, which is a granite, 18x16x10 ins., lying on the ground, marked ¼ on top face. No accessories. I reestablished the cor. as follows- Set the old stone cor. 10 ins. in the ground, with ¼ on N. face, for the reestablished ¼ cor. of sec. 36 only, |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Thence, |
| | S.89°39'E., with comtinuous measurement. |
| | Descend across NE. slope of ridge, through dense oak and sage undergrowth. |
| 61.20 | Wash, 30 lks. wide, 3 ft. deep, in canyon, course SE. 340 ft. below ¼ cor. |
| 80.56 | The old cor. of Ts.37 and 38 S.,Rs.12 and 13 W, which is an iron post, 3 ins. in diam., firmly set and extending 12 ins. above the ground, marked and witnessed as described by the surveyor general. 130 ft. above wash. |
| | Land, mountainous, granite formation, general SE. exposure and drainage. |
| | Timber, scattering cedar and pinon. |
| | Soil, coarse sandy loam and loose rocks. |
| | Undergrowth, oak, sage, manzanita and sallal brush. Fair grazing. |

RETRACEMENT AND RESURVEY

OF THE EAST BOUNDARY OF T.38 S.,R.13 W.

| | |
|---|---|
| | From the old cor. of Ts.38 and 37 S.,Rs.12 and 13 W., South, on retracement of line bet. secs. 1 and 6. |
| 40.00 | Unable to find any trace of old ½ sec. cor. I continue my line S. and after diligent search I am unable to find any trace of the cor. of secs. 1,6,7 and 12 or the ¼ cor. of secs. 7 and 12. |
| 176.52 | Fall 73 lks. E. of the old cor. of secs. 7,12,13 and 18. |

RETRACEMENT AND RESURVEY

OF THE EAST BOUNDARY OF T.38 S.,R.13 W.

Chains

The course of this 2 miles is therefore S.0°14'W. and the distance is 176.32 chs.

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From the old cor. of secs. 19,24,25 and 30,

South, on retracement of line bet. secs. 25 and 30.

40.00 Unable to find old ¼ cor.

80.14 Fall 30 lks. E. of the old cor. of secs. 25,30,31 and 36.

The course of this mile is therefore S.0°15'W. and the distance is 80.14 chs.

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From the old cor. of secs. 25,30,31 and 36,

South, on retracement of line bet. secs. 31 and 31:

40.00 Unable to find old ¼ cor.

80.00 (Record course and distance) Unable to find the old cor. of Ts.38 and 39 S.,Rs.12 and 13 W. Therefore I set a temporary point which I designate as "A".

I now proceed to the east and being unable to find the old ¼ cor. of secs. 6 and 31 I continue to the cor. of secs. 5,6,31 and 32 on the S. boundary of Ts.38 and 39 S.,R.12 W. Thence I return W. record course and distances and set a point which I designate as "B". From point B point A brs. N.10°22'W. 2.39 chs. dist.

I now proceed to the south and being unable to find the old ¼ cor. of secs. 1 and 6 I continue to the cor. of secs. 1,6,7 and 12 on the east boundary of T.39 S.,R.13 E. Thence I return N. record course and distance bet. secs. 1 and 6 and set a point which I designate as "C". From point C point A brs. N.14°27'E. 4.04 chs. dist. and point B brs. N.42°32'E. 2.13 chs. dist.

The true point for the cor. of Ts.38 and 39 S.,Rs.12 and 13 W. is therefore S. 2.00 chs. and W. 20 lks. from point A. This point falls in the E. bank of a wash 8chs wide and 5 ft. deep where it would be destroyed therefore I reestablish the cor. as follows- At a point 99 lks. N. of the true point for cor.,

Set an iron post, 2 ft. long, 2 ins. in diam., 24 ins. in

RETRACEMENT AND RESURVEY

OF THE EAST BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | the ground, for the witness cor. to the restored cor. of Ts.38 and 39 S.,Rs.12 and 13 W., with brass cap marked, |
| | T38S<br>R13W \| R12W<br>S36 \| S31<br>S1 \| S6<br>T39S<br>WC<br>1918 |
| | From which |
| | A cedar, 10 ins. diam., brs. N.9¼°W. 293 lks. dist., marked T 38 S R 13 W S 36 W C B T. |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high. S. of cor. |
| | No other suitable bearing trees available. |
| | The course of this mile is therefore N.0°09'E. and the distance is 82.09 chs. |
| | From the true point for the restored cor. of Ts.38 and 39 S.,Rs.12 and 13 W., |
| | N.0°09'E., on resurvey of line bet. secs. 31 and 36. |
| | Over nearly level land, through cultivated fields. |
| .89 | The witness cor.to Cor.Ts.38 and 39 S.Rs.12 and 13 W. |
| 7.20 | SE. bank of wash, 5 ft. deep, course S.20°W. |
| 13.20 | NW. bank of wash, course S.20°W. Enter alfalfa field. |
| 41.04½ | Proportional measurement, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the restored ¼ cor. of sec. 31 only, with brass cap marked, |
| | ¼S31<br>1918 |
| | In alfalfa field. No accessories. And set a cedar post, 6 ft. long, 5 ins. in diam., and extending 4½ ft. above the ground, alongside iron post. |
| 43.30 | Wagon road, brs. N.30°E. and S,30°W. |
| 45.69 | Point 40.00 chs. from the cor. of secs. 25 and 36, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor. of sec. of sec. 36 only, with brass cap marked |
| | S36 ¼<br>1918 |

RETRACEMENT AND RESURVEY

OF THE EAST BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | In alfalfa field. No accessories. And set a cedar post, 6 ft. long, 6 ins. diam., and extending 4½ ft. above the ground, alongside of iron post. |
| 78.00 | Enter dense oak brush, brs. NW. and SE. |
| 82.09 | The old cor. of secs. 25,30,31 and 36, which is a limestone, 4x16 ins. firmly set and extending 8 ins. above the ground, marked and witnessed as described by the surveyor general. I destroyed all marks and accessories referring to secs. 25 and 30 and reestablish the cor. as follows- Alongside of old stone, |
| | Set an iron post, 3 ft. long. 2 ins. in diam., 24 ins. inn the ground, for the reestablished cor. of secs. 30 and 31 only, with brass cap marked |
| | T38S<br>S30<br>S31<br>R12W<br>1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| | Land, nearly level cultivated fields. General S. exposure and drainage. |
| | Soil, good quality sandy loam. |
| | Timber, few scattering cottonwoods along banks of wash. |
| | Undergrowth, dense oak on N. 4 chs. |
| | ---------- |
| | From the reestablished cor. of secs. 30 and 31, |
| | N.0°13'E., on resurvey of line on W. boundary of sec. 30 of T.38 S.,R.12 W. |
| | Over nearly level land, through dense oak and sage underbrush. |
| 3.00 | Enter scattering cedar and pinon timber, brs. E. and W. |
| 3.60 | Intersect line bet. secs. 25 and 36, At point of intersection, |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to solid rock, and 6 ins. in a mound of stone, for the cor. of secs. 25 and 36, with brass cap |

RETRACEMENT AND RESURVEY OF THE

EAST BOUNDARY OF T. 38 S., R. 13 W.

| Chains. | |
|---|---|
| | marked<br>T38S \| S25<br>S36 \| R13W<br>1918 |
| | from which |
| | A cedar 4 ins.diam., bears S. 54° W. 13 lks.dist. marked T 38 S R 13 W S 36 B T |
| | A cedar 6 ins.diam., bears N. 14° W. 48 lks.dist. marked T 38 S R 13 W S 25 B T |
| 18.75 | Barbed wire fence bears N. 15° E. and S. 15° W. |
| 21.00 | Barbed wire fence bears E. and W. Leave timber, bears E. and W. Enter open field. |
| 24.10 | Wash, 20 lks.wide, 10 ft.deep, course E. |
| 41.07 | Proportional measurement, |
| | Set an iron post, 3 ft.long, 1 in.in diam., 26 ins.in the ground, for the restored ¼ cor.of secs.25 and 30, with brass cap marked |
| | S25 \| ¼ \| S30<br>1918 |
| | from which |
| | A cedar, 16 ins.diam., bears N. 52¼° E. 168 lks. dist., marked ¼ S 30 B T |
| | A cedar 10 ins.diam., bears N. 60½° W. 433 lks. dist., marked ¼ S 25 B T |
| 46.50 | Enter dense cedar and pinon timber bears NW. and SE. |
| 75.00 | Wash, 12 lks.wide, 4 ft.deep, course S. 10° E. |
| 82.14 | The old cor.of secs.19, 24, 25, and 30, which is a limestone 16 x 10 ins.firmly set and extending 8 ins.above the ground, marked and witnessed as described by the surveyor general. |
| | Land, nearly level. General SE. exposure and drainage. |
| | Soil, good quality sandy loam. |
| | Timber, cedar and pinon. Undergrowth oak and sage. |

From the old cor.of secs.7, 12, 13, and 18, which is a

RETRACEMENT AND RESURVEY OF THE

EAST BOUNDARY OF T. 38 S., R. 13 W.

Chains.

granite, 10x8 ins., extending 4 ins. above the ground, firmly set and marked and witnessed as described by the surveyor-general.

N. 0° 14' E. on resurvey of line on W. boundary of Sec. 7 of T. 38 S., R. 12 W.

Over mountainous land; through dense cedar and pinon timber and scattering oak and sage undergrowth.

44.13 Proportional measurement,

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for the restored $\frac{1}{4}$ cor. of sec. 7 and W.S. of sec. 12, with brass cap marked

$\frac{1}{4}$
S12 | S7
1918 from which

A cedar 8 ins. diam., bears S. 69$\frac{3}{4}$°E. 25 lks. dist. marked $\frac{1}{4}$ S 7 B T

A cedar 10 ins. diam., bears S. 89° W. 61 lks. dist. marked $\frac{1}{4}$ S 12 B T

Note: While this corner is marked for Sec. 12, it is intended to be a witness quarter section corner, the true point for the quarter section corner of Sec. 12 being S. 0° 14' W. 4.27 chs. distant.

47.00 Low ridge, 80 ft. above sec. cor., bears N. 60° E. and S. 60° W. Leave dense timber, bears E. and W.

62.20 Wash, 20 lks. wide, 4 ft. deep, course S. 30° W. 50 ft. below ridge. Ascend across SE. slope of low ridge; through dense oak and sage undergrowth.

79.72 Intersect line bet. secs. 1 and 12. At point of intersection

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 1 and 12 only, with brass cap marked

T38S |
S1 |
S12 |
R13W |
1918

from which

A cedar, 6 ins. diam., bears N. 12° W. 113 lks. dist.

| Chains | |
|---|---|
| | marked T 38 S R 13 W S 1 B T. |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | No other bearing tree available. |
| 83.30 | Ridge, 50 ft. above cor., brs. S.10°W. and N. |
| | Ascend across W. slope of ridge. |
| 88.26 | Proportional measurement, |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the restored cor. of secs. 6 and 7 only, with brass cap marked, |
| | T38S<br>S6<br>S7<br>R12W<br>1918 |
| | From which |
| | A cedar, 6 ins. diam., brs. S.7°E. 75 lks. dist., marked T 38 S R 12 W S 7 B T. |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| | No other bearing tree available. |
| | Land, rolling mountainous, general S. exposure and drainage. |
| | Soil, poor quality clay loam with loose rocks. |
| | Timber, dense cedar and pinon on S. portion, |
| | Undergrowth, dense oak, sage, sallal and manzanita. Fair grazing. |
| | From the restored cor. of secs. 6 and 7, |
| | N.0°14'E., on resurvey of line bet. secs. 1 and 6. |
| | Ascend gradually over rolling mountainous land, through medium growth of sage and oak undergrowth. |
| 31.46 | Point 40.00 chs. from the cor. of secs. 1 and 12, on top of ridge, 260 ft. above cor., brs. N. and SE. |
| | Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground; to solid rock and 14 ins. in a mound of stone, for the ¼ cor. of sec. 1 only, with brass cap marked, |

RETRACEMENT AND RESURVEY

OF THE EAST BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | S1 ¼ \| 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Continue ascent across head of draw. |
| 42.50 | Spur, projects S.60°E., 120 ft. above ¼ cor. sec. 1. |
| 44.13 | Proportional measurement, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to solid rock and 14 ins. in a mound of stone, for the restored ¼ cor. of sec.6 only, with brass cap marked, |
| | ¼ S6 \| 1918 |
| | From which |
| | A cedar,limb, 8 ins. diam., brs. S.52°E. 215 lks. dist., marked ¼ S 6 B T. |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| | No other bearing tree available. |
| 50.40 | Head of wash, in draw, drains E. 160 ft. below ¼ cor. sec. 6. |
| 62.80 | Spur, projects NE. 120 ft. above wash. |
| 78.10 | Wash, 15 lks. wide, 3 ft. deep, course E. 200 ft. below spur. |
| 88.26 | The cor. of Ts.38 and 37 S.,Rs.12 and 13 W., heretofore described. 110 ft. above wash. |
| | Land, rolling mountainous, general S. exposure and drainage. |
| | Soil, poor quality clay loam and loose rocks. |
| | Timber, scattering cedar and pinon. |
| | Undergrowth, oak, sage manzanita and sallal. Fair grazing. |

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RETRACEMENT AND RESURVEY

OF SUBDIVISIONS OF T.38 S.,R.13 W.

From the old cor. of secs. 25,26,35 and 36, which is a limestone, 12x10x9 ins., poorly set in a mound of stone

RETRACEMENT AND RESURVEY

OF SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | marked 1 notch on S. and E. edges, and witnessed by a dilapidated mound of stone, W. of cor. I reestablish cor. as follows- alongside of stone cor., |
| | Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, to solid rock, and 12 ins. in a mound of stone, for the reestablished cor. of secs. 25.26,35 and 36, with brass cap marked |
| | T38S R13W<br>S26 \| S25<br>S35 \| S36<br>1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Thence |
| | North, on retracement of line bet. secs. 25 and 26. |
| | Over rolling land, through dense sage and black brush. |
| 40.06 | Fall 9 lks. E. of old ¼ cor. which is a granite, 7x7 ins. firmly set and extending 6 ins. above ground, marked ¼ on W. face. No accessories. I raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | The course of this half mile is therefore N.0°08'W. and the distance is 40,06 chs. |
| | Thence on same transit line, with continuous measurement. |
| 59.30 | Barbed wire fence, brs. E. and W. |
| 76.15 | Wash, 25 lks. wide, 7 ft. deep, course SW. |
| 80.30 | Fall 11 lks. W. of the old cor. of secs. 23,24,25 and 26, which is a granite, 10x8 ins. firmly set and extending 7 ins. above ground, marked 2 notches on S. and 1 notch on E. edges. No accessories. I raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | The course of this half mile is therefore N.0°17'E. and the distance is 40.24 chs. |
| | Land, gently rolling, S. exposure and drainage. |
| | Soil, coarse gravelly loam. |
| | Timber, none. |
| | Undergrowth, sage, black and oak brush. Poor grazing. |

RETRACEMENT AND RESURVEY

OF SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | From the cor. of secs. 23,24.25 and 26, |
| | East, on retracement of line bet. secs. 24 and 25. |
| | Over gently rolling land, through dense sage and oak brush. |
| 40.00 | Unable to find old ¼ cor. |
| 80.34 | Fall 188 lks. N. of the cor. of secs. 19,24,25 and 30, heretofore described. |
| | The course of this mile is therefore S.88°39'E. and the distance is 80.36 chs. |
| | Thence |
| | N.88°39'W, on resurvey of line bet. secs. 24 and 25. |
| | Over rolling land, through dense cedar and pinon timber, and sage and oak undergrowth. |
| 27.40 | Telephone line, brs. N.30°W. and S.30°E. |
| 40.18 | Proportional measurement, |
| | Set a limestone, 14x12x8 ins. 10 ins. in the ground, marked ¼ on the N. face, for the restored ¼ cor., |
| | From which |
| | A cedar, 12 ins. diam., brs. N.64½°W. 71 lks. dist., marked ¼ S 24 B T. |
| | A cedar, 8 ins. diam., brs. S.54¾°E. 90 lks. dist., marked ¼ S 25 B T. |
| 47.30 | Approximate, top of low ridge, brs. N. and S. 90 ft. above sec. cor. |
| 77.54 | Wash, 15 lks. wide, 5 ft. deep, course S.30°W. leave timber, brs. N. and S. |
| 79.00 | Wash, 25 lks. wide, 6 ft. deep, course S.20°W. |
| 80.20 | Road, brs. N. to New Harmony and S. to St. George. |
| 80.36 | The cor. of secs. 23,24,25 and 26. 80 ft. below ridge. |
| | Land, gently rolling. E. exposure and drainage on E. 47.30 chs., W. exposure and drainage on remainder. |
| | Soil, heavy clay loam and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, sage, oak and black brush. Poor grazing. |
| | --- |
| | From the cor. of secs. 11,12,13 and 14, which is a granite, 10x8x7 ins., marked 4 notches on 1 edge and 1 notch on |

| Chains | |
|---|---|
| | other edge, and lying on the ground by field corner fence post. No accessories. I reestablish the cor. as follows- alongside stone and also alongside cedar post at corner of field, |
| | Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for the reestablished cor. of secs. 11,12, 13 and 14, with brass cap marked, |
| | T38S R13W<br>S11 \| S12<br>S14 \| S13<br>1918 |
| | Accessories impracticable. |
| | -Thence---------- |
| | East, on retracement of line bet. secs. 12 and 13. |
| | Over level land, through dense sage. |
| 14.00 | Enter dense cedar and pinon timber, brs. N. and S. |
| 33.70 | Wash, 10 lks. wide, 3 ft. deep, course S. |
| 36.70 | Wash, 12 lks. wide, 3 ft. deep, course S. |
| 40.49 | Intersect the old ¼ cor. which is a limestone, 18x14x7 ins. lying on the ground and marked ¼ on under face. No accessories. I reestablish the cor. as follows- alongside stone cor. which I set 10 ins. in the ground with ¼ on N. face, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, to solid rock, and 8 ins. in a mound of stone for the reestablished ¼ cor., with brass cap marked, |
| | S12<br>¼<br>S13<br>1918 |
| | From which |
| | A cedar, 6 ins. diam., brs. N.52°W. 99 lks. dist., marked ¼ S 12 B T. |
| | A pinon, 12 ins. diam., brs. S.44°W. 74 lks. dist., marked ¼ S 13 B T. |
| | The course of this half mile is therefore East and the distance is 40.49 chs. |
| | Thence |

| Chains | |
|---|---|
| | East, with continuous measurement. |
| 55.60 | Wash, 75 lks. wide, 3 ft. deep, course S. |
| 71.00 | Wash, 150 lks. wide, 4 ft. deep, course S. |
| 81.15 | Fall 53 lks. S. of the cor. of secs. 7,12,13 and 18. |

The course of this half mile is therefore N.89°14'E. and the distance is 40.66 chs.

Land, level; S. exppsure and drainage.

Soil, fair grade clay loam.

Timber, dense cedar and pinon on E. 67 chs.

Undergrowth, dense sage and scattering oak brush. Fair grazing.

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From the cor. of secs. 26,27,34 and 35, which is a granite, 24x10x6 ins., poorly set in a mound of stone, and witnessed by 2 bearing trees, the marks on which were almost obliterated. Stone cor. marked 1 notch on S. and 2 notches on E. edges. I reestablish the cor. as follows-

alongside of stone cor.,

Set an iron post, 3 ft. long, 2 ins. in diam., on solid rock, 24 ins. in a mound of stone, for the reestablished cor. of secs. 26,27,34 and 35, with brass cap marked,

T38S R13W

| S27 | S26 |
|---|---|
| S34 | S35 |

1918

From which

A cedar, 10 ins. diam., brs. N.66°E. 44 lks. dist., marked T 38 S R 13 W S 26 B T.

A cedar, 10 ins. diam., brs. S.22°E. 31 lks. dist., marked T 38 S R 13 W S 35 B T.

A cedar, 14 ins. diam., brs. S. 61¼°W. 29 lks. dist., marked T 38 S R 13 W S 34 B T.

A cedar, 24 ins. diam., brs. N.23¾°W. 27 lks. dist., marked T 38 S R 13 W S 27 B T.

Thence

East, on retracement of line bet. secs. 26 and 35.

| | |
|---|---|
| 40.00 | (Record course and distance) Unable to find old ¼ cor. im- |

RETRACEMENT AND RESURVEY

OF SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| 80.82 | Fall 16 lks. S. of the reestablished cor. of secs. 25, 26,35 and 36. |
| | The course of this mile is therefore N.89°53'E. and the distance is 80.82 chs. |
| | Thence |
| | S.89°53'W., on resurvey of line bet. secs. 26 and 35. |
| | Over rolling land, through dense sage and black brush. |
| 12.50 | Small draw, drains S. 30 ft. below cor. |
| 23.60 | Top of low ridge, brs. N. and S. 175 ft. above draw. |
| 29.10 | Ash creek, 10 lks. wide, 4 ins. deep, course S. 100 ft. below ridge. |
| | Ascend gentle E. slope through dense oak brush. |
| 40.41 | Proportional measurement, 100 ft. above creek, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, to solid rock and 16 ins. in a mound of stone, for the restored $\frac{1}{4}$ cor. of sec. 26 only, with brass cap marked, |
| | $\frac{S26}{\frac{1}{4}}$ |
| | 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 40.82 | Point 40.00 chs. from the cor. of secs. 26,27,34 and 35, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, to solid rock, and 8 ins. in a mound of stone, for the $\frac{1}{4}$ cor. of sec. 35 only, with brass cap marked |
| | $\frac{\frac{1}{4}}{\frac{S35}{1918}}$ |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. |
| 80.82 | The reestablished cor. of secs. 26,27,34 and 35. 130 ft. above $\frac{1}{4}$ cor. |
| | Land, rolling; S. exposure and drainage on E. 29 chs., E. exposure and drainage on remainder. |
| | Soil, heavy clay loam with loose rocks. |

RETRACEMENT AND RESURVEY

OF SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | Timber, scattering cedar and pinon on W. 3 chs. |
| | Undergrowth, dense oak, sage and black brush. |
| | From the reestablished cor. of secs. 26,27,34 and 35, North, on retracement of line bet. secs. 26 and 27. |
| | Descend NE. slope, through cedar and pinon timber and oak and sage undergrowth. |
| 40.61 | Fall 5 lks. E. of the old ¼ cor., which is a surface granite, 40x30 ins. and extending 15 ins. above ground, and marked and witnessed as described by the surveyor general. |
| | The course of this half mile is therefore N.0°04'W. and the distance is 40.61 chs. |
| | Thence |
| | North, from ¼ cor., with continuous measurement. |
| 41.33 | Wash, 20 lks. wide, 3 ft. deep, course NE. |
| 41.83 | Rock fence, brs. E. and W. Enter cultivated fields. |
| 52.00 | Ash creek, 12 lks. wide, 4 ins. deep, course SE. 110 ft. below sec. cor. |
| 80.61 | Point 40.00 chs. N. (Record course and distance) from the ¼ cor., in plowed field, I am unable to find sec. cor. Therefore I set a temporary point which I designate as "A" I now proceed to the W. and at 40.00 chs. I am unable to find the ¼ cor. so continue to the cor. of secs. 21,22, 27 and 28. Thence I return E. 80.00 chs. (record course and distance) and set a point which I designate as "B" |
| | From point B, point A brs. S.62°06'E. 1.54 chs. dist. |
| | I now proceed to the N. and at 40.00 chs. I am unable to find the ¼ cor. so continue to the cor. of secs. 14,15, 22 and 23. Thence I return S. 80.00 chs. (record course and distance) and set a point which I designate as "C" |
| | From point C, point B brs. S.76°51'W. 1.10 chs. dist. |
| | I now proceed to the E. to the ¼ cor. of secs. 23 and 26. Thence I return S.89°50'W. 39.91 chs. (record course and distance) and set a point which I designate as "D" |
| | From point D, point C brs. N.52°10'W. 1.19 chs. dist. and point A brs. S.69°44'W. 70 lks. dist., Therefore at a |

Chains

point, 36 lks. N. and 4 lks. W. from point "A", I
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for the restored cor. of secs. 22,23,26 and
27, with brass cap marked,

T38S R13W

| | |
|---|---|
| S22 | S23 |
| S27 | S26 |

1918

From which

A cedar, 8 ins. diam., brs. S.1½°W. 453 lks. dist.,
marked T38 S R 13 W S 27 B.T.

A cedar, 8 ins. diam., brs. N.3½°W. 305 lks. dist.,
marked T 38 S R. 13 W S 22 B.T.

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

No other bearing trees available.

Therefore at

80.97 Fall 4 lks. E. of the restored cor. of secs. 22,23,26 and
27.

The course of this half mile is therefore N.0°03'W. and
the distance is 40.36 chs.

Land, gentle slope on S 52 chs., remainder cultivated
fields.

Soil, coarse gravelly loam on S. 52 chs., good quality
--loam on remainder of mile.----------

Timber, cedar and pinon on S. 52 chs.

Undergrowth, oak and sage.

---

From the cor. of secs. 10, 11,14 and 15,
S.89°53'E., on retracement of line bet. secs. 11 and 14.

40.14 (Record course and distance) Unable to find old ¼ cpr.

80.90 Fall 7 lks. N. of the reestablished cor. of secs. 11,12,
13 and 14.

The course of this mile is therefore S.89°50'E. and the
distance is 80.90 chs.

Thence

N.89°50'W., on resurvey of line bet. secs. 11 and 14.

RETRACEMENT AND RESURVEY

OF SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | Over level land, through cultivated fields. |
| 34.20 | Barbed wire fence, brs. N. and S. |
| 40.45 | Proportional measurement, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the restored $\frac{1}{4}$ cor., with brass cap marked, $\frac{S11}{\frac{1}{4}}$ / S14 / 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 52.30 | Reservoir, on line, 30 lks. wide, 30 lks. long, 1½ ft. deep. Cement water trough 40 lks. N. of line here. |
| 53.40 | Mathis' lumber barn brs. S. about 2 chs. dist. |
| 54.00 | Enter dense cedar and pinon timber, brs. SW. and NE. |
| 80.90 | The cor. of secs. 10,11,14 and 15, which is a granite, 18x15 ins., firmly set and extending 10 ins. above ground, marked and witnessed as described by the surveyor general. |
| | Land, level; S. exposure and drainage. |
| | Soil, good quality clay loam. |
| | Timber, cedar and pinon on W. 26.90 chs. |
| | Undergrowth, sage, black brush and sunflowers. |
| | From the cor. of secs. 10,11,14 and 15, North, on retracement of line bet. secs. 10 and 11. S. half. |
| | Over level land, through dense cedar and pinon timber and dense sage undergrowth. |
| 20.15 | Barbed wire fence, brs. E. and W. |
| 35.19 | Wash, 15 lks. wide, 2 ft. deep, course S.10°E. |
| 40.00 | (Record course and distance) Unable to find old $\frac{1}{4}$ cor. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the restored $\frac{1}{4}$ cor., with brass cap marked $\frac{1}{4}$ / S10 \| S11 / 1918 |

Chains.

from which

A cedar, 6 ins. diam., bears N. 71° E. 59 lks. dist., marked $\frac{1}{4}$ S 11 B T

A cedar, 6 ins. diam., bears S. 47$\frac{3}{4}$° W. 65 lks. dist., marked $\frac{1}{4}$ S 10 B.T

Elevation 175 ft. above sec. cor.

Land, fairly level; gentle S. slope.

Timber, dense cedar and pinon.

Undergrowth, sage and black brush.

Soil, fair quality loam with some loose rocks.

---

The line bet. secs. 22 and 27 having been retraced for the re-establishment of the cor. of secs. 22, 23, 26, and 27, I know that the course is S. 89° 43' E. and the distance 81.32 chs. Therefore from the cor. of secs. 21, 22, 27, and 28, which is a limestone 20 x 12 x 10 ins. poorly set in a mound of stone, and marked as described by the surveyor general; no accessories. I re-establish the cor. as follows, alongside of stone cor.

Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground and 10 ins. in a mound of stone, for the re-established cor. of secs. 21, 22, 27, and 28, with brass cap marked

T 38 S R 13 W

| S 21 | S 22 |
|---|---|
| S 28 | S 27 |

1918

from which

A cedar, 6 ins. diam., bears S. 23$\frac{3}{4}$° E. 97 lks. dist., marked T 38 S R 13 W S 27 B T

A cedar, 9 ins. diam., bears S. 22$\frac{3}{4}$° W. 230 lks. dist., marked T 38 S R 13 W S 28 B T

A cedar 6 ins. diam., bears N. 34$\frac{3}{4}$° W. 5 lks. dist., marked T 38 S R 13 W S 21 B T

No bearing tree available NE.

RETRACEMENT AND RESURVEY
OF SUBDIVISIONS OF T. 38 S., R. 13 W.

Chains.

Raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
Thence
S. 89° 43' E. on resurvey line bet. secs. 22 and 27,
Over gently rolling land; through medium growth of cedar and pinon timber and dense oak and sage undergrowth.

4.45 Top of knoll, bears N. and S., 54 ft. above cor.

33.00 Fence bears S. 30° E., and N. 30° W.
Enter alfalfa field.

40.66 Proportional measurement; 200 ft. below knoll,
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for restored ¼ sec. cor., with brass cap marked

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

S 27
1918

Accessories impracticable. Continue through cultivated fields.

44.00 Ash creek, 10 lks. wide, 6 ins. deep, course SE.

51.32 The restored cor. of secs. 22, 23, 26, and 27.
Land, gradual slope on W. 33.00 chs.; remainder level.
Soil, heavy loam and loose rocks on W. 30.00 chs.; remainder good quality loam.
Timber, cedar and pinon on W. 33.00 chs.
Undergrowth, oak, sage and black brush.

---

From the re-established cor. of secs. 21, 22, 27, and 28,
North on retracement line bet. secs. 21 and 22,

40.00 Unable to find old ¼ sec. cor.

40.56 Fall 20 lks. E. of the old cor. of secs. 15, 16, 21, and 22, which is a limestone 16 x 12 ins., firmly set and extending 7 ins. above ground, marked as described by the surveyor general. No accessories.

The course of this mile is therefore N. 0° 09' W. and the distance is 80.56 chs. Thence
S. 0° 09' E. on resurvey line bet. secs. 21 and 22,

| Chains | |
|---|---|
| | Over level land, through cultivated fields, and through the town of New Harmony. |
| 11.40 | Fence, brs. E. and W. |
| 15.20 | N. side of N. street through New Harmony, brs. E. and W. |
| 33.00 | S. side of S. street through New Harmony, brs. E. and W. |
| 40.05 | Ash creek, 15 lks. wide, 6 ins. deep course SE. |
| 40.29 | Proportional measurement, on S. bank of creek, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the restored ¼ cor., with brass cap marked. |
| | S21 \| S22 |
| | 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 52.30 | Fence, brs. E. and W. |
| 53.30 | Creek, 12 lks. wide, 3 ins. deep, course E. |
| 66.05 | Fence brs. E. and W. Leave fields, enter oaks and sage. |
| 71.05 | Wash, 10 lks. wide, 2 ft. deep, course NE. |
| 80.54 | Forest boundary fence, brs E. and W. |
| 80.58 | The reestablished cor. of secs. 21,22,27 and 28. |
| | Land, level cultivated fields. |
| | Soil, good quality loam. |
| | Timber, none. |
| | Undergrowth, oak and sage brush on S. 14.53 chs. |
| | --- |
| | From the cor. of secs. 9,10,15 and 16, which is a granite, 20x8 ins., firmly set and extending 8 ins. above ground, marked and witnessed as described by the surveyor general. |
| | S.89°51'E., on retracement of line bet. secs. 10 and 15, |
| | Over level land, through cultivated fields. |
| 40.24 | Intersect the old ¼ cor., which is a granite, 14x10 ins., firmly set and extending 8 ins. above ground, marked and witnessed as described by the surveyor general. |
| | The course of this half mile is therefore S.89°51'E. and |

| Chains | |
|---|---|
| | the distance is 40,24 chs. |
| | Thence on same transit line, with continuous measurement. |
| 40.40 | Enter dense cedar and pinon timber, brs. N. and S. |
| 60.30 | Barbed wire fence, brs. N. and S. |
| 80.58 | Fall 2 lks. S. of the cor. of secs. 10,11,14 and 15. |
| | The course of this half mile is therefore S.89°53'E. and the distance is 40.34 chs. |
| | Land, level; S. exposure and drainage. |
| | Soil, good quality clay loam. |
| | Timber, cedar and pinon on E. 40.18 chs. |
| | Undergrowth, sage and sunflowers. |
| | --- |
| | From the cor. of secs. 9,10,15 and 16, heretofore described, North, on retracement of line bet. secs. 9 and 10. S. half. |
| | Over level land, through fields. |
| 14.47 | Irrigation ditch, 10 lks. wide, 2 ft. deep, course E. |
| 19.21 | Barbed wire fence, brs. E. and W. Leave fields and enter cedar and pinon timber and oak and sage undergrowth. |
| 40.31 | Fall 12 lks. E. of the old ¼ cor., which is a granite, 12x10x10 ins. lying on the ground, marked ¼ on top face, no accessories. I set stone 6 ins. in the ground, with ¼ on W. face, and along side of stone cor., |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the reestablished ¼ cor., with brass cap marked |
| | ¼ |
| | S9 \| S10 |
| | 1918 |
| | From which |
| | A cedar, 8 ins. diam., brs. S.86°E. 27 lks. dist., marked ¼ S 10 B T. |
| | A cedar, 9 ins. diam., brs. S.84°W. 131 lks. dist., marked ¼ S 9 B.T. |
| | The course of this half mile is therefore N.0°10'W. and the distance is 40.31 chs. |
| | Elevation 150 ft. above sec. cor. |

| Chains | |
|---|---|
| | Land, gentle S. slope. |
| | Soil, good quality loam. |
| | Timber, cedar and pinon on N. 21.10 chs. |
| | Undergrowth, oak and sage on N. 21.10 chs. |
| | From the reestablished cor. of secs. 21,22,27 and 28, |
| | West, on retracement of line bet. secs. 21 and 28. E. half. |
| 41.11 | Fall 5 lks. N. of the old ¼ cor., which is a stationary granite, 24x24 ins. and extending 14 ins. above ground, marked and witnessed as described by the surveyor general. I destroy marks on bearing trees to S. and reestablish the cor. as follows- alongside old cor., |
| | Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, to solid rock, and 6 ins. in a mound of stone, for the reestablished ¼ cor. of sec. 21 only, with brass cap marked, |
| | S 21 / ¼ / 1918 |
| | From which |
| | A cedar, 8 ins. diam., brs. N.40°W. 46 lks. dist., marked ¼ S 21 B T. |
| | A pinon, 6 ins. diam., brs. N.4°E. 40 lks. dist., marked ¼ S 21 B T. |
| | The course of this half mile is therefore S.89°56'W. and the distance is 41.11 chs. |
| | Thence |
| | N.89°56'E., on resurvey of line bet. secs. 21 and 28. E. half. |
| | Across foothills, through medium growth of cedar and pinon timber and sage and oak undergrowth. |
| 2.48 | Point 40.00 chs. from the cor. of secs. 21 and 28, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, to solid rock and 8 ins. in a mound of stone, for the ¼ cor. of sec. 28 only, with brass cap marked |
| | ¼ / S 28 / 1918 |

RETRACEMENT AND RESURVEY

OF SUBDIVISIONS OF T.38 S., R.13 W.

| Chains | |
|---|---|
| | From which |
| | A cedar, 4 ins. diam., brs. S.7°E. 29 lks. dist., marked ¼ S 28 B T. |
| | A cedar, 9 ins. diam., brs. S.50°W. 79 lks. dist., marked ¼ S 28 B T. |
| 17.40 | Wash, 10 lks. wide, 3 ft. deep, course N. |
| 34.10 | Wash, 8 lks. wide, 4 ft. deep, course NE. |
| 41.11 | The reestablished cor. of secs. 21,22,27 and 28. |
| | Land, broken bench, N. exppsure and drainage. |
| | Soil, little clay loam in loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak and sage. Fair grazing. |
| | From the old cor. of secs. 16,17,20 and 21, which is a granite, 16x12 ins., firmly set and extending 10 ins. above ground, marked and witnessed as described by the surveyor general, |
| | East, on retracement of line bet. secs. 16 and 21. |
| | Descend gentle E. slope, through dense sage and oak brush. |
| 40.40 | Fall 50 lks. N. of the ¼ cor., which is a granite, 12x6 ins., firmly set and extending 12 ins. above ground, marked and witnessed as described by the surveyor general. 130 ft. below sec. cor. |
| | The course of this half mile is therefore S.89°17'E. and the distance is 40.40 chs. |
| | Thence on same transit line, with continuous measurement. |
| 47.30 | Wash, 10 lks. wide, 5 ft. deep, stream 5 lks. wide, 2 ins. deep, in wash, course S.30°E. |
| 72.60 | Road, brs. S. and NW. |
| 73.90 | Top of haystack at N. end of barn. |
| 74.80 | Wash, 40 lks. wide, 4 ft. deep, course S. |
| 78.00 | Wash, 20 lks. wide, 2 ft. deep, course S. |
| 80.79 | Fall 63 lks. N. of the cor. of secs. 15,16,21 and 22, heretofore described. |
| | The course of this half mile is therefore S.89°49'E. and the distance is 40.39 chs. |
| | Land, gentle E. slope. |

Chains

Soil, clay loam with some loose rocks.

Timber, none.

Undergrowth, sage and oak brush.

---

Knowing from previous retracements that it will be necessary to establish a double set of corners on the line running N. from the cor. of secs. 16,17,20 and 21, I reestablish the cor: as follows- alongside of stone cor. heretofore described,

Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground, to solid rock; and 18 ins. in a mound of stone, for the reestablished cor. of secs. 16 and 21 only, with brass cap marked,

T38S
S16
S21
R13W

1918

From which

A pinon, 8 ins. diam., brs. S.65¾°E. 232 lks. dist., marked T 38 S R 13 W S 21 B T.

A pinon, 8 ins. diam., brs. N.10½°E. 291 lks. dist., marked T 38 S R 13 W S 16 B T.

Thence

North, on retracement of line bet. secs. 16 and 17.

39.81 Fall 9 lks. W. of the old ¼ cor.

The course of this half mile is therefore N.0°08'E. and the distance is 39.81 chs.

Thence on same transit line, with continuous measurement.

80.13 Fall 15 lks. W. of the old cor. of secs. 8,9,16 and 17, which is a lava rock, 24x14x8 ins., poorly set in a mound of stone, marked and witnessed as described by the surveyor general. I destroyed marks and witnesses referring to secs. 8 and 17 and reestablish the cor. as follows- alongside of stone cor.,

Set an iron post, 3 ft. long, 2 ins. in diam., on solid rock, 24 ins. in a mound of stone, for the reestablished cor. of secs. 9 and 16 only, with brass cap marked,

RETRACEMENT AND RESURVEY

OF SUBDIVISIONS OF T.38 S.,R.13 W.

Chains

T38S
S9
S16
R13W
1918

From which

A cedar, 5 ins. diam., brs. S.65½°E. 110 lks. dist., marked T 38 S R 13 W S 16 B T.

A cedar, 10 ins. diam., brs. N.38°E. 144 lks. dist., marked T 38 S R 13 W S 9 B T.

The course of this half mile is therefore N.0°05'E. and the distance is 40.32 chs.

Thence

S.0°05'W., on resurvey of line on W. boundary of sec. 16. across E. slope of foothills, through scattering cedar and pinon timber and sage and oak undergrowth.

8.16 Intersect line bet. secs. 8 and 17, At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in diam., on solid rock, 24 ins. in a mound of stone, for the cor. of secs. 8 and 17 only, with brass cap marked,

T38S
S8
S17
R13W
1918

From which

A cedar, 10 ins. diam., brs. S.85½°W. 97 lks. dist,, marked T 38 S R 13 W S 17 B T.

A cedar, 10 ins. diam., brs. N.42½°W. 130 lks. dist., marked T 38 S R 13 W S 8 B T.

40.32 The old ¼ cor. secs. 16 and 17, which is a lava rock, 12 x10 ins.,firmly set and extending 6 ins. above ground, marked ¼ on W. face and witnessed by a mound of stone E. of cor. I destroyed mound of stone and reestablished the cor. as follows- reset old cor. with ¼ on W. face, and alongside of stone,

Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, to solid rock, and 20 ins. in a mound of

| Chains | |
|---|---|
| | stone for the reestablished ¼ cor. of sec. 16 only, with brass cap marked, |
| | ¼ S16 / 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| | Thence |
| | S.0°08'W., with continuous measurement. |
| 48.06½ | Point midway bet. the cor. of secs. 8 and 17 and the cor. of secs. 17 and 20, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor. of sec. 17 only, with brass cap marked |
| | S17 ¼ / 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 56.50 | Wash, 15 lks. wide, 8 ft. deep, course E. 180 ft. below sec. cor. |
| 58.95 | Wire fence, brs, N.15°E. and S.15°W. |
| 76.13 | Wire fence, brs. S.50°E. and N.50°W. about 3 chs. to cor. of field. |
| 80.13 | The reestablished cor. of secs. 16 and 21. 40 ft. above wash. |
| | Land, low foothills; E. exposure and drainage. |
| | Soil, heavy loam and loose rock. |
| | Timber, scattering cedar and pinon. |
| | Undergrowth, sage and oak brush. Fair grazing. |
| | From the reestablished cor. of secs. 9 and 16, |
| | N.89°56'E., on retracement of line bet. secs. 9 and 16. |
| | Over rolling bench land, through scattering cedar and pinon timber and sage and oak undergrowth. |
| 15.65 | Wash, 15 lks. wide, 2 ft. deep, course S. 190 ft. below cor. |
| 20.00 | Top of ridge, brs. N. and S. 50 ft. above wash. |

Chains

29.30 Road, brs. S. to New Harmony and N. to Pinto

30.50 Wash, 40 lks. wide, 3 ft. deep, course S. 80 ft. below top of ridge,

40.28 Fall 14 lks. N. of the old ¼ cor., which is a limestone, 12x10x6 ins., lying on the ground, marked ¼ on under face. No accessories. I reset stone cor. 8 ins. in the ground, with ¼ on N. face, for the reestablished ¼ cor. of secs. 9 and 16.

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

Elevation 15 ft. above wash.

The course of this half mile is therefore S.89°52'E. and the distance is 40.28 chs.

Thence on same transit line,with continuous measurement.

55.75 Wash, 10 lks. wide, 2 ft. deep, course S. 75 ft. below ¼ cor.

60.05 Barbed wire fence, brs. N. and E. Leave timber brs. NW. and SE.

80.76 Fall 19 lks. N. of the cor. of secs. 9,10,15 and 16, heretofore described.

The course of this half mile is therefore East and the distance is 40.48 chs.

Land, rolling bench; S. exposure and drainage.

Soil, heavy clay loam and loose rocks.

Timber, scattering cedar and pinon on W. 60.05 chs.

Undergrowth, sage and oak brush. Fair grazing.

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## SURVEY OF SOUTH BOUNDARY OF T.38 S.,R.13 W.

From the true point for the cor. of Ts.38 and 39 S., Rs. 12 and 13 W.

West, on true line bet. secs. 1 and 36, on the S. boundary of the T.

Over nearly level land, through fields.

0.05 E. bank of wash, brs. N.30°W. and S.30°E.

3.80 W. bank of wash, brs. N. and S.

SURVEY OF SOUTH BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| 4.80 | Wagon road, brs. N. to New Harmony and S. to St. George. |
| 4.90 | Wire fence, brs. N. and S. Enter field. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, to solid rock and 8 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked, S36 / $\frac{1}{4}$ / S1 / 1918 |
| | From which |
| | A cedar, 8 ins. diam., brs. N.27$\frac{3}{4}$°W. 78 lks. dist., marked $\frac{1}{4}$ S 36 B T. |
| | A cedar, 8 ins. diam., brs. S.22$\frac{1}{2}$°W. 85 lks. dist., marked $\frac{1}{4}$ S 1 B T. |
| 40.85 | Wire fence, brs. N. and S. Leave field. |
| 43.20 | Ridge, brs. N. and S. 100 ft. above T. cor. |
| | Descend steep rocky W. slope, through dense sage. |
| 47.00 | Ash creek, 25 lks. wide, 8 ins. deep, in canyon, course S. 100 ft. below ridge. |
| 57.50 | Top of bench, slopes NW. 203 ft. above Ash creek. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground, to solid rock, and 10 ins. in a mound of stone, for the cor. of secs. 1,2,35 and 36, with brass cap marked T38S \| R13W / S35 \| S36 / S2 \| S1 / T39S / 1918 |
| | From which |
| | A cedar, 6 ins. diam., brs. N.36°E. 362 lks. dist., marked T 38 S R 13 W S 36 B T. |
| | And raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor. |
| | No other bearing trees available. |
| | Land, level on E. half; rough mountainous on W. half. |
| | Soil, good quality loam on E. half; loam and loose rocks on W. half. |
| | Timber, few scattering cedars and pinons. |
| | Undergrowth, sage and black brush. |

SURVEY OF SOUTH BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | West, on true line bet. secs. 2 and 35. |
| | Over mountainous land, through dense sage and black brush. |
| 29.00 | Spring branch, 1 lks wide, 2 ins. deep, course N.46°E. |
| | 100 ft. below cor. Enter cedar and pinon timber, brs. N.60°E. and S.60°W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor., with brass cap marked, |

$$\frac{S35\ \frac{1}{4}}{S2 \quad 1918}$$

From which

A cedar, 6 ins. diam., brs. N.18°E. 63 lks. dist., marked ¼ S 35 B T.

A cedar, 6 ins. diam., brs. S.62°E. 39 lks. dist., marked ¼ S 2 B T.

| | |
|---|---|
| 48.50 | Begin ascent of steep NE. slope, through dense cedar and pinon timber, over granite boulders. |
| 77.90 | Top of ridge, brs. NW. and SE. 675 ft. above ¼ cor. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground, to solid rock and 14 ins. in a mound of stone, for the cor. of secs. 2,3,34 and 35, with brass cap marked, |

T38S R13W

| S34 | S35 |
|---|---|
| S3 | S2 |

T39S

1918

From which

A pinon, 6 ins. diam., brs. N.43¾°E. 56 lks. dist., marked T 38 S R 13 W S 35 B T.

A pinon, 14 ins. diam., brs. S.43¾°E. 52 lks. dist., marked T 39 S R 13 W S 2 B T.

A pinon, 8 ins. diam., brs. S.25°W. 108 lks. dist., marked T 39 S R 13 W S 3 B T.

A cedar, 10 ins. diam., brs. N.31½°W, 73 lks. dist., marked T 38 S R 13 W S 34 B T.

Elevation 30 ft. below top of ridge.

Land, mountainous; N. slope and drainage on E. half, NE.

SURVEY OF SOUTH BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | exposure and drainage on W. half. |
| | Soil, loam and loose rocks, mostly rocks on W. half. |
| | Timber, cedar and pinon on W. 51 chs. |
| | Undergrowth, sage and black brush. Fair grazing. |
| | West, on true line bet. secs. 3 and 34. |
| | Over rough mountainous land, through dense cedar and pinon timber and sage and oak undergrowth. |
| 14.80 | Head of draw, 240 ft. below cor., drains S. |
| 19.00 | Point of spur, 150 ft. above draw, projects S20°E. |
| 30.10 | Bottom of draw, 50 ft. below spur, drains S.30°E. |
| 40.00 | In dense cedars and pinons, 50 ft. above draw, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground, to solid rock, and 12 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked, |
| | $\frac{S34}{\frac{1}{4}}$ / $\frac{S3}{1918}$ |
| | From which |
| | A pinon, 8 ins. diam., brs. S.44$\frac{3}{4}$°E. 39 lks. dist., marked $\frac{1}{4}$ S 3 B T. |
| | A pinon, 6 ins. diam., brs. N.49W. 129 lks. dist., marked $\frac{1}{4}$ S 34 B T. |
| 63.00 | Timber becomes scattering; undergrowth very dense. |
| 72.90 | Top of ridge, brs. N. and S. 600 ft. above $\frac{1}{4}$ cor. |
| | Descend steep W. slope through scattering timber and dense oak and black brush. |
| 80.00 | On steep W. slope, 200 ft. below top of ridge, |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 4 ins. in the ground, to solid rock, and 24 ins. in a mound of stone, for the cor. of secs. 3, 4, 33 and 34, with brass cap marked, |
| | T38S R13W / $\frac{S33 \mid S34}{S4 \mid S3}$ / T39S |
| | 1918 |

SURVEY OF SOUTH BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | From which |
| | A pinon, 18 ins. diam., brs. S.26°W. 46 lks. dist., marked T 39 S.R 13 W S 4 B T. |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | No other bearing trees available. |
| | This corner later refers to secs. 3 and 4 T.39 S.R. 13 W. only. |
| | Land, mountainous; General E. exposure and drainage on E. 72.90 chs., W. exposure and drainage on remainder. |
| | Soil, coarse gravelly clay loam and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak and black brush. Fair grazing. |
| | --- |
| | West, on true line bet. secs. 4 and 33. |
| | Over mountainous land through scattering cedar and pinon timber and dense oak and black brush. |
| 1.62 | Point for the cor. of secs. 33 and 34. Subsequently set at this point. |
| 2.00 | Wash, 40 lks. wide, 4 ft. deep, course N.30°E. 70 ft. below cor. |
| 28.76 | Top of sharp rocky spur, 580 ft. above wash, projects N. Enter burned area. Descend through dense second growth oak undergrowth. |
| 40.00 | In dense oaks, 240 ft. below top of spur, Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor., with brass cap marked, S33 / ¼ / S4 / 1918 And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Ascend across N. slope, through very dense oak brush. |
| 47.20 | Wash, 50 lks. wide, 4 ft. deep, course N.20°E. Ascend point of spur. |
| 50.00 | Enter scattering mahogany and pine timber, brs. NE. and SW. |
| 75.00 | Top of spur, 1020 ft. above ¼ cor., projects N.60°E. |
| 80.00 | On steep N. slope, in dense pine timber, 45 ft. below spur, |

SURVEY OF SOUTH BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground, to solid rock, and 6 ins. in a mound of stone, for the cor. of secs. 4,5,32 and 33, with brass cap marked, |
| | T38S R13W<br>S32 \| S33<br>S5 \| S4<br>T39S<br>1918 |
| | From which |
| | A fir, 12 ins. diam., brs. N.28°E. 9 lks. dist., marked T 38 S R 13 W S 33 B T. |
| | A fir. 12 ins. diam., brs. S.35½°E. 46 lks. dist., marked T 39 S R 13 W S 4 B T. |
| | A fir, 12 ins. diam., brs. S.53°W. 7 lks. dist., marked T 39 S R 13 W S 5 B T. |
| | A fir, 8 ins. diam., brs. N.19¾°W. 36 lks. dist., marked T 38 S R 13 W S32 B T. |
| | Land, rough mountainous; general N. exposure and drainage. |
| | Soil, clay loam and loose rocks. |
| | Timber, mahogany, pine and fir on W. 30 chs. |
| | Undergrowth, oak, sallal and buck brush. Poor grazing. |
| | --- |
| | West, on true line bet. secs. 5 and 32. |
| | Ascend over rough mountainous land, through dense pine and fir timber and oak and sallal undergrowth. |
| 11.00 | Head of canyon, course NE. |
| 19.00 | Through dense aspen timber, brs. N. and S. |
| 29.90 | Top of ridge, 890 ft. above cor., brs. N. and S. |
| | Descend across draw, through dense timber, |
| 33.50 | Bottom of draw, 85 ft. below ridge, drains N. |
| 38.50 | Low spur, 80 ft. above draw, projects N. |
| 40.00 | In dense aspen, 15 ft. below spur, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, to solid rock, and 18 ins. in a mound of stone, for the ¼ cor., with brass cap marked, |
| | S32<br>S5<br>1918 |

SURVEY OF SOUTH BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | From which |
| | An aspen, 4 ins. diam., brs. S.33°E. 27 lks. dist., marked $\frac{1}{4}$ S 5 B.T. |
| | An aspen, 4 ins. diam., brs. N.48$\frac{3}{4}$°W. 21 lks. dist., marked $\frac{1}{4}$ S 32 B.T. |
| | Descend and ascend across broken N. slope densely covered with pine and aspen timber and undergrowth. |
| 78.00 | Point 60 ft. above $\frac{1}{4}$ cor., begin descent of steep NW. slope, over rocks and cliffs. |
| 80.00 | At foot of cliffs, 90 ft. below 78.00 chain point, Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 5,6,31 and 32, with brass cap marked, |

T38S R13W

| S31 | S32 |
|---|---|
| S6 | S5 |

T39S

1918

From which

A fir, 12 ins. diam., brs. N.24$\frac{3}{4}$°E. 56 lks. dist., marked T 38 S R 13 W S 32 B T.

A fir, 14 ins. diam,, brs. S.56$\frac{1}{2}$°E. 63 lks. dist., marked T 39 S R 13 W S 5 B T.

A yellow pine, 48ins. diam., brs. S.20$\frac{1}{2}$°W. 13 lks. dist., marked T 39 S R 13 W S 6 B T.

A yellow pine, 14 ins. diam., brs. N.21$\frac{1}{2}$°W. 70 lks. dist., marked T 38 S R 13 W S 31 B T.

Land, mountainous; N. exposure and drainage.

Soil, heavy loam and loose rocks.

Timber, pine, fir and aspen.

Undergrowth, oak with second growth pine, fir and aspen.

Some grass, fair grazing.

---

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

Descend over mountainous land, through heavy pine and fir timber and oak undergrowth,

15.90 Botton of canyon, 260 ft. below cor., drains N.

22.60 Ridge, 175 ft. above canyon, brs. N. and S.

SURVEY OF SOUTH BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| 24.80 | Small canyon, spring branch in bottom, 30 ft. below ridge, course N. Ascend steep E. slope. |
| 38.30 | Ridge, 500 ft. above small canyon, brs. SE. and W. |
| 40,00 | On top of ridge, in dense aspen timber, Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, to solid rock, and 6 ins. in a mound of stone, for the ¼ cor., with brass cap marked, |

S31
¼
S6
1918

From which

A fir, 24 ins. diam., brs. N.9°E. 71 lks. dist., marked ¼ S 31 B T.

An aspen, 6 ins. diam., brs. S.48¼°E. 22 lks. dist., marked ¼ S 6 B T.

Descend and ascend along N. side of top of ridge, through heavy timber and scattering undergrowth.

| | |
|---|---|
| 61.70 | Top of cliff, about 60 ft. high, on ridge, brs. SE. and N. Descend steep W. slope, through scattering timber and dense undergrowth. |
| 78.89 | In bottom of canyon, course NW., 400 ft. below cliff. Set an iron post, 3 ft. long, 3 ins. in diam., 18 ins. in the ground, to solid rock, and 6 ins. in a mound of stone, for the cor. of Ts.38 and 39 S.,Rs.13 and 14 W., with brass cap marked, |

T38S
R14W R13W
S36 | S31
S1 | S6
T39S
1918

From which

A pine, 16 ins. diam.,brs. N.70°E. 94 lks. dist,, marked T 38 S R 13 W S 31 B T.

A fir, 16 ins. diam., brs. S.18½°E. 68 lks. dist., marked T 39 S R 13 W S 6 B T.

A fir, 9 ins. diam., brs. S.70°W. 42 lks. dist., marked T 39 S R 14 W S 1 B T.

A pine, 48 ins. diam., brs. N.37°W. 46 lks. dist.,

SURVEY OF SOUTH BOUNDARY OF T.38 S.,R.13 W.

marked T 38 S R 14 W.S 36 B T.

Land, rough mountainous; general N. exposure and drainage on E. 61.70 chs., W. exposure and drainage on remainder.

Soil, clay loam and loose rocks.

Timber, pine, fir and aspen.

Undergrowth, oak, sallal, and second growth timber. Fair grazing.

---

SURVEY OF WEST BOUNDARY OF T.38 S.,R.13 W.

From the cor. of Ts.38 and 39 S.,Rs.13 and 14 W. above described.

North, on a random line on the W. boundary of T.

505.72 Intersect the N. boundary of T. at N.89°54'E. 5.40 chs. from the cor. of Ts.37 and 38 S.,Rs.13 and 14 W. Set cor. of T.38 S.,Rs.13 and 14 W. as described on page 4.

I now return to the cor. of Ts.38 and 39 S.,Rs.13 and 14 W.

Thence

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

Ascend steep SW. slope through dense oak, manzanita, and sage undergrowth.

1.00 Leave timber, cross cow trail, brs. SE. and NW.

14.00 Top of spur, 366 ft. above T. cor., projects W. Enter pine and aspen timber, brs. E. amd W.

30.20 Small draw, 354 ft. below spur, drains E.

33.20 Spur, 25 ft. above draw, projects E.

37.60 Small draw, 65 ft. below spur, drains E.

40.00 At foot of large granite boulder, 60 ft. above draw, Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, to solid rock, and 20 ins. in a mound of stone, for the ¼ cor., with brass cap marked,

¼

S36 | S31

1918

From which

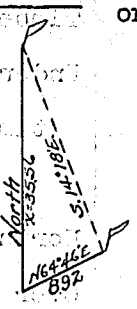
A pinon, 20 ins. diam., brs. S.15¼°W. 45 lks. dist., marked ¼ S 36 B T.

A + B 0, on granite boulder, 30x10x10 ft., brs. N.35°E. 4 lks. dist.,

44.00 Top of ridge, 75 ft. above ¼ cor., brs. E. and W.

44.10 Impossible to chain further on line, therefore I triangulate as follows- Set a flag on line to the N. also measure base N.64°46'E. 8.92 chs. dist. from transit. (impossible to measure longer base) and set flag. I now proceed to the flag set on line to N. from which the flag at E. end of base brs. S.14°18'E. The required distance then is $\frac{\text{base} \times \sin 100°56'}{\text{Sin } 14°18'}$ or

$\frac{8.92 \times \sin 100°56'}{\text{Sin } 14°18'}$




log 8.92 = 0.950565
log sin 100°56' = 9.992044
colog sin 14°18' = 0.607305
log dist. = 1.549914
dist. = 35.46 chs. which added to 44.10 gives 79.56 chs.

Approximate topography.

61.00 Creek, 5 lks. wide, 6 ins. deep, in canyon, course NE. 750 ft. below ridge.

Ascend steep SE. slope through dense oak, sallal, manzanita and mahogany undergrowth.

79;56 Triangulation point.

80.00 On steep SE. slope, in dense undergrowth, 800 ft. above creek, some fir timber,

Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground, to solid rock, and 10 ins. in a mound of stone, for the cor. of secs. 25,30,31 and 36, with brass cap marked,

T38S
R14W R13W
S25 | S30
S36 | S31

1918

From which

A fir, 10 ins. diam., brs. N.85½°E. 100 lks. dist.,

marked T.38 S. R. 13 W. S.30 B.T.

SURVEY OF WEST BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | A fir. 10 ins. diam., brs. S.56°E. 128 lks. dist., marked T 38 S R 13 W S 31 B T. |
| | A fir, 24 ins. diam., brs. S.52½°W. 38 lks. dist., marked T 38 S R 14 W S 36 B T. |
| | A fir, 20 ins. diam., brs. N.28¼°W. 81 lks. dist., marked T 38 S R 14 W S 25 B T. |
| | Land, rough mountainous; S. exposure and drainage on S. 14 chs., NE. exposure and drainage on next 47 chs., SE. Exposure and drainage on remainder. |
| | Soil, clay loam among loose rocks. |
| | Timber, pine, fir and aspen. |
| | Undergrowth, oak, sallal, manzanita and second growth timber. Poor grazing. |
| | North, on true line bet. secs. 25 and 30. |
| | Over mountainous land, through dense pine, fir and aspen timber and oak, manzanita and sallal undergrowth. |
| 1.00 | Top of ridge, 25 ft. above cor., brs. NE. and SW. |
| 32.90 | Top of small rocky spur, 200 ft. below ridge, projects E. |
| 37.10 | Bottom of draw, 85 ft. below spur, drains E. |
| 40.00 | In dense undergrowth, 60 ft. above draw, Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, to solid rock, and 10 ins. in a mound of stone, for the ¼ cor., with brass cap marked, ¼ \| S25 \| S30 \| 1918 |
| | From which |
| | A mahogany, 6 ins. diam., brs. S.6¼°E. 29 lks. dist., marked ¼ S 30 B T. |
| | A balsam, 7 ins. diam., brs. S.28¼°W. 36 lks. dist., marked ¼ S 25 B T. |
| | Ascend over outcropping boulders. |
| 42.20 | 70 ft. above ¼ cor., begin abrupt descent over cliffs and boulders, through dense pine and fir timber. |
| 56.99 | Top of cliff about 150 ft. high. Impossible to chain fur- |

SURVEY OF WEST BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | ther and impossible to lay off base for triangulation therefore I read stadia as follows- rod reading 12.20 ft., vertical angle —7°15'. The horizontal distance then is 2 x 12.20 x 0.98405 = 24.01 chs. which added to 56.99 chs, makes 81.00 chs. I now return S. 1.00 chs. and set temp. sec. cor. |
| | Approximate topography. |
| 69.00 | Bottom of canyon; 1000 ft. below 42.20 chain ppint, course N.60°E. Leave timber and ascend over cliffs, through dense oak, sallal and manzanita undergrowth. |
| 76.50 | Top of spur, 450 ft. above canyon, projects S.60°E. |
| 78.50 | Wash, 10 lks. wide, 3 ft. deep, 30 ft. below spur, course S.50°E. |
| 80.00 | At temp.sec.cor., 40 ft. above wash. |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground and 14 ins. in a mound of stone, for the cor. of secs. 19,24,25 and 30, with brass cap marked, |
| | T38S<br>R14W \| R13W<br>S24 \| S19<br>S25 \| S30<br>1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, mountainous; general E. exposure and drainage. |
| | Soil, clay loam among cliffs and loose rocks. |
| | Timber, pine, fir and aspen. |
| | Undergrowth, oak, sallal, manzanita and second growth timber. Fair grazing. |
| | North, on true line bet. secs. 19 and 24. |
| | Ascend over mountainous land, through dense oak, sallal, manzanita and sage undergrowth. |
| 5.50 | Top of small spur, 140 ft. above cor., projects E. |
| | Continue ascent across head of draw. |
| 24.00 | Top of spur, 520 ft. above cor., projects E. |
| 38.40 | Bottom of draw, 140 ft. below spur, drains E. |
| 40.00 | On small rocky spur, 15 ft. above draw, |

SURVEY OF WEST BOUNDARY OF T.38 S.,R.13 W.

Chains

Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, to solid rock and 16 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked,

$\frac{1}{4}$
S24 | S19
1918

From which

A red cedar, 14 ins. diam., brs. S.34°E. 54 lks. dist., marked $\frac{1}{4}$ S 18 B T.

A red cedar, 26 ins. diam., brs. S.76½°W. 140 lks. dist., marked $\frac{1}{4}$ S 24 B T.

Descend and ascend across broken E. slope, through pine and fir timber and oak, sallal and manzanita undergrowth.

80.00 In yellow pine grove, 70 ft. below $\frac{1}{4}$ cor.

Set an iron post, 3 ft. long, 2 ins. in diam., 4 ins. in the ground, to solid rock, and 20 ins. in a mound of stone, for the cor. of secs. 13,18,19 and 24. with brass cap marked

T38S
R14W | R13W
S13 | S18
S24 | S19
1918

From which

A yellow pine, 30 ins. diam., brs. N.74°E. 46 lks. dist., marked T 38 S R 13 W S 18 B T.

A yellow pine, 30 ins. diam., brs. S.60¾°E. 44 lks. dist., marked T 38 S R 13 W S 19 B T.

A yellow pine, 24 ins. diam., brs. S.29½°W. 27 lks. dist., marked T 38 S R 14 W S 24 B T.

A red cedar, 16 ins. diam., brs. N.36½°W. 23 lks. dist., marked T 38 S R 14 W S 13 B T.

Land, mountainous; E. exposure and drainage.

Soil, clay loam in loose rocks and boulders.

Timber, pine, fir, red cedar and aspen, and yellow pine.

Undergrowth, oak, salall, manzanita, sage and second growth timber. Fair grazing.

SURVEY OF WEST BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | North, on true line bet. secs. 13 and 18. |
| | Over mountainous land, through scattering pine and fir timber and dense oak, sallal and manzanita undergrowth. |
| 29.50 | Begin steep descent. |
| 40.00 | On NE. slope, 340 ft. below sec. cor., |
| | Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, to solid rock, and 10 ins. in a mound of stone, for the ¼ cor., with brass cap marked, |
| | ¼ S13 \| S18 1918 |
| | From which |
| | A mahogany, 5 ins. diam., brs. N.23½°E. 88 lks. dist., marked ¼ S 18 B.T. |
| | A cedar, 24 ins. diam., brs. N.79°W. 128 lks. dist., marked ¼ S 13 B T. |
| 41.30 | Edge of cliffs and rim of canyon, brs. NE. and SW. |
| 47.70 | Bottom of canyon, 250 ft. below ¼ cor., course NE. |
| 59.20 | Flat topped spur, 170 ft. above canyon, projects E. Enter dense cedar and pinon timber, brs. E. and W. |
| 70.06 | Wash, 12 lks. wide, 3 ft. deep, 50 ft. below spur, course N.80°E. |
| 78.50 | 40 ft. above wash, begin abrupt descent of N. slope. |
| 80.00 | On steep N. slope, 60 ft. below 78.50 ch. point, |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground, to solid rock, and 14 ins. in a mound of stone, for the cor. of secs. 7, 12, 13 and 18, with brass cap marked, |
| | T38S R14W R13W S12 \| S7 S13 \| S18 1918 |
| | From which |
| | A pinon, 8 ins. diam., brs. S.85°E. 154 lks. dist., marked T 38 S R 13 W S 18 B T. |
| | A pinon, 6 ins. diam., brs. N.59¼°W. 125 lks. dist., marked T 38 S R 14 W S 12 B T. |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. |

SURVEY OF WEST BOUNDARY OF T.38 S., R.13 W.

| Chains | |
|---|---|
| | of cor. |
| | No other suitable bearing trees available. |
| | Land, mountainous; E. exposure and drainage. |
| | Soil, clay loam in boulders and loose rocks. |
| | Timber, yellow pine, fir, cedar and pinon. |
| | Undergrowth, oak, sallal, manzanita and sage. Fair grazing. |
| | North, nonctrue line bet. secs. 7 and 12. |
| | Descend over cliffs, through scattering cedar and pinon timber and dense oak, sallal and manzanita undergrowth. |
| 4.40 | Top of cliffs, about 80 ft. high, brs. NE. and SW. |
| 11.20 | Bottom of canyon, 620 ft. below cor., course E. |
| 21.70 | Top of low spur, 140 ft. above canyon, projects E. |
| 40.00 | On steep SE. slope, 265 ft. above spur, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, to solid rock, and 18 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked, |
| | $\frac{1}{4}$ S12 \| S7 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 48.80 | Top of spur, 240 ft. above $\frac{1}{4}$ cor., projects E. Continue ascent across broken E. slope. |
| 79.50 | Bottom of canyon, 270 ft. below top of spur, course E. |
| 80.00 | On steep S. slope, 15 ft. above canyon, |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 1, 6, 7 and 12, with brass cap marked, |

T38S
R14W R13W
S1 \| S6
S12 \| S7
1918

From which

A cedar, 6 ins. diam., brs. N.58¾°E. 97 lks. dist., marked T 38 S R 13 W S 6 B T.

A pinon, 10 ins. diam., brs. S.65¼°E. 240 lks. dist.,

SURVEY OF WEST BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | marked T 38 S R 13 W S 7 B T. |
| | A pinon, 10 ins. diam., brs. S.55°W. 27 lks. dist., marked T 38 S R 14 W S 12 B T. |
| | A pinon, 12 ins. diam., brs. N.34°W. 156 lks. dist., marked T 38 S R 14 W S1 B T. |
| | Land, mountainous; general E. exposure and drainage. |
| | Soil, clay loam and loose rocks. |
| | Timber; scattering cedar and pinon on S. 11.20 chs. |
| | Undergrowth, dense oak, manzanita, sallal and sage. Fair grazing. |
| | North, on true line bet. secs. 1 and 6. |
| | Over mountainous land, through scattering cedar and pinon timber and dense oak and sage undergrowth. |
| 10.50 | Spur, 320 ft. above cor., projects E. Descend across head of draw, drains S.60°E. |
| 25.50 | Ridge, 60 ft. above spur, brs. N.60°E. and S.60°W. |
| | Descend N. slope through dense cedar and pinon timber. |
| 36.00 | Wash, 8 lks. wide, 2 ft. deep, 388 ft. below ridge, course N.35°W. Slope changes to W. |
| 40.00 | On W. slope, in dense cedar and pinon timber, 30 ft. above wash, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, and 8 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked, |
| | $\frac{1}{4}$ S1 \| S6 1918 |
| | From which |
| | A cedar, 24 ins. diam., brs. S.32°W. 42 lks. dist., marked $\frac{1}{4}$ S 1 B T. |
| | A pinon, 6 ins. diam., brs. N.75°E. 57 lks. dist., marked $\frac{1}{4}$ S 6 B T. |
| 44.60 | Wash, 10 lks. wide, 3 ft. deep, 50 ft. below $\frac{1}{4}$ cor., course W. |
| 50.10 | Spur, 40 ft. above wash, projects W. |

SURVEY OF WEST BOUNDARY OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | Descend across N. slope, through scattering cedar and pinon timber and dense oak and sage undergrowth. |
| 71.80 | Wash, 40 lks. wide, 4 ft. deep, 280 ft. below spur, course N.50°E. |
| 77.90 | Wash, 40 lks. wide, 3 ft. deep, Course N.60°E. |
| 81.70 | Road, brs. S.75°E. to New Harmony and N.75°W. to Pinto. |
| 82.40 | Wash, 50 lks. wide, 6 ft. deep, course S.60°E. |
| 87.00 | Wash, 20 lks. wide, 3 ft. deep, course SE. |
| 105.72 | The cor. of T.38 S.,Rs.13 and 14 W., heretofore described |
| | Land, mountainous; SE. exposure and drainage on S. 25.50 chs., N. exposure and drainage on next 56.80 chs., and SE. exposure and drainage on remainder. |
| | Soil, gravelly clay in loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sallal, sage and manzanita. Fair grazing. |

SUBDIVISIONS OF T.38 S.,R.13 W.

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

The cor. of secs. 1,2,35 and 36 is plainly visible, therefore,

S.0°04'W., on true line bet. secs. 35 and 36.

Over gently rolling land, through dense sage.

40.00 Point for ¼ cor. falls in edge of wash where it would be destroyed, therefore I continue to safe ground.(Cor.not set.)

42.08 Ash creek, 5 lks. wide, 4 ins. deep, in wash, 155 ft. below cor., course S.30°E.

44.57 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the witness cor. to the ¼ cor., with a brass cap marked,

WC
S35 | S36
1918

From which,

An ash tree, 16 ins. diam., brs. S.74°W. 25 lks.

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | dist., marked ¼ S 35 W C B T. |
| | An ash tree, 12 ins. diam., brs. N.19°E. 291 lks., dist., marked ¼ S 36 W C B T. |
| 55.60 | Point of spur, 90 ft. above ¼ cor., projects SE. |
| 75.70 | Pond, 40 lks. long, 30 lks. wide, in creek, 3 lks. wide, 2 ins. deep, course E. 90 ft. below spur. |
| 80.24 | Fall 12 lks. W. of a granite rock, 14x14 ins., firmly set and extending 10 ins. above ground, and marked ┼ H E S 144. Mound of stone W. |
| 85.58 | The cor. of secs. 1,2,35 and 36, heretofore described. |
| | Land, rolling; SE. exposure and drainage on N.75.70 chs. N. exposure and drainage on remainder. |
| | Soil, clay loam and loose rocks. |
| | Timber, none. |
| | Undergrowth, sage oak and black brush. Fair grazing. |
| | --- |
| | From the reestablished cor. of secs. 25,26,35 and 36, |
| | East, on random line bet. secs. 25 and 36. |
| 40.00 | Set temp. ¼ cor. |
| 80.09 | Intersect E. boundary of T. 3.60 chs. N.0°13'E. from the old cor. of secs. 25,30.31 and 36. Set cor. of secs. 25 and 36 as described on page 18 of these notes. |
| | Thence |
| | West, on true line bet. secs. 25 and 36. |
| | Over rolling land, through dense cedar and pinon timber and sage and oak undergrowth. |
| 1.84 | Barbed wire fence, brs. N. and S. Leave dense cedar and pinon timber, thence through scattering timber. |
| 5.60 | Road, brs, N. to New Harmony and S. to St. George. |
| 20.84 | Wash, 15 lks. wide, 3 ft. deep, course S.50°E. |
| 34.10 | Ridge, 160 ft. above cor., brs. N. and S. |
| 40.04½ | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor., with brass cap marked, |

S25
¼
S36
1918

| Chains | |
|---|---|
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 69.90 | Wash, 6 lks. wide, 2 ft. deep, 70 ft. below ridge, course S.15°W. |
| 80.09 | The cor. of secs. 25,26,35 and 36. |
| | Land, gently rolling; SE. exposure and drainage on E. 34.10 chs; SW. exposure and drainage on remainder. |
| | Soil, coarse gravelly loam. |
| | Timber, cedar and pinon. |
| | Undergrowth, sage and oak brush. |
| | --- |
| | From the reestablished cor. of secs. 11,12,13 and 14, North, bet. secs. 11 and 12. |
| | Over nearly level land, through dense sage. |
| 30.00 | Enter scattering cedar and pinon timber, brs. E. and W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, to solid rock, and 10 ins. in a mound of stone, for the ¼ cor., with brass cap marked, |
| | ¼<br>S11 \| S12<br>1918 |
| | From which |
| | A cedar, 4 ins. diam., brs. N.80°E. 29 lks. dist., marked ¼ S 12 B T. |
| | A cedar, 6 ins. diam., brs. N.15½°W. 127 lks. dist., marked ¼ S 11 B T. |
| 45.00 | Wash, 8 lks. wide, 2 ft. deep, course S.30°W. |
| 66.00 | Point of spur, 265 ft. above sec. cor., projects SE. |
| 77.60 | Wash, 10 lks. wide, 2 ft. deep, 40 ft. below spur, course S.40°E. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 1,2,11 and 12, with brass cap marked, |
| | T38S R13W<br>S2 \| S1.<br>S11 \| S12<br>1918 |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | From which |
| | A cedar, 8 ins. diam., brs, N.76°E. 115 lks. dist., marked T 38 S R 13 W S 1 B T. |
| | A cedar, 6 ins. diam., brs. S.27°E. 220 lks. dist., marked T 38 S R 13 W S 12 B T. |
| | A cedar, 8 ins. diam., brs. S.5½°W. 49 lks. dist., marked T 38 S R 13 W S 11 B T. |
| | A cedar, 5 ins. diam., brs. N.49¼°W. 135 lks. dist., marked T 38 S R 13 W S 2 B T. |
| | Land, level on S. half, rolling on N. half. S. exposure and drainage. |
| | Soil, clay loam, loose rocks on N. half. |
| | Timber, cedar and pinon. |
| | Undergrowth, sage and oak brush. Fair grazing. |
| | East, on a random line bet. secs. 1 and 12. |
| 40.00 | Set temp. ¼ cor. |
| 81.38 | Intersect E. boundary of T. 8.54 chs. S.0°14'W. from the restored cor. of secs. 6 and 7. At intersection, set cor. secs. 1 and 12 as described on page 20. |
| | Thence |
| | West, on true line bet. secs. 1 and 12. |
| | Over rolling mountainous land, through scattering cedar and pinon timber and sage and oak undergrowth. |
| 1.38 | Ridge, 60 ft. above cor., brs. N.15°E. and S. |
| 5.00 | Wash, 80 lks. wide. 5 ft. deep, 70 ft. below spur, course S. |
| 10.00 | Spur, 20 ft. above wash, projects S. |
| 12.90 | Wash, 15 lks. wide, 3 ft. deep, 50 ft. below spur, course S. |
| 15.80 | Spur, 40 ft. above wash, projects S. |
| 18.00 | Wash, 15 lks. wide, 5 ft. deep, 15 ft. below spur, course S. |
| 29.80 | Spur. 75 ft. above wash, projects S. |
| 30.80 | Wash, 20 lks. wide, 5 ft. deep, 60 ft. below spur, course S. |
| 40.00 | On point of spur, 60 ft. above wash, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, to solid rock, and 6 ins. in a mound of stone for the ¼ cor. of sec. 12 only, with brass cap marked, |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | $\frac{1}{4}$ S12 1918 |
| | From which |
| | A cedar, 24 ins. diam., brs. S.55°W. 124 lks. dist., marked $\frac{1}{4}$ S 12 B.T. |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. |
| | No other suitable bearing tree available. |
| 41.38 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ cor. of sec. 1 only, with brass cap marked; |
| | S1 $\frac{1}{4}$ 1918 |
| | From which |
| | A cedar, 6 ins. diam., brs. N.5½°E. 59 lks. dist., marked $\frac{1}{4}$ S 1 B T. |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No other suitable bearing tree available. |
| 42.40 | Wash, 8 lks. wide, 2 ft. deep, 55 ft. below $\frac{1}{4}$ cor. sec. 12, course S. |
| 55.10 | Low ridge, 120 ft. above wash, brs. N. and S. |
| 61.20 | Wash, 10 lks. wide, 3 ft. deep, 60 ft. below ridge, course S.15°E. |
| 75.85 | Ridge, 110 ft. above wash, brs. N. and S. |
| 81.38 | The cor. of secs. 1,2,11 and 12. 120 ft. below ridge. |
| | Land, rolling mountainous; S. exposure and drainage. |
| | Soil, clay loam and loose rocks. |
| | Timber, scattering cedar and pinon. |
| | Undergrowth, sage and oak brush. Poor grazing. |
| | Knowing from previous retracements that lines extended |
| | As to the N. boundary will not fall within limits from their respective cors., I abandom the randoms and run |
| | all these as true lines. |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | North, bet. secs. 1 and 2. |
| | Over mountainous land, through dense oak, sage, sallal and manzanita brush. |
| 28.00 | Ridge, 500 ft. above cor., brs. NW. and SE. |
| 40.00 | On E. slope, 170 ft. below ridge, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ cor., with brass cap marked, |
| | $\frac{1}{4}$ S2 \| S1 1918 |
| | From which |
| | A cedar, 10 ins. diam., brs. N.73½°E. 67 lks. dist., marked $\frac{1}{4}$ S 1 B T. |
| | A pinon, 8 ins. diam., brs. N.83½°W. 131 lks. dist., marked $\frac{1}{4}$ S 2 B T. |
| 40.50 | Wash, 8 lks. wide, 3 ft. deep, 15 ft. below $\frac{1}{4}$ cor., course S.60°E. |
| 48.00 | Spur, 80 ft. above wash, projects S.60°E. |
| 52.50 | Wash, 60 lks. wide, 6 ft. deep, 130 ft. below spur, course S.75°E. Small spring about 8 chs. W. of line at this point. |
| 74.20 | Wash, 30 lks. wide, 4 ft. deep, course S.20°W. |
| | Ascend steep SE. slope, through dense cedar and pinon timber and oak, sallal and manzanita undergrowth. |
| 97.65 | Intersect N. boundary of T. 1.22 chs. N.88°24'W. from the restored cor. of secs. 35 and 36. At intersection, set cor. of secs. 1 and 2 as described on page 13. |
| | Land, mountainous; SW. exposure and drainage on S. 28 chs. SE. exposure and drainage on remainder. |
| | Soil, coarse clay loam and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sallal, sage and manzanita brush, Fair grazing. |
| | --- |
| | From cor/secs. 2,3,34 and 35, on S.bdy. of Tp., |
| | North, on random line bet. secs. 34 and 35. |
| 45.50 | Set temp $\frac{1}{4}$ cor. |

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SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| 85.31 | Fall 50 lks. E. of the reestablished cor. of secs. 26,27, 34 and 35, heretofore described. |
| | Thence |
| | S.0°21'E., on true line bet. secs. 34 and 35. |
| | Ascend over mountainous land, through dense cedar and pinon timber and oak and sage undergrowth. |
| 27.80 | Wash, 200 lks. wide, 40 ft. deep, course E. |
| 37.00 | Spur, 170 ft. above cor., projects N.60°E. |
| 40.00 | On steep SE. slope, 50 ft. below spur, |
| | Set an iron post. 3 ft. long, 1 in. in diam., 16 ins. in the ground, to solid rock, and 10 ins. in a mound of stone, for the ¼ cor., with brass cap marked, |
| | ¼<br>S34 \| S35<br>1918 |
| | From which |
| | A cedar, 8 ins. diam., brs. S.33°W. 266 lks. dist., marked ¼ S 34 B T. |
| | A cedar, 4 ins. diam., brs. N.80°E. 70 lks. dist., marked ¼ S 35 B T. |
| | Descend and ascend across broken E. slope, through scattering cedar and pinon timber and oak and sage undergrowth. |
| 45.80 | Head of draw, 65 ft. below ¼ cor., drains E. |
| 52.80 | Spur, 140 ft. above draw, projects E. |
| 69.00 | Draw, 110 ft. below spur, drains E. |
| 82.80 | Ridge, 250 ft. above draw, brs. N.60°W. and S.60°E. |
| 85.31 | The cor. of secs. 2,3,34 and 35. 30 ft. below ridge. |
| | Land, mountainous; E. exposure and drainage. |
| | Soil, coarse clay loam and loose rocks. |
| | Undergrowth, oak, sage, sallal and manzanita. |
| | Timber, cedar and pinon. |
| | --- |
| | From the restored ¼ cor. of secs. 10 and 11, |
| | N.0°01'W., bet. secs. 10 and 11, N. half. |
| | Over bench land, through dense cedar and pinon timber and oak and sage undergrowth. |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| 19.07 | Wash, 10 lks. wide, 2 ft. deep, course S.15°W. |
| 39.78 | Cor. of secs. 2, 3, 10, and 11 afterwards set at this point. |
| 40.00 | Set temp. sec. cor. For description of permanent cor. see line bet. secs. 2 and 11. |
| | Land, gently sloping bench; S. exposure and drainage. |
| | Soil, heavy clay loam. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak and sage. Poor grazing. |
| | From the cor. of secs. 1, 2, 11 and 12, |
| | West, on a random line bet. secs. 2 and 11. |
| 40.00 | Set temp. ¼ cor. |
| 81.00 | Intersect N. and S. line, 22 lks. S. of the temp. cor. of 2, 3, 10 and 11. At point of intersection, Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground, to solid rock, and 8 ins. in a mound of stone, for the cor. of secs. 2, 3, 10 and 11, with brass cap marked, |

T38S R13W

| S3 | S2 |
|---|---|
| S10 | S11 |

1918

From which

A cedar, 8 ins. diam., brs. N.48¼°E. 47 lks. dist., marked T 38 S R 13 W S 2 B.T.

A cedar, 10 ins. diam., brs. S.78½°E. 90 lks. dist., marked T 38 S R 13 W S11 B T.

A cedar, 7 ins. diam., brs. S.37°W. 42 lks. dist., marked T 38 S R 13 W S 10 B T.

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

No suitable bearing tree available in NW. sec.

Thence

East, on true line bet. secs. 2 and 11.

Across broken bench, through dense cedar and pinon timber and oak and sage undergrowth.

| | |
|---|---|
| 3.65 | Wash, 8 lks. wide, 2 ft. deep, course S. |
| 12.94 | Wash, 10 lks. wide, 2 ft. deep, course S. |
| 27.90 | Wash, 12 lks. wide, 3 ft. deep, course S.30°W. |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| 35.40 | Spur, 80 ft. above cor., projects S. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor., with brass cap marked, S2 ¼ / S11 / 1918 |
| | From which |
| | A cedar, 8 ins. diam., brs. N.24¾°W. 57 lks. dist., marked ½ S 2 B T. |
| | A cedar, 16 ins. diam., brs. S.1°E. 115 lks. dist., marked ¼ S 11 B T. |
| 42.90 | Point of spur, 77 ft. above ¼ cor., projects S. |
| 45.70 | Wash, 10 lks. wide, 2 ft. deep, 60 ft. below spur, course S.15°E. |
| 54.50 | Spur, 120 ft. above wash, projects S. |
| 59.90 | Wash, 12 lks. wide, 3 ft. deep, 83 ft. below spur, course S.15°W. |
| 71.00 | Ridge, 135 ft. above wash, brs. N. and S. |
| 81.00 | The cor. of secs. 1,2,11 and 12. 200 ft. below spur. |
| | Land, broken bench; S. exposure and drainage. |
| | Soil, gravelly clay loam. |
| | Timber, cedar and pinon, |
| | Undergrowth, oak, sage, sallal and manzanita brush. Poor grazing. |
| | --- |
| | From the cor. of secs. 2,3,10 and 11, |
| | N.0°01'W., bet. secs. 2 and 3. |
| | Ascend over mountainous land, through cedar and pinon timber and oak, sage, manzanita and sallal undergrowth. |
| 40.00 | On steep W. slope, 280 ft. above cor., |
| | Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, to rock, and 14 ins. in a mound of stone, for the ¼ cor., with brass cap marked, S3 ¼ S2 / 1918 |
| | From which |

SUBDIVISIONS OF T. 38 S., R. 13 W.

| Chains | |
|---|---|
| | A cedar, 6 ins. diam., bears S. 51¾° E. 104 lks. dist., marked ¼ S 2 B T |
| | A cedar, 10 ins. diam., bears N. 87° W. 122 lks. dist., marked ¼ S 3 B T |
| | Continue ascent across steep W. slope; through scattering cedar and pinon timber and dense sage and oak undergrowth. |
| 58.20 | Spur, 392 ft. above ¼ sec. cor., projects W. |
| 64.40 | Wash, 15 lks. wide, 4 ft. deep, 120 ft. below spur, course S. 10° W. |
| 82.40 | Spur, 130 ft. above wash, projects W. |
| 94.40 | Small canyon, 50 ft. below spur, course W. |
| 96.00 | Low spur, 30 ft. above canyon, projects W. |
| 98.50 | Intersect N. boundary of T. 1. 81 chs. S. 89° 33' W. from the restored cor. of secs. 34 and 35. At intersection set cor. of secs. 2 and 3, as described on page 11. |
| | Land, mountainous; SW. exposure and drainage on S. 25.00 chs.; west exposure and drainage on remainder. |
| | Soil, clay loam and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sage, sallal and manzanita brush. |
| | Fair grazing. |

| | |
|---|---|
| | From the reestablished cor. of secs. 26, 27, 34, and 35, |
| | West on a random line bet. secs. 27 and 34, |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Set temp. point for cor. of secs. 27, 28, 33, and 34; later made permanent, as follows, at |
| 81.43 | Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, to rock, and 12 ins. in a mound of stone, for cor. of secs. 27, 28, 33, and 34, with brass cap mkd. |

T38S. R13W.
S28 | S27
S33 | S34
1918

SUBDIVISIONS OF T. 38 S., R. 13 W.

Chains.

from which

A pinon pine, 6 ins. diam., bears N. 57¾° E. 70 lks. dist., marked T 38 S R 13 W S 27 B T

A pinon pine, 6 ins. diam., bears S. 48¼° W. 39 lks. dist., marked T 38 S R 13 W S 33 B T (This tree destroyed later).

No other bearing trees available; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. (Mound later destroyed and built E. of cor.) Thence

East on true line bet. secs. 27 and 34,

Over mountainous land; through sage and oak undergrowth.

4.83 Wash, 20 lks. wide, 4 ft. deep, in canyon, 70 ft. below cor., course NE.

18.40 Spur, 130 ft. above wash, projects N.

25.90 Head of draw, 120 ft. below spur, drains N.

29.80 Top of low round-topped hill, 15 ft. above draw, bearing N. and S.

41.37 Forest Service cor., bears N. 13 lks. dist.

41.43 In bottom of hollow, 200 ft. below top of hill,

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

$$\frac{S\ 27 \quad \frac{1}{4}}{S\ 34} \qquad 1918$$

from which

A cedar, 6 ins. diam., bears N. 41° W. 225 lks. dist., marked ¼ S 27 B T

A cedar, 6 ins. diam., bears S. 46° W. 11 lks. dist., marked ¼ S 34 B T

Descend gradually across N. slope; through dense cedar and pinon timber, and dense oak undergrowth.

81.43 The cor. of secs. 26, 27, 34, and 35.

Land, mountainous on W. 41.43 chs.; remainder bench, N. exposure and drainage.

Soil, gravelly clay loam and loose rocks.

Timber, cedar and pinon. Undergrowth, oak, sage, manzanita, and sallal brush.

| Chains | |
|---|---|
| | From the reestablished cor. of secs. 21,22,27 and 28, South, on a random line bet. secs. 27 and 28. |
| 40.00 | Set temp. $\frac{1}{4}$ cor. |
| 81.28 | Intersect line bet. secs. 27 and 34. At point of intersection, set cor. of secs. 27,28,33 and 34 as described on page 65. |
| | Thence North, on true line bet. secs. 27 and 28. |
| | Ascend over mountainous land, through oak and sage undergrowth. |
| 2.48 | Top of granite rock about 30 ft. high. |
| 3.70 | Spur, 70 ft. above cor., projects N.70°E. |
| 34.85 | Point 40.00 chs. N. from the cor. of secs. 28 and 33, Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, to solid rock, and 14 ins. in a mound of stone, for the $\frac{1}{4}$ cor. of sec. 28 only, with brass cap marked<br>S28 $\frac{1}{4}$ \| 1918<br>From which<br>A cedar, 14 ins. diam., brs. N.62½°W. 25 lks. dist., marked $\frac{1}{4}$ S 28 B T.<br>A pinon, 8 ins. diam., brs. S.26°W. 47 lks. dist., marked $\frac{1}{4}$ S 28 B T. |
| 38.10 | Low spur, 260 ft. below spur at 3.70 chs., projects E. |
| 40.70 | Wash, 20 lks. wide, 5 ft. deep, 30 ft. below spur, course N.30°E. |
| 41.28 | Set an iron post, 3 ft. long, 1 in. in diam., on solid rock, 26 ins. in a mound of stone, for the $\frac{1}{4}$ cor. of sec. 27 only, with brass cap marked,<br>$\frac{1}{4}$ S27 \| 1918<br>From which<br>A cedar, 8 ins. diam., brs. S.47½°E. 51 lks. dist., marked $\frac{1}{4}$ S 27 B T |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | A cedar, 14 ins. diam., brs. S.23¼°E. 140 lks. dist;, marked ¼ S 27 B T. |
| | Continue over nearly level land through dense cedar and pinon timber and oak and sage undergrowth. |
| 75.10 | Top of hill, 100 ft. above wash at 40.70 chs., brs. NE. and SW. Descend 180 ft. to, |
| 81.28 | The reestablished cor. of secs. 21,22,27 and 28. |
| | Land, mountainous on S. half; bench on N. half. general E. exposure and drainage. |
| | Soil, little clay loam and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sage, sallal and manzanita brush. Fair grazing. |
| | ---------- |
| | I know from previous surveys that the line bet. secs. 33 and 34, run S. from the cor. of secs. 27,28,33 and 34, will not fall within limits from the cor. of secs. 3,4, 33 and 34, therefore, |
| | From the cor. of secs. 27,28,33 and 34, |
| | South, on true line bet. secs. 33 and 34. |
| | Over mountainous land, through scattering cedar and pinon timber and oak and sage undergrowth. |
| 4.20 | Wash, 10 lks. wide, 2 ft. deep, 35 ft. below cor., course N.60°E. |
| 5.15 | Point for the cor. of secs. 28 and 33. |
| 30.35 | Top of ridge, 500 ft. above wash, brs. E, and W. |
| | Descend across SE. slope, through dense oak undergrowth. |
| 40.00 | On E. slope of rocky hill, 110 ft. below ridge, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor. of sec. 34 only, with brass cap marked, |
| | ¼ S34 |
| | 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| | Subsequently, at |
| 45.21½ | Point midway bet. the cor. of secs. 28 and 33 and cor. 33 and 34 |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in |

| Chains | |
|---|---|
| | the ground, for the ¼ cor. of sec. 33 only, with brass cap marked, S33 ¼ \| 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 51.80 | Wash, 3 chs. wide, 40 ft. deep, 200 ft. below ¼ cor. sec. 34, course E. |
| 64.70 | Wash, 10 lks. wide, 3 ft. deep, course E. |
| 84.00 | Wash, 20 lks. wide, 4 ft. deep, course N.30°E. |
| 85.28 | Intersect the S. boundary of T. 1. 62 chs. W. of the cor. of secs. 3, 4, 33 and 34. Destroy all marks on this cor. referring to secs. 33 and 34 and at point of intersection, Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, to solid rock; and 12 ins. in a mound of stone, for the cor. of secs. 33 and 34, with brass cap marked, T38S \| R13W / S33 \| S34 / 1918 |
| | From which |
| | A yellow pine, 12 ins. diam., brs. N.46°E. 5 lks. dist., marked T 38 S R 13 W S34 B T. |
| | A mahogany, 6 ins. diam., brs. N.45½°W. 69 lks. dist., marked T 38 S R 13 W S33 B T. |
| | Land, mountainous; N. exposure and drainage on N. 30.35 chs., E. exposure and drainage on remainder. |
| | Soil, clay loam with gravel and loose rocks. |
| | Timber, few scattering cedar and pinon. |
| | Undergrowth, oak, sallal, manzanita and sage. Good grazing. |
| | From the reestablished ¼ cor. of secs. 9 and 10, N.0°01'W., bet. secs. 9 and 10, N. half. |
| | Ascend gentle S. slope, through dense cedar and pinon timber and oak and sage undergrowth. |
| 38.20 | Wash, 10 lks. wide, 2 ft. deep, course S.15°W. |
| 39.09 | Permanent corner of secs. 3, 4, 9, and 10 later set at this point. |
| 39.30 | 300 ft. above ¼ cor., Set temp. sec. cor. permanent cor. |

Chains

set 21 lks. S. of this point, for description of same see line bet. secs. 3 and 10.

Land, gently sloping bench; S. exposure and drainage.

Soil, clay loam and loose rocks.

Timber, cedar and pinon.

Undergrowth, oak, sallal, manzanita and sage. Fair grazing.

---

From the cor. of secs. 2,3,10 and 11,

West, on a random line bet. secs. 3 and 10.

40.00 Set temp. ¼ cor.

80.76 Intersect N. and S. line, 21 lks. S, of the temp. cor. of secs. 3,4,9 and 10. At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground, and 4 ins. in a mound of stone, for the cor. of secs. 3,4,9 and 10, with brass cap marked,

T38S R13W

| | |
|---|---|
| S4 | S3 |
| S9 | S10 |

1918

From which

A cedar, 7 ins. diam., brs. N.53½°E. 64 lks. dist., marked T 38 S R 13 W S 3 B T.

A pinon, 8 ins. diam., brs. S.34¾°E. 66 lks. dist., marked T 38 S R 13 W S 10 B T.

A pinon, 10 ins.diam., brs. S.1°W. 1 lks dist., marked T 38 S R 13 W S 9 B T.

A cedar, 8 ins. diam., brs. N.47½°W. 76 lks. dist., marked T 38 S R 13 W S 4 B T.

Thence

East, on true line bet. secs. 3 and 10.---

Across broken bench, through dense cedar and pinon timber and oak and sage undergrowth.

2.00 Spur, 60 ft. above cor., projects S.

12.90 Wash, 15 lks. wide, 2 ft. deep, 125 ft. below spur, course S.20°W.

35.00 Wash, 20 lks. wide, 3 ft. deep, course S.

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| 40.00 | In dense cedar and pinon timber, 20 ft. above wash, Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, to solid rock, and 8 ins. in a mound of stone, for the ¼ cor. of sec. 3 only, with brass cap marked<br>S3 ¼<br>1918<br>From which<br>A cedar, 6 ins. diam., brs. North 1 lk. dist., marked ¼ S 3 B T.<br>A cedar, 6 ins. diam., brs. N.73½°W. 37 lks. dist., marked ¼ S 3 B T. |
| 40.38 | Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, and 8 ins. in a mound of stone, for the ¼ cor. of sec. 10 only, with brass cap marked,<br>¼ S10<br>1918<br>From which<br>A cedar, 5 ins. diam., brs. S.1°W. 25 lks. dist., marked ¼ S 10 B T.<br>A cedar, 6 ins. diam., brs. S.48½°W. 47 lks. dist., marked ¼ S 10 B T. |
| 55.20 | Wash, 15 lks. wide, 4 ft. deep, course S.16°W. 90 ft. below ¼ cors. |
| 57.00 | Wash, 20 lks. wide, 5 ft. deep, course, S.15°W. |
| 61.80 | Spur, 100 ft. above washes, projects S. |
| 80.76 | The cor. of secs. 2,3,10 and 11. 90 ft. below spur.<br>Land, broken bench; S. exposure and drainage.<br>Soil, clay loam and loose rocks.<br>Timber, cedar and pinon.<br>Undergrowth, oak, manzanita, sallal and sage. Fair grazing. |
| | From the cor. of secs. 3,4,9 and 10,<br>N.0°01'W., bet. secs. 3 and 4.<br>Over mountainous land, through dense cedar and pinon timber, and oak and sage undergrowth. |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| 32.00 | Spur, 410 ft. above cor., projects SE. |
| 40.00 | At foot of NE. slope, 100 ft. below spur, Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor., with brass cap marked, ¼ / S4 \| S3 / 1918 From which A pinon, 8 ins. diam., brs. N.8¾°E. 304 lks. dist., marked ¼ S 3 B T. A pinon, 6 ins. diam., brs. N.21¾°W. 215 lks. dist., marked ¼ S 4 B T. |
| 40.90 | Bend in wash, course SE. from NE. |
| | Ascend SE. slope through oak and sage undergrowth. |
| 75.90 | Approximately, turn in road, brs. SW. and NW. |
| 77.50 | Wash, 15 lks. wide, 3 ft. deep, course S.30°E. |
| 97.83 | Intersect N. boundary of T. 1.41 chs. S.89°33'W. from the restored cor. of secs. 33 and 34. At intersection, set cor. of secs. 3 and 4 as described on page 9. |
| | Land, mountainous; general S. exposure and drainage. |
| | Soil, gravelly clay loam and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sallal, sage and manzanita brush. Fair grazing. |
| | From the cor. of secs. 4,5,32 and 33, on S. bdy. of Tp. N.0°01'W., bet. secs. 32 and 33. |
| | Descend over rough mountainous land, through dense pine and fir timber and undergrowth. |
| 11.00 | Bottom of canyon, 420 ft. below cor., course E. Leave timber, brs. E. and W. Ascend over cliffs. |
| 18.00 | Top of abrupt cliffs, brs. E. and W. |
| 21.00 | Top of sharp rocky ridge, 310 ft. above canyon, brs. E. and W. Enter dense timber, brs. E. and W. |
| 40.00 | On steep NE. slope, 530 ft. below ridge, Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in |

SUBDIVISIONS OF T.38 S.,R.13 W.

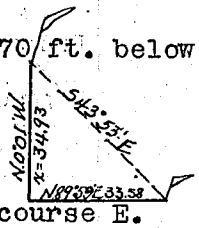
| Chains | |
|---|---|
| | the ground, to solid rock, and 16 ins. in a mound of stone, for the ¼ cor., with brass cap marked, |
| | ¼ / S32 \| S33 / 1918 |
| | From which |
| | A balsam, 6 ins. diam., brs. N.68½°E. 95 lks. dist., marked ¼ S 33 B T. |
| | A cedar, 20 ins. diam., brs. N.75°W. 245 lks. dist., marked ¼ S32 B T. |
| 47.70 | Spur, 120 ft. above ¼ cor., projects E. |
| 54.85 | Bottom of draw, 300 ft. below spur, drains E. |
| 63.90 | Spur, 65 ft. above draw, projects NE. |
| 80.00 | In dense oak brush, 500 ft. below spur, |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 28,29,32 and 33, with brass cap marked, |
| | T38S R13W / S29 \| S28 / S32 \| S33 / 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rough mountainous; granite formation; general NE. exposure and drainage. |
| | Soil, clay loam in loose rocks and cliffs. |
| | Timber, pine and fir. |
| | Undergrowth, oak, manzanita and sallal brush. Fair grazing on N. half. |
| | --- |
| | East, on a random line bet. secs. 28 and 33. |
| 40.00 | Set temp. ¼ cor. |
| 78.45 | Intersect line bet. secs. 33 and 34 S. 5.15 chs. from the cor. of secs. 27,28,33 and 34. I destroy marks on cor. and bearing tree referring to secs. on W. and at point of intersection, |
| | Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | the ground, for the cor. of secs. 28 and 33, with brass cap marked, T38S / S28 / S33 / R13W / 1918 |
| | From which |
| | A pinon, 6 ins. diam., brs. S.60¼°W. 142 lks. dist., marked T 38 S R 13 W S 33 B T. |
| | A cedar, 8 ins. diam., brs. N.18½°W. 236 lks. dist., marked T 38 S R 13 W S 28 B T. |
| | Thence |
| | West, on true line bet. secs. 28 and 33. |
| | Over mountainous land, through dense oak, sallal and manzantia undergrowth. |
| 1.25 | Wash, 15 lks. wide, 2 ft. deep, course NE. |
| 17.50 | Ridge, 525 ft. above cor., brs. N. and S. |
| | Descend steep W. slope, through scattering cedar and pinon timber and undergrowth. |
| 29.00 | Wash, 40 lks. wide, 5 ft. deep, 360 ft. below ridge, course N.15°W. End of descent. |
| 38.45 | On gentle N. slope, in dense oaks, 50 ft. above wash, Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor., with brass cap marked, S28 / ¼ / S33 / 1918 |
| | From which |
| | A cedar, 12 ins. diam., brs. N.11°W. 100 lks. dist., marked ¼ S 28 B T. |
| | A pinon, 8 ins. diam., brs. S.56¼°E. 268 lks. dist., marked ¼ S 33 B T. |
| | Over broken bench, through dense oak, sallal and manzanita brush. |
| 47.85 | Wash, 10 lks. wide, 3 ft. deep, course N. |
| 57.15 | Wash, 1 ch. wide, 40 ft. deep, course N. |
| 73.60 | Spur, 410 ft. above ¼ cor., projects N.30°E. |
| 78.45 | The cor. of secs. 28,29,32 and 33. 110 ft. below spur. |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | Land, mountainous and broken bench. E. exposure and drainage on E. 17.50 chs. N. exposure and drainage on remainder. |
| | Soil, clay loam and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sallal, manzanita and sage, Fair grazing. |
| | --- |
| | N.0°01'W., bet. secs. 28 and 29. |
| | Over mountainous land, through scattering cedar and pinon timber and oak, sallal and manzanita undergrowth. |
| | To avoid dense undergrowth and boulders I triangulate as follows- Set a flag on line to N. also chain a base N.89°59'E. 33.58 chs. and set a flag. I now proceed to the flag set on line to N. from which the flag at E. end of base brs. S.43°53'E. The required distance then is 33.58 x cotan 43°52' or 33.58 x 1.04036 = 34.93 chs. |
| | Approximate topography, |
| 3.50 | Wash, 40 lks. wide, 5 ft. deep, in canyon, 70 ft. below cor., course NE. |
| 17.50 | Spur, trail on top of spur, projects E. |
| 20.00 | Wash, 16 lks. wide, 5 ft. deep, in canyon, course E. |
| 34.93 | Triangulation flag, on ridge, 670 ft. above wash at 3.50 chs., brs. N.80°E. and S.80°W. |
| | Descend steep N. slope, through dense manzanita, sallal and oak undergrowth. |
| 40.00 | 80 ft. below top of ridge, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, to solid rock, and 6 ins. in a mound of stone, for the ¼ cor., with brass cap marked, |
| | ¼ S29 \| S28 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 56.00 | Enter scattering cedar and pinon timber, brs. E. and W. |
| 79.84 | Point for the cor. of secs. 20 and 29. |
| 86.61 | In dense oak undergrowth, 770 ft. below ¼ cor., |



SUBDIVISIONS OF T.38 S.,R.13 W.

Chains

Intersect line bet. secs. 21 and 28 east 2.57 chs. from the cor. of sec. 21. At point of intersection,

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

| T38S | R13W |
|---|---|
| S20 | S28 |

1918

From which

A cedar, 6 ins. diam., brs. S.3½°E. 31 lks. dist., marked T 38 S R 13 W S 28 B T.

An oak, 4 ins, diam., brs. S.22¾°W. 43 lks. dist., marked T 38 S R 13 W S 20 B T.

Land, mountainous; SE. exposure and drainage on S. 34.93 chs., N. exposure and drainage on remainder.

Soil, little clay loam and loose rocks, among boulders.

Timber, scattering cedar and pinon on N. 30.61 chs.

Undergrowth, dense oak, manzanita, sallal and sage. Poor grazing.

---

From the reestablished ¼ cor. of sec. 21, heretofore described, (¼ cor. sec. 28 described on page 35)

West, bet. secs. 21 and 28.

Over bench strewn with boulders, through heavy growth of cedar and pinon timber and dense oak, sallal and manzanita undergrowth.

7.10 Gulch, 50 ft. below ¼ cor., drains N.

12.80 Spur, 64 ft. above gulch, projects N.

17.90 Gulch, 40 ft. below spur, drains N.

30.00 Spur, 50 ft. above gulch, projects N.

37.52 The cor. of secs. 20 and 28,, heretofore described.

38.40 Wash, 30 lks. wide, 5 ft. deep, 164 ft. below spur, course N.10°W.

40.00 Intersect line bet. secs. 20 and 21 S. 81.30 chs. from the reestablished cor. of secs. 16 and 21. At point of intersection,

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of sec. 21, with brass cap marked, T38S / R13W / S21 |
| | 1918 |
| | From which |
| | An oak. 4 ins. diam., brs. N.32½°E. 31 lks. dist., marked T 38 S R 13 W S 21 B T. |
| | An oak, 4 ins. diam., brs. N.66½°E. 24 lks. dist., marked T 38 S R 13 W S 21 B T. |
| | Forest Service cor. brs. N.89°15'E. 136 lks. dist. |
| | Land, bench; N. exposure and drainage. |
| | Soil, little clay loam among boulders and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sallal, manzanita and sage. poor grazing. |
| | From the reestablished Cor. of secs. 16 and 21, |
| | South, on a blank line bet. secs. 20 and 21. |
| 81.30 | Intersect the cor. of sec. 21, above described. |
| | Thence |
| | North, on true line bet. secs. 20 and 21. |
| | Over bench land, through medium growth of cedar and pinon timber and dense oak, sallal, manzanita and sage undergrowth. |
| 1.00 | Wash, 40 lks. wide, 6 ft. deep, 10 ft. below cor., course E. about 50 lks. thence NE. |
| 8.00 | Wash, 20 lks. wide, 3 ft. deep, course E. |
| 33.34½ | Point midway (½ northing) bet. cor. of secs. 17 and 20 and the cor. of secs. 20 and 29, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 2 ins. in the ground, to solid rock, and 24 ins. in a mound of stone, for the ¼ cor. of sec. 20, with brass cap marked, S20 ¼ |
| | 1918 |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | From which |
| | A cedar, 8 ins. diam., brs. N.53°W. 60 lks. dist., marked ¼ S 20 B T. |
| | A cedar, 10 ins. diam., brs. S.32°W. 80 lks. dist., marked ¼ S 20 B T. |
| 40.65 | Point midway bet. the cor. of sec. 21 and the cor. of secs. 16 and 21, 50 ft. below sec. cor., |
| | Set an iron post, 3 ft. long, 1 in. in diam., 2 ins. in the ground, to solid rock, and 24 ins. in a mound of stone, for the ¼ cor. of sec. 21, with brass cap marked, |
| | ¼ S21 \| 1918 |
| | From which |
| | A cedar, 8 ins. diam., brs. S.79½°E. 54 lks. dist., marked ¼ S 21 B T. |
| | A cedar, 8 ins. diam., brs. N.44½°E. 9 lks. dist., marked ¼ S 21 BT. |
| 55.30 | Wash, 30 lks. wide, 4 ft. deep, 10 ft. below ¼ cor., course E. |
| 60.60 | Barbed wire fence, brs. N.30°E. and S.30°W. |
| 62.70 | Creek, 6 lks. wide, 4 ins. deep, in wash, 2 chs. wide, 10 ft. deep, 25 ft. below ¼ cor., course E. |
| 67.70 | Creek, 6 lks. wide, 5 ins. deep, in wash, 80 lks. wide, 8 ft. deep, course S.80°E. |
| 73.46 | Point for the cor. of secs. 17 and 20. |
| 81.30 | The reestablished cor. of secs. 16 and 21. 60 ft. above creek. |
| | Land, bench; E. exposure and drainage. |
| | Soil, clay loam in loose rocks and boulders. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, manzanita, sallal and sage. Fair grazing. |
| | --- |
| | From the reestablished cor. of secs. 9 and 16, |
| | N.0°02'W., on W. boundary of sec. 9. |
| | Ascend and descend across broken E. slope, through medium |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | growth of cedar and pinon timber and dense oak and sage undergrowth. |
| 31.82 | Point midway bet. the cor. of secs. 8 and 17 and the cor. of secs. 5 and 8, 40 ft. below sec. cor., |
| | Set an iron post, 3 ft. long, 1 in. in diam., 2 ins. in the ground, to solid rock, and 24 ins. in a mound of stone, for the ¼ cor. of sec. 8, with brass cap marked, |
| | S8 ¼ \| 1918 |
| | From which |
| | A cedar, 8 ins. diam., brs. S.65°W. 37 lks. dist., marked ¼ S 8 B T. |
| | A cedar, 8 ins. diam., brs. N.45°W. 192 lks. dist., marked ¼ S 8 B T. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, to solid rock, and 20 ins. in a mound of stone, for the ¼ cor. of sec. 9 only, with brass cap marked, |
| | ¼ \| S9 1918 |
| | From which |
| | A cedar, 5 ins. diam., brs. N.80°E. 78 lks. dist., marked ¼ S 9 B T. |
| | A cedar, 8 ins. diam., brs. S.38½°E. 166 lks. dist., marked ¼ S 9 B T. |
| 52.30 | Road, brs. SE. to New Harmony and NW. to Pinto. |
| 59.60 | Wash, 40 lks. wide, 3 ft. deep, 40 ft. below ¼ cor., course SE. Canal intake on E. bank of wash at this point. |
| 71.80 | Point for the cor. of secs. 8 and 5. |
| 79.22 | Permanent cor. of secs. 4 and 9 later set at this point. |
| 79.30 | 165 ft. above wash, set temp. sec. cor. Permanent cor. of secs. 4 and 9 set 8 lks. S. of this point, for description of same see line bet. secs. 4 and 9. |
| | Land, broken gentle E. slope; E. exposure and drainage. |
| | Soil, shallow clay loam and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sage, sallal and manzanita. Fair grazing. |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | From the cor. of secs. 3,4,9 and 10, |
| | West, on a random line bet. secs. 4 and 9. |
| 40.00 | Set temp. ¼ cor. |
| 80.80 | Intersect N. and S. line 8 lks. S. of the temp.cor.of. secs. 4 and 9. At point of intersection, |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground, to solid rock, and 16 ins. in a mound of stone, for the cor. of secs. 4 and 9 only, with brass cap marked, |
| | T38S<br>S4<br>S9<br>R13W<br>1918 |
| | From which |
| | A cedar, 4 ins. diam., brs. N.38¾°E. 49 lks. dist., marked T 38 S R 13 W S 4 B T. |
| | A cedar, 5 ins. diam., brs. S.56¼°E. 83 lks. dist., marked T 38 S R 13 W S 9 B T. |
| | Thence |
| | East, on true line bet. secs. 4 and 9. |
| | Over rolling foothills, through scattering cedar and pinon timber and dense oak, sallal, sage and mamzanita. undergrowth. |
| 23.80 | Road, brs. S.30°E. to New Harmony and N.30°W. to Kirker's double cabin. |
| 24.30 | Wash, 90 lks. wide, 4 ft. deep, 240 ft. below cor., course S.30°E. |
| 29.80 | Spur, 180 ft. above wash, projects S. |
| 31.70 | Wash, 10 lks. wide, 3 ft. deep, 60 ft. below spur, course S.20°W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, and 10 ins. in a mound of stone, for the ¼ cor. of sec. 4 only, with brass cap marked, |
| | S4<br>¼<br>1918 |
| | From which |
| | A cedar, 6 ins. diam., brs. N.75¾°W. 22 lks. dist., |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | Marked ¼ S 4 B T. |
| | A piñon, 8 ins. diam., brs. N.77°E. 32 lks. dist., marked ¼ S 4 B T. |
| 40.80 | In dense cedars, 150 ft. above wash, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor. of sec. 9 only, with brass cap marked, |
| | ¼ S 9 / 1918 |
| | From which |
| | A cedar, 12 ins. diam., brs. S.62½°E. 54 lks. dist., marked ¼ S 9 B T. |
| | A cedar, 7 ins. diam., brs. S.69½°W. 110 lks. dist., marked ¼ S 9 B T. |
| 45.90 | Wash, 15 lks. wide, 3 ft. deep, 30 ft. below ¼ cor., course SW. |
| 53.80 | Wash, 10 lks. wide, 2 ft. deep, cpurse S. |
| 60.10 | Wash, 10 lks. wide, 2 ft. deep, course S. |
| 60.50 | Road, brs. S.15°E. and N.15°W. |
| 71.20 | Wash, 8 lks. wide, 2 ft. deep, course S. |
| 77.60 | Wash, 6 lks. wide, 3 ft. deep, course S. |
| 78.20 | Spur, 80 ft. above wash at 45.90 chs. projects S. |
| 80.80 | The cor. of secs. 3,4,9 and 10. 90 ft. below spur. |
| | Land, bench and foothills; S. exposure and drainage. |
| | Soil, heavy clay loam and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sage, sallal and manzanita. Poor grazing. |
| | --- |
| | From the cor. of secs. 4 and 9. |
| | N.0°02'W., bet. secs. 4 and 5. |
| | Over broken mountainous land, through scattering cedar and pinon timber and oak and aage undergrowth. |
| 12.40 | Wash, 15 lks. wide, 3 ft. deep, 80 ft. below cor., course E. |
| 32.58 | Point 40 chs. from the cor. of secs. 5 and 8, on steep E. slope, 85 ft. above wash, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | the ground, for the ¼ cor. of sec. 5 only, with brass cap marked, S5 ¼ \| 1918 |
| | From which |
| | A pinon, 6 ins. diam., brs. S.1°W. 11 lks. dist., marked ¼ S 5 B T. |
| | A cedar, 18 ins. diam., brs. N.53°W. 67 lks. dist., marked ¼ S 5 B T. |
| 40.00 | In S. bank of wash, 60 lks. wide, 5 ft. deep, 150 ft. below ¼ cor. sec. 5, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor. of sec. 4 only, with brass cap marked, ¼ S4 \| 1918 |
| | From which |
| | A cedar, 8 ins. diam., brs. N.76°E. 179 lks. dist., marked ¼ S 4 B T. |
| | A cedar, 12 ins. diam., brs. S.55¾°E. 293 lks. dist., marked ¼ S 4 B T. |
| 40.30 | Creek, 1 lks wide, 2 ins. deep, course S.60°E. |
| 42.00 | Road, brs. S.50°E. to New Harmony and N.50°W. to Kirker's double cabin. |
| 54.40 | Spur, 125 ft. above ¼ cor. sec. 4, projects SW. |
| 55.70 | Wood road, brs. NE. and SW. |
| 73.35 | Wash, 12 lks. wide, 2 ft. deep, 60 ft. below ridge, course S.30°W. |
| 98.11 | IntersectN. boundary of T. 1.13 chs. N.89°17'W. from the restored cor. of secs. 32 and 33. At intersection, set cor. of secs. 4 and 5 as described on page 7. |
| | Land, mountainous; E. exposure and drainage on S. 40.00 chs., W. exposure and drainage on remainder. |
| | Soil, coarse clay loam with loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sage, sallal and manzanita. Fair grazing. |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | From the cor. of secs. 5,6,31 and 32, on S.bdy.of Tp. N.0°01'W., bet. secs. 31 and 32. |
| | Descend over mountainous land, through pine and fir timber and scattering oak undergrowth. |
| 22.16 | Spring branch, 4 lks. wide, 3 ins. deep, in canyon, 330 ft. below cor., course E. |
| 26.10 | Ridge, 90 ft. above canyon, brs. N.65°E. and S.65°W. |
| | Descend steep N. slope, through dense aspen, pine and fir timber. |
| 38.00 | Bottom of canyon, 520 ft. below ridge, course NE. |
| 40.00 | In dense manzanita brush, 30 ft. above canyon, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, to solid rock, and 16 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked, |
| | $\frac{1}{4}$ S31 \| S32 1918 |
| | From which |
| | A yellow pine, 10 ins. diam., brs. N.69$\frac{3}{4}$°E. 117 lks. dist., marked $\frac{1}{4}$ S 32 B T. |
| | A fir, 6 ins. diam., brs. S.43°W. 22 lks. dist., marked $\frac{1}{4}$ S 31 B T. |
| 41.000 | Low spur, 20 ft. above $\frac{1}{4}$ cor., projects E. |
| 44.00 | Draw, 40 ft. below spur, drains E. |
| | Ascend steep SE. slope, through scattering pine and fir timber and dense oak, manzanita and sallal undergrowth. |
| 52.60 | Top of ascent, on spur, 220 ft. above draw, spur projects NE. Descend steep N. slope. |
| 70.46 | On steep N. slope, 650 ft. below spur, read stadia as follows to avoid steep brushy slope. Rod reading 6.23 ft, vertical angle -16°16'. The horizontal distance then is 2 x 6.23 x 0.9215 = 11.48 chs. which added to 70.46 chs. makes 81.94 chs. I now return S.0°02'E. 1.94 chs. and set temp. sec. cor. |
| | Approximately topography. |
| 78.00 | Wash, 60 lks. wide, 5 ft. deep, in canyon, 910 ft. below spur, course E. |

SUBDIVISIONS OF T.38 S.,R.13 W.

Chains

80.00 On steep S. slope, in dense oak and manzanita, 40 ft. above wash, the temp. sec. cor.,

Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground, to solid rock, and 14 ins. in a mound of stone, for the cor. of secs. 29,30,31 and 32, with brass cap marked,

T38S R13W

| | |
|---|---|
| S30 | S29 |
| S31 | S32 |

1918

From which

A yellow pine, 24 ins. diam., brs. S.59¼°W. 168 lks. dist., marked T 38 S r 13 W S 31 B T.

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

No other bearing trees available.

Land, rough mountainous; N. and S. exposures and E. drainage.

Soil, coarse clay loam and loose rocks.

Timber, pine, fir and aspen.

Undergrowth, oak, manzanita, sallal and second growth timber. Poor grazing.

---

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

Impracticable to chain across deep canyon, over boulders and through dense undergrowth and timber, therefore I triangulate as follows- Set a flag on line on ridge to E. of cor., also measure a base S. 27.39 chs. and set a flag. I now proceed to the flag set to E. from which the flag at S. end of base brs. S.59°30'W. The required distance then is 27.39 x tan 59°30' or 27.39 x 1.69766= 46.50 chs. It is also impracticable to chain the remainder of the mile on account of brush and boulders, therefore I triangulate as follows- The cor. of secs. 28,29, 32 and 33 is plainly visible from the flag on ridge and brs. N.89°56'E. Also flag on line bet. secs. 28 and 29 and set N.0°02'W. 34.93 chs. dist. from the above cor. is visible and brs. N.43°34'E. The required distance

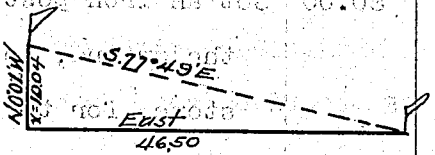
SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | from flag on ridge to cor. then is $\frac{34.93 \times \sin 43°35'}{\text{Sin } 46°22'}$ |
| | log 34.93 = 1.543199 |
| | log sin 43°35' = 9.838477 |
| | colog sin 46°22' = 0.140399 |
| | log dist. = 1.522075 |
| | dist. = 33.27 chs. which added to 46.50 chs. makes |
| 79.77 | Fall 4 lks. S. of the cor. of secs. 28,29,32 and 33. |
| | Thence |
| | S.89°58'W., on true line bet. secs. 29 and 32. |
| | Over rough mountainous land, through dense oak, manzanita, and sallal undergrowth. |
| | Approximate topography. |
| 3.80 | Wash, 40 lks. wide, 6 ft. deep, in canyon, 50 ft. below cor., course NE. |
| 33.27 | Triangulation point on top of ridge, 880 ft. above wash, ridge brs. N. and S. |
| 39.88½ | On steep W. slope, 170 ft. below ridge, |
| | Set an iron post, 3ft. long, 1 in. in diam., 10 ins. in the ground, to rock, and 16 ins. in a mound of stone, for the ¼ cor., with brass cap marked, |
| | S29 / ¼ / S32 / 1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 49.80 | Creek, 6 lks. wide, 6 ins. deep, in canyon, 630 ft. below ¼ cor., course N. |
| | Ascend across point of spur, through scattering pine and fir timber and dense oak, manzanita and sallal undergrowth. |
| 57.50 | Point of spur, 100 ft. above creek, projects NE. |
| 64.00 | Wash, 50 lks. wide, 5 ft. deep, in canyon, 40 ft. below spur, course N.70°E. |
| 79.77 | The cor. of secs. 29,30,31 and 32. 80 ft. above wash. |
| | Land, rough mountainous; E. and W. exposure, N. drainage. |
| | Soil, shallow clay loam in loose rocks. |
| | Timber, scattering pine and fir. |
| | Undergrowth, oak, manzanita and sallal brush. Poor grazing. |

SUBDIVISIONS OF T. 36 S., R. 13 W.

| Chains | |
|---|---|
| | West, on a random line bet. secs. 30 and 31. |
| 40.00 | Set temp. ¼ cor. |
| 40.32 | Practically impossible to chain remainder of mile and it is impossible to secure a base for triangulation therefore I read stadia as follows- Rod reading bet. middle and upper wires, 9.87 and 9.82 ft. bet. middle and lower wires 9.85 and 9.82 ft. the mean of which gives 19.68 ft. bet. extreme wires. Vertical angle + 9°58'. The horizontal distance then is 2 x 19.68 x 0.9700 = 38.18 chs. which added to 40.32 chs. gives |
| 78.50 | Fall 12 lks. S. of the cor. of secs. 25,30,31 and 36, on W.bdy. of Tp. Thence |
| | S.89°55'E., on true line bet. secs. 30 and 31. |
| | Over rough mountainous land, through scattering pine and fir and mahogany timber and dense oak, manzanita, sallal and scrub mahogany undergrowth. |
| | Approximate topography. |
| 17.50 | Creek, 8 lks. wide, 6 ins. deep, in canyon, 880 ft. below cor., course N.30°E. |
| | Ascend steep W. slope over cliffs and boulders, through dense timber and undergrowth. |
| 38.50 | In heavy pine and fir timber, 430 ft. above creek, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the ¼ cor., with brass cap marked, |
| | S30<br>¼<br>S31<br>1918 |
| | From which |
| | A yellow pine, 22 ins. diam., brs. N.12°E. 6 lks., dist., marked ¼ S 30 B T. |
| | A yellow pine, 26 ins. diam., brs. S.24½°W. 43 lks. dist., marked ¼ S 31 B T. |
| 39.50 | Top of ridge, 20 ft. above ¼ cor., brs. NE. and SW. |
| 41.00 | Leave heavy timber, descend rough SE. slope through scattering timber and dense undergrowth. |
| 78.50 | The cor. of secs. 29,30,31 and 32. 1100 ft. below ridge. |
| | Land, rough mountainous; general E. and W. exposure and |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | drainage. |
| | Soil, little coarse clay loam among loose rocks and boulders. |
| | Timber, pine, fir, mahogany, cedar and pinon. |
| | Undergrowth, manzanita, oak, sallal and scrub mahogany. |
| | Poor grazing. |
| | N.0°01'W., bet. secs. 29 and 30. |
| | Ascend over rough mountainous land, through scattering cedar and pinon timber and dense manzanita, oak and sallal undergrowth. |
| | To avoid cliffs and dense undergrowth, I triangulate as follows: Set a flag on line to N. and knowing that the distance to the flag set E. of cor. on ridge is 46.50 chs., I use this as a base. I now proceed to the flag set on line to N. from which the flag at E. end of base brs. S.77°49'E. The required distance then is |
| | $\frac{46.50 \times \sin 12°11'}{\text{Sin } 77°48'} =$ |
| | log 46.50 = 1.667453<br>log sin 12°11' = 9.324366<br>colog sin 77°48' = 0.009921<br>log dist. 1.001740<br>dist. 10.04 chs. |
| |  |
| 10.50 | Top of spur, 340 ft. above cor., projects E. |
| | Ascend gradually across E. slope. |
| 29.40 | End ascent, spur, 70 ft. above spur at 10.50 chs., projects NE. Descend through dense timber and undergrowth. |
| 40.00 | On steep NW. slope, 526 ft. below end ascent, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, to rock, and 18 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked, |
| | $\frac{1}{4}$ \| S30 \| S29<br>1918 |
| | From which |
| | A balsam fir, 6 ins. diam., brs. N.4½°E. 75 lks. dist., marked $\frac{1}{4}$ S 29 B.T. |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | No other bearing tree available. |
| 46.10 | Draw, 270 ft. below ¼ cor., drains N.60°E. |
| 52.34 | Top of large boulder, on ridge, 160 ft. above draw, ridge brs. N.60°E. and S.60°W. |
| | Impossible to chain across deep canyon over cliffs and through dense undergrowth and timber, therefore I read stadia as follows- Rod 10.48 ft., vertical angle -1°38' the horizontal distance then is 2 x 10.48 x 0.9992 = 20.94 chs. which added to 52.34 gives 73.28 chs. |
| | Approximate topography. |
| 60.00 | Creek, 10 lks. wide, 4 ins. deep, in canyon, 380 ft. below ridge, course E. Dense pine and fir timber along banks of creek. |
| 73.28 | Spur, 360 ft. above canyon, projects E. |
| | Thence across steep E. slope, through dense manzanita, mahogany and oak. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground, to solid rock, and 14 ins. in a mound of stone, for the cor. of secs. 19,20,29 and 30, with brass cap marked, T38S \| R13W / S19 \| S20 / S30 \| S29 / 1918 |
| | From which |
| | A mahogany limb, 4 ins. diam., brs. N.18½°W., 39 lks. dist., marked T 38 S R 13 W S 19 B T. |
| | A + B 0 on granite boulder, 10x8x20 ft. high, brs. N.25°E. 50 lks. dist. |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | No other bearing trees available. |
| | Land, rough mountainous; granite formation, N. and S. exposures and E. drainage. |
| | Soil, clay loam among rocks and boulders. |
| | Timber, pine and fir, scattering cedar and mahogany. |
| | Undergrowth, manzanita, oak, sallal and scrub mahogany. |

SUBDIVISIONS OF T.38 S.,R.13 W.

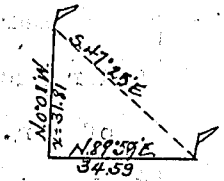
| Chains | |
|---|---|
| | East, on a random line bet. secs. 20 and 29. |
| 40.00 | Set temp. ¼ cor. |
| 79.66 | Intersect N. and S. line 6.77 chs. S.0°02'E. from the cor. of secs. 20 and 28. At point of intersection, |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground, to solid rock, and 18 ins. in a mound of stone, for the cor. of secs. 20 and 29 only, with brass cap marked, |
| | T38S<br>S20<br>S29<br>R13W<br>1918 |
| | From which |
| | A cedar, 9 ins. diam., brs. S.55½°W. 192 lks. dist., marked T 38 S R 13 W S 29 B T. |
| | A cedar, 14 ins. diam., brs. N.17½°W. 144 lks. dist., marked T 38 S R 13 W S 20 B T. |
| | Thence |
| | West, on true line bet. secs. 20 and 29. |
| | Over mountainous land, through scattering cedar and pinon timber and dense oak, sallal and manzanita undergrowth. |
| 3.30 | Wash, 40 lks. wide, 5 ft. deep, through huge boulders, 20 ft. below cor., course N. |
| 34.70 | Spur, 360 ft. above wash, projects N. |
| 39.83 | Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, to solid rock, and 18 ins. in a mound of stone, for the ¼ cor., with brass cap marked, |
| | S20<br>¼<br>S29<br>1918 |
| | From which |
| | A cedar, 6 ins. diam., brs. N.3¼°E. 150 lks. dist., marked ¼ S 20 B T. |
| | A cedar, 4 ins. diam., brs. S.30½°E. 26 lks. dist., marked ¼ S 29 B T. |
| 35.22 | Granite boulder, 40x15x10 ft. high, |
| | Descend steep NW. slope, over cliffs and boulders, through dense undergrowth. |

.SUBDIVISIONS .OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| 62.70 | Creek, 10 lks. wide, 6 ins. deep, in canyon, 270 ft. below ¼ cor., course N.30°E. |
| | Ascend steep E. slope, through dense undergrowth and scattering timber. |
| 79.66 | The cor. of secs. 19,20,29 and 30. 450 ft. above creek. |
| | Land, mountainous; N. exposure and drainage on E. 62.70 chs., E. exposure and drainage on remainder. |
| | Soil, little coarse clay loam and loose rocks and boulders. |
| | Timber, scattering cedar and pinon. |
| | Undergrowth, dense oak, sallal, manzanita and scrub mahogany. Poor grazing. |
| | --- |
| | N.89°55'W., on random line bet. secs. 19 and 30. |
| 32.44 | Impossible to chain further on account of cliffs and dense timber and undergrowth, therefore I read stadia as follows- Rod 6.52 ft., vertical angle -14°08', the horizontal distance then is 2 x 6.52 x 0.9404 = 12.26 chs. which added to 32.44 chs. gives |
| 44.70 | Set temp. ¼ cor. |
| 78.30 | Intersect W. boundary of T. 23 lks. S. of the cor. of secs. 19,24,25 and 30. |
| | Thence |
| | S.89°45'E., on true line bet. secs. 19 and 30. |
| | Over rough mountainous land, through scattering cedar and pinon timber and dense oak, sallal, manzanita and scrub mahogany undergrowth. |
| 3.70 | Spur, 30 ft. above cor., projects S. |
| 34.05 | On N. bank of wash, in canyon, in dense undergrowth, 780 ft. below sec. cor., |
| | Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, to solid rock, and 16 ins. in a mound of stone, for the witness cor. to the ¼ cor., with brass cap marked, |
| | S19<br>¼<br>WC<br>S30<br>1918 |
| | And raise a mound of stone, 2 ft. base, 1½ ft. high, N. |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | of cor. |
| 34.50 | Wash, 40 lks. wide, 6 ft. deep, in canyon, 10 ft. below witness ¼ cor., course NE. |
| 38.50 | Point for ¼ sec. cor.; cor. not set. |
| 46.80 | Top of ledges, 200 ft. above canyon, brs. NE. and SW. |
| 62.70 | Bottom of draw, 140 ft. below top of ledges, drains NE. |
| 70.50 | Spur, 105 ft. above draw, projects NE. |
| 78.30 | The cor. of secs. 19,20,29 and 30. 200 ft. below spur. |
| | Land, mountainous; SE. exposure and drainage on W. 34.50 chs., N. exposure and drainage on remainder. |
| | Soil, little clay loam among loose rocks and boulders. |
| | Timber, scattering cedar and pinon. |
| | Undergrowth, oak, sallal, manzanita and scrub mahogany. Poor grazing. |
| | --- |
| | N.0°01'W., bet. secs. 19 and 20. |
| | Over mountainous land, through cedar and pinon timber and dense oak, sallal, manzanita and scrub mahogany undergrowth. |
| | Dense brush and boulders make chaining impracticable, therefore I triangulate as follows- Set a flag on line to N. and measure a base N.89°59'E. 34.59 chs. and set flag. I now proceed to the flag set on line to N. from which the flag set at E. end of base brs. S.47°25'E. The required distance then is 34.59 x cotan 47°24' or 34.59 x 0.91955 = 31.81 chs. |
| | Approximate topography, |
| 4.40 | Spur, 30 ft. above cor., projects NE. |
| | Descend steep NW. slope, through scattering cedar and pinon timber and dense undergrowth. |
| 16.00 | Wash, 50 lks. wide, 8 ft. deep, in canyon, 600 ft. below spur, course N.65°E. |
| 31.81 | Triangulation flag, on large boulder on spur, 500 ft. above canyon, spur projects E. |
| | Descend and ascend across rough broken E. slope, over boulders, through dense cedar and pinon timber and undergrowth. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., on solid |



Chains

rock, 26 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked,

$\frac{1}{4}$

S19 | S20

1918

From which

A pinon, 8 ins. diam., brs. S.77½°E. 59 lks. dist., marked $\frac{1}{4}$ S 20 B T.

A pinon, 4 ins. diam., brs. N.16°W. 9 lks. dist., marked $\frac{1}{4}$ S 19 B T.

Continue over rough broken E. slope through dense timber and undergrowth.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., on solid rock, 24 ins. in a mound of stone, for the cor. of secs. 17,18,19 and 20, with brass cap marked,

T38S R13W

S18 | S17

S19 | S20

1918

From which

A Pinon, 6 ins. diam., brs. N.84°E. 70 lks. dist., marked T 38 S R 13 W S 17 B T.

A cedar, 24 ins. diam., brs. S.50½°W. 102 lks. dist., marked T 38 S R 13 W S 19 B T.

A pinon, 18 ins. diam., brs. N.30°W. 52 lks. dist., marked T 38 S R 13 W S 18 B T.

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

No bearing tree available for SE. sec.

Land, mountainous; E. exposure and drainage.

Soil, little clay loam among loose rocks and boulders.

Timber, cedar and pinon.

Undergrowth, oak, manzanita, sallal and scrub mahogany.

Poor grazing.

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Knowing from previous surveys and retracements that the lines bet. secs. 17 and 20, 8 and 17 and 5 and 8 will not be within limits in distance or falling, I abandom

SUBDIVISIONS OF T. 38 S., R. 13 W.

Chains.

the randoms and run them East as true lines.

East on true line bet. secs. 17 and 20,

Descend over broken E. slope; through dense cedar and pinon timber and oak, sallal and manzanita undergrowth.

40.00 In dense cedar and pinon timber, 640 ft. below sec. cor. Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, to solid rock, and 18 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked

$$\frac{S\ 17}{\frac{1}{4}\ \ S\ 20}$$
1918

from which

A double pinon pine, 8 ins. diam., bears North 3 lks. dist., marked $\frac{1}{4}$ S 17 B T

A cedar 8 ins. diam., bears S. $44\frac{3}{4}°$ W. 28 lks. dist., marked $\frac{1}{4}$ S 20 B T

71.60 Wash, 2 chs. wide, 8 ft. deep, stream 6 lks. wide, 3 ins. deep, in bottom, course SE. 280 ft. below $\frac{1}{4}$ sec. cor.

77.24 Intersect W. boundary of Sec. 21, South 7.84 chs. from the re-established cor. of secs. 16 and 21. At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 17 and 20, with brass cap marked

$$\frac{T\ 38\ S\ |}{\begin{matrix}S\ 17\\ S\ 20\end{matrix}}$$
R 13 W |
1918

from which

A cedar, 4 ins. diam., bears S. $35\frac{1}{2}°$ W. 119 lks. dist., marked T 38 S R 13 W S 20 B T

A cedar, 16 ins. diam., bears N. 8° W. 126 lks. dist., marked T 38 S R 13 W S 17 B T

Land, mountainous; east exposure and drainage.

Soil, clay loam among loose rocks and boulders.

Timber, cedar and pinon pine. Undergrowth, oak, sallal, and manzanita. Poor grazing.

SUBDIVISIONS OF T. 38 S., R. 13 W.

Chains. From the cor. of secs. 17, 18, 19, and 20,
N. 89° 45' W. on random line bet. secs. 18 and 19,
40.00 Set temp. $\frac{1}{4}$ sec. cor.
78.01 Intersect the W. boundary of Tp. 26 lks. N. of the cor. of secs. 13, 18, 19, and 24. Thence
S. 89° 56' E. on true line bet. secs. 18 and 19,
Ascend over rocks and boulders; through medium growth of pine and fir timber and dense oak, sallal and manzanita undergrowth.
7.00 Spur, 40 ft. above cor., projects NE.
38.01 On steep E. slope, 600 ft. below spur,
Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, to solid rock, and 14 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked

$$\frac{S\ 18}{\frac{1}{4}\ \ S\ 19}$$
1918

from which
A pinon, 6 ins. diam., bears N. 7½° W. 35 lks. dist., marked $\frac{1}{4}$ S 18 B T
A pinon, 6 ins. diam., bears S. 66° E. 12 lks. dist., marked $\frac{1}{4}$ S 19 B T
78.01 The cor. of secs. 17, 18, 19, and 20, 600 ft. below $\frac{1}{4}$ cor.
Land, mountainous; east exposure and drainage.
Soil, clay loam among loose rocks and boulders.
Timber, pine and fir on W. 10.00 chs.; cedar and pinon on remainder.
Undergrowth, oak, sallal, manzanita and scrub mahogany.
Poor grazing.

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North bet. secs. 17 and 18,
Across broken E. slope of mountain; through dense cedar and pinon timber and oak, sallal and manzanita undergrowth.
10.50 Wash, 30 lks. wide, 5 ft. deep, in canyon, 80 ft. below cor., course E.

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| 17.00 | Spur, 75 ft. above canyon, projects E. |
| 40.00 | On S. side of draw, at foot of boulder 12 ft. high, 140 ft. below spur, Set an iron post.,3 ft. long, 1 in. in diam., 8 ins. in the ground, to solid rock, and 18 ins. in a mound of stone, for the ¼ cor., with brass cap marked, ¼ S18 \| S17 1918 From which A pinon, 8 ins. diam., brs. N.31°E. 167 lks. dist., marked ¼ S 17 B T. A pinon, 7 ins. diam., brs. N.44°W. 27 lks. dist., marked ¼ S 18 BT. |
| 40.90 | Bottom of draw, 20 ft. below ¼ cor., drains E. |
| 42.20 | Top of granite outcrop, 50 ft. above ¼ cor., brs. E. and W. |
| 71.40 | Bottom of canyon, 380 ft. below granite outcrop, course NE. |
| 76.50 | Point of spur, 30 ft. above canyon, projects NE. about 4 chs. to forks of canyon. |
| 79.60 | Wash, 30 lks. wide, 4 ft. deep, in canyon, 35 ft. below point of spur, course E. A large spring of fresh water brs. E. about 8 chs. from this point. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in the ground, to solid rock, and 8 ins. in a mound of stone, for the cor. of secs. 7,8,17 and 18, with brass cap marked, T38S R13W S7 \| S8 S18 \| S17 1918 From which An oak, 4 ins. diam., brs. N.55½°E. 87 lks. dist., marked T 38 S R 13 W S 8 B T. A pinon, 10 ins. diam., brs. S.7¼°E. 85 lks. dist., marked T 38 S R 13 W S 17 B T. A mahogany, 8 ins. diam., brs. S.41½°W. 18 lks. dist., marked T 38 S R 13 W S 18 B T. A pinon, 8 ins. diam., brs. N.47°W. 73 lks. dist., |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | marked T 38 S R 13 W S 7 B T. |
| | Land, Broken E. slope. |
| | Soil, little clay loam among loose rocks and boulders. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sallal and manzanita. Poor grazing. |
| | ---------- |
| | East, on true line bet. secs, 8 and 17. |
| | Over mountainous land, through dense cedar and pinon timber and oak, sallal and manzanita undergrowth. |
| 8.20 | Rocky spur, 90 ft. above cor., projects S.30°E. |
| 14.00 | Wash, 20 lks. wide, 3 ft. deep, in canyon, 40 ft. below spur, course S.30°E. |
| 31.00 | Ridge, 430 ft. above wash, brs. N.40°W. and S.40°E. |
| | Descend rocky E. slope, through dense cedar and pinon timber and oak and sage undergrowth. |
| 40.00 | In scattering pinon and cedar timber; 65 ft. below ridge, Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, to rock, and 20 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked, $\frac{\frac{1}{4}\ S8}{S17}$ 1918 |
| | From which |
| | A pinon, 6 ins. diam., brs. S.20$\frac{3}{4}$°E. 370 lks. dist., marked $\frac{1}{4}$ S 17 B T. |
| | A cedar, 10 ins. diam., brs. N.52$\frac{3}{4}$°W. 310 lks. dist., marked $\frac{1}{4}$ S 8 B T. |
| 66.00 | Enter dense cedar and pinon timber, brs. N. and S. |
| 77.66 | Intersect the W. boundary of sec. 16, S.0°05'W. 8.16 chs. from the reestablished cor. of secs. 9 and 16. At point of intersection, |
| | Set an iron post, 3 ft. long, 2 ins. on solid rock, 24 ins. in a mound of stone, for the cor. of secs. 8 and 17 only, with brass cap marked, $\frac{T38S\ \ S8}{S17\ \ R13W}$ 1918 |

Chains

From which

A cedar, 10 ins. diam., brs. S.85½°W. 97 lks. dist., marked T 38 S R 13 W S 17 B T.

A cedar. 10 ins. diam., brs. N.42½°W. 130 lks. dist., marked T 38 S R 13 W S 8 B T.

Land, mountainous; S. exposure and drainage on W. 31.00 chs., E. exposure and drainage on remainder.

Soil, clay loam and loose rocks.

Timber, cedar and pinon,

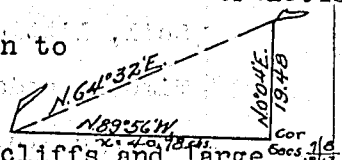
Undergrowth, oak, sallal, manzanita and sage. Poor grazing.

---

From the cor. of secs. 7,8,17 and 18,

N.89°56'W., on a random line bet. secs. 7 and 18.

Impracticable to chain on account of cliffs and large boulders and dense timber and undergrowth therefore I triangulate as follows- Set a flag on line to W. and measure a base N.0°04'E. and set a flag 19.48 chs. dist. I now proceed to the flag set on line to the W. from which the flag at the N. end of base brs. N.64°32'E. The required distance then is 19.48 x tan 64°28' or 19.48 x 2.09341 = 40.78 chs. I now return to




40.00 Set temp. ¼ cor.,

60.47 Impracticable to chain on account of cliffs and large boulders and dense timber and undergrowth; it is also impossible to lay off triangulation base therefore I read stadia as follows- Rod 8.83 ft., vertical angle +2°26'. The required distance then is 2 x 8.83 x 0.9982 or 17.63 chs. which added to 60.47 gives

78.10 Intersect W. boundary of T. 26 lks. S. of the cor. of secs. 7.12.13 and 18.

Thence

S.89°45'E., on true line bet. secs. 7 and 18.

Descend across steep N. slope, over cliffs and boulders, through dense cedar and pinon timber and dense oak, sallal, manzanita and scrub mahogany undergrowth.

17.63 Top of ridge, 50 ft. below cor., brs. S.75°W. and N.75°E.

BOOK A-114



SUBDIVISIONS OF T.38 S.,R.13 W.,

| Chains | |
|---|---|
| | Descend along top of ridge through dense timber and undergrowth. |
| 37.32 | Top of broken cliffs, triangulation point, 240 ft. below top of ridge, brs. N. and S. |
| 38.10 | Among boulders, 40 ft. below top of cliffs, Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, to solid rock, and 16 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked, $\frac{S7}{\frac{1}{4}}$ / S18 / 1918 |
| | From which A pinon, 10 ins. diam., brd. S.43°E. 108 lks. dist., marked $\frac{1}{4}$ S 18 B T. A pinon, 18 ins. diam., brs. N.26½°W. 95 lks. dist., marked $\frac{1}{4}$ S 7 B T. |
| 77.00 | Wash, 40 lks. wide, 3 ft. deep, in canyon, 700 ft. below $\frac{1}{4}$ cor., course S.80°E. |
| 78.10 | The cor. of secs. 7,8,17 and 18. 5 ft. above wash. Land, rough mountainous; general E. exposure and drainage. Soil, little clay loam among loose rocks and boulders. Timber, cedar and pinon. Undergrowth, oak, sallal, manzanita and scrub mahogany. |
| | N.0°03'W., bet. secs. 7 and 8. Over rough mountainous land, through cedar and pinon timber and dense oak, sallal and manzanita undergrowth. |
| 19.50 | Top of rock, about 50 ft. high, on spur, 350 ft. above cor., projects E. |
| 35.70 | Wash, 15 lks. wide. 4 ft. deep, in canyon, 200 ft. below spur, course SE. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., on solid rock, 26 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked, $\frac{\frac{1}{4}}{S7 \mid S8}$ / 1918 |
| | From which |

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | A cedar, 8 ins. diam., brs. S.72°E. 31 lks. dist., marked $\frac{1}{4}$ S 8 B T. |
| | A cedar, 8 ins. diam., brs. S.43°W. 401 lks. dist., marked $\frac{1}{4}$ S 7 B T. |
| 70.00 | Point of spur, 500 ft. above $\frac{1}{4}$ cor., projects N.30°W. |
| 80.00 | In dense oak undergrowth, 240 ft. below point of spur, Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 5,6,7 and 8, with brass cap marked, T38S R13W / S6 \| S5 / S7 \| S8 / 1918 |
| | From which |
| | A pinon, 8 ins. diam., brs. N.37°W. 132 lks. dist., marked T 38 S R 13 W S6 B T. |
| | And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. |
| | No other bearing trees available. |
| | Land, mountainous; SE. exposure and drainage on S.70 chs. N. exposure and drainage on remainder. |
| | Soil, coarse gravelly clay loam and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sallal and manzanita. Poor grazing. |
| | East, on true line bet. secs. 5 and 8. |
| | Ascend over mountainous land, thrpugh scattering cedar and pinon timber and dense oak, sallal and manzanita undergrowth. |
| 5.86 | Spur, 110 ft. above cor., projects N. |
| 21.80 | Bottom of hollow, 85 ft. below spur, drains N. |
| 25.70 | Spur, 25 ft. above bottom of hollow, projects N. |
| 40.00 | On steep N. slope, 410 ft. below spur, Set an iron post, 3 ft. long, 1 in. in diam., on solid rock, 26 ins. in a mound of stone, for the $\frac{1}{4}$ cor., with brass cap marked, S5 / $\frac{1}{4}$ / S8 / 1918 |

Chains

From which

A cedar, 12 ins. diam., brs. N.68°E. 173 lks. dist., marked ¼ S 5 B T.

A cedar, 16 ins. diam., brs. S.51°E. 158 lks. dist., marked ¼ S 8 B T.

Continue descent over steep N. slope

57.60 Road, brs. SE. to New Harmony and NW. to Pinto.

59.30 Pinto creek, 2 lks wide, 3 ins. deep, in wash, 40 lks. wide, 7 ft. deep, 430 ft. below ¼ cor., course SE.

71.20 Spur, 130 ft. above wash, projects S.15°E.

77.81 Intersect the W. boundary of sec. 9, S.0°02'E. 7.42 chs. from the cor. of secs. 4 and 9. At point of intersection, 50 ft. below spur,

Set an iron post, 3 ft. long, 2 ins. dm diam., 2 ins. in the ground, to solid rock, and 22 ins. in a mound of stone for the cor. of secs. 5 and 8 only, with brass cap marked,

T38S
S5
S8
R13W
1918

From which

A cedar, 8 ins. diam., brs. S.62°W. 141 lks. dist., marked T 38 S R 13 W S 8 B T.

---

A cedar, 7 ins. diam., brs. N.40½°W. 86 lks. dist., T 38 S R 13 W S 5 B T.

Land, mountainous; N. exposure and drainage on W. 59.30 chs., S. exposure and drainage on remainder.

Soil, clay loam among loose rocks.

Timber, cedar and pinon.

Undergrowth, oak, sallal and manzanita. Fair grazing.

---

From the cor. of secs. 5,6,7 and 8,

N.89°45'W., on a random line bet. secs. 6 and 7.

40.00 Set temp ¼ cor.

78.14 Intersect W. boundary of T. 26 lks. N. of the cor. of secs. 1,6,7 and 12.

SUBDIVISIONS OF T.38 S.,R.13 W.

| Chains | |
|---|---|
| | Thence S.89°56'E., on true line bet. secs. 6 and 7. |
| | Over mountainous land through medium growth cedar and pinon timber and oak and sage undergrowth. |
| 30.90 | Top of ridge, 160 ft. above cor., brs. N. and S. |
| 38.14 | On E. slope, 170 ft. below spur, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 4 ins. in the ground, to solid rock, and 22 ins. in a mound of stone, for the ¼ cor., with brass cap marked. |
| | S6<br>¼<br>S7<br>1918 |
| | From which |
| | A cedar, 13 ins. diam., brs. S.67¾°E. 116 lks. dist., marked ¼ S 7 B T. |
| | A pinon, 10 ins. diam., brs. N.66°W. 120 lks. dist., marked ¼ S 6 B T. |
| 48.60 | Wash, 15 lks. wide, 2 ft. deep, 150 ft. below ¼ cor., course, S.60°E. |
| 63.10 | Top of low ridge, 70 ft. above wash, brs. N.80°W. and S.80°E. |
| 78.14 | The cor. of secs. 5,6,7 and 8. 25 ft. below ridge. |
| | Land, mountainous; S. exposure and drainage on W. 63.10 chs., N. exppsure and drainage on remainder. |
| | Soil, clay loam and loose rocks. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, sallal, manzanita and sage. Fair grazing. |
| | --- |
| | N.0°03'W., on true line bet. secs. 5 and 6. |
| | Descend over mountainous land, through medium growth of cedar and pinon timber and dense oak, sallal, manzanita and sage undergrowth. |
| 18.40 | Creek, 2 lks. wide, 2 ins. deep, 270 ft. below cor., course E. |
| | Over nearly level land, through dense timber and undergrowth. |
| 38.20 | Begin descent into creek bottom. |

SUBDIVISIONS OF T.38 S., R.13 W.

| Chains | |
|---|---|
| 40.00 | Near foot of short N. slope, 45 ft. below beginning of descent, |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for the ¼ cor., with brass cap marked, |
| | ¼ |
| | S6 \| S5 |
| | 1918 |
| | From which |
| | A cedar, 8 ins. diam., brs. N.20°W. 71 lks. dist., marked ¼ S 6 B T. |
| | An oak, 4 ins. diam., brs. S.59½°E. 98 lks. dist., marked ¼ S 5 B T. |
| 42.10 | Road, brs. S.65°E. to New Harmony and N.65°W. to Pinto. |
| 43.40 | Pinto creek, 3 lks. wide, 2 ins. deep, in wash, 50 lks. wide, 6 ft. deep, course S.60°E. 20 ft. below ¼ cor. |
| | Ascend S. slope of Granite Mountain through scattering cedar and pinon timber and dense oak, sallal, manzanita and sage. |
| 79.70 | Draw, drains S.60°E. |
| 105.80 | Intersect N. boundary of T. at 2.20 chs. N.89°54'E. from the restored cor. of secs. 31 and 32. At intersection, set cor. of secs. 5 and 6 as described on page 6. |
| | Land, mountainous; SE. exposure and drainage. |
| | Soil, clay loam among loose rocks and boulders. |
| | Timber, cedar and pinon. |
| | Undergrowth, oak, manzanita, sallal and sage. Fair grazing. |

LATITUDES, DEPARTURES and CLOSING ERRORS, T.38 S.,R.13 W.

| Line Designated | Bearing | Dist. Chs. | Latitude N. chs. | Latitude S. chs. | Departure E. chs. | Departure W. chs. |
|---|---|---|---|---|---|---|
| W. bdy. | North | 505.72 | 505.72 | | | |
| N. bdy. sec. 6 & | | | | | | |
| W½ N. bdy. sec.5 | N.89°54'E. | 116.40 | .20 | | 116.40 | |
| E½ N. bdy. sec.5 | S.89°17'E. | 40.42 | | .50 | 40.42 | |
| W½ S. bdy. sec.33 | S.89°17'E. | 40.42 | | .50 | 40.42 | |
| E½ S. bdy. sec.33, | | | | | | |
| S. bdy. sec.34 & | | | | | | |
| W½ S. bdy. sec.35 | N.89°33'E. | 162.09 | 1.27 | | 162.08 | |
| E½ S. bdy. sec.35 | S.88°24'E. | 40.04 | | 1.12 | 40.04 | |
| W½ S. bdy. sec.36 | S.89°29'E. | 40.28 | | .36 | 40.28 | |
| E½ S. bdy. sec.36 | S.89°39'E. | 40.28 | | .25 | 40.28 | |
| E. bdy. secs. 1 & 12 | S.0°14'W. | 176.52 | | 176.52 | | .73 |
| E½ S. bdy. sec.12 | S.89°14'W. | 40.66 | | .54 | | 40.66 |
| W½ S. bdy. sec.12 | West | 40.49 | | | | 40.49 |
| S. bdy. sec. 11 | N.89°50'W. | 80.90 | .24 | | | 80.90 |
| E½ S. bdy. sec.10 | N.89°53'W. | 40.34 | .08 | | | 40.34 |
| W½ S. bdy. sec.10 | N.89°51'W. | 40.24 | .11 | | | 40.24 |
| E½ S. bdy. sec.9 | West | 40.48 | | | | 40.48 |
| W½ S. bdy. sec.9 | N.89°52'W. | 40.28 | .09 | | | 40.28 |
| N½ W. bdy. sec.16 | S.0°05'W. | 40.32 | | 40.32 | | .06 |
| S½ W. bdy. sec.16 | S.0°08'W. | 39.81 | | 39.81 | | .09 |
| W½ S. bdy. sec.16 | S.89°17'E. | 40.40 | | .50 | 40.40 | |
| E½ S. bdy. sec.16 | S.89°49'E. | 40.39 | | .13 | 40.39 | |
| E. bdy. sec. 21 | S.0°09'E. | 80.58 | | 80.58 | .21 | |
| N. bdy. sec. 27 | S.89°43'E. | 81.32 | | .40 | 81.32 | |
| N½ E. bdy. sec.27 | S.0°03'E. | 40.36 | | 40.36 | .04 | |
| S½ E. bdy. sec.27 | S.0°04'E. | 40.61 | | 40.61 | .05 | |
| S. bdy. sec. 26 | N.89°53'E. | 80.82 | .16 | | 80.82 | |
| S½ E. bdy. sec.26 | N.0°08'W. | 40.06 | 40.06 | | | .09 |
| N½ E. bdy. sec.26 | N.0°17'E. | 40.24 | 40.24 | | .20 | |
| N. bdy. sec. 25 | S.88°39'E. | 80.36 | | 1.88 | 80.34 | |
| E. bdy. sec. 25. | S.0°13'W. | 82.14 | | 82.14 | | .31 |
| E. bdy. sec. 36 | S.0°09'W. | 82.09 | | 82.09 | | .22 |
| S. bdy. of T. | West | 478.89 | | | | 478.89 |
| Convergency | | | | | .48 | |
| | | | 588.17 | 588.61 | 804.17 | 803.78 |
| | | | | 588.17 | | |
| Error in latitude | | | | 0.44 | | |
| | | | | | 803.78 | |
| Error in departure | | | | | 0.39 | |

GENERAL DESCRIPTION.

The land embraced in this fractional township is mostly rough and mountainous. The portions which border on the old survey are bench land considerable of which can be used for agricultural purposes. The SW. portion, which lies on the NE. slope of the Pine Valley mountain, is very steep and rough and is covered with such a dense growth of manzanita, sallal and oak undergrowth among huge granite boulders that livestock cannot climb the slopes. This land is practically valueless. The

BOOK A-444



GENERAL DESCRIPTION

remainder that cannot be used for agricultural purposes is suitable for grazing.

The formation is of granite and the soil consists of a coarse clay mixed with decomposed and disintegrated granite and granite sand.

Except in the SW. portion where there is considerable pine, fir and aspen, the Township is covered with a dense growth of pinon and cedar timber but much of the country is so rough that little of this can be secured for use. Dense oak, sallal and manzanita abound on the higher ground with oak and sage on the lower parts. There is little grass.

New Harmony, a town of about 100 inhabitants, lies in the NE.¼ sec. 21 and NW.¼ sec. 22. The land around the town is fairly level and the soil is fertile. This together with the SE. part of sec. 36, the SW. part of sec. 10 and the NE. part of sec. 27 is the only cultivated land in this subvey.

The south and west portions are well watered. Two streams having their sources near the SW. corner of the township flow about NE. through deep canyons and join near the NW. cor. of sec. 29 and continue through secs. 20 and 21 through New Harmony and empty into Ash creek. The stream from a large spring in the NW.¼ of sec. 17 flows SE. through secs. 17, 20 and 21 through New Harmony and empties into Ash creek which flows SE. through secs. 27, 26, 35 and 36. There are also small springs in secs. 2,3,5, 20, 21, 27, 31 and 35; not seen from line.

There are no evidences of mineral in the township. Coal occurs in sec. 5 and there are also evidences of coal in sec. 17.

Hugo Price
U.S. Surveyor.

Wilbur Dad
U.S. Transitman.

Water Locations, T. 38 S., R. 13 W.

Pinto Creek, S.½ of the NE.¼ of sec. 6, SW.¼ of the NW.¼, N.½ of the SW.¼, SW.¼ of the SE.¼ of sec. 5, and the NE.¼ of the NE.¼ of sec. 8.

Canal from Pinto Creek, SW.¼ of the NW.¼, NE.¼ of the SW.¼, NW.¼ of the SE.¼, and the SE.¼ of the SE.¼ of sec. 9.

Spring branch, NW.¼ of the NE.¼, E.½ of the NE.¼ of sec. 5, and the SW.¼ of the SW.¼ of sec. 4.

Spring branch, E.½ of the NE.¼ of sec. 3.

Fork of Pinto Creek, SW.¼ of the SW.¼ and the NW.¼ of the SW.¼ of sec. 5.

Spring branch, N.½ of the NW.¼, SW.¼ of the NE.¼, NW.¼ of the SE.¼, E.½ of the SE.¼ of sec. 17, NE.¼ of the NE.¼ of sec. 20 and the NW.¼ of the NW.¼ of sec. 21.

Spring branch, NW.¼ of the NW.¼, of sec. 31, SW.¼ of the SW.¼, E.½ of the SW.¼, NW.¼ of the SE.¼, S.½ of the NE.¼ of sec. 30 and the NW.¼ of the NW.¼ of sec. 29, S.½ of the SW.¼, S.½ of the SE.¼ of sec. 20.

Spring branch, E.½ of the SE.¼ of sec. 31, N.½ of the SW.¼, E.½ of the NW.¼ of sec. 32, E.½ of the SW.¼ and the E.½ of the NW.¼ of sec. 29.

Ash Creek, N.½ of the NE.¼, SE.¼ of the NE.¼ of sec. 35, and the N.½ of the SW.¼, SE.¼ of the SW.¼ of sec. 36.

Spring branch, S.½ of the SE.¼ of sec. 35 and the S.½ of the SW.¼ of sec. 36.

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Page

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## FIELD ASSISTANTS.

| NAMES. | CAPACITY. |
|---|---|
| Jackson Price | Chainman |
| Verdin John | Chainman |
| Wilford Williams | Chainman |
| Morris Dallin | Chainman |
| Louis Postma | Flagman and chainman |
| Morgan White | Flagman |
| Frank Burgess | Cornerman and chainman |
| Richard Best | Cornerman |
| Jay Pearce | Axman |

6—2704

# CERTIFICATE OF UNITED STATES SURVEYOR.
AND TRANSITMAN.

We Hugo Price and Elliot Bird, U.S.Transitman, 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 22nd. day of May, 1916, and supplemental special instructions bearing date of the 12th. day of June, 1918, we have well, faithfully, and truly in our own proper persons and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the retracement and resurvey of the North boundary, part of the east boundary and subdivisions; and the survey of the south and west boundaries and subdivisions

T.38 S.,R.13 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 us on dates shown on said diagram and date diagram on page 1 and under our 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.

Hugo Price
U. S. Surveyor.

APPROVAL.

U.S.Transitman
Salt Lake City, Utah, Jan. 6

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Jan. 24, 1920.

The foregoing field notes of the ~~survey of~~ retracement and resurvey of north boundary part of east boundary and subdivisions; and the survey of the south and west boundaries and subdivisions of Township No. 38 South, Range No. 13 West, of the Salt Lake Base and Meridian, Utah;

executed by Hugo Price and Elliot Bird

under ~~his~~ special instructions dated May 22, 1916 and supplemental special instructions dated June 12 1918, 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.

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

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U. S. Surveyor General's Office
MAR 17 1919
SALT LAKE CITY, UTAH

# FIELD NOTES

OF THE ~~SURVEY OF THE~~

RESURVEY OF THE WEST BOUNDARY AND

SUBDIVISION AND SURVEY OF THE

SUBDIVISION OF T.22 S.,R.6 E.

*Of the* SALT LAKE BASE AND *Meridian,*

*In the State of* UTAH

EXECUTED BY

HOWARD W. MILLER, U.S.CADASTRAL ENGINEER

*~~In the capacity of U. S. Surveyor~~, under instructions dated* May 9, 1918, *issued by the United States Surveyor General to govern surveys included in Group No.* 72, *which were approved by the Commissioner of the General Land Office,* June 3, 1918.

ASSIGNMENT INSTRUCTIONS DATED JUNE 4,1918

*Survey commenced* June 14, 1918

*Survey completed* July 26, 1918

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Plat Examined

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

B Computations F.B.J.

Comparing

C Plat K.L.F. Notes K.F.B.

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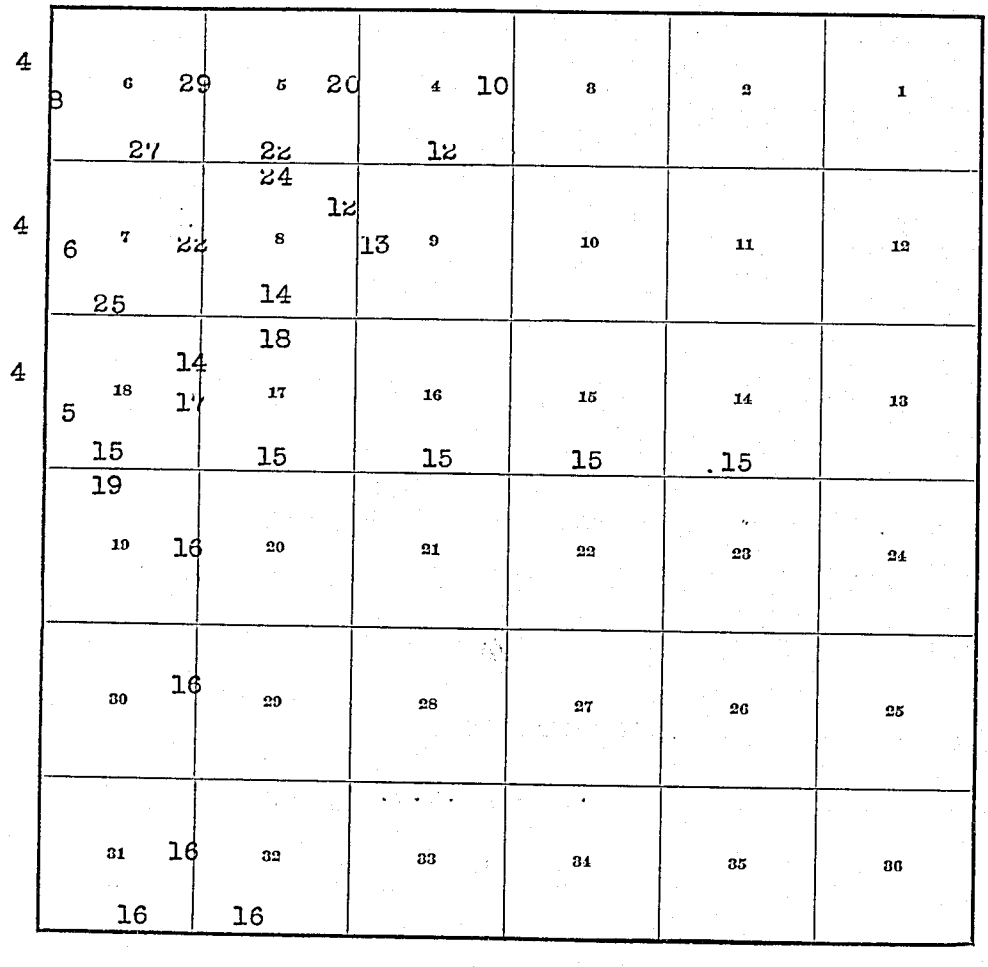
# INDEX DIAGRAM.

*Township* 22 south, *Range* 6 east

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114A

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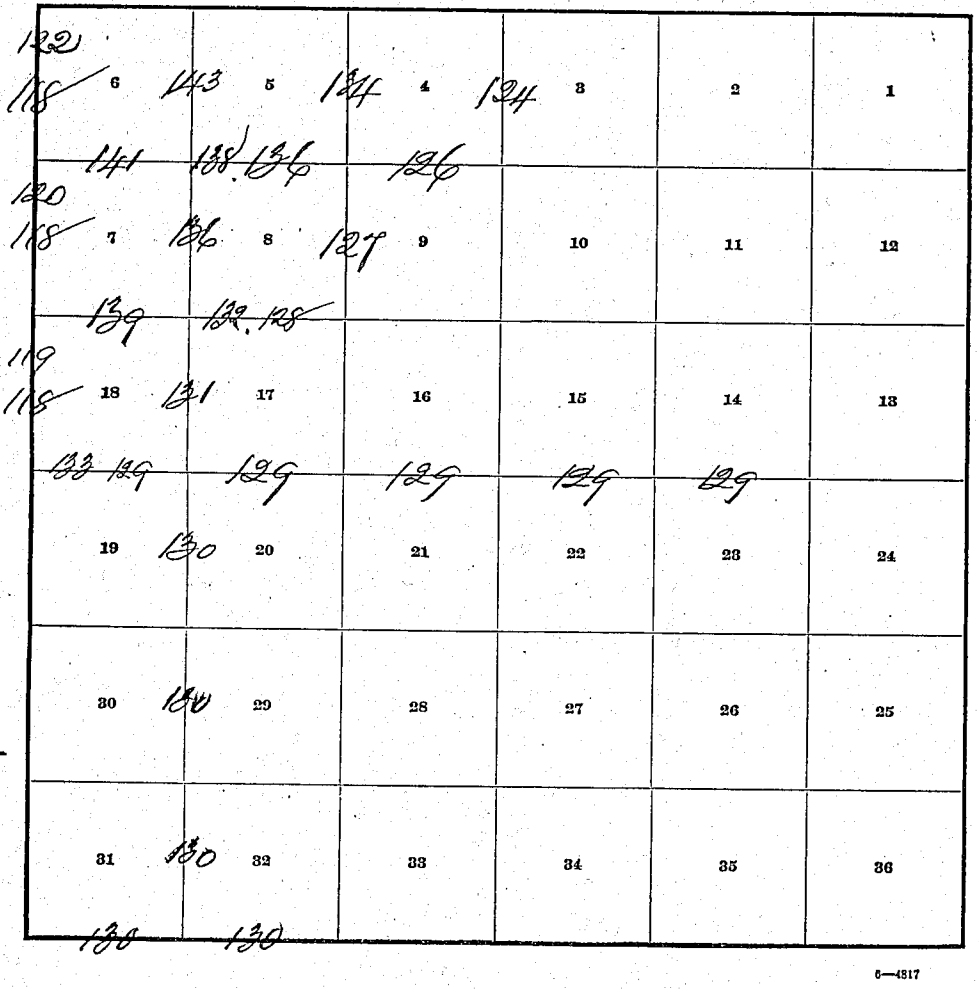
4—679 b

# INDEX DIAGRAM.

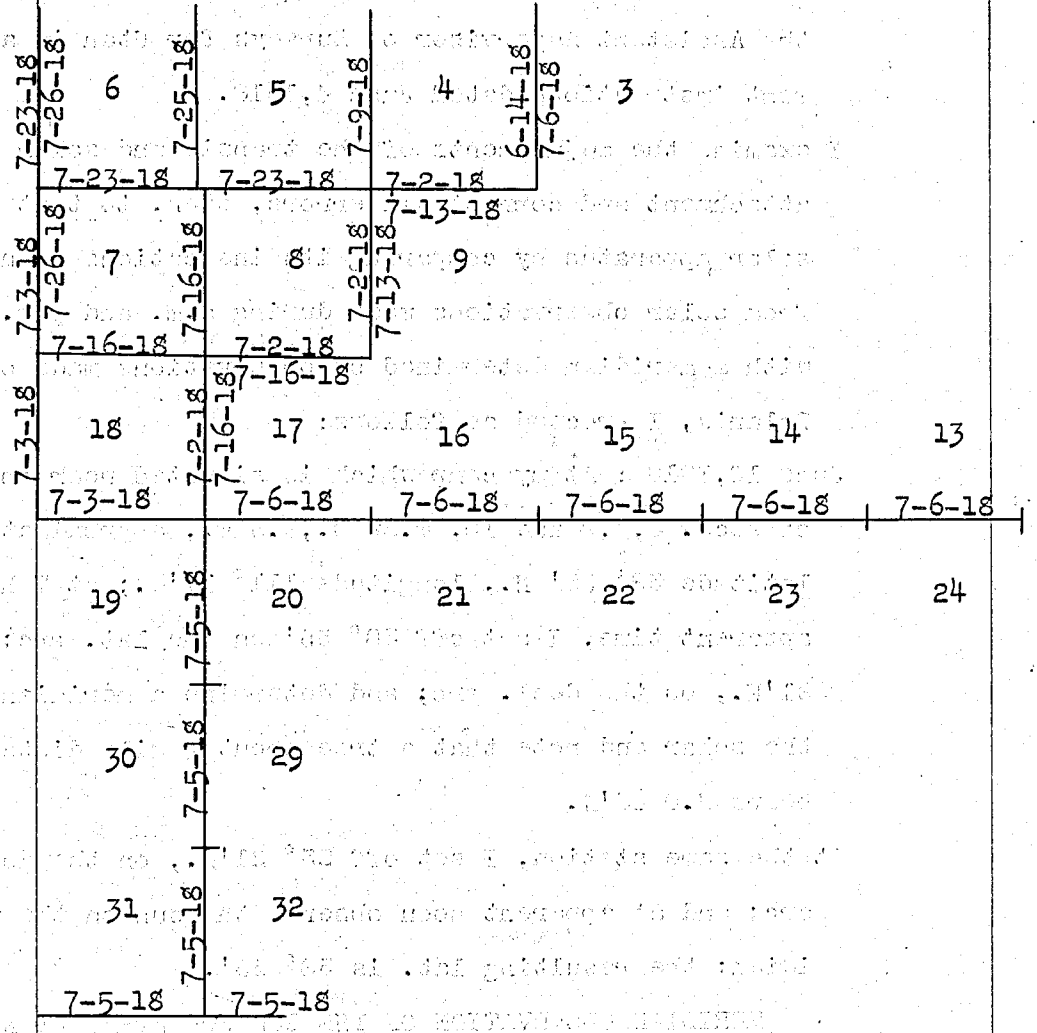
Township 22 S, Range 6 E




6—4817

T. 22 S., R.6 E.

DATE DIAGRAM



TEST OF INSTRUMENT

Survey commenced June 14,1918 and executed with Buff and Buff transit No. 8964, equipt with Smith Solar attachment and full vertical circle. The horizontal limb is provided with two double verniers, placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs and vertical circle.

The instrument was approved for use in this survey by the Assistant Supervisor of Surveys for Utah in assignment instructions dated June 4,1918.

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

June 16,1918 :- At my camp which is situated near the cor. of secs. 3,4,9 and 10, T.22 S.,R.6 E., approximate latitude 38° 55' N., longitude 111° 17'W.; at 7 h. a.m. apparemt time, I set off 38° 55' on the lat. arc; 23° 21'N., on the decl. arc; and determine a meridian with the solar and note that a tree about ½ mile distant bears N.0°03'W.

At the same station, I set off 23° 21'N., on the decl. arc; and at apparent noon observe the sun on the meridian; the resulting lat. is 38° 55'.

MERIDIAN OBSERVATION OF THE SUN FOR APPARENT NOON

| | Watch time |
|---|---|
| Sun's west limb | 1h. 27m. 44s. p.m. |
| Sun's east limb | 1h. 30m. 01s. p.m. |
| Mean | 1h. 28m. 52½s. p.m. |
| Apparent noon | 12h. 00m. 00s. |
| Equation of time to be added | 00h. 00m. 19s. |
| L. M. T. of apparent noon | 12h. 00m. 19s. p.m. |
| Watch time of apparent noon | 1h. 28m. 52½s. p.m. |
| Difference | 1h. 28m. 33½s. |
| Watch fast of l.m.t. | 1h. 28m. 33½s. |

TEST OF INSTRUMENT

At 4h. p.m. apparent time, I set off 38° 55' on the latitude arc; 23° 22 'N., on the decl. arc; and determine a meridian with the solar and note that the tree bears N.0°04'W.

At 8h. 57m. 10s.p.m. by my watch, which is 1h. 28m. 33½s. fast of l.m.t., I begin to observe Polaris and note as a reference point the tree used in my solar observations of this date.

| | TREE | STAR | WATCH TIME |
|---|---|---|---|
| Telescope direct | | | |
| | 0° 00' 00" | 0° 05'W. | 8h. 57m. 10s.p.m. |
| | 0° 00' 00" | 0° 05'W. | 8h. 58m. 00s.p.m. |
| Telescope reversed | | | |
| | 0° 00' 00" | 0° 05'W. | 8h. 59m. 20s.p.m. |
| | 0° 00' 00" | 0° 05'W. | 9h. 01m. 00s.p.m. |
| Mean | 0° 00' 00" | 0° 05'W. | 8h. 58m. 52½s.p.m. |
| Watch fast, subtract | | | 1h. 28m. 33½s. |
| L.m.t. of observation | | | 7h. 30m. 19s.p.m. |
| U.C.Polaris June 16,1918 | | | 7h. 55m. 30s.a.m. |
| Correct for long. of station, sub. | | | 0h. 1m. 12s. |
| L.m.t. of U.C.Pol.at station, June16 | | | 7h. 54m. 18s.a.m. |
| Time elapsed from U.C.Pol. to time of observation | | | 11h. 36m. 01s. |
| Hour angle of Pol. at observation | | | 11h. 36m. 01s. |
| Azimuth of Polaris at observation | | | N. 0° 08' W. |
| Subtract | | | 0° 05' |
| Tree bears | | | N. 0° 03' W. |

The solar apparatus by a.m. and p.m. observations defines positions for meridians that do not vary more than 1' from the true meridian; I therefore conclude that the instrument is in good adjustment.

No magnetic declination is taken on account of local attraction.

The instrument was kept in good adjustment during the progress of the survey; frequent tests being made on the above determined Polaris meridian.

MEASUREMENTS

A steel tape, 5 chs. long, together with a clinometer for determining slope angles was used in all measurements in this survey, and the reduced horizontal

chains

distances only, appear in the field notes. The tape was tested, comparison being made with a standard 1 ch. tape, kept and used for that purpose only.

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RESURVEY OF THE WEST BOUNDARY OF T.22 S.,R.6 E.

I begin at the cor. of secs. 13,18, 19 and 24 on the W. bdy. of the tp., which is a sandstone, 30 x 12 x 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

Thence

North, on retracement line bet. secs. 13 and 18.

40.39 Fall 18 lks. W. of the ¼ sec. cor.

The bearing of this ½ mile is N.0°15'E., and the distance is 40.39 chs.

From point 18 lks. W. of the ¼ sec. cor., continue North

80.67 Fall 61 lks. W. of the cor. of secs. 7,12,13 and 18.

The bearing of this ½ mile is N.0°37'E., and the distance is 40.28 chs.

---

From the cor. of secs. 7,12,13 and 18.

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

40.39 Fall 12 lks. E. of the ¼ sec. cor.

The bearing of this ½ mile is N.0°10'W., and the distance is 40.39 chs.

From point 12 lks. E. of the ¼ sec. cor., continue North.

80.91 Fall 59 lks. W. of the cor. of secs. 1,6,7 and 12.

The bearing of this ½ mile is N.1°00'E., and the distance is 40.53 chs.

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

North, on retracement line bet. secs. 1 and 6.

40.56 Fall 1.10 chs. W. of the ¼ sec. cor.

RESURVEY OF THE WEST BOUNDARY OF T. 22 S.,R.6 E.

| chains | |
|---|---|
| | The bearing of this ½ mile is N.1°33'E., and the distance is 40.57 chs. |
| | From ½ sec. cor., I continue North. |
| 81.06 | Fall 25 lks. W. of the cor. of Tps. 21 and 22 S.,R.5 E. |
| | The bearing of this ½ mile is N.0°21'E., and the distance is 40.50 chs. |
| | --- |
| | From the cor. of secs. 13,18,19 and 24, N.0°15'E., on resurvey line bet. secs. 13 and 18. |
| | Over rough mountainous land through scrub cedar and pinon timber and undergrowth of sagebrush. Descend along broken E. slope of ridge. |
| 11.00 | Point, projects E.; continue along E. slope. |
| 18.05 | Road, Emery, Utah to Quitchumpah, bears W.; SE. for about 5 chs., thence NE. |
| 20.85 | Ravine, 60 ft. below point, course E. about 1 ch. to junction with main ravine, thence S. |
| 32.30 | Main ravine and wash, 50 lks. wide, 3 ft. deep, course S.20°E.; ascend abruptly. |
| 34.20 | Top of ascent and brink of bench, 65 ft. above ravine, bears N.10°W. and S.20°E. |
| 40.39 | The ¼ sec. cor. which is a sandstone, 14 x 14 x 12 ins. above ground, firmly set, and properly marked. No accessories to cor. I raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Thence N.0°37'E., with continuous measurement. |
| 44.40 | Begin descent along breaks of rocky ravine draining S. |
| 47.30 | Bottom of ravine and wash, 50 lks. wide, 5 ft. deep, course from N.10°W. to SW.; ascend. |
| 50.00 | Enter bench, bears N.30°W. and S.20°E.; thence along W. brink of bench. |
| 80.67 | The cor. of secs. 7,12,13 and 18 which is sandstone, 12 x 10 x 5 ins. above ground, firmly set and properly marked. No accessories to cor. |

RESURVEY OF THE WEST BOUNDARY OF T.22 S.,R.6 E.

| chains | |
|---|---|
| | I remonument cor. as follows: |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground and 4 ins. in a mound of stone alongside old cor. for cor. of secs. 7,12,13 and 18, with brass cap marked |
| | T22S<br>R5E \| R6E<br>S12 \| S7<br>S13 \| S18<br>1918 |
| | from which |
| | A pinon, 9 ins.diam.,bears N.39½°E., 47 lks. dist.,marked T 22 S R 6 E S 7 B T |
| | A pinon, 8 ins.diam.,bears S.10½°E., 20 lks. dist.,marked T 22 S R 6 E S 18 B T |
| | A cedar, 16 ins.diam.,bears S.48½°W., 78 lks. dist.,marked T 22 S R 5 E S 13 B T |
| | A cedar, 12 ins.diam.,bears N.67°W., 49 lks. dist.,marked T 22 S R 5 E S 12 B T |
| | Note: On account of natural obstacles, I am unable to set post in the ground the required depth. |
| | Land, rough, broken bench; general S. exposure and drainage. |
| | Soil, brown sandy loam, gravelly and rocky of sandstone formation; sub-soil, hard, dry, sand and rock. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, sagebrush. |
| | Fair grazing land. |
| | --- |
| | N.0°10'W., on resurvey line bet. secs. 7 and 12. |
| | Over broken bench lands draining S., through cedar and pinon timber and undergrowth of sagebrush. Descend. |
| 3.05 | Bottom of ravine and wash, 50 lks. wide, 6 ft. deep, course SW. |
| 13.75 | Same ravine and wash, course SE. |
| 21.75 | Same ravine and wash, course SW. |
| 23.50 | Same ravine and wash, course SE.; ascend onto higher bench. |

RESURVEY OF THE WEST BOUNDARY OF T.22 S.,R.6 E.

| chains | |
|---|---|
| 24.00 | Telephone line, Emery, Utah to Quitchumpah, bears NE. and SW. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground and 12 ins. in a mound of stone for ¼ sec. cor. W. bdy. sec. 7, T.22 S.,R.6 E., with brass cap marked<br>¼S7<br>1918<br>from which<br>A pinon, 14 ins.diam.,bears N.52°E., 26 lks. dist.,marked ¼ S 7 B T<br>A pinon, 5 ins.diam.,bears S.53°E., 67 lks. dist.,marked ¼ S 7 B T |
| 40.39 | The old ¼ sec. cor. which is sandstone, 12 x 10 x 4 ins., lying on the ground, marked ¼ on upper face. No accessories to cor.<br>I reset same stone, 8 ins. in the ground for ¼ sec. cor., E. bdy. sec. 12, T.22 S.,R.5 E., marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.<br>No suitable trees are available.<br>Thence<br>N.1°00'E., with continuous measurement. |
| 49.22 | Base of sandstone ledge, 50 ft. high, bears NE.1 ch. and SW.; ascend abruptly. |
| 50.50 | Top of ledge and narrow point, projects NE., 125 ft. above ravine. Descend over broken N. slope. |
| 58.75 | Wood road, bears NW. and SE. |
| 73.25 | Deep ravine, 175 ft. below point, course E. for about 3 chs. to junction with ravine from the N., thence S.; ascend abruptly over ledges. |
| 80.92 | The cor. of secs. 1,6,7 and 12 which is a sandstone, 14 x 14 x 10 ins., above ground, firmly set, marked with 1 notch on N. edge; all marks on the S. edge worn off. No accessories to cor.<br>I remonument cor. as follows: |

RESURVEY OF THE WEST BOUNDARY OF T.22 S.,R.6 E.

| chains | |
|---|---|
| | Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone alongside old cor. for cor. of secs. 1,6,7, and 12, with brass cap marked |
| | T22S<br>R5E \| R6E<br>S1 \| S6<br>S12 \| S7<br>1918 |
| | from which |
| | A pinon, 6 ins.diam.,bears N.34½°E., 103 lks. dist.,marked T 22 S R 6 E S 6 B T |
| | A pinon, 8 ins.diam.,bears S.73½°E., 80 lks. dist.,marked T 22 S R 6 E S 7 B T |
| | A pinon, 8 ins.diam.,bears S.71¾°W., 59 lks. dist.,marked T 22 S R 5 E S 12 B T |
| | A pinon, 6 ins.diam.,bears N.28½°W., 41 lks. dist.,marked T 22 S R 5 E S 1 B T |
| | Land, rough mountainous bench; general S. exposure and drainage. |
| | Soil, brown, sandy clay loam, gravelly and rocky of sandstone formation; sub-soil, hard, dry, sandy clay and rock. |
| | Timber, cedar and pinon. |
| | Undergrowth, sagebrush. |
| | Fair grazing land. |
| | --- |
| | N.1° 33'E., on resurvey line bet. secs. 1 and 6. |
| | Over rough mountainous land, through pinon and cedar timber and undergrowth of sagebrush. Ascend. |
| 6.00 | Top of ledge point of bench, bears N.5°E., SE. for 2 chs., thence S.; thence along broken W. slope. |
| 27.00 | Top of S. brink of bench, bears NW. and SE.; thence over broken bench land. |
| 40.01 | A northing of 40.00 chs. from the cor. of secs. 1,6,7 and 12. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. |

RESURVEY OF THE WEST BOUNDARY OF T.22 S.,R.6 E.

| chains | |
|---|---|
| | in the ground and 14 ins. in a mound of stone for ¼ sec. cor. W. bdy. sec. 6, T.22 S.,R.6 E., with brass cap marked<br>¼S6<br>1918<br>from which<br>A pinon, 5 ins.diam.,bears S.38½°E., 31 lks. dist.,marked ½ S 6 B T<br>A pinon, 12 ins.diam.,bears S.77½°E., 89 lks. dist.,marked ¼ S 6 B T<br>Note: No suitable tree available in the NE¼ of sec. 6. On account of natural obstacles, I am unable to set post more than 12 ins. in the ground. |
| 40.57 | The old ½ sec. cor., which is a red sandstone, 24 x 16 x 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. This ½ sec. cor. now refers to sec. 1, T.22 S.,R.5 E. only.<br>Thence<br>N.0° 21'E., with continuous measurement. |
| 42.00 | Wide, shallow draw, drains SE. |
| 67.30 | Main gulch, 4.60 chs. wide, 25 ft. deep, course SE. |
| 78.00 | Road, Emery to Mayfield, Utah, bears N.70°W. and S.70°E. |
| 78.20 | U. S. Forest Service telephone line, bears N.70°W. and S.70°E. |
| 81.07 | The cor. of Tps. 21 and 22 S.,R.5 E. heretofore described.<br>Land, rough mountains and bench land; general S. exposure and drainage.<br>Soil, brown sandy loam, gravelly and rocky of sandstone formation; sub-soil, hard, dry, brown clay and rock.<br>Timber, scrub pinon and cedar.<br>Undergrowth, sagebrush.<br>Fair grazing. |

RESURVEY OF SUBDIVISION OF T.22 S.,R.6 E.

| CHAINS | |
|---|---|
| | I begin at the cor. of secs. 3,4,9 and 10, which is a red sandstone, 10 x 6 x 14 ins. above ground, firmly set and properly marked. |
| | Thence |
| | N.0°08'E., on retracement line bet. secs. 3 and 4. |
| 40.00 | No trace of the old ½ sec. cor. can be found. |
| 83.63 | Intersect N. bdy. of the tp., 1.00 ch. west of the restored cor. of secs. 3,4,33 and 34 heretofore described. |
| | The bearing of this line is N.0°49'E., and the distance for each ½ mile is 41.56 and 42.08 chs. respectively. |
| | Thence from the cor. of secs. 3,4,9 and 10. |
| | N.0° 49'E., on resurvey line bet. secs. 3 and 4. |
| | Along W. side of the E. north and south street of the town of Emery, Utah. Land level. |
| .75 | Center of E. and W. street at intersection with east side of block line. |
| 8.80 | Center of E. and W. street extending W. from the E. north and south street of Emery, Utah. |
| 16.80 | Telephone line in center of the N. east and west street of Emery, Utah, bears W.; E. 50 lks. to intersection with N. and S. street, thence N. |
| 19.30 | Telephone line, 50 lks. E. of line, turns E. from the S. |
| 19.40 | State road, 30 lks. E. of line, bears E. and S. |
| 19.50 | Irrigation ditch, 10 lks. wide, 3 ft. deep, course SE. Enter rolling land and greasewood undergrowth, bears E. and W. Gradually ascend. |
| 30.00 | Irrigation ditch, 8 lks. wide, 2 ft. deep, course SW. about 1 ch. thence S. |
| 34.35 | Same ditch, course SE.; leave rolling land enter hills and broken bench land, bears E. and W. Begin steeper ascent. |
| 39.00 | Same ditch, course S.25°W., comes from main Emery Canal about 1 ch. NE. |
| 40. 35 | Emery Canal, 30 lks. wide, 4 ft. deep, course SW. around hill. ; ascend abruptly S. slope. |
| 41.56 | Proportionate measurement. |

RESURVEY OF SUBDIVISION OF T. 22 S., R.6 E.

| chains | |
|---|---|
| | Set an iron post, 3 ft. long, 1 in. in dia. 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S4 \| S3<br>1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 43.80 | Top of flat spur, 90 ft. above canal, projects E.; enter scattering scrub cedar and pinon timber, bears E, and W.; gradually descend. |
| 47.60 | Wash, 10 lks. wide, 3 ft. deep, in shallow draw, 35 ft. below spur, course E.; ascend. |
| 52.60 | Spur, 25 ft. above draw, projects E.; descend. |
| 57.60 | Draw, 35 ft. below spur, course E.; ascend. |
| 62.00 | Spur, 35 ft. above draw, projects E.; descend abruptly. |
| 65.00 | Pole fence, bears SE., NW. about 3 chs., thence N.10°E. |
| 67.15 | Emery Canal, 30 lks. wide, 4 ft. deep, course SE.; dense willow undergrowth along canal. |
| 68.90 | Draw, 125 ft. below spur, course E.; gradually ascend. |
| 76.70 | Emery Canal, 30 lks. wide, 4 ft. deep, course S.80°W.; ascend more rapidly. Pole fence, bears NE. and SW. |
| 83.64 | The cor. of secs. 3,4,33 and 34 on the N. bdy. of the tp. heretofore described. |
| | Land, S. 34.35 chs. level and rolling land; S. exposure and drainage; remainder of mile rough hills; E. exposure and drainage. |
| | Soil, S.34.35 chs. moist, sticky brown clay, contains much alkali; sub-soil, moist, sticky clay; remainder of mile brown clay loam with some blue clay , gravelly and rocky of sandstone and limestone formation; sub-soil, hard, dry, brown and blue clay, shale rock and boulders. |
| | Timber, scattering scrub cedar and pinon on northern portion of mile. |
| | Undergrowth, greasewood and sagebrush with dense willow along canal. |

RESURVEY OF SUBDIVISION OF T. 22 S.,R.6 E.

| chains | |
|---|---|
| | Fair grazing. |
| | --- |
| | From the cor. of secs. 3,4,9, and 10. |
| | S.89° 58'W., on retracement line bet. secs. 4 and 9. |
| 40.07½ | No trace of the old ¼ sec. cor. can be found. |
| 80.15 | No trace of the cor. of secs. 4,5,8 and 9 can be found. |
| | Set temp. point which I designate as "A". |
| | From temp. point "A" for cor. of secs. 4,5,8 and 9, |
| | South, on retracement line bet. secs. 8 and 9. |
| 40.00 | No trace of the ¼ sec. cor. can be found. |
| 79.98 | Fall 12 lks. E. of the cor. of secs. 8,9,16 and 17. |
| | I return and restore the cor. of secs. 4,5,8 and 9 by |
| | proportionate measurement bet. the cor. of secs. 3,4,9 |
| | and 10 and the cor. of secs. 8,9,16 and 17, 6 lks. |
| | west and 1 lks N. of point "A". For description of |
| | cor. see resurvey line bet. secs. 4 and 9. |
| | The bearing of the line bet. secs. 4 and 9 is S.89°58'W. |
| | and the distance is 80.21 chs. |
| | The bearing of the line bet. secs. 8 and 9 is S.0°03'W. |
| | and the distance is 79.99 chs. |
| | --- |
| | From the cor. of secs. 3,4,9 and 10. |
| | S.89°58'W., on resurvey line bet. secs. 4 and 9. |
| | Over level land along S. side of E. and W. street of |
| | Emery, Utah. |
| 7.32 | Center of street, bears N. and S. |
| 15.80 | Center of street, bears N. and S. |
| 23.30 | Center of street, bears N. and S. |
| 31.30 | Center of street, bears N. and S. |
| 39.30 | Center of the west N. and S. street of Emery, Utah, bears |
| | N. and S. |
| 40.10½ | Proportionate measurement. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in |
| | the ground for ¼ sec. cor., with brass cap marked |
| | ¼ S4/S9 1918 |
| | No accessories to cor. |

| chains | |
|---|---|
| | Cor. stands. about 10 lks. S. of a lane bearing E. and N.85°W. |
| | Thence along S. side of lane lined with hedges, large cottonwood trees and fences. |
| 62.50 | Emery Canal, 30 lks. wide, 3 ft. deep, course S.; leave hedges and cottonwood trees at west end of same. Gradually ascend over gentle E. slope. |
| 80.21 | Proportionate measurement. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 4,5,8 and 9, with brass cap marked<br>T22S \| R6E<br>S5 \| S4<br>S8 \| S9<br>1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, level and gently rolling, slopes and drains E. |
| | Soil, brown, sticky clay, about 4 ft. deep. Contains much alkali. |
| | Timber, cottonwood along sides of roads. |
| | Undergrowth, short shadscale in western portion of mile. |
| | --- |
| | S.0°03'W., on resurvey line bet. secs. 8 and 9. |
| | Over gently rolling land, through short undergrowth. |
| 8.00 | U.S. Forest Service telephone line, bears E. and W. |
| 15.50 | Road, bears E. and W. |
| 31.85 | Emery Canal, 25 lks. wide, 2 ft. deep, course S.40°W. |
| 33.60 | Fence, bears NE. and SW.; enter cultivated land. |
| 39.91 | Wire fence, bears E. and W. |
| 39.99½ | In cultivated field. Set an iron post, 3 ft. long, 1 in. in dia., 36 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S8 \| S9<br>1918 |

RESURVEY OF SUBDIVISION OF T.22 S.,R.6 E.

| chains | |
|---|---|
| | No accessories to cor. |
| 49.40 | Wire fence, bears E. and W. |
| 59.60 | Wire fence, bears E. and W. |
| 74.70 | Wire fence, bears NW. and SE., leave cultivated land. |
| 76.80 | Begin descent over SW. slope of bench, bears NW. and SE. |
| 79.99 | Foot of bench, 35 ft. below top, bears E. and NW.; wire fence, bears E. and W. |
| | The cor. of secs. 8,9,16 and 17 which is a sandstone, 14 x 12 x 6 ins. buried in ground, marked with 4 notches on E. and S. edges. No accessories to cor. |
| | Alongside of old cor., |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 8,9,16 and 17, with brass cap marked |
| | T22S \| R6E<br>S8 \| S9<br>S17 \| S16<br>1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rolling bench; general E. exposure and drainage. |
| | Soil, light brown sandy clay loam, gravelly and streaked with rock; sub-soil, clay. Soil contains considerable alkali. |
| | No timber. |
| | Undergrowth, shadscale and scattering patches of grease-wood on parts of mile that are not under cultivation. |
| | S.89°56'W., on retracement line bet. secs. 8 and 17. |
| 39.95½ | No trace of the old ½ sec. cor. can be found. |
| 79.91 | No trace of the cor. of secs. 7,8,17 and 18 can be found. Set temp. point which I designate as "A". |
| | From temp. point "A" for the cor. of secs. 7,8,17 and 18 |
| | South, on retracement line bet. secs. 17 and 18. |
| 40.00 | No trace of the ¼ sec. cor. can be found. |

RESURVEY OF SUBDIVISION OF T.22 S.,R.6 E.

| chains | |
|---|---|
| 80.00 | No trace of the cor. of secs.17,18,19 and 20 can be found. Set temp. point. |
| | Note: The cor. of secs. 17,18,19 and 20 is subsequently restored 2.31 chs. S. and 1.43 chs. E. of the temp. point. For description and method of restoration see pages 15 and 16. |
| | I now return to temp. point "A" for cor. of secs. 7,8, 17 and 18 and restore said cor. by proportion bet. the cor. of secs. 8,9,16 and 17 and the restored cor. of secs. 17,18,19 and 20; said point of restoration falls 71½ lks. E. and 1.15½ chs. S. of point "A". For description of cor. see resurvey line bet. secs. 17 and 18. |
| | The course of the line bet. secs. 17 and 18 is N.0°30'W. and the distance is 81.16 chs. |
| | The course of the line bet. secs. 8 and 17 is S.89°06'W. and the distance is 79.20 chs. |
| | --- |
| | From the cor. of secs. 13,18,19 and 24 on the W. bdy. of the tp. heretofore described |
| | S.89°48'E., on retracement line bet. secs. 18 and 19 |
| 40.41 | No trace of the ¼ sec. cor. can be found. |
| 80.41 | No trace of the cor. of secs. 17,18,19 and 20 can be found. Set temp. point which I designate "A". |
| | From the temp. point "A" for cor. of secs. 17,18,19 and 20, I retrace the lines bet. secs. 17, and 20, 16 and 21, 15 and 22 and 14 and 23 on the record courses and distances, making searches for each ¼ sec. and sec. cor., and at 322.16 chs. fall 6 lks. N. of the cor. of secs. 13,14,23 and 24, which is a sandstone, 14 x 12 x 3 ins. above ground, firmly set and marked and witnessed as described by the surveyor general. |
| | I return to the temp. point "A" for cor. of secs. 17, 18,19 and 20 and set point "B", 2.18 chs. E. and 6 lks. S., this point being the record course and distance W. of the cor. of secs. 13,14,23 and 24. |

RESURVEY OF SUBDIVISION OF T.22 S.,R.6 E.

chains

From temp. point "A" for cor. of secs. 17,18,19 and 20, I retrace south bet. secs. 19,and 20, 29 and 30 and bet. secs. 31 and 32 making careful searches at intervals of 40.00 and 80.00 chs. for ¼ sec. and sec. cors. and at 241.63 chs. fall 45 lks. E. of the restored cor. point of secs. 5,6,31 and 32 on the S. bdy. of the tp.

Note: I was unable to find the old cor. of secs. 5,6,31 and 32 and established the above restored cor. point as follows:

From the cor. of Tps. 22 and 23 S.,Rs. 5 and 6 E. which is a sandstone, 12 x 10 x 10 ins. above ground, firmly set and marked and witnessed as described by the surveyor general, I retrace east bet. secs. 6 and 31 and at 40.00 chs. fail to find any trace of the ¼ sec. cor., I therefore continue east and at 121.22 chs. fall 12 lks. S. of the ¼ sec. cor. bet. secs. 5 and 32, which is a sandstone, 16 x 10 x 4 ins. above ground and firmly set. The marks on the stone have worn off as stone is greatly disintegrated. This is the only stone that I am able to find within a radius of 10 chs. Standing alongside cor. is a one inch hollow iron pipe.

The course of the line bet. the cor. of Tps. 22 and 23 S.,Rs. 5 and 6 E. and the ¼ sec. cor. bet. secs. 5 and 32 is N.89°57'E., and the proportionate distance for each ½ mile is 40.40 2/3 chs.

I return to point "A" for the cor. of secs. 17,18,19 and 20 and set point "C" for said cor. 1.63 chs. S. and 45 lks. W., this being the record course and distance north of the restored cor. of secs. 5,6,31 and 32.

From point "C", point "B" is 1.57 chs. N. and 2.63 chs. E.

I now restore the cor. of secs.17,18,19 and 20, 35 lks. S. and 25 lks. E. of point "A" as follows:

Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in

RESURVEY OF SUBDIVISION OF T.22 S.,R.6 E.

| chains | |
|---|---|
| | the ground on solid rock and 12 ins. in a mound of stone for cor. of secs. 17,18,19 and 20, with brass cap marked<br>T22S \| R6E<br>S18 \| S17<br>S19 \| S20<br>1918<br>It is impracticable to dig pits, and all available rock was used in setting the cor.<br>The course of the line bet. secs. 18 and 19 is N.89°33'W., and the proportionate distance for each ½ mile is 40.12 and 40.54 chs. respectively. |
| | --- |
| | From the restored cor. of secs. 17,18,19 and 20. N.0°30'W., on resurvey line bet. secs. 17 and 18. Gradually ascend over gently rolling bench, through short undergrowth of shadscale and yellow top. |
| 40.58 | Proportionate measurement.<br>Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S18 \| S17<br>1918<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 71.00 | Road, Emery, Utah to Quitchumpah, bears NE. and SW. |
| 73.50 | Brink of bench, bears NW. and SE.; descend. |
| 80.06 | Point for the restored cor. of secs. 7,8,17 and 18 will fall in wash where cor. would be washed away, therefore at this point,<br>Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for witness cor. to the cor. of secs. 7,8, 17 and 18, with brass cap marked<br>T22S R6E<br>WC<br>S7 \| S8<br>S18 \| S17<br>1918 |

| chains | |
|---|---|
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 81.16 | The point for restored cor. of secs. 7,8,17 and 18; said point falls on E. bank of wash, course from the N. to SE. No cor. set. |
| | Land, rolling bench; general S. exposure and drainage. |
| | Soil, brown sandy loam, streaked with rock; sub-soil, hard, dry brown sand and rock. |
| | Timber, a few scattering cedar on both sides of line in northern portion of mile. |
| | Undergrowth, sagebrush and yellow top. |
| | Good grazing land. |
| | --- |
| | From the cor. of secs. 8,9,16 and 17. |
| | S.89°06'W., on resurvey line bet. secs. 8 and 17. |
| | Over rolling land through undergrowth of greasewood and shadscale. Line follows along S. side of fence, bearing E. and W. |
| .25 | Junction of fence from the S. with E. and W. fence. |
| 16.90 | Junction of fence from the S. with E. and W. fence. |
| 20.05 | Emery Canal, 15 lks. wide, 3 ft. deep, course SE. around point of small spur. |
| 23.55 | Same canal, course NW. |
| 26.00 | Same canal, course S.80°W. |
| 39.60 | Proportionate measurement. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked ¼ S8 / S17 / 1918 |
| | Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. distant. |
| 40.67 | Wire fence, bears S., N. 60 lks. thence E. |
| 41.10 | Road, bears N. and S. |
| 50.25 | Wash, 50 lks. wide, 5 ft. deep, course SE. |
| 73.10 | Road, Emery, Utah to Quitchumpah, bears NE. and SW. |

RESURVEY OF SUBDIVISION OF T.22 S.,R.6 E.

| chains | |
|---|---|
| 79.20 | Point for restored cor. of secs. 7,8,17 and 18 on E. bank of wash, course from the N. to SE. |
| | Land, rolling bench; general S. exposure and drainage. |
| | Soil, brown clay loam, contains considerable gravel and rock and in places is saturated with alkali; sub-soil, dry clay. |
| | No timber. |
| | Undergrowth, greasewood and shadscale. |
| | Good farming and grazing land. |
| | --- |
| | From the cor. of secs. 17,18,19 and 20. |
| | N.89°33'W., on resurvey line bet. secs. 18 and 19. |
| | Over gently rolling bench land sloping S., through short undergrowth of shadscale and yellow top. |
| 11.45 | Begin descent into draw, bears N. and S. |
| 14.45 | Draw, 100 ft. below sec. cor., heads about 10 chs. N. and drains S.; ascend. |
| 19.00 | Spur, 65 ft. above draw, projects S.; gradually descend. |
| 20.20 | Descend abruptly W. slope, bears N. and S. |
| 23.00 | Draw, 90 ft. below spur, course S.; ascend. |
| 26.45 | W. brink of draw, bears N. and S. |
| 27.85 | Descend abruptly into draw, bears N. and S. |
| 30.55 | Draw, 50 ft. deep, heads about 5 chs. N. and drains S.; ascend. |
| 38.00 | Small wash, drains SE.; enter cedar and pinon timber, bears NW. and SE. Ascend over E. slope. |
| 40.12 | Propprtionate measurement. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼ S18 / S19 1918 |
| | from which |
| | A pinon, 14 ins.diam.,bears N.68°E., 118 lks. dist.,marked ¼ S 18 B T |
| | A cedar, 18 ins.diam.,bears S.26°E., 90 lks. dist.,marked ¼ S 19 B T |

SUBDIVISION OF T.22 S.,R.6 E

| chains | |
|---|---|
| 63.00 | Top of ledge, 50 ft. high and brink of bench, bears N. and S.; leave dense, enter scattering timber, bears N. and S. Descend abruptly over ledges. |
| 66.15 | Ravine and wash, 50 lks. wide, 6 ft. deep, 125 ft. below brink, course S.; ascend abruptly over broken E. slope 100 ft. to |
| 80.66 | The cor. of secs. 13,18,19 and 24 on the W. bdy. of the tp. heretofore described. |
| | Land, rolling and broken bench; general S. exposure and drainage. |
| | Soil, shallow brown sandy loam, gravelly and rocky of sandstone formation; sub-soil, hard, dry, light brown sand and rock. |
| | Timber, scrub pinon and cedar in western portion of mile. |
| | Undergrowth, shadscale and yellow top. |
| | Good grazing land. |

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SUBDIVISION OF T.22 S.,R.6 E.

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

North, on true line bet. secs. 4 and 5, knowing that closing cors. will be necessary upon the N. bdy. of the tp.

Over gently rolling valley, slopes and drains E., through short undergrowth of shadscale.

| | |
|---|---|
| .75 | Wire fence, bears S.85°E., N.85°W. 85 lks. thence S.20°W. |
| 1.10 | Lane, bears S.85°E., N.85°W. for 1 ch. thence SW. |
| 1.28 | Wire fence, bears S.85°E., N.85°W. 80 lks. thence N.5°E. |
| 11.80 | Wire fence, bears N.5°E. and S.5°W.; leave valley and enter rough, rocky mountainous land, sandstone boulders and sc rub cedar and pinon timber. Thence along E. break of mountain. Ascend. |
| 34.00 | Top of ascent, 200 ft. above sec. cor., bears E. and W.; descend abruptly. |
| 36.55 | Sandstone boulder, 20 x 10 x 20 ft. on line. |

SUBDIVISION OF T.22 S.,R.6 E.

| chains | |
|---|---|
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. S. 5, with brass cap marked ¼S5 \| 1918, from which A pinon, 12 ins. diam., bears S.14¾°W., 233 lks. dist., marked ¼ S 5 B T; A cedar, 6 ins. diam., bears N.57¾°W., 129 lks. dist., marked ¼ S 5 B T |
| 40.30 | Ravine, near mouth of same, 125 ft. below top of ascent, course S.70°E.; ascend abruptly over clay slope. |
| 41.67 | A distance proportionate to the record east bdy. of sec. 4. Subsequently, Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. 4, with brass cap marked ¼S4 \| 1918. Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. distant. No suitable trees are available. |
| 42.30 | Clay point, 50 ft. high, projects SE.; descend. |
| 43.40 | Small rocky draw, 35 ft. below point, course SE.; ascend abruptly. |
| 45.50 | Spur, 50 ft. above draw, projects SE.; descend. |
| 48.50 | Ravine, 60 ft. below spur, course SE.; ascend abruptly. |
| 51.20 | Top of sandstone ledges, 75 ft. high, bears NE. and SW. |
| 58.10 | Top of sharp spur, 125 ft. above ravine, projects SE.; descend. |
| 59.25 | Small ravine at point where wash in same falls over ledge 50 ft. high, course SE.; ascend over ledges. |
| 63.90 | Spur, projects SE.; thence along nearly E. slope. |
| 67.00 | Ravine drains SE.; ascend abruptly. |
| 70.50 | Spur, 75 ft. above ravine, projects SE.; continue along general E. slope, gradually ascending. |
| 81.20 | Top of ascent, bears E. and W.; gradually descend. |

SUBDIVISION OF T.22 S.,R.6 E.

chains

83.86 Intersect N. bdy. of the tp., 1.40 chs. west of the cor. of secs. 32 and 33 heretofore described.

At intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground and 18 ins. in a mound of stone for closing cor. of secs. 4 and 5, with brass cap marked

T21SR6E
S32
S5 | S4
CC
T22S R6E
1918

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

No suitable trees are avilable.

Land, south 11.80 chs. gently rolling valley, slopes and drains E.; remainder of mile rough, broken E. face of mountain; drains E.

Soil, of valley, light brown clay about 3 ft. deep, contains considerable alkali; soil of mountains, rocky of sandstone formation and mixed with considerable red, blue and brown clays.

Timber, scrub cedar and pinon on N.72.06 chs.

Undergrowth, shadscale and yellow top.

Fair grazing land.

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

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

40.00 Set temp. ¼ sec. cor.

80.00 Set temp. cor. of secs. 5,6,7 and 8.

From temp. cor. of secs. 5,6,7 and 8.

South, on temp. line bet. secs. 7 and 8.

40.00 Set temp. ¼ sec. cor.

81.21 Fall 68 lks. W. of the true cor. point of secs. 7,8,17 and 18.

Thence from true cor. point of secs. 7,8,17 and 18.

North, on true line bet. secs. 7 and 8.

SUBDIVISION OF T.22 S.,R.6 E.

| chains | |
|---|---|
| | Over rolling bench land through short undergrowth of shadscale. Line follows in wash, 25 lks. wide, 5 ft. deep, drains S. |
| 4.40 | Leave wash, comes from the NW.; gradually ascend. |
| 9.30 | S. brink of low bench, bears NW. and SE. |
| 11.60 | Enter scattering scrub cedar and pinon timber, bears NE. and SW. |
| 13.20 | Wash, 10 lks. wide, 4 ft. deep, course N.70°E. |
| 26.20 | Wash, 10 lks. wide, 1 ft. deep, course NE. |
| 33.90 | Wash, 10 lks. wide, 3 ft. deep, course S.70°E. |
| 40.00 | On gentle S. slope. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a large mound of stone for ¼ sec. cor., with brass cap marked<br>¼<br>S7 \| S8<br>1918<br>from which<br>A pinon, 12 ins. diam., bears N.34½°E., 40 lks. dist., marked ¼ S 8 B T<br>A cedar, 8 ins. diam., bears N.10°W., 96 lks. dist., marked ¼ S 7 B T<br>Note: On account of natural obstacles, I am unable to set post in the ground. |
| 53.30 | Wash, 10 lks. wide, 5 ft. deep, course N.80°E. |
| 54.30 | Enter dense cedar and pinon timber, bears NW. and SE. |
| 64.70 | Road, Emery to Mayfield, Utah, bears N.70°W. and S.70°E. |
| 68.00 | U. S. Forest Service telephone line, bears NW., SE. for 4 chs. thence NE. |
| 70.70 | Leave dense timber, bears NE. and SW. |
| 78.90 | Wash, 15 lks. wide, 6 ft. deep, course S.50°E. |
| 81.21 | Intersection with E. and W. line. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 7 and 8, with brass cap marked |

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SUBDIVISION OF T.22 S.,R.6 E.

| chains | |
|---|---|
| | S7 \| S8<br>T22S \| R6E<br>1918 |
| | from which |
| | A cedar, 8 ins.diam.,bears S.19½°E., 165 lks. dist.,marked T 22 S R 6 E S 8 B T |
| | A cedar, 10 ins.diam.,bears S.5½°W., 98 lks. dist.,marked T 22 S R 6 E S 7 B T |
| | Land, rolling bench; general E. exposure and drainage. |
| | Soil, light brown and blue clays, gravelly and rocky of sandstone and limestone formation; sub-soil, hard, dry clay and rock. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, shadscale and yellow top. |
| | Good grazing land. |
| | --- |
| | From the cor. of secs. 4,5,8 and 9. |
| | West, on true line bet. secs. 5 and 8. |
| | Over rolling valley, through short undergrowth of shadscale. |
| .90 | Wire fence, bears N.20°E. and S.20°W. |
| 2.76 | Road, Emery, Utah to Quitchumpah and Mayfield, Utah, bears SW. and NE. |
| 4.00 | Enter flat, bears N. and S. |
| 19.10 | Wash, 10 lks. wide, 6 ft. deep, course S.15°E. |
| 23.90 | Foot of breaks of mountain, bears N:20°W. and S.30°E.; ascend abruptly. |
| 34.00 | Top of spur, 200 ft. above sec. cor., projects S.30°E.; descend over broken general SW. slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S5 / S8<br>1918 |
| | from which |
| | A cedar, 10 ins.diam.,bears S.30¼°W., 285 lks. dist.,marked ¼ S 8 B T |
| | No other trees available. |

SUBDIVISION OF T.22 S.,R.6 E.

| chains | |
|---|---|
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 43.00 | Wash, 10 lks. wide, 3 ft. deep, in draw, 15 ft. below ¼ sec. cor. and 50 ft. below spur, course SE.; ascend. |
| 50.00 | Low ridge, 50 ft. above draw, bears NW. and SE.; gradually descend. |
| 59.80 | Broken, brown sandstone spur, projects S.; enter scattering scrub cedar and pinon timber, bears N. and S. Gradually descend. |
| 65.00 | Enter heavier timber, bears N. and S. |
| 78.90 | Wash, 15 lks. wide, 5 ft. deep, course S. for about 1 ch. thence SE. |
| 79.32 | The cor. of secs. 7 and 8. |
| | Land, rolling valley in the eastern portion; rough clay and sandstone breaks in western portion of mile; general S. exposure and drainage. |
| | Soil, brown and blue clays, gravelly and rocky of sandstone formation; sub-soil, hard, dry clay and rock. |
| | Timber scrub cedar and pinon in west portion of mile. |
| | Undergrowth, shadscale. |
| | Good grazing land. |
| | --- |
| | From the true cor. point of secs. 7,8,17 and 18. |
| | West, on a random line bet. secs. 7 and 18. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.26 | Intersect W. bdy. of the tp. 9 lks. N. of the cor. of secs. 7,12,13 and 18. |
| | Thence |
| | N.89° 56' E., on true line bet. secs. 7 and 18. |
| | Over rolling and broken bench land through dense cedar and pinon timber and undergrowth of shadscale. Ascend. |
| .10 | Brink of bench, bears N. and S.; gradually ascend. |
| 2.55 | Leave timber, bears N. and S. |
| 17.45 | W. brink of gulch, bears N. and S., also enter scattering cedar and pinon timber, bears N. and S. Descend. |
| 24.35 | Bottom of gulch and wash, 25 lks. wide, 3 ft. deep, 50 ft. below brink, course at bend from the SE. to SW. |

SUBDIVISION OF T.22 S.,R.6 E.

| chains | |
|---|---|
| 28.15 | Same wash in gulch, course SW. about 2 chs. thence NW.; ascend abruptly. |
| 31.75 | Top of E. brink of gulch, 50 ft. above bottom, bears N. and S.; gradually descend. |
| 34.65 | Wash, 10 lks. wide, 2 ft. deep, course S.40°W.; gradually ascend. |
| 39.26 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. S. bdy. sec. 7, with brass cap marked<br>¼S7<br>1918<br>from which<br>A cedar, 6 ins diam., bears N.77°E., 245 lks. dist., marked ¼ S 7 B T<br>A pinon, 6 ins. diam., bears N.39°E., 322 lks. dist., marked ¼ S 7 B T.<br>Note: I am unable to secure trees in both quarters of sec. 7. |
| 39.83 | Proportionate measurement<br>Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. N. bdy. sec. 18, with brass cap marked<br>¼S18<br>1918<br>from which<br>A pinon, 18 ins.diam., bears S.76°E., 186 lks. dist., marked ¼ S 18 B T<br>A pinon, 5 ins.diam., bears S.21½°E., 196 lks. dist., marked ¼ S 18 B T<br>Note: I am unable to secure trees in both quarters of sec. 18. |
| 40.25 | Enter dense timber, bears N. and S. |
| 45.05 | Leave dense and enter very scattering scrub timber, bears N. and S. |
| 72.25 | Brink of bench, bears NW. and SE.; gradually descend over E. slope. |

SUBDIVISION OF T.22 S.,R.6 E.

| chains | |
|---|---|
| 79.15 | Wash, 40 lks. wide, 8 ft. deep, course S. 50 lks. thence SE. |
| 79.26 | The true cor. point of secs. 7,8,17 and 18. |
| | Land, rolling and broken bench; general S. exposure and drainage. |
| | Soil, brown, sandy clay loam, gravelly and rocky of sandstone formation; sub-soil, hard, dry clay and rock. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, shadscale and yellow top. |
| | Good grazing land. |
| | --- |
| | From the cor. of secs. 7 and 8. |
| | S.89°56'W., on a random line bet. secs. 6 and 7. |
| .68 | Set temp. cor. of secs. 5 and 6. |
| 40.00 | Set temp. ¼ sec. cor. |
| 78.65 | Intersect W. bdy. of the tp. 30 lks. N. of the cor. of secs. 1,6,7 and 12 heretofore described. |
| | Thence |
| | N.89°43'E., on true line bet. secs. 6 and 7. |
| | Over rough, broken bench land through scrub cedar and pinon timber and undergrowth of shadscale. Ascend. |
| 2.65 | Top of broken sandstone spur, projects S.; descend. |
| 3.00 | Top of ledge and W. brink of gulch, bears N. and S.; descend abruptly. |
| 9.75 | Bottom of gulch, 150 ft. below spur, course S.; ascend abruptly over ledges. |
| 11.75 | Top of E. brink of gulch, bears N. and S.; gradually ascend. |
| 17.25 | Sandstone spur, 140 ft. above gulch, projects S.20°W.; descend abruptly over sandstone ledges. |
| 22.05 | Sandstone ledge, 30 ft. high, bears N. and S. |
| 22.75 | Foot of ledges and road, Emery to Mayfield, Utah, bears N. and S. |
| 24.25 | Gulch, 125 ft. below spur, course S.30°E.; ascend over broken W. slope. |
| 37.97 | A westing of 40.00 chs. from the cor. of secs. 5 and 6. |

SUBDIVISION OF T.22 S.,R.6 E.

| chains | |
|---|---|
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a large mound of stone for ¼ sec. cor. S. bdy. sec. 6, with brass cap marked<br>¼S6<br>1918<br>from which<br>A pinon, 8 ins.diam.,bears N.36¼°E., 70 lks. dist.,marked ¼ S 6 B T<br>A cedar, 8 ins.diam.,bears N.58¾°W., 46 lks. dist.,marked ¼ S 6 B T |
| | Note: On account of natural obstacles, I am unable to set post in the ground. |
| 38.65 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a large mound of stone for ¼ sec. cor. N. bdy. sec. 7, with brass cap marked<br>¼S7<br>1918<br>from which<br>A pinon, 6 ins.diam.,bears S.20°W., 107 lks. dist., marked ¼ S 7 B T<br>A pinon, 5 ins.diam.,bears S.6°W., 116 lks. dist.,marked ¼ S 7 B T<br>I am unable to secure trees in both quarters of sec. W. |
| | Note: On account of natural obstacles, I am unable to set post in the ground. |
| 40.75 | Red sandstone spur, projects S.; descend abruptly over ledges. |
| 43.75 | Foot of ledges, bears N. and S.; gradually descend. |
| 48.05 | Wash, 25 lks. wide, 10 ft. deep, in gulch, 124 ft. below spur, course S.10°E.; ascend. |
| 59.35 | U. S. Forest Service Telephone line, bears NW. and SE. |
| 63.15 | Top of low, broken red sandstone spur, 75 ft. above gulch, projects S.30°E.; descend. |
| 70.65 | Foot of spur and enter very scattering timber, bears N. and S. |

SUBDIVISION OF T.22 S.,R.6 E.

chains

77.97 A westing of 80.00 chs. from the cor. of secs. 4,5,8 and 9.

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

T22S | R6E
S6 | S5
1918

from which

A pinon, 14 ins.diam.,bears N.24½°E., 338 lks. dist.,marked T 22 S R 6 E S 5 B T

A cedar, 6 ins.diam.,bears N.15½°W., 145 lks. dist.,marked T 22 S R 6 E S 6 B T

78.65 The cor. of secs. 7 and 8.

Land, rough, rocky and broken bench land; general S. exposure and drainage.

Soil, red and gray sandstone rock with some brown sandy clay loam soil; sub-soil, clay and rock.

Timber, scrub cedar and pinon.

Undergrowth, shadscale and yellow top.

Fair grazing land.

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From the cor. of secs. 5 and 6.

N.0°01'W., on true line bet. secs. 5 and 6 knowing that closing cors. are necessary upon the N. bdy. of the tp.

Over broken mountainous land through pinon and cedar timber and undergrowth of shadscale. Gradually ascend.

3.10 Wash, 15 lks. wide, 5 ft. deep, course SE.

4.00 Wash, 15 lks. wide, 4 ft. deep, course S.20°E.

11.80 Begin abrupt ascent over rocky S. slope.

24.50 Sharp rocky spur, 475 ft. above sec. cor., projects S.40°W.; descend.

34.40 Wash, 25 lks. wide, 7 ft. deep, course S.85°W., 155 ft. below spur.

40.00 On S. side of wash.

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

| chains | |
|---|---|
| | the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S6 \| S5<br>1918<br>from which<br>A pinon, 4 ins.diam.,bears N.50°E., 32 lks. dist.,marked ¼ S 5 B T<br>A cedar, 8 ins.diam.,bears S.50°W., 26 lks. dist.,marked ¼ S 6 B T<br>Note: On account of natural obstacles, I a m unable to set post in the ground. |
| 40.10 | Wash, 20 lks. wide, 8 ft. deep, course N.60°W.; thence along rocky W. slope. |
| 48.70 | Bottom of large gulch and wash, 50 lks. wide, 10 ft. deep, 60 ft. below ¼ sec. cor., course at bend from the NW. to S.40°W. |
| 56.90 | Same wash in gulch, course S.70°W. for about 2 chs., thence S.; ascend abruptly. |
| 62.60 | Top of sandstone ledge, 15 ft. high, bears NE. and SW.; thence along broken, rocky E. slope of ridge. |
| 83.64 | Intersect N. bdy. of the tp., 1.37 chs. west of the cor. of secs. 31 and 32 heretofore described.<br>At intersection,<br>Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a large mound of stone for closing cor. of secs. 5 and 6 with brass cap marked<br>T21SR6E<br>S31<br>S6 \| S5<br>CC<br>T22S R6E<br>1918<br>from which<br>A pinon, 6 ins.diam., bears S.34½°E., 95 lks. dist.,marked C C T 22 S R 6 E S 5 B T<br>A pinon, 10 ins.diam.,bears S.12°W., 70 lks. dist.,marked C C T 22 S R 6 E S 6 B T<br>Note: On account of natural obstacles I am unable to |

BOUNDARIES OF T.22 S., R.6 E

set post in the ground.

Land, rough mountains; general S. exposure and drainage.

Soil, rocky of sandstone formation and mixed with some red and brown clays; sub-soil, hard, dry clay and rock.

Timber, scrub cedar and pinon.

Undergrowth, shadscale.

Fair grazing on southern portion of mile.

---

BOUNDARIES OF T.22 S.,R.6 E.

| Lines designated | True bearing | Distances | Latitudes N | Latitudes S | Departures E | Departures W |
|---|---|---|---|---|---|---|
| N.bdy.T22SR6E | West | 238.00 | ..... | ..... | ..... | 238.00 |
| W.bdy " | South | 3.14 | ..... | 3.14 | ..... | ..... |
| " " | S.0°21'W. | 40.50 | ..... | 40.50 | ..... | .25 |
| " " | S.1°33'W. | 40.57 | ..... | 40.56 | ..... | 1.10 |
| " " | S.1°00'W. | 40.53 | ..... | 40.52 | ..... | .71 |
| " " | S.0°10'E. | 40.39 | ..... | 40.39 | .12 | ..... |
| " " | S.0°37'W. | 40.28 | ..... | 40.28 | ..... | .43 |
| S " | S.0°15'W. | 40.39 | ..... | 40.39 | ..... | .18 |
| S.bdy.sec.18 | S.89°33'E. | 80.66 | ..... | .63 | 80.66 | ..... |
| E.bdy.sec.18 | N.0°30'W. | 81.16 | 81.16 | ..... | ..... | .71 |
| S.bdy.sec.8 | N.89°06'E. | 79.20 | 1.24 | ..... | 79.19 | ..... |
| E.bdy.sec.8 | N.0°03'E. | 79.99 | 79.99 | ..... | .07 | ..... |
| S.bdy.sec.4 | N.89°58'E. | 80.21 | .05 | ..... | 80.21 | ..... |
| E.bdy.sec.4 | N.0°49'E. | 83.64 | 83.63 | ..... | 1.19 | ..... |
| Convergency | | | ..... | ..... | ..... | .10 |
| | Totals | | 246.07 | 246.41 | 241.44 | 241.48 |
| | | | | 246.07 | | 241.44 |
| | Error in latitude | | | .34 | Error in departure | .04 |

GENERAL DESCRIPTION

With the exception of small areas of land in secs. 4,8, 7 and 18 this fractional township is rough and mountainous and is situated on the S. and E. breaks of a high mountain. The land in secs. 4,8,7 and 18 consists of rolling foothills and bench lands. The general exposure and drainage of the township is south.

GENERAL DESCRIPTION

The soil of the foothills is a light brown and blue clay containing much alkali and is mixed with red and gray sandstone rock. The soil of the mountains is a very hard, dry, red and blue clay and rock.

There is a heavy growth of cedar and pinon timber in secs. 5,6,7 and 8 . In the remaining secs. only a scattering growth is found. The land is all covered with a short growth of shadscale and a sparce growth of bunch grass.

There is no water in the township.

There are no settlers living on the land included in this extension survey.

I did not notice indications of mineral or oil during the progress of the survey.

The land in this township is valuable for grazing of sheep and cattle.

Howard W. Miller

U.S.Cadastral Engineer

4—680

BOOK A-444

## FIELD ASSISTANTS.

| NAMES. | CAPACITY. |
|---|---|
| Lacell Bird | chainman |
| Calvin Mace | chainman |
| Malcolm Sands | flagman |
| David Thomas | cornerman |
| Knowles Piercey | axman |
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6—2764

# CERTIFICATE OF UNITED STATES ~~SURVEYOR~~ CADASTRAL ENGINEER.

I, Howard W. Miller, U. S. ~~Surveyor~~ Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 9 th day of May, 1918, 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 Resurvey of the west boundary and subdivision and survey of the subdivision of T.22 S., R.6 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and date diagram as having been executed by me, and under my direction; and on dates as shown on diagram, 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.

Certified to at Salt Lake City, Utah this 18th. day of March, 1919

Howard W. Miller
~~U. S. Surveyor~~
U. S. Cadastral Engineer

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 29, 1920

The foregoing field notes of the ~~survey of~~ resurvey of the west boundary and the resurvey and survey of the subdivisional lines of Township No. 22 Sout Range No. 6 East of the Salt Lake Base and Meridian, Utah,

executed by Howard W. Miller, U. S. Cadastral Engineer under ~~his~~ special instructions dated May 9, 1918, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys and resurveys they describe, are hereby approved.

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

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

*U. S. Surveyor General.*

6—2764

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Page

4—679

BOOK A-444

U. S. Surveyor General's Office
MAR 8 1920
SALT LAKE CITY, UTAH

# FIELD NOTES

OF THE ~~SURVEY OF THE~~

RESURVEY OF THE SOUTH AND EAST BOUNDARIES AND SUBDIVISION; AND SURVEY OF THE SOUTH AND WEST BOUNDARIES; THE 4 TH. STANDARD PARALLEL SOUTH THROUGH RANGE 6 EAST; AND SUBDIVISION OF T. 21 S.,R.6 E.

*Of the* SALT LAKE BASE AND *Meridian,*

*In the State of* UTAH

EXECUTED BY

HOWARD W. MILLER, U. S. CADASTRAL ENGINEER

~~THE SURVEY OF~~, *under instructions dated* May 9, *1918, issued by the United States Surveyor General to govern surveys included in Group No.* 72, *which were approved by the Commissioner of the General Land Office,* June 3, *1918.*

ASSIGNMENT INSTRUCTIONS DATED JUNE 4, 1918 AND MAY 3, 1919

*Survey commenced* JUNE 14, *1918*

*Survey completed* OCTOBER 24, *1919*

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Examinations Unrestricted

A Plat F.B.J. Notes J.C.T.

B Computations J.C.T.

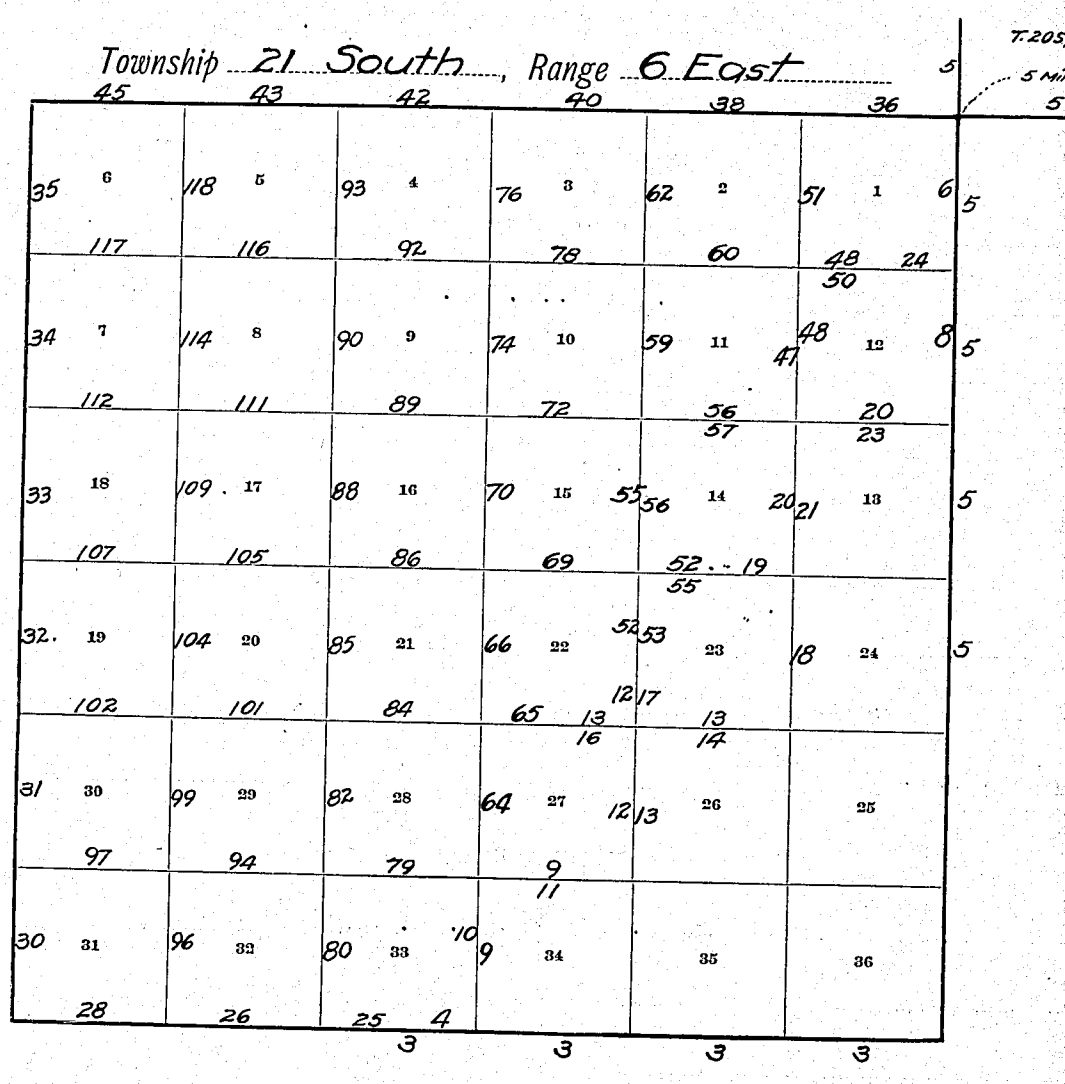
Comparing

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

BOOK A-444

# INDEX DIAGRAM.

Township 21 South, Range 6 East



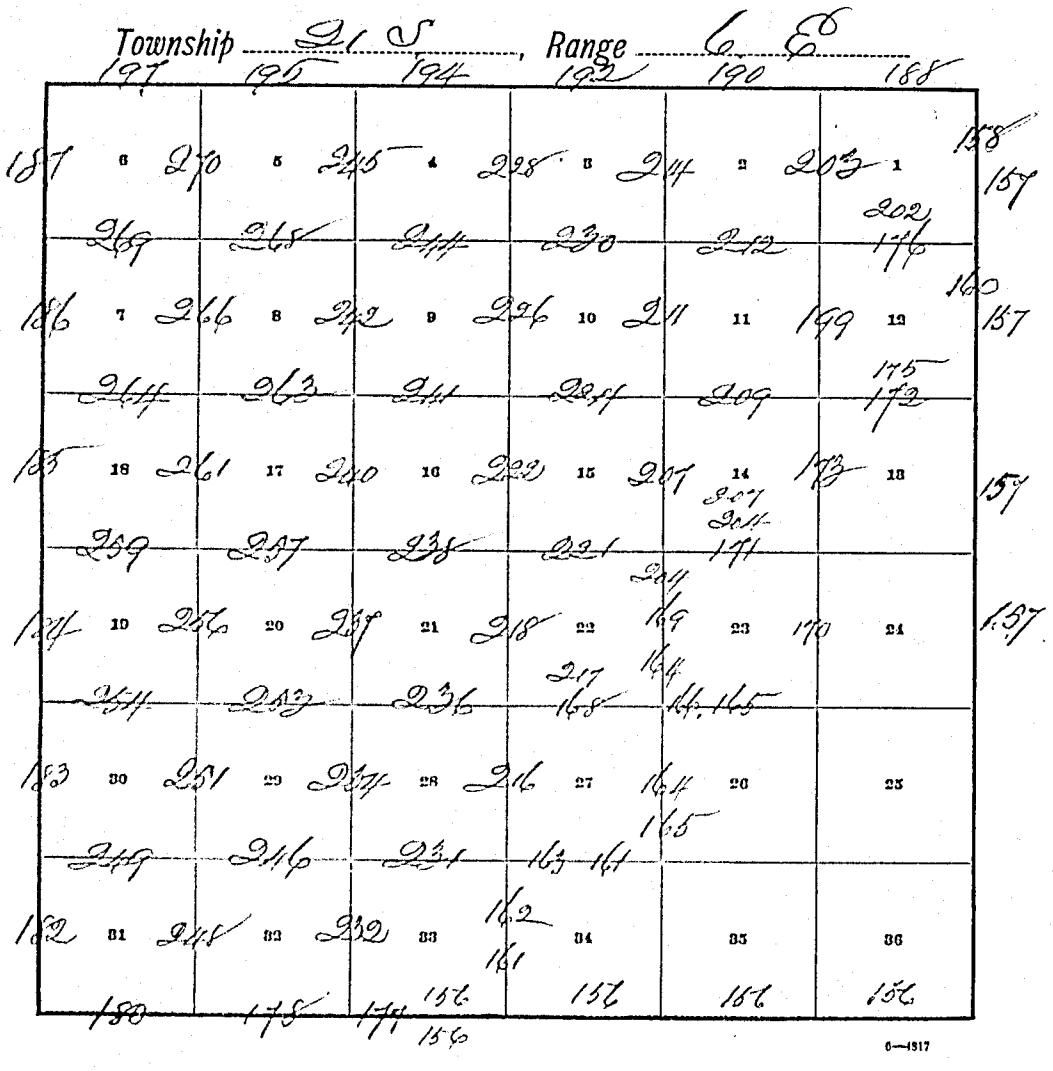
152A

BOOK A-444

4—679 b

# INDEX DIAGRAM.

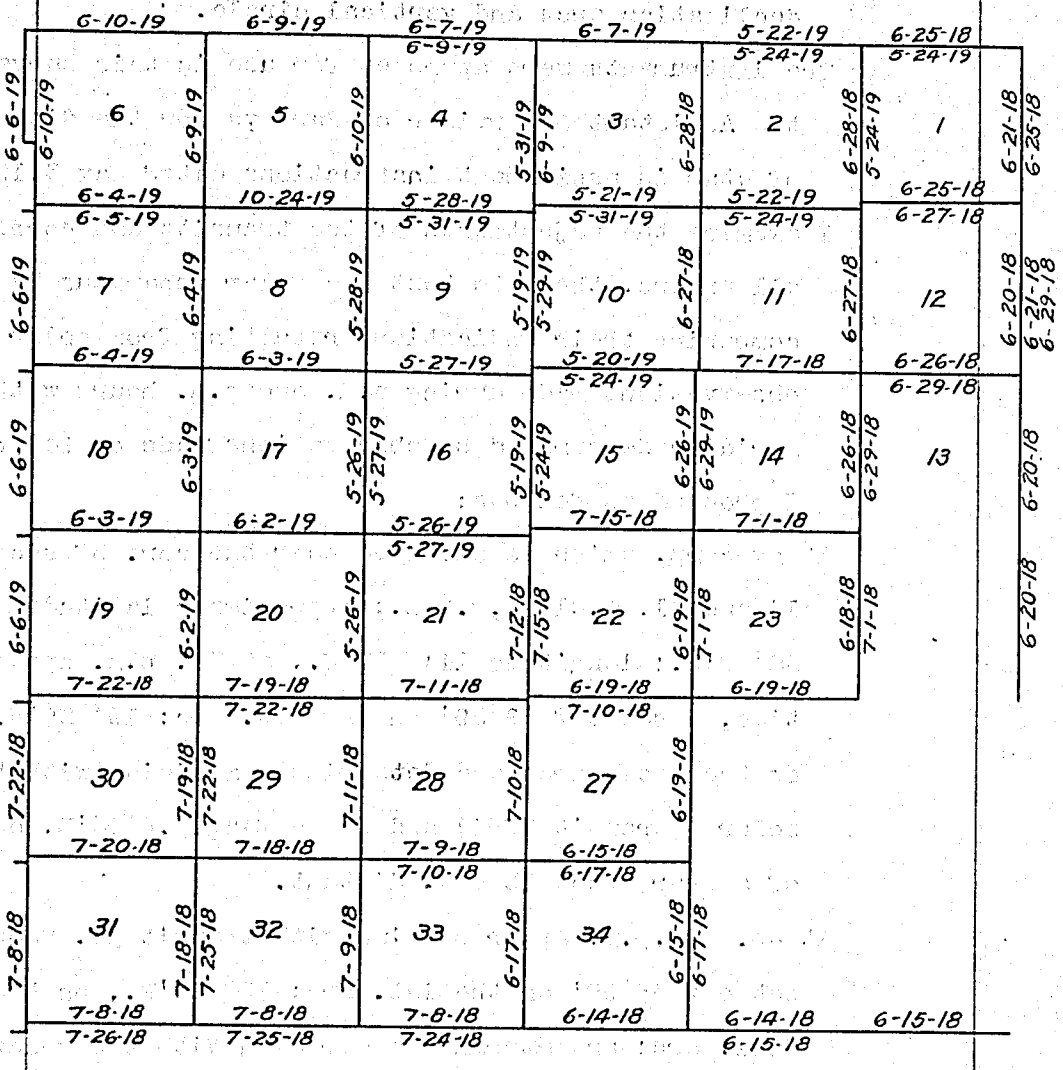
Township 21 S, Range 6 E




6—1917

T. 21 S., R.6 E.

DATE DIAGRAM




Survey commenced June 14,1918 and executed with Buff and Buff transit No. 8964. For complete description, test and approval of this instrument see survey of T.22 S., R.6 E. The survey of this township was discontinued after July 22, 1918 and operations were again resumed May 18,1919, the survey being executed with Buff and Buff transit No. 8964 and Young and Sons light mountain transit No. 8539. Both instruments are equipped with Smith solar attachment and full vertical circles. The horizontal limbs are provided with two

CHAINS

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

The instruments were approved for use in this survey by the Assistant Supervisor of Surveys for the district of Utah in assignment instructions dated May 3,1919.

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

At my camp, which is situated near the cor. of secs. 16 and 21, T.21 S.,R.6 E.; approximate latitude 38°59'N.; longitude 111° 17'W., at 3h. p.m. apparent time, I set off 38°59' on the lat. arc; 19° 29'N. on the decl. arc; and determine a meridian with the solar ( transit 8964) and set a flag N.0°03'E. on top of a spur about 15 chs. distant.

At 3h. 30m.p.m. apparent time with transit No. 8539, I set off 38°59' on the lat. arc; 19° 29'N., on the decl. arc; and determine a meridian with the solar and find that the flag bears N.0°03'E.

I find by comparison with a Western Union telegraph clock that my watch is 1h. 25m. 8s. fast of l.m.t.

At the same station, with transit 8964, at 6h. 47m. 33s. p.m.l.m.t., I make an hour angle observation on Polaris west of the meridian, two each with the telescope in direct and reversed positions, reading deflection angle from the flag set N.0°03'E., in the direction of N-W to Polaris.

Watch time of observation = 8h. 12m. 41s.p.m.

Mean horizontal angle from flag to Polaris = 1° 04'.

Azimuth of Polaris at observation = 1° 01'W.

True bearing of flag = N.0°03'E.

May 18,1919.

T. 21 S., R.6 E.

CHAINS

May 19: At 8h. 30m. a.m. apparent time, I set off 38°59' on the lat. arcs; 19° 39'N., on the declination arcs and determine meridians with the solars of transits 8964 and 8539 and find that the flag bears N.0°03'E. At apparent noon with both transits in the true meridian, I set off 38° 59' on the latitude arcs; and find the reading of the declination arcs of both transits to be 19° 40'N.

The instruments by a.m. and p.m. solar observations defines positions for meridians that do not vary from the true meridian, I therefore conclude that they are in good adjustment.

The instruments were kept in good adjustment during the progress of the survey, frequent tests being made on the meridian determined by observations made on Polaris.

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MEASUREMENTS

Unless otherwise specified all measurements are made with a Lallie steel ribbon tape 5 chains in length compared with a Lufkin standard steel tape and found correct. The measurements are made on the slope the vertical angle determined, and the slope measurements properly reduced to true horizontal distances.

---

RESURVEY OF THE SOUTH BOUNDARY OF T.21 S.,R.6 E.

I begin at the cor. of Tps. 21 and 22 S., Rs. 6 and 7 E. which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

Thence

RESURVEY OF THE SOUTH BOUNDARY OF T.21 S.,R.6 E.

CHAINS

West, on retracement line bet. secs. 1 and 36.

40.00 No trace of the ¼ sec. cor. can be found, I therefore continue my retracement line west and at 280.00 chs. (record) I fail to find any trace of the ¼ sec. cor. bet. secs. 4 and 33.

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

¼ S33 / S4 1918

from which

A pinon, 10 ins.diam.,bears N.57¾°E., 210 lks. dist.,marked ¼ S 33 B T

A pinon, 12 ins.diam.,bears S.12¾°W., 163 lks. dist.,marked ¼ S 4 B T

Thence

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

Gradually descend over rolling bench land sloping E., through scattering cedar and pinon timber and undergrowth of sagebrush and shadscale.

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

| T21S S33 | R6E S34 |
|---|---|
| S4 | S3 |

T22S 1918

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

No trees suitable for bearing trees are available.

Land, rolling bench; E, exposure and drainage.

Soil, shallow brown loam, gravelly and rocky of sandstone formation; sub-soil, dry sandy loam and rock.

Timber, a few scattering cedar and pinon.

Undergrowth, sagebrush and shadscale. Fair grazing.

RESURVEY OF THE EAST BOUNDARY OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | The cor. of secs. 19, 24,25 and 30 on the E. bdy. of T.21 S.,R.6 E. is a hard sandstone, 12 x 9 x 5 ins., lying on the ground, marked with 2 notches on one and 4 notches on opposite edge. No accessories to cor. |
| | From cor. |
| | North, on retracement line bet. secs. 19 and 24. |
| 40.00 | No trace of the ¼ sec. cor. can be found, I therefore continue my line north making careful searches at intervals of 40.00 chs. for ¼ sec. and sec. cors. and at 320.00 chs. fail to find any evidence of the cor. of Tps. 20 and 21 S., Rs. 6 and 7 E. Set temp. Tp. cor. which I designate "A". |
| | --- |
| | From temp. cor. of Tps. 20 and 21 S., Rs. 6 and 7 E. |
| | North, on retracement line bet. secs. 31 and 36, T.20 S., Rs. 6 and 7 E. |
| 40.00 | No trace of the ¼ sec. cor. can be found. |
| 80.00 | No trace of the cor. of secs. 25,30,31 and 36 can be found. |
| | --- |
| | The standard cor. of secs. 1,2,35 and 36 on the 4th. Standard Parallel South, R.7 E., is a limestone, 10 x 8 x 4 ins. above ground, firmly set, and properly marked. No accessories to cor. |
| | From this cor., |
| | West, on retracement line, bet. secs. 2 and 35. |
| 40.00 | No trace of the ¼ sec. cor. can be found, I therefore continue my line west making careful searches at intervals of 40.00 chs. for ¼ sec. and sec. cors. and at 400.00 chs. I am again unable to find any evidence of the cor. of Tps. 20 and 21 S., Rs. 6 and 7 E. Set temp. point for Tp. cor. which I designate "B". |
| | From point A for tp. cor., point B bears N.17°19'E., 14.25 chs. distant. I now restore the cor. of Tps. 20 and 21 S., Rs. 6 and 7 E., 4/9 of the distance |

CHAINS

from point A towards point B., or at a point N.17°19'E. 6.33 chs. distant from point A. Cor. established as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of Tps. 20 and 21 S., Rs. 6 and 7 E. with brass cap marked

T20S
R6E | R7E
S36 | S31
---|---
S1 | S6
T21S
1918

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

The course of the line bet. the cor. of Tps. 20 and 21 S., Rs. 6 and 7 E. and the cor. of secs. 19,24,25 and 30 on the E. bdy. of T.21 S., R.6 E. is S.0°20'W., and the proportionate distance for each mile is 81.51 chs.

Thence from tp. cor.

S.0°20'W., on resurvey line bet. secs. 1 and 6.

Over rough, broken blue clay hills through scattering cedar and pinon timber;undergrowth very scattering shadscale. Descend abruptly S. slope.

4.00 Draw, 50 ft. below tp. cor., drains E.; ascend abruptly.

8.00 Spur, 50 ft. above draw, projects E.; descend.

12.80 Bottom of draw and wash, 20 lks. wide, 3 ft. deep, 50 ft. below spur, drains E.; ascend.

18.30 Spur, 45 ft. above draw, projects E.; thence over broken ground sloping E.

26.40 Draw, 35 ft. below spur, drains E.; ascend.

33.40 Spur, 55 ft. above draw, projects E.; descend abruptly.

39.10 Draw and wash, 15 lks. wide, 3 ft. deep, 75 ft. below spur, drains E.; ascend.

40.75½ Proportionate measurement.

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

¼
S1 | S6
1918

RESURVEY OF THE EAST BOUNDARY OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | from which |
| | A pinon, 7 ins.diam.,bears N.17°W., 167 lks. dist.,marked ¼ S 1 B T |
| | A pinon, 10 ins.diam.,bears S.89½°E., 629 lks. dist.,marked ¼ S 6 B T |
| 45.20 | Ridge, 55 ft. above draw, bears E. and W.; descend. |
| 48.75 | Small draw, drains E.; thence along broken E. slope. |
| 54.80 | Spur, projects SE.; descend. |
| 59.80 | Bottom of draw and wash, 30 lks. wide, 15 ft. deep, 45 ft. below spur, drains E.; ascend abruptly. |
| 64.00 | Top of steep ascent and enter dense timber, bears E. and W. |
| 67.30 | Ridge, 110 ft. above draw, bears E. and W.; descend across head of draw draining SW. |
| 70.40 | Point of spur, projects W.; descend. |
| 73.00 | Draw, drains E.; ascend abruptly. |
| 78.00 | Narrow ridge, 100 ft. above draw, bears E. and W.; leave dense and enter scattering timber, bears with ridge. Descend abruptly W. slope 65 ft. to |
| 81.51 | Proportionate measurement. Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground on solid rock and 6 ins. in a mound of stone for cor. of secs. 1,6,7 and 12, with brass cap marked |

T21S

| R6E | R7E |
|---|---|
| S1 | S6 |
| S12 | S7 |

1918

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

Land, rough mountains; general E. exposure and drainage.

Soil, blue clay, sandstone and limestone rock; sub-soil clay and rock.

Timber, scrub cedar and pinon.

Undergrowth, shadscale. Poor grazing.

RESURVEY OF THE EAST BOUNDARY OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | S.0°20'W., on resurvey line bet. secs. 7 and 12. |
| | Over rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of shadscale. |
| | Descend abruptly over S. slope. |
| 11.10 | Wash, 25 lks. wide, 3 ft. deep, 100 ft. below sec. cor., drains SE.; gradually ascend. |
| 12.50 | Low point, projects E. |
| 14.50 | Large wash, in wide draw, 50 lks. wide, 5 ft. deep, drains E.; ascend over general N. slope. |
| 24.50 | Leave timber, bears E. and W. |
| 29.85 | Clay ridge, 200 ft. above draw, bears E. and W.; descend abruptly over clay slope. |
| 37.90 | Top of sandstone ledge, 25 ft. high, bears E. and W. |
| 40.75½ | Proportionate measurement. On clay slope, 325 ft. below ridge. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼<br>S12 \| S7<br>1918 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist. |
| | Continue to descend. |
| 46.00 | Wash, 35 lks. wide, 5 ft. deep, in large draw and near mouth of same, drains S.80°E.; thence over nearly level land in west edge of valley. |
| 61.50 | Leave valley, bears NW. and SE.; ascend abruptly over N. and NE. slopes. |
| 66.10 | Top of sandstone ledge, 40 ft. high, bears SE., NW. about 5 chs. thence N.; continue steep ascent. |
| 70.60 | Top of clay ridge, 350 ft. above draw, bears NW. and SE.; descend abruptly over S. and SE. slopes 300 ft.to |
| 81.51 | Proportionate measurement. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 7,12,13 and 18, with brass cap marked |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | T21S<br>R6E \| R7E<br>S12 \| S7<br>S13 \| S18<br>1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rough mountainous; general E. exposure and drainage. |
| | Soil, blue clay, sandstone and limestone rock; sub-soil, hard, dry clay and rock. |
| | Timber, scattering cedar and pinon in northern portion of mile. |
| | Undergrowth, short shadscale. Poor grazing. |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| | |
|---|---|
| | From the cor. of secs. 3,4,33 and 34 on the S. bdy. of the tp. heretofore described. |
| | North, on retracement line bet. secs. 33 and 34. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | No trace of the cor. of secs. 27,28,33 and 34 can be found. Set temp. cor. which I designate "A". |
| | From temp. cor. of secs. 27,28,33 and 34. |
| | N.89°54'E., on retracement line bet. secs. 27 and 34. |
| 40.05½ | No trace of the ¼ sec. cor. can be found. |
| 78.86 | Fall 1.52 chs. N. of the cor. of secs. 26,27,34 and 35 which is the NE. cor. of a fence bearing W. and S. Mr. L.N.Hune, owner of the land adjacent to this cor. states that the original cor. stone stood alongside the post at the cor. of the fence and during the past year it had been washed away. |
| | I return to temp. point "A" for cor. of secs. 27,28,33 and 34 and set point "B", 1.52 chs. south and 1.25 chs. west, this point being the record course and distance from the cor. of secs. 26,27,34 and 35. |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | I now restore the cor. of secs. 27,28,33 and 34 midway on line connecting points "A" and "B" or 76 lks. N. and 62½ lks E.of point "B". For description of cor. see resurvey of line bet. secs. 33 and 34. |
| | The course of the line bet. secs. 33 and 34 is N.0°27'W. and the distance is 79.24 chs. |
| | The course of the line bet. secs. 27 and 34 is N.89°33'W. and the distance is 79.49 chs. |
| | From the cor. of secs. 3,4,33 and 34 on the S. bdy. of the tp. heretofore described |
| | N.0°27'W., on resurvey line bet. secs. 33 and 34. |
| | Over broken bench land through shadscale and greasewood undergrowth; a few scattering cedar and pinon trees on both sides of line. An old fence, about 20 lks. E. of line bears N. and S. |
| 4.00 | Old wire fence, bears NW. and S.20°E. |
| 10.10 | Emery Canal, 30 lks. wide, 3 ft. deep, course SE. |
| 13.10 | Wash, 75 lks. wide, 25 ft. deep, course E. |
| 15.30 | Leave timber and undergrowth, enter cultivated land, bears E. and W. about 2 chs. to canal. |
| 17.00 | Wire fence, bears E. and W. |
| 36.90 | Ditch, 10 lks. wide, 3 ft. deep, course E. |
| 39.62 | Proportionate measurement. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 36 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼<br>S33 \| S34<br>1918 |
| | I do not build accessories to cor. as same falls in cultivated field. |
| 45.20 | Emery Canal, 30 lks. wide, 3 ft. deep, course SW.; leave cultivated land and enter rolling clay hills and shadscale undergrowth, bears NE. and SW. |
| 49.00 | Wire fence, bears NE. and SW. |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 50.90 | Old road, bears NE. and SW. |
| 70.00 | Low clay point, projects SE.; a sandstone ledge, bears NW about 1 ch. distant. |
| 79.24 | Proportionate measurement. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 27,28,33 and 34, with brass cap marked |

| | |
|---|---|
| T21S<br>S28 | R6E<br>S27 |
| S33 | S34 |

1918

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

Land, rolling and broken benches on N. and S. portions of mile, nearly level valley in central portion. General E. exposure and drainage.

Soil, of benches, shallow brown sandy loam and blue clay, streaked with limestone and sandstone rock; sub-soil, dry sandy clay and rock. Soil of level land rich sandy loam about 3 ft. deep.

Timber, a few scattering scrub cedar and pinon.

Undergrowth, shadscale and greasewood. Willows along canal. Good farming and grazing land.

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From the cor. of secs. 27,28,33 and 34.

S.89°33'E., on resurvey line bet. secs. 27 and 34.

Over low, rolling clay hills, at foot of high mountain through short undergrowth of shadscale.

| | |
|---|---|
| .50 | Wash, 15 lks. wide, 3 ft. deep, course SE. |
| 10.10 | Clay spur, 35 ft. above wash, projects SE.; descend very gradually. |
| 38.05 | Old road, bears NW. and SE. |
| 38.50 | Emery Canal, 30 lks. wide, 3 ft. deep, course SW.; leave hills and enter nearly level land and dense willow undergrowth, bears NE. and SW. |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 39.74½ | Proportionate measurement. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | $\frac{1}{4}$ S27 / S34 / 1918 |
| | Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. distant. |
| 79.49 | The cor. of secs. 26, 27,34 and 35. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground at cor. of fence for cor. of secs. 26,27, 34 and 35, with brass cap marked |
| | T21S S27 \| R6E S26 / S34 \| S35 / 1918 |
| | Impracticable to build accessories to cor. |
| | Land, W.½ mile rolling clay hills, sloping and draining SE.; E.½ mile nearly level valley. |
| | Soil, W.½ mile, blue clay, mixed with sandstone rock; sub-soil, hard, dry clay. E.½ mile, rich, brown clay loam about 3 ft. deep. |
| | Timber, a few scattering cedar and pinon on western portion of mile. |
| | Undergrowth, shadscale and willow. Good farming and grazing land. |
| | From the cor. of secs. 26,27,34 and 35. |
| | North, on retracement line bet. secs. 26 and 27. |
| 40.00 | No trace of the ¼ sec. cor. can be found. |
| 80.00 | No trace of the cor. of secs. 22,23,26 and 27 can be found. |
| | I continue my line North with continuous measurement. |
| 121.70 | Fall 1.42 chs. E. of the ¼ sec. cor. bet. secs. 22 and 23 hereinafter described. |
| | I now set a point "A" for cor. of secs. 22,23,26 and 27, 40.00 chs. south of the ¼ sec. cor. bet. secs. 22 and 23 |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | and also set point "B" for same cor. 80.00 chs. north of the cor. of secs. 26,27,34 and 35. Point "A" is 1.70 chs. N. and 1.42 chs. W. of point "B". |
| | From the cor. of secs. 23,24,25 and 26 hereinafter described. |
| | West, on retracement line bet. secs. 23 and 26. |
| 40.13 | No trace of the ¼ sec. cor. can be found. |
| 80.26 | I am again unable to find any trace of the cor. of secs. 22,23,26 and 27. Set point "C" for cor. of secs. 22,23,26 and 27. From this point, point "A" is 70 lks. W. and 44 lks. S.; point "B" is 2.14 chs. south and 72 lks. E. |
| | From point "C", |
| | West, on a retracement line bet. secs. 22 and 27. |
| 40.00 | No trace of the ¼ sec. cor. can be found. |
| | I now return and restore the cor. of secs. 22,23,26 and 27 by proportion between points "A", "B" and "C" ; the restored cor. point falls 31½ lks. S. and 53 lks. E. of point "A". For description of cor. see resurvey of the line bet. secs. 26 and 27. |
| | The course of the line bet. secs. 26 and 27 is N.0°38'W. and the distance is 81.39 chs. |
| | The course of the line bet. secs. 23 and 26 is N.89°28'E. and the distance is 80.43 chs. |
| | The course of the S.½ mile bet. secs. 22 and 23 is N.0°45'W. and the distance is 40.32 chs. |
| | From the cor. of secs. 26,27,34 and 35. |
| | N.0°38'W., on resurvey line bet. secs. 26 and 27. |
| | Over nearly level cultivated land belonging to L.N.Hune. |
| 31.70 | Leave cultivated land and enter marsh, bears NW. and SE. |
| 35.40 | Leave marsh and enter rolling land covered with dense sage and greasewood undergrowth, bears NW. and SE. |
| 40.69½ | Proportionate measurement. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | $\frac{1}{4}$<br>S27 \| S26<br>1918 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist. |
| 44.40 | Shallow swale, drains SE. |
| 59.30 | Wash, 10 lks. wide, 10 ft. deep, course SW. |
| 63.70 | Leave rolling land and dense undergrowth, enter clay hills, bears NW. and SE. |
| 75.30 | Low ridge, bears N.80°E. and NW. |
| 79.30 | Descend abruptly over N. slope. |
| 81.25 | Small gully, heads about 3 chs. SE. and drains NW.; ascend |
| 81.39 | Proportionate measurement.<br>Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 22,23,26 and 27, with brass cap marked<br>T21S \| R6E<br>S22 \| S23<br>S27 \| S26<br>1918<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, S. 63.70 chs. nearly level and rolling valley, remainder of mile low clay hills. General S. exposure and drainage. |
| | Soil, in valley, brown clay containing much alkali; soil, hilly portion, blue clay streaked with sandstone rock. |
| | No timber. |
| | Undergrowth, sagebrush and greasewood. |
| | From the cor. of secs. 22,23,26 and 27 |
| | N.89°28'E., on resurvey line bet. secs. 23 and 26. |
| | Over blue clay hills, through very scattering cedar timber and shortundergrowth of shadscale. Ascend. |
| 6.80 | Spur, 75 ft. above sec. cor., projects NW.; descend |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | over NE. slope. |
| 21.80 | Base of ridge and right bank of Muddy Creek, 20 ft. high, 200 ft. below spur, bears NW. and SE. Thence across bottom land of Muddy Creek Canyon. |
| 28.20 | Muddy Creek, 50 lks. wide, 8 ins. deep, good water, course SE. |
| 28.50 | Enter high willow and greasewood undergrowth, bears NW. and SE. |
| 39.20 | Road, bears NW. and SE. |
| 39.40 | Leave bottom land and undergrowth, enter cultivated land, bears NW. and SE. |
| 40.21½ | Proportionate measurement. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼ S23 / S26 1918 |
| | Cor. stands at the SW. cor. of a fence bearing N. and E. and on cultivated ground. It is impracticable to build accessories to cor. |
| | Thence along wire fence extending E. |
| 41.40 | An old adobe brick house bears S. 90 lks. distant. |
| 41.80 | The SE. cor. of wire fence bearing N. and W. |
| | Thence across alfalfa field belonging to The Rochester Land Co. |
| 65.40 | Leave field and enter greasewood and shadscale undergrowth, bears N. and S. |
| 66.90 | Wash, 50 lks. wide, 10 ft. deep, drains S.; leave canyon bottom and enter rolling clay hills, bears N. and S. Gradually ascend over W. slope 25 ft. to |
| 80.43 | The cor. of secs. 23,24,25 and 26 which is a sandstone 8 x 8 x 10 ins. above ground, firmly set and properly marked. No accessories to cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 23,24,25 and 26, with brass cap marked |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | T21S \| R6E<br>S23 \| S24<br>S26 \| S25 |
| | 1918 |
| | Dig pits, 18 x 18 x 12 ins. in each sec., 5½ ft. dist. from cor. |
| | Land, rolling hills in eastern and western portions of mile, nearly level canyon bottom in central portion. |
| | Soil, hilly land, blue clay streaked with sandstone rock; canon bottom, rich, sandy loam. Sub-soil, dry sandy loam. |
| | Timber, a few scattering cedar in western portion of mile |
| | Undergrowth, shadscale, greasewood and willow. |
| | Good grazing and farming land. |
| | From the cor. of secs. 22,23,26 and 27. |
| | West, on resurvey line bet. secs. 22 and 27. |
| | Over rough, broken hilly land, through scattering sage-brush and greasewood undergrowth. Descend. |
| .90 | Small gully, from the SE., drains N. |
| 3.10 | Road, bears N. and S. |
| 3.60 | Emery Canal, 30 lks. wide, 3 ft. deep, course S. Canal flows through tunnel, the north end of which is about 3 chs. south. Ascend abruptly. |
| 17.00 | Top of ascent, 75 ft. above canal, bears N. and S.; enter scattering scrub cedar and pinon timber, bears N. and S. Gradually descend over broken bench. |
| 23.35 | Wood road, bears NW. and SE. |
| 27.85 | Wood road, bears NE. and SW. |
| 35.00 | Brink of gulch, bears N. and S. Descend abruptly. |
| 37.80 | Bottom of gulch, 60 ft. deep, course NW. about 3 chs. to junction with main gulch, thence N.; ascend. |
| 40.00 | On low point, projects N. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼ S22 / S27 1918 |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Land, clay hills and broken bench. |
| | Soil, blue clay and sandstone rock; sub-soil, dry clay and rock. |
| | Timber, scattering scrub cedar and pinon. |
| | Undergrowth, scattering sagebrush and greasewood. |
| | From the cor. of secs. 22,23,26 and 27. |
| | N.0°45'W., on resurvey line bet. secs. 22 and 23. |
| | Over broken clay hills, through sagebrush and greasewood undergrowth. Descend over general N. slope. |
| 4.50 | Wash, 10 lks. wide, 15 ft. deep, course NE. |
| 9.05 | Old road, bears NW. and SE. |
| 10.50 | Old road, bears E. and W. |
| 15.85 | Old wire fence, bears NW. and SE. |
| 17.75 | Right bank of Muddy Creek, 15 ft. high, bears E. and W. |
| 19.50 | Muddy Creek; 50 lks. wide, 5 ins. deep, good water, 100 ft. below sec. cor., course E. |
| 27.00 | Left bank of Muddy Creek, 20 ft. high, bears E. and W. Enter cultivated land belonging to The Rochester Land Co., bears E. and W. |
| 40.32 | The ¼ sec. cor. which is a sandstone, 6 x 6 x 8 ins. above ground, firmly set, and properly marked. No accessories to cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for ¼ sec. cor., with brass cap marked |

¼

S22 | S23

1918

from which

A cottonwood, 8 ins.diam.,bears S.8½°E., 110 lks. dist.,marked ¼ S 23 B T

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

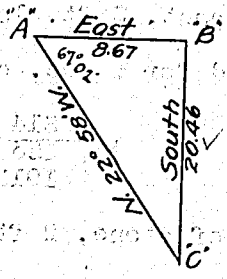
| CHAINS | |
|---|---|
| | A cottonwood, 14 ins.diam.,bears S.22½°W., 96 lks. dist.,marked ¼ S 22 B T |
| | Cor. stands at N. side of cultivated field, bears N.80°W. and E. |
| | Land, S. 27.00 chs. rolling clay hills and creek bottom; general E. exposure and drainage. N. 13,32 chs. nearly level land. |
| | Soil, S. 27.00 chs. blue clay and brown loam containing much alkali. N. 13.32 chs. rich sandy loam soil. |
| | No timber. |
| | Unddrgrowth, greasewood & sagebrush. Willow undergrowth along creek bottom. |
| | From the cor. of secs. 23,24,25 and 26. |
| | North, on retracement line bet. secs. 23 and 24. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.44 | Fall 22 lks. E. of the cor. of secs. 13,14,23 and 24 hereinafter described. |
| | The course of this line is N.0°09'W., and the distance is 80.44 chs. |
| | Thence from cor. of secs. 23,24,25 and 26. |
| | N.0°09'W., on resurvey line bet. secs. 23 and 24. |
| | Over low, broken clay hills, through short undergrowth of shadscale and scattering greasewood. |
| 21.60 | Point of blue clay ridge, projects NW.; descend. |
| 33.70 | Wash, 20 lks. wide, 3 ft. deep, drains W. |
| 40.22 | Proportionate measurement. |
| | Set an iron post, 3 ft. long 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼<br>S23 \| S24<br>1918 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist. |
| 45.80 | Wash, 50 lks. wide, 5 ft. deep, heads at large bank 1 ch. NE. and drains SW. |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 60.60 | Rochester Canal, 15 lks. wide, 3 ft. deep, course E. Dense willow undergrowth along canal. Begin gradual ascent towards base of high blue clay bluffs. |
| 68.85 | Wash, 20 lks. wide, 15 ft. deep, course SW. |
| 80.44 | The cor. of secs. 13,14,23 and 24 which is a sandstone 12 x 10 x 8 ins., set in a small mound of stone, marked with 1 notch on one and slight indications of 3 notches on cornering edge. No accessories to cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground and bury old cor. stone alongside, for cor. of secs. 13,14,23 and 24, with brass cap marked |
| | T21S \| R6E<br>S14 \| S13<br>S23 \| S24<br>1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rolling and broken clay hills; general SW. exposure and drainage. |
| | Soil, blue and brown clay; sub-soil, hard, dry clay. |
| | No timber. |
| | Undergrowth, shadscale, greasewood and willow. Fair grazing land. |
| | From the cor. of secs. 13,14,23 and 24. |
| | West, on retracement line bet. secs. 14 and 23. |
| 40.00 | No trace of the old ¼ sec. cor. can be found. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼ S14 / S23 1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Thence |
| | East, on resurvey line bet. secs. 14 and 23. |
| | Over rolling clay hills, through short undergrowth of shadscale. |

RESURVEY OF THE SUBDIVISION OF T.21 S., R. 6 E.

| CHAINS | |
|---|---|
| 29.10 | Low clay spur, projects S. |
| 35.30 | Wash, 20 lks. wide, 10 ft. deep, heads about 15 chs. N. and drains S. |
| 36.60 | Wash, 20 lks. wide, 10 ft. deep, heads about 15 chs. N. and drains S. |
| 40.00 | The cor. of secs. 13,14,23 and 24. |
| | Land, rolling hills, general S. exposure and drainage. |
| | Soil, blue clay; sub-soil, hard, dry clay. |
| | No timber. |
| | Undergrowth, short shadscale. |
| | From the cor. of secs. 7,12,13 and 18 on the E. bdy. of the tp. heretofore described. |
| | West, on retracement line bet. secs. 12 and 13. |
| 40.10½ | No trace of the ¼ sec. cor. can be found. |
| 80.21 | No trace of the cor. of secs. 11,12,13 and 14 can be found. Set temp. cor. which I designate "A". |
| | From temp. cor. "A" for cor. of secs. 11,12,13 and 14. |
| | South, on retracement line bet. secs. 13 and 14. |
| 40.00 | No trace of the ¼ sec. cor. can be found. |
| 41.21 | Unable to continue south on true retracement line on account of ledges and breaks; triangulate as follows: Erect flag "A" at this point, then measure base East 8.67 chs. and erect flag "B". Set flag "C" South of point "B". From "C" point "A" bears N.22°58'W.; all bearings checked by direct reading of the solar and angles checked by deflection: |




Distance on retracement line = 41.21 chs.

Distance by triangulation = 20.46 chs.

Total distance on retracement line 61.67 chs.

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 61.67 | To point 8.67 chs. east of true retracement line. |
| | Thence South with continuous measurement to 65.38 chs. |
| | Thence west, 8.67 chs. to true retracement line at |
| 65.38 | Thence South. |
| 83.68 | Fall 2.42 chs. E. of the cor. of secs. 13,14,23 and 24 heretofore described. |
| | I return to point "A" for cor. of secs. 11,12,13 and 14 and set point "B", 3.68 chs. S. and 2.42 chs.W.,this point being 80.00 chs. North of the cor. of secs. 13, 14, 23 and 24. I restore cor. of secs. 11,12,13 and 14 midway on line connecting points "A" and"B" or 1.21 chs. W. and 1.84 chs. S. of point "A". For description of cor. see resurvey of the line bet. secs. 13 and 14. |
| | The course of the line bet. secs. 13 and 14 is N.0°51'E. and the distance is 81.85 chs. |
| | The course ofnthe line bet. secs. 12 and 13 is S.88°42'W. and the distance is 81.44 chs. |
| | From the cor. of secs. 13,14,23 and 24. |
| | N.0°51'E., on resurvey line bet. secs. 13 and 14. |
| | Over rolling clay hills through short undergrowth of shadscale. Gradually ascend towards high, blue clay bluffs. |
| 11.80 | Wash, 30 lks. wide, 10 ft. deep, drains SE. |
| 18.30 | Base of bluffs and narrow point projecting from the north. Offset as follows: |
| | East, 8.67 chs., thence N.0°51'E. on offset to 22.01 chs. (counted from sec. cor.); continue N.0°51'E. by triangulation to 42.47 chs. |
| | (counting from sec. cor) thence west, 8.67 chs. to true line at |
| 42.47 | Thence, S.0° 51'W., 1. 545 chs. to |
| 40.92 | Proportionate measurement. |
| | Set an iron post; 3 ft. long, 1 in. in dia., 12 ins. in |

| CHAINS | |
|---|---|
| | the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼<br>S14 \| S13<br>1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Cor. stands on narrow spur projecting S. A rim or bluff follows along sides of spur. |
| | Thence over rough, broken bench land near west side of same. |
| 42.47 | Point of triangulation. |
| 55.00 | Spur, projects NW.; descend. |
| 58.60 | Head of deep, ledgy gulch, drains W.; ascend. |
| 60.00 | Spur, projects W. |
| 60.50 | Ledge, 50 ft. high and S. brink of box gulch, bears E. and W.; gulch drains W. |
| 63.15 | Ledge, 50 ft. high and N. brink of gulch, bears E. and W. |
| 67.50 | Spur, projects W.; descend. |
| 72.10 | Draw, 35 ft. below spur, drains W.; ascend. |
| 73.70 | Thence over more rolling ground sloping S. |
| 81.85 | Proportionate measurement. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for cor. of secs. 11,12,13 and 14, with brass cap marked<br>T21S \| R6E<br>S11 \| S12<br>S14 \| S13<br>1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rough, broken benches; general S. exposure and drainage. |
| | Soil, brown and blue clays mixed with sandstone rock; sub-soil, dry clay and rock. |

RESURVEY OF THE SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | No timber. |
| | Undergrowth, short shadscale and scattering greasewood. Fair grazing. |
| | From the cor. of secs. 7,12,13 and 18 on the E. bdy. of the tp. heretofore described. |
| | S.88°42'W., on resurvey line bet. secs. 12 and 13. |
| | Over rough, broken clay hills draining S., through short undergrowth of shadscale. |
| 1.00 | Low spur, projects S. about 1 ch., 20 ft. above cor.; gradually descend. |
| 5.30 | Wide draw and shallow wash, 15 ft. below spur, drains SE.; ascend abruptly clay slope. |
| 14.60 | Top of ridge and ledge, 315 ft. above draw, bears NW. and S.20°E.; S. point of ledge about 15 lks. S. Thence along steep S. slope across head of draw draining S. |
| 17.90 | Rocky point of spur, projects SW.; descend abruptly. |
| 21.50 | Ravine, 130 ft. below spur, heads about 2 chs. N. and drains S.; ascend. |
| 22.60 | Clay spur, projects S., 35 ft. above ravine; descend abruptly. |
| 28.15 | Enter draw which drains S. and heads about 20 chs. N.30°E., bears N. and S. |
| 33.25 | Leave draw, bears N. and S.; ascend. |
| 35.10 | Clay spur, 80 ft. above draw, projects S.; descend. |
| 40.00 | Enter wide draw, bears N. and S. |
| 40.72 | Proportionate measurement. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼ S12 / S13 / 1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 40.90 | Bottom of draw and wash, 15 lks. wide, 3 ft. deep, drains S. |

| CHAINS | |
|---|---|
| 48.00 | Leave draw and begin steep rocky ascent over ledges, bears N. and S. |
| 53.60 | Top of steep ascent and ledges, enter narrow bench, 400 ft. above ¼ sec. cor., bears N. and S. |
| 57.10 | Leave bench, bears N.30°W. and S.30°E.; descend abruptly over ledges. |
| 59.20 | Ledge, 35 ft. high, bears NW. and SE. |
| 64.45 | Gulch, 160 ft. below bench, drains S.30°E.; ascend abruptly. |
| 70.30 | Spur, 215 ft. above gulch, projects S.30°E.; gradually descend over rolling bench. |
| 81.44 | The cor. of secs. 11,12,13 and 14. |
| | Land, rough, broken clay hills and benches; general S. exposure and drainage. |
| | Soil, blue and brown clay and sandstone rock; sub-soil, dry clay and rock. |
| | Timber, a few scattering cedar. |
| | Undergrowth, shadscale and scattering greasewood. Fair grazing. |
| | From the cor. of secs. 1,6,7 and 12 on the E. bdy. of the tp. heretofore described. |
| | West, on retracement line bet. secs. 1 and 12. |
| 40.00 | No trace of the ¼ sec. cor. can be found. |
| | The nce from cor. of secs. 1,6,7 and 12 on the E. bdy.tp. |
| | West, on resurvey line bet. secs. 1 and 12. |
| | Over rough mountainous land through short undergrowth of shadscale. Along broken, rocky S. slope of blue clay ridge. |
| 6.25 | Spur, projects S.; continue along S. slope. |
| 9.10 | Draw, 75 ft. below spur, heads about 4 chs. N. and drains S.; ascend. |
| 12.25 | Spur, 50 ft. above draw, projects S.; descend. |
| 15.30 | Main draw and large wash, 50 lks. wide, 6 ft. deep, 75 ft. below spur, drains SE.; enter scattering cedar timber, bears N. and S. Ascend. |

SOUTH BOUNDARY OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 16.75 | Low spur, projects SE. about 3 chs.; descend. |
| 17.00 | Main draw and wash, drains SE.; ascend. |
| 19.85 | Low rocky point, projects S.; descend. |
| 20.90 | Main draw and wash, drains SE.; ascend broken NE. slope. |
| 24.20 | Rocky point, projects N.; descend. |
| 25.15 | Main draw and wash, course at bend from the NW. to NE. |
| 35.00 | Leave timber and begin abrupt ascent. |
| 37.50 | Spur, 150 ft. above draw, projects NE.; descend. |
| 40.00 | On steep N. slope. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼ S1 / S12 / 1918 |
| | Unable to build accessories to cor. on account of steep slope of ground. |
| | Land, rough mountainous; general E. exposure and drainage. |
| | Soil, blue and brown clay and sandstone rock; sub-soil, dry clay and rock. |
| | Timber, scattering scrub cedar. |
| | Undergrowth, short shadscale. Poor grazing. |

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SOUTH BOUNDARY OF T.21 S.,R.6 E.

| | |
|---|---|
| | From the ¼ sec. cor., bet. secs. 4 and 33 on the S. bdy. of the tp., heretofore described |
| | West, on true line along S. bdy. of sec. 33. |
| | Over broken bench land sloping E. through scattering scrub cedar timber and shadscale undergrowth. Gradually ascend. |
| 2.00 | Enter heavier timber, bears N. and S. |
| 13.75 | Wash, 10 lks. wide, 3 ft. deep, drains SE. Line crosses wash at point where same falls over ledge about 75 ft. high on S. brink of bench, bears S. and SE. Begin steep ascent E. slope of mountain over ledges, boulders and through dense timber. |

SOUTH BOUNDARY OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 40.00 | On steep E. slope of mountain amongst large sandstone boulders, 600 ft. above ¼ sec. cor. Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 18 ins. in a mound of stone for cor. of secs. 32 and 33, with brass cap marked<br>T21S \| R6E<br>S32 \| S33<br>1918<br>from which<br>A pinon, 14 ins.diam.,bears N.50°15'E., 28 lks. dist.,marked T 21 S R 6 E S 33 B T<br>No other suitable trees are available.<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.<br>Land, rough mountains and broken bench; general E. exposure and drainage.<br>Soil, shallow brown loam and sandstone rock; sub-soil, rocky.<br>Timber, scrub cedar.<br>Undergrowth, shadscale. Poor grazing. |
| | West, along S. bdy. of sec. 32. |
| | Over rough mountainous land through scrub cedar and pinon timber; short shadscale undergrowth. Ascend abruptly rocky E. face of mountain. |
| 30.40 | High ridge, 575 ft. above sec. cor., bears N.10°E. and S.10°W.; descend abruptly. |
| 35.00 | Enter small bench, bears N.10°E. and S.10°W., also leave timber, bears with bench. |
| 39.00 | Leave bench and reenter dense scrub timber, bears N. and S.; descend precipitous W. slopes. |
| 40.00 | On steep W. slope, 135 ft. below ridge. Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor. S. bdy. sec. 32, with brass cap marked |

SOUTH BOUNDARY OF T.21 S.,R.6 E.

CHAINS

¼S32

1918

from which

A cedar, 10 ins.diam.,bears N.33°30'E., 33 lks. dist.,marked ¼ S 32 B T

A pinon, 12 ins.diam.,bears N.24°45'W., 110 lks. dist.,marked ¼ S 32 B T

41.38½ Point midway bet. the closing cor. of secs. 4 and 5 and the closing cor. of secs. 5 and 6, T.22 S.,R.6 E. Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor. N. bdy. sec. 5, T.22 S.,R.6 E., with brass cap marked

¼S5

1918

from which

A pinon, 5 ins.diam.,bears S.44½°E., 50 lks. dist.,marked ¼ S 5 B T

A pinon, 8 ins.diam.,bears S.32°W., 17 lks. dist.,marked ¼ S 5 B T

Continue steep descent over W. slope.

47.35 Ledge, 35 ft. high, bears N. 1 ch. and S. 1 ch.

70.00 Bottom of canyon and wash, 30 lks. wide, 727 ft. below ¼ sec. cor. sec. 32, drains S.; ascend abruptly.

80.00 On rocky E. slope, 140 ft. above canyon.

Point for cor. of secs. 31 and 32 falls on large boulder where cor. cannot be set. Witness cor. established 6 lks. W.; for description of same see S. bdy. sec. 31.

Land, rough mountains with steep E. and W. slopes into canyons draining S.

Soil, sandstone rock and shallow brown loam; sub-soil, rocky.

Timber, cedar and pinon.

Undergrowth, shadscale. Poor grazing.

SOUTH BOUNDARY OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | West, along S. bdy. of sec. 31, from true cor. point for secs. 31 and 32. |
| | Over rough mountainous land through cedar and pinon timber. Ascend precipitous E. slope over ledges and boulders. |
| .06 | Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground on solid rock and 10 ins. in a mound of stone for witness cor. to the cor. of secs. 31 and 32, with brass cap marked<br>T21S \| R6E<br>S31 \| S32<br>WC<br>1918<br>from which<br>A pinon, 8 ins.diam.,bears N.47°E., 102 lks. dist.,marked W C T 21 S R 6 E S 32 B T<br>A pinon, 8 ins.diam.,bears N.7½°W., 80 lks. dist.,marked W C T 21 S R 6 E S 31 B T |
| 8.20 | High rocky ridge, 440 ft. above sec. cor., bears N. and S.; descend abruptly over W. slope. |
| 33.50 | Canyon and wash, 50 lks. wide, 600 ft. below ridge, drains S.; junction of canyons from the NE. and NW. about 1 ch. N.; ascend and descend over broken rocky bench land. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. S. bdy. sec. 31, with brass cap marked<br>¼S31<br>1918<br>from which<br>A pinon, 6 ins.diam.,bears N.42½°E., 54 lks. dist.,marked ¼ S 31 B T<br>A cedar, 4 ins.diam.,bears N.32°W., 47 lks. dist.,marked ¼ S 31 B T |
| 41.37 | Westing of 40.00 chs. from closing cor. of secs. 5 and 6, T.22 S.,R.6 E.<br>Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in |

| CHAINS | |
|---|---|
| | the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor. N. bdy. sec. 6, T.22 S.,R.6 E., with brass cap marked |
| | ¼S6<br>1918. |
| | from which |
| | A pinon, 8 ins.diam.,bears S.57°E., 33 lks. dist.,marked ¼ S 6 B T |
| | A pinon, 4 ins.diam.,bears S.25°W., 102 lks. dist.,marked ¼ S 6 B T |
| 54.30 | Shallow draw, 35 ft. deep, drains S.20°E. |
| 78.00 | Intersect E. bdy. of T.21 S., R.5 E.,.3.14 chs. N. of the cor. of Tps. 21 and 22 S., Rs. 5 and 6 E. which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. The old stone cor. stands alongside iron post. I destroy all marks on cor. pertaining to Tps. 21 and 22 S., R.6 E., and at point of intersection, |
| | Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a large mound of stone for cor. of Tps. 21 and 22 S., R. 6 E., with brass cap marked |
| | T21S<br>R6E<br>S31<br>S6<br>T22S |
| | 1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| | No suitable trees are available. |
| | Land, rough mountains; general S. exposure and drainage. |
| | Soil, rocky, sandstone formation; sub-soil, rocky. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, scattering short shadscale. Poor grazing. |

WEST BOUNDARY OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | From the cor. of Tps. 21 and 22 S., R.6 E. |
| | North, along W. bdy. of sec. 31 |
| 36.83 | The ¼ sec. cor. for secs. 31 and 36 which is an iron post, 1 in. in dia., firmly set, and marked and witnessed as described by the surveyor general. |
| | I destroy all marks on post pertaining to sec. 31 and eff marks on the E. bearing tree. I mark new bearing tree for sec. 36 as follows: |
| | A cedar, 6 ins. diam., bears West, 12 lks. dist., marked ¼ S 36 B T |
| | From ¼ cor. continue north with continuous measurement. |
| 39.31 | Southing of 40.00 chs. from intersection of line bet. secs. 30 and 31, T.21 S.,R.6 E. with W. bdy. of the tp. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground on solid rock and 16 ins. in a mound of stone for ¼ sec. cor., W. bdy. sec. 31, T.21 S.,R.6 E., with brass cap marked ¼S31 \| 1918 |
| | from which |
| | A pinon, 8 ins. diam., bears N.21¼°E., 36 lks. dist., marked ¼ S 31 B T |
| | A pinon, 6 ins. diam., bears S.69°E., 25 lks. dist., marked ¼ S 31 B T |
| | Continue north with continuous measurement. |
| 76.83 | The cor. of secs. 25,30,31 and 36, which is an iron post 2 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | I destroy all marks on post pertaining to R.6 E. and eff marks on the E. bearing trees. |
| 79.31 | Intersection with line bet. secs. 30 and 31, T.22 S.,R.6 E. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. |

WEST BOUNDARY OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | in a large mound of stone for cor. of secs. 30 and 31, T.21 S., R.6 E., with brass cap marked<br>T21S \| S30<br>S31 \| R6E<br>1918<br>from which<br>A pinon, 8 ins.diam.,bears N.52½°E., 21 lks. dist.,marked T 21 S R 6 E S 30 B T<br>A pinon, 14 ins.diam.,bears S.48°E., 39 lks. dist.,marked T 21 S R 6 E S 31 B T |
| | From the cor. of secs. 30 and 31. |
| | North, along W. bdy. of sec. 30 |
| 37.45 | The ¼ sec. cor. bet. secs. 25 and 30 which is an iron post, 1 in. in dia., firmly set in the ground and mound of stone, marked and witnessed as described by the surveyor general. |
| | I destroy all marks on post pertaining to sec. 30 and efface the marks on E. bearing tree. I take new bearing tree as follows:<br>A yellow pine, 18 ins.diam.,bears S.87¼°W., 133 lks.dist.,marked ¼ S 25 B T |
| | Continue north with continuous measurement. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. W. bdy. sec. 30, with brass cap marked<br>¼S30<br>1918<br>from which<br>A yellow pine, 36 ins.diam.,bears N.47°E., 152 lks. dist.,marked ¼ S 30 B T<br>A yellow pine, 24 ins.diam.,bears S.43°E., 80 lks. dist.,marked ¼ S 30 B T |
| 77.45 | The cor. of secs. 19,24,25 and 30 which is an iron post, 2 ins. in dia., extending 12 ins. above ground, firmly |

WEST BOUNDARY OF T.21 S.,R.6 E.

CHAINS

set and marked and witnessed as described by the surveyor general.

I destroy all marks on post pertaining to R.6 E. and ef the marks on E. bearing trees.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 19 and 30, T.21 S.,R.6 E., with brass cap marked

T21S
S19
S30
R6E
1918

from which

A yellow pine, 30 ins.diam.,bears N.26½°E., 205 lks.dist.,marked T 21 S R 6 E S 19 B T

A yellow pine, 48 ins.diam.,bears S.63¾°E., 256 lks.dist.,marked T 21 S R 6 E S 30 B T

---

From the cor. of secs. 19 and 30.

North, along W. bdy. of sec. 19

37.55 The ¼ sec. cor. bet. secs. 19 and 24 which is an iron post, 1 in. in dia., extending 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

I destroy all marks on post pertaining to sec. 19 and efface the marks on E. bearing tree.

No other suitable tree available in sec. 24 and it is impracticable to build other accessories to cor.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., W. bdy. sec. 19, with brass cap marked

¼S19
1919

from which

A pine, 6 ins.diam.,bears N.27½°E., 34 lks. dist.,marked ¼ S 19 B T

WEST BOUNDARY OF T.21 S.,R.6 E.

CHAINS

A pine, 6 ins.diam.,bears S.55°E., 20 lks. dist.,marked ¼ S 19 B T

77.55 The cor. of secs. 13,18,19 and 24 which is an iron post, 2 ins. in dia., extending 12 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

I destroy all marks on post pertaining to R.6 E. and efface the marks on E.bearing trees.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 18 and 19, T.21 S.,R.6 E., with brass cap marked

T21S
S18
S19
R6E
1919

from which

A forked pine, 24 ins.diam.,bears S.85½°E., 67 lks. dist.,marked T 21 S R 6 E S 19 B T

A pine, 24 ins.diam.,bears N.39°E., 45 lks. dist.,marked T 21 S R 6 E S 18 B T

---

From the cor. of secs. 18 and 19.

North, along W. bdy. of sec. 18

37.55 The ¼ sec. cor. bet. secs. 13 and 18 which is an iron post; 1 in. in dia., extending 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

I destroy all marks on post pertaining to sec. 18 and efface marks on E. bearing tree; also, raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground on solid rock and 6 ins. in a mound of stone for ¼ sec. cor. W. bdy. of sec. 18, with brass cap marked

¼S18
1919

WEST BOUNDARY OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | from which |
| | A pine, 15 ins.diam.,bears S.2½°E., 302 lks. dist.,marked ¼ S 18 B T |
| | No other trees available. |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| 77.55 | The cor. of secs. 7,12,13 and 18 which is an iron post, 2 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | I destroy all marks on post pertaining to R.6 E. and efface marks on E. bearing trees. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for cor. of secs. 7 and 18, T.21 S.,R.6 E., with brass cap marked |
| | T21S<br>S7<br>S18<br>R6E<br>1919 |
| | from which |
| | A pine, 12 ins.diam.,bears S.2¾°E., 2.66 chs. dist.,marked T 21 S R 6 E S 18 B T |
| | No other trees are available. |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| | From the cor. of secs. 7 and 18. |
| | North, along W. bdy. of sec. 7, |
| 37.55 | The ¼ sec. cor. bet. secs. 7 and 12 which is an iron post, 1 in.in dia., extending 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | I destroy marks on post pertaining to sec. 7 and also efface marks on E. bearing tree. |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |

WEST BOUNDARY OF T.21 S.,R.6 E.

CHAINS

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. W. bdy. sec. 7, with brass cap marked

| ¼S7

1919

from which

A pine, 10 ins.diam.,bears N.76° E., 45 lks. dist.,marked ¼ S 7 B T

A pine, 8 ins.diam.,bears S.76½° E., 44 lks. dist.,marked ¼ S 7 B T

77.75 The witness cor. to the cor. of secs. 1,6,7 and 12 which is an iron post, 2 ins. in dia., extending 12 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

I destroy all marks on post pertaining to R.6 E.

80.00 Point for cor. of secs. 6 and 7, T.21 S.,R.6 E. falls on large flat sandstone boulder sloping N. Impossible to set cor. Mark X at true cor. point and at point 19 lks. N.;

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in ground in crevice of rock for witness cor. to the cor. of secs. 6 and 7, with brass cap marked

| T21S
| S6
|---
| B7
| R6E
WC

1919

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

---

From true cor. point for secs. 6 and 7.

North, along W. bdy. sec. 6.

.19 The witness cor. to secs. 6 and 7.

82.21 The closing cor. of Tps.21 S.,Rs. 5 and 6 E. which is and iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

WEST BOUNDARY OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | I destroy all marks on post pertaining to R.6 E. and effa marks on E. bearing tree. Cor. now stands for the NE. cor. of T.21 S.,R.5 E. |
| | From cor., |
| | West, along 4th. standard parallel south. |
| 5.19 | The Standard Cor of T.20 S., Rs. 5 and 6 E. which is an iron post, 3 ins. in dia., extending 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | I destroy all marks on post pertaining to R.6 E. and efface marks on E. bearing tree. Cor. Now stands for the Standard SE. cor. of T.20 S.,R.5 E. |
| | From cor., |
| | North, counting distances from true cor. point for secs. 6 and 7, T.21 S.,R.6 E. |
| 40.00 | Point for $\frac{1}{4}$ sec. cor. W. bdy. sec. 6, T.21 S.,R.6 E. falls on top of large sandstone boulder where cor. cannot be set. Mark X at true cor. point and at a point 32 lks. N.; at |
| 40.32 | Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for witness cor. to the $\frac{1}{4}$ sec. cor., W. bdy. sec. 6, T.21 S.,R.6 E., with brass cap marked |

$\frac{1}{4}$S6

WC

1919

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

---

4TH STANDARD PARALLEL SOUTH THROUGH RANGE 6 EAST.

From the cor. of Tps. 20 and 21 S., Rs. 6 and 7 E., heretofore described.

West, along S. bdy. of sec. 36.

4TH. STANDARD APARALLEL SOUTH, THROUGH RANGE 6 EAST.

| CHAINS | |
|---|---|
| | Over rough mountainous land at foot or on breaks of E. slope of high mountain; undergrowth, short shadscale. Descend. |
| .50 | Gully, 25 ft. below cor., drains S.; ascend 30 ft. to |
| 1.80 | Short spur, projects S.; thence along broken S. slope. |
| 5.30 | Main draw, 30 ft. below spur, drains S.80°E.; ascend precipitous E. slope. |
| 13.00 | Top of steep ascent and spur, projects NE.; gradaully ascend along N. slope across head of draw draining N. A high pinnacle bears SW. about 8 chs. distant. |
| 21.70 | Spur, 415 ft. above main draw, projects N.; descend abruptly. |
| 28.50 | Gulch, 90 ft. below spur, heads about 7 chs. S. and drains N. Blue clay pinnacles bear S. about 8 chs. distant. Ascend abruptly N. and NE. slopes. |
| 40.00 | On very steep NE. clay slope, 125 ft. above draw. Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and 8 ins. in a mound of stone for standard $\frac{1}{4}$ sec. cor., with brass cap marked |

SC
$\frac{1}{4}$S36

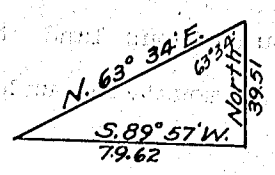
1918

Unable to build accessories to cor. on account of steep slope on which cor. stands.

The line west passes over ledges and breaks of mountain up which it is impracticable to chain, I therefore triangulate as follows:

I return to cor. of Tps. 20 and 21 S.,Rs. 6 and 7 E. and measure a base line North, 39.51 chs. and set a flag. I now place transit at a point S. 89°57'W. of the tp. cor.( unable to set on line and see flags. ) and find that the flag at the north end of the base bears N.63°34'E. All bearings are determined by direct reading of the solar.

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 6 EAST.

| CHAINS | |
|---|---|
| |   |
| | Distance by triangulation = 79.62 chs. |
| | I offset N. 7 lks. to true line, thence West. |
| 80.00 | On NE. break of mountain, about 1000 ft. above ¼ sec. cor. Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 18 ins. in a large mound of stone for standard cor. of secs. 35 and 36 with brass cap marked<br>SC<br>T20S \| R6E<br>S35 \| S36<br>1919<br>from which<br>A pine, 12 ins.diam.,bears N.48°E., 55 lks. dist.,marked S C T 20 S R 6 E S 36 B T<br>No other trees available.<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Land, rough mountainous; general NE. exposure and drainage. |
| | Soil, blue clay, red and brown sandstone rock; sub-soil, dry clay and rock. |
| | Timber, scattering pine in western portion of mile. |
| | Undergrowth, shadscale. |
| | West, along S. bdy. sec. 35. |
| | Over rough mountainous land, through pine timber and scattering shadscale undergrowth. Ascend precipitous N. and NE. breaks of mountain. |
| 17.20 | Leave dense timber, bears N. and S. |
| 20.70 | Top of mountain and ridge, 330 ft. above sec. cor., bears N.20°W. and S.20°E.; descend abruptly over W. slope through dense timber and undergrowth. |

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 6 EAST.

CHAINS

40.00 On top ledge and N. brink of canyon, 560 ft. below ridge, bears NW. and SE.

Point for ¼ sec. cor. falls on surface rock. I mark X for exact cor. point and over same;

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a large mound of stone for standard ¼ sec. cor., with brass cap marked

SC
¼S35
———
1919

from which

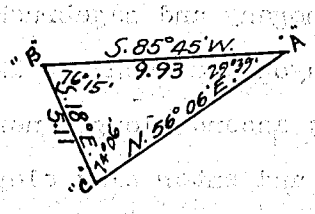
A pine, 8 ins.diam.,bears N.60°E., 120 lks. dist.,marked S C ¼ S 35 B T

A pine, 10 ins.diam.,bears N.37°E., 97 lks. dist.,marked S C ¼ S 35 B T

Unable to secure trees in both quarters of the S.½ of sec. 35.

I am unable to chain west on account of ledges and a deep box canyon, I therefore triangulate and traverse as follows:

I return to a point .95 chs. east of the ¼ sec. cor. which I designate "A" and set point "B" S.85°45'W. From point "B" run S.18°E., 5.11 chs. and set point "C". From point "C", "A" bears N.56°06'E. All bearings taken by direct reading of the solar and all angles checked by deflection.




Distance of the line "A" "B" = 9.93 chs. or westing of 9.90 chs. and southing of .74 chs.

From point "B" I run on traverse line on W. side of canyon, N.76°15'W., 6.14 chs. making westing 5.96 chs. and northing 1.46 chs. from "B". Thence south .72 chs.

4TH STANDARD PARALLEL SOUTH, THROUGH RANGE 6 EAST.

| CHAINS | |
|---|---|
| | to true line at |
| 54.91 | Point on ledge rim of box canyon; ledge bears S.80°E. and W. 1 ch.; descend precipitous N. and NW. slopes through dense timber and undergrowth, 600 ft. to |
| 80.00 | On N. slope near bottom of canyon. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for standard cor. of secs. 34 and 35, with brass cap marked<br>SC<br>T20S \| R6E<br>S34 \| S35<br>1919<br>from which<br>A pinon, 16 ins.diam.,bears N.50°45'E., 60 lks. dist.,marked S C T 20 S R 6 E S 35 B T<br>A pinon, 20 ins.diam.,bears N.27°W., 30 lks. dist.,marked S C T 20 S R 6 E S 34 B T<br>Land, high, rough, broken mountains; general E. and W. exposure and drainage from high ridge at 20.70 chs.<br>Soil, red and brown sandy clay, sandstone and limestone rock; sub-soil, clay and rock.<br>Timber, pine, pinon and cedar.<br>Undergrowth, shadscale, mahogany and service berry brush. Poor grazing. |
| | West, along S. bdy. sec. 34. |
| | Over rough mountainous land through pinon and cedar timber, mahogany and sagebrush undergrowth. Descend. |
| 1.85 | Bottom of canyon and wash, 20 lks. wide, 10 ft. deep, drains SW.; ascend along general S. slopes. |
| 5.75 | Leave timber and enter clay slope, bears N. and S. |
| 12.25 | Spur, 120 ft. above canyon, projects S. to junction with canyons from the NW. and NE.; descend over SW. slope. |
| 21.40 | Bottom of canyon and wash, 50 lks. wide, 10 ft. deep, small stream of good water in wash, 100 ft. below spur, course SE.; enter cedar and pinon timber, bears NW. and SE. Ascend abruptly E. slope. |

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 6 EAST.

| CHAINS | |
|---|---|
| 31.00 | Top of steep ascent, bears NW. and SE.; enter very dense timber and continue gradual ascent. |
| 40.00 | On E. slope, 290 ft. above canyon. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for standard ¼ sec. cor., with brass cap marked |
| | SC<br>¼S34<br>1919 |
| | from which |
| | A pinon, 10 ins.diam., bears N.75¼°E., 48 lks. dist., marked S C ¼ S 34 B T |
| | A pinon, 10 ins.diam., bears N.45°W., 40 lks. dist., marked S C ¼ S 34 B T |
| 51.60 | Shallow draw, drains NE. |
| 59.15 | Same draw, drains S.80°E.; leave timber and enter opening on small bench, bears N. and S. |
| 68.65 | Leave bench and reenter dense timber, bears N. and S.; ascend abruptly. |
| 80.00 | On gentle SE. slope, 360 ft. above ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground on solid rock and 6 ins. in a mound of stone for standard cor. of secs. 33 and 34, with brass cap marked |
| | SC<br>T20S S33 \| R6E S34<br>1919 |
| | from which |
| | A pinon, 8 ins.diam., bears N.59½°E., 39 lks. dist., marked S C T 20 S R 6 E S 34 B T |
| | A pinon, 12 ins.diam., bears N.58½°W., 107 lks. dist., marked S C T 20 S R 6 E S 33 B T |
| | Land, rough, broken mountains; general S. exposure and drainage. |
| | Soil, shallow brown and blue clay and rock; sub-soil, dry sandy clay and rock. Limestone and sandstone formation. |

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 6 EAST.

| CHAINS | |
|---|---|
| | Timber, dense cedar and pinon and scattering pine. Undergrowth, sagebrush and mahogany. Fair grazing. |
| | West, along S. bdy. of sec. 33. |
| | Over rough mountainous land through dense pinon and cedar timber and scattering short undergrowth of shadscale. Gradually ascend. |
| 4.75 | Ridge, bears N.20°W. and S.20°E.; leave dense timber and enter broken bad lands and clay slopes exposed to the south. Descend. |
| 13.40 | Draw, 110 ft. below ridge, drains SW.; ascend. |
| 17.75 | Spur, 100 ft. above draw, projects S.; spur covered with dense cedar and pinon timber. descend. |
| 25.40 | Draw, 45 ft. below spur, drains SW.; ascend. |
| 32.80 | Spur, 50 ft. above draw, projects S.20°W.; descend. |
| 38.70 | Draw, 100 ft. below spur, drains SW.; ascend. |
| 40.00 | On steep SE. clay slope. Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for standard $\frac{1}{4}$ sec. cor., with brass cap marked SC / $\frac{1}{4}$ S33 / 1919 from which A pinon, 14 ins.diam.,bears N.60½°W., 53 lks. dist.,marked S C $\frac{1}{4}$ S 33 B T No other bearing trees available and as cor. stands on very steep slope I do not build other accessories. |
| 43.40 | Spur, 65 ft. above draw, projects S.20°W.; leave bad lands and clay slopes and enter dense cedar, pinon and scattering pine timber, bears N. and S.; descend over W. slope. |
| 62.80 | Wash, in draw, 50 lks. wide, 3 ft. deep, 125 ft. below spur, drains S.; ascend. |

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 6 EAST.

| CHAINS | |
|---|---|
| 67.60 | Spur, 30 ft. above draw, projects S.; descend. |
| 70.20 | Bottom of ravine and wash, 50 lks. wide, 20 ft. deep, small seep of good water in same, 50 ft. below spur, course S.; ascend abruptly E. slope over large sandstone boulders, 220 ft. to |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for standard cor. of secs. 32 and 33, with brass cap marked<br>SC<br>T20S \| R6E<br>S32 \| S33<br>1919<br>from which<br>A pinon, 10 ins.diam.,bears N.40°E., 50 lks. dist.,marked S C T 20 S R 6 E S 33 B T<br>A pinon, 10 ins.diam.,bears N.10°W., 16 lks. dist.,marked S C T 20 S R 6 E S 32 B T<br>Land, rough mountains; general S. exposure and drainage.<br>Soil, brown and blue clays mixed with sandstone rock; sub-soil, rocky.<br>Timber, pinon, cedar and pine<br>Undergrowth, sage, service berry and mahogany. Poor grazing. |
| | West, along S. bdy. of sec. 32. |
| | Over rough mountainous land through dense cedar, pinon and scattering pine timber; undergrowth service berry and mahogany. Ascend precipitous E. break of mountain over ledges and sandstone boulders. |
| 9.85 | Top of sandstone ledge 75 ft. high and brink of mountain top, 500 ft. above sec. cor., bears N. and S.; leave timber and enter short sage and scattering service berry undergrowth, bears N. and S. Thence over rolling mountain top. |
| 38.65 | Swale, drains SW., heads about 5 chs. NE.; ascend. |
| 40.00 | On SE. slope. of S. point of spur. |

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 6 EAST.

CHAINS

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

SC
¼ S 32

1919

from which

A pinon, 8 ins.diam.,bears N.59½°E., 445 lks. dist.,marked S C ¼ S 32 B T

A mahogany, 8 ins.diam.,bears N.53½°E., 134 lks. dist.,marked S C ¼ S 32 B T

Am unable to secure trees in both quarters of the S.½ of sec. 32.

41.50 Point of spur, covered with dense mahogany undergrowth, projects S.; gradually descend over SW. slope.

60.75 Swale, 50 ft. below spur, drains S.; ascend.

75.00 Spur, 50 ft. above swale, projects S.; gradually descend through scattering cedar and mahogany.

80.00 In draw, 50 ft. below spur, drains SW.

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

SC
T20S | R6E
S31 | S32

1919

from which

A pinon, 12 ins.diam.,bears N.79½°E., 190 lks. dist.,marked S C T 20 S R 6 E S 32 B T

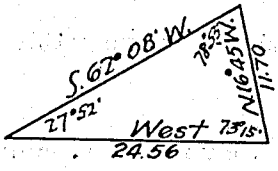
A mahogany, 6 ins.diam.,bears N.25½°W., 412 lks. dist.,marked S C T 20 S R 6 E S 31 B T

Land, E. 9.85 chs. rough, E. break of mountain; E. exposure and south drainage; remainder of mile rolling mountain top, slopes and drains S.

Soil, E. 9.85 chs. rocky; remainder of mile shallow brown loam streaked with rock; sub-soil, dry sand and rock.

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 6 EAST.

| CHAINS | |
|---|---|
| | Timber, scattering pinon, cedar, pine and mahogany. |
| | Undergrowth, short sage, service berry and buck brush. Good grazing. |
| | West, along S. bdy. of sec. 31. |
| | Over rolling mountain top through dense sage and scattering service berry undergrowth. Gradually ascend. |
| 7.50 | Ridge, 40 ft. above cor., bears NE. and SW.; thence along nearly N. slope. |
| 16.00 | Begin steep descent over W. slope. |
| 16.68 | Point of triangulation on W. slope of ridge. The line west passes over high ledges and breaks of mountain which cannot be chained, I triangulate as follows: Set an flag on W. rim of ledges or break of mountain, and from this point measure a base line N.16°45'W. 11.70 chs.; from N. end of base the west flag bears S.62°08'W. All bearings taken by direct reading of the solar and all angles checked by deflection. |




Distance to point of triangulation = 16.68 chs.
Triangulated distance = 24.56 chs.
Total distance to W. triangulation point 41.24 chs.

The approximate topography from the 16.68 ch. point is:

Descend abruptly W. slope.

| | |
|---|---|
| 24.00 | Top of ledges and brink of mountain, bears N. and S. |
| 29.00 | Canyon, 500 ft. below point triangulation, drains SW.; ascend abruptly over ledges. |
| 41.18 | Top of ledges and break of mountain, bears NE., S.80°W. for about 2 chs. thence W. |
| 41.24 | Point of triangulation. The point for the standard ¼ sec. cor. falls on ledges where cor. cannot be set, I therefore measure east 6 lks. to |

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 6 EAST.

| CHAINS | |
|---|---|
| 41.18 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground in crevice of rock for witness cor. to the standard ¼ sec. cor., with brass cap marked<br>SC<br>¼ S31<br>WC<br>1919<br>from which<br>A pinon, 12 ins.diam.,bears N.67½°W., 55 lks. dist.,marked W C S C ¼ S 31 B T<br>A pinon, 24 ins.diam.,bears N.3½°W., 99 lks. dist.,marked W C S C ¼ S 31 B T<br>I am unable to secure bearing trees in both quarters of the S.½ of sec. 31. |
| 41.24 | Point of triangulation. Thence along S. slope near top of ledges and break of mountain which bears about 1 ch. south. |
| 51.00 | Top of sandstone ledge 100 ft. high and break of mountain bears S.80°E. and SW.; enter dense cedar, pinon and mahogany timber, bears with ledge. Ascend abruptly over SE. slope. |
| 57.30 | Spur, 145 ft. above ¼ sec. cor., projects S.; descend abruptly W. slope. |
| 66.95 | Top of ledge and rim of mountain, bears NW. and S.30°E. |
| 70.10 | Canyon, 140 ft. below spur, drains S.20°W.; ascend abruptly. |
| 74.55 | Top of sandstone ledge 25 ft. high and rim of mountain, bears NE. and SW.; gradually ascend SE. slope 150 ft. to |
| 83.63 | Intersect N. and S. line, 56.32 chs. North of the Standard SE. cor. of T.20 S.,R.5 E. heretofore described. At point of intersection;<br>Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of Tps. 20 and 21 S., R.6 E., with brass cap marked |

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

T20S
R6E
S31

S6
T21S

1919

from which

A pinon, 6 ins.diam.,bears N.27¾°E., 209 lks. dist.,marked T 20 S R 6 E S 31 B T

A pinon, 18 ins.diam.,bears S.27¾°E., 95 lks. dist.,marked T 21 S R 6 E S 6 B T

Land, rolling mountain top and rough breaks of mountain; general S. exposure and drainage.

Soil, sandstone rock and shallow brown loam; sub-soil, rocky.

Timber, cedar, pinon, mahogany and scattering pine.

Undergrowth, sagebrush and service berry. Fair grazing on mountain top.

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SUBDIVISION OF T.21 S.,R.6 E.

From the cor. of secs. 11,12,13 and 14 heretofore described.

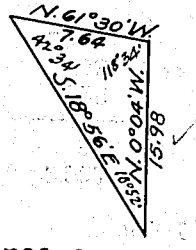
North, on temp. line bet. secs. 11 and 12.

40.00 Set temp. ¼ sec. cor.

47.56 Top of bluffs and edge of deep canyon impossible to chain; triangulate as follows:

Set flag N.0°04'W. on N. side of canyon and also erect flag at this point, then, from N. flag measure a base line N.61°30' W., 7.64 chs. to point where S. flag bears S.18°56'E. All bearings taken by direct reading of the solar and angles are checked by deflection.

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| |   |
| | Triangulated distance = 15.98 chs. |
| | Total distance on temp. line = 63.54 chs. |
| | Offset E. 2 lks. to true temp. line, then continue North. |
| 83.36 | Computed distance. Set temp. cor. of secs. 1 and 12. |
| | From temp. cor. secs. 1 and 12. |
| | East, on a random line bet. secs. 1 and 12. |
| 41.79 | Fall 1 lk. N. of the ¼ sec. cor. bet. secs. 1 and 12 heretofore described. |
| | Thence from cor. of secs. 11,12,13 and 14. |
| | North on true line bet. secs. 11 and 12. |
| | Over rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of shadscale. Ascend SE. and E. slopes of break of mountain. |
| 11.00 | Top of ascent on W. slope of spur projects W., 60 ft. above sec. cor.; descend NW. slope. |
| 14.60 | Ravine, 30 ft. below spur, heads about 6 chs. N.20°E. and drains S.35°W.; ascend abruptly. |
| 21.60 | Top of spur, on E. brink, 150 ft. above ravine, projects S.30°E.; thence along rocky E. slope. |
| 26.00 | Begin abrupt descent over NE. slope. |
| 33.75 | Bottom of junction of ravines from the W. and N.20°E., 125 ft. below spur, drains S.10°E. about 3 chs. thence SE.; thence across numerous small spurs and gullys. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. E. bdy. sec. 11, with brass cap marked<br>¼S11<br>1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 41.25 | Ravine, drains SE.; ascend abruptly rocky S. slope. |
| 41.59½ | Point midway bet. the cor. of secs. 11,12,13 and 14 and the cor. of secs. 1 and 12. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. W. bdy. sec. 12, with brass cap marked<br>¼S12<br>1918 |
| | Raise a mound of stone, 2 ft. base, 1⅓ ft. high, E. of cor. |
| 45.60 | Top of flat rocky ridge, 125 ft. above ravine, bears E. and W.; ridge comes from high point of mountain to the W. |
| 47.56 | N. brink of ridge and point of triangulation. The line north crosses deep canyon and high bluffs. |
| 63.54 | Spur, about 400 ft. above canyon, projects E. Point of triangulation bears W. 2 lks. Descend abruptly. |
| 69.50 | Ravine, 120 ft. below spur, drains E.; ascend abruptly. |
| 71.90 | Sharp spur, 100 ft. above ravine, projects S.60°E.; descend abruptly. |
| 74.50 | Ravine, 100 ft. below spur, drains SE.; ascend abruptly. |
| 76.00 | Small point, projects E.; thence along steep E. slope. |
| 79.65 | Point for cor. of secs. 2 and 11 will fall on steep clay bank of wash where cor. cannot be set, therefore, at this point;<br>Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for witness cor. to the cor. of secs. 2 and 11, with brass cap marked<br>WC<br>T21S<br>S2<br>S11<br>R6E<br>1918 |
| | Unable to build accessories to cor. on account of steep slope of ground. |
| 80.00 | Point for cor. of secs. 2 and 11 on bank of wash. No cor. set. |
| 80.20 | Steep clay ravine, 30 ft. below point, drains SE.; ascend precipitous clay slope. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 83.19 | Intersection with line west from ¼ sec. cor. bet. secs. 1 and 12. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground for cor. of secs. 1 and 12, with brass cap marked |
| | T21S<br>S1<br>S12<br>R6E<br>1918 |
| | Unable to build mound around cor. post or establish accessories to cor. on account of the precipitous slope on which cor. stands. |
| | Land, rough, broken mountains; general E. exposure and drainage. |
| | Soil, blue clay and sandstone and limestone rock; sub-soil, rocky. |
| | Timber, very scattering scrub cedar and pinon. |
| | Undergrowth, short shadscale. Poor grazing. |
| | From the ¼ sec. cor. bet. secs. 1 and 12. |
| | West, on true line bet. secs. 1 and 12. |
| | Over very rough mountainous land on E. face of break of mountain through short undergrowth of shadscale and very scattering scrub cedar and pinon timber. Descend. |
| 7.00 | Ravine, 130 ft. below cor., drains NE.; ascend abruptly over sandstone ledges and blue clay bluffs. |
| 37.50 | Spur, 750 ft. above ravine, projects SE.; descend abruptly hard, blue clay slope. |
| 41.79 | The cor. of secs. 1 and 12. |
| | Land, rough E. break of mountain; slopes and drains E. |
| | Soil, blue clay and rock, limestone and sandstone formation; sub-soil, rocky. |
| | Timber, very scattering scrub cedar and pinon. |
| | Undergrowth, short shadscale. Poor grazing. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | From the cor. of secs. 1 and 12. |
| | North, on true line along W. bdy. sec. 1. |
| | Over rough mountainous land along precipitous E. break of mountain, through very scattering scrub cedar timber and undergrowth of shadscale. Ascend abruptly. |
| 7.70 | Spur, in low saddle, 200 ft. above cor., projects SE. and comes from high ledge about 7 chs. W. Thence along E. slope of mountain crossing heads of ravines draining E. High sandstone ledge and rim of mountain parallels line about 7 chs. W. |
| 34.20 | Spur, from high ledge about 4 chs. W., projects E. about 10 chs. distant then forks NE. and SE.; continue along E. slope gradually descending. |
| 36.81 | Northing of 40.00 chs. from true cor. point for secs. 2 and 11. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor. E. bdy. sec. 2, with brass cap marked<br>¼S2 \| 1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on solid rock and 10 ins. in a mound of stone for ¼ sec. cor. W. bdy. sec. 1, with brass cap marked<br>¼S1 \| 1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| | From this cor., the high ledge rim of mountain which is about 5 chs. W., bears NW. and S. Descend very rocky N. and NE. slopes. |
| 60.00 | Ravine, 200 ft. below ¼ sec. cor. for sec. 2, drains E.; ascend abruptly S. slope over ledges and boulders. |

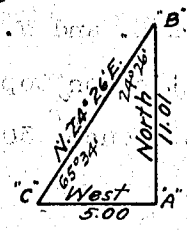
SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 75.00 | Top of ledges and rim of mountain, bears E. and W.; gradually ascend. |
| 75.75 | High rocky spur or neck of mountain top, 500 ft. above ravine, bears E. and W.; descend abruptly over N. slope, ledges and boulders, 225 ft. to |
| 81.41 | Intersect 4th. Standard Parallel South, 1.89 chs. west of the standard cor. of secs. 35 and 36 heretofore described. At intersection, |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a large mound of stone on solid rock for closing cor. of secs. 1 and 2, with brass cap marked |
| | T20SR6E<br>S35<br>S2 \| S1<br>GC<br>T21S<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. |
| | Land, high, rough, broken mountains; general E. exposure and drainage. |
| | Soil, blue and brown clay and rocky of sandstone and limestone formation; sub-soil, rocky. |
| | Timber, very scattering scrub cedar. A few pine on northern portion of mile. |
| | Undergrowth, short shadscale. Poor grazing. |
| | From the ¼ sec. cor. bet. secs. 14 and 23 heretofore described |
| | West, on temp. line bet. secs. 14 and 23. |
| 40.70 | (Computed distance) Set temp. cor. of secs. 14,15,22 and 23. |
| | From temp. cor. of secs. 14,15,22 and 23. |
| | South, on random line bet. secs. 22 and 23. |
| 9.60 | Brink of box canyon across which I triangulate as follows: Set flag on S. side which I designate "A"., also set flag "B" at this point, then, from "A" measure base west, 5.00 chs. to point "C". The line BC bears |

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

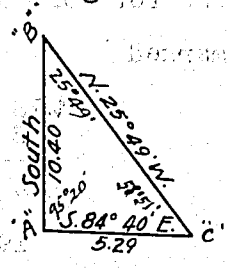
N.24°26'E. All bearings taken by direct reading of the solar and all angles checked by deflection.




Triangulated distance = 11.01 chs.

Total distance to point "A" on random line = 20.61 chs.

20.78 Precipitous descent over slope of bench, down which it is impracticable to chain; triangulate as follows: Set flag A at foot of bench on random line and also erect flag B at this point. From flag A measure base S.84°40'E., 5.29 chs. to flag C. The line BC bears N.25°49'W. All bearings computed from random line which is south and all angles checked by deflection.




Triangulated distance = 10.40 chs.

Total distance on random line = 31.18 chs.

40.89 Fall 8 lks. E. of the ½ sec. cor. bet. secs. 22 and 23 heretofore described.

Thence from ½ sec. cor. bet. secs. 22 and 23.

North, on true line bet. secs. 22 and 23.

Over rolling bottom land in Muddy Cr. Canyon through dense greasewood undergrowth.

3.30 Old road, bears E. and W.

4.00 Enter dense willow undergrowth, bears E. and W.

4.50 Ditch, 6 ft. wide, course E.

5.75 Leave willow undergrowth, bears E. and W.

9.71 Point of triangulation. The topography continues as follows:

11.20 Rochester Canal, 15 lks. wide, 3 ft. deep, course E.,

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

also foot of mountain and base of steep clay slope and ledges, bears E. and W.

20.11 Point of triangulation on top of sandstone ledge 50 ft. high and brink of bench, 300 ft. above ¼ sec. cor., bears E. and SW.

20.28 Point of triangulation on top of narrow bench, bears NE. and W. Line crosses box gulch, about 300 ft. deep, draining W.

31.29 N. point of triangulation on brink of bench and top of ledge about 50 ft. high, bears W., E. about 5 chs. thence S.; thence over broken bench land through pinon and cedar timber and shadscale and greasewood undergrowth.

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

| | |
|---|---|
| T21S<br>S15 | R6E<br>S14 |
| S22 | S23 |

1918

from which

A pinon, 8 ins.diam.,bears S.73°E., 50 lks. dist.,marked T 21 S R 6 E S 23 B T

A pinon; 14 ins.diam.,bears S.48¼°W., 155 lks. dist.,marked T 21 S R 6 E S 22 B T

A pinon, 14 ins.diam.,bears N.58¾°W., 146 lks. dist.;marked T 21 S R 6 E S 15 B T

No other trees are available.

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

Land, S. 11.20 chs. rolling bottom land, remainder of mile, rough, broken bench lands; general S. exposure and drainage.

Soil, of bottom land, deep sandy loam; of bench, brown and blue clay and rock of sandstone and limestone formation; sub-soil, rock.

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Timber, cedar and pinon on northern portion. |
| | Undergrowth, shadscale, greasewood and willow. Good farming and grazing land. |
| | From the ¼ sec. cor. bet. secs. 14 and 23. |
| | West, on true line bet. secs. 14 and 23. |
| | Over rolling and broken clay hills draining S., through short undergrowth of shadscale. |
| 3.10 | Wash, 10 lks. wide, 6 ft. deep, course S. Rochester Canal crosses this wash in flume about 7 chs. S. |
| 8.00 | Wash, 10 lks. wide, 6 ft. deep, course SE. Ascend. |
| 16.00 | Point of spur from bench, 70 ft. above ¼ sec. cor., falls E. |
| 18.00 | Top of low bench, bears N. and S. |
| 24.35 | Begin precipitous ascent E. break of bench over sandstone ledges. |
| 28.20 | Top of ledges and bench, 220 ft. above ¼ sec. cor., bears N. and S.; thence over broken bench land through scattering cedar and pinon. |
| 36.40 | Top of S. point of ledge on bench, falls S.; descend abruptly. |
| 40.78 | The cor. of secs. 14,15,22 and 23. |
| | Land, rough, broken benches; general E. exposure and southerly drainage. |
| | Soil, blue and brown clay and rocky of sandstone and limestone formation; sub-soil, rocky. |
| | Timber, scattering scrub cedar and pinon on western portion of mile. |
| | Undergrowth, shadscale. Fair grazing. |
| | From the cor. of secs. 14,15,22 and 23. |
| | North, on random line bet. secs. 14 and 15. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Set temp. cor. of secs. 10,11,14 and 15. |
| | From the cor. of secs. 11,12,13 and 14. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | West, on a random line bet. secs. 11 and 14. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 81.98 | Fall 1.80 chs. N. of the temp. cor. of secs. 10,11,14 and 15. |
| | Thence from cor. of secs. 14,15,22 and 23. |
| | North, on true line bet. secs. 14 and 15. |
| | Over rough, broken bench land through scrub cedar and pinon timber and undergrowth of chaparral. Ascend. |
| 5.90 | Top of sandstone ledge, 60 ft. above cor. bears E. and W. Thence over bench near E. brink of box canyon. |
| 12.60 | Top of ledge and brink of box canyon, bears NE. and SW.; descend abruptly. |
| 15.00 | Wash, from the SE., drains NW.; thence along E. side, near bottom of main wash. |
| 23.75 | Bottom of box canyon and wash, 12 lks. wide, 10 ft. deep, drains SW.; ascend abruptly over ledges. |
| 27.30 | Top of ledge on N. side of canyon, bears NE. and SW.; continue over broken bench. |
| 30.00 | The head of box canyon crossed at 23.75 chs., bears E. about 3.50 chs. distant. Enter denser timber, bears E. and W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked<br>$\frac{1}{4}$<br>S15 \| S14<br>1918<br>from which<br>A pinon, 10 ins.diam.,bears N.$73\frac{1}{4}°$E., 47 lks. dist.,marked $\frac{1}{4}$ S 14 B T<br>A pinon, 14 ins.diam.,bears S.$22\frac{3}{4}°$W., 22 lks. dist.,marked $\frac{1}{4}$ S 15 B T |
| 40.90 | Wash, 15 lks. wide, 3 ft. deep, drains S.80°E. |
| 47.00 | Leave dense and enter very scattering scrub timber, bears E. and W. |
| 51.60 | Wash, 10 lks. wide, 4 ft. deep, drains SE., drops into box canyon about 2 chs. E. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 54.00 | Same wash, drains SW. |
| 56.60 | Same wash, drains E. |
| 61.20 | Same wash, course at bend from the NW. to SW.; ascend. |
| 66.50 | Low clay point, projects W., 50 ft. above wash. |
| 72.90 | Wash, 15 lks. wide, 6 ft. deep, drains SW.; gradually ascend, recrossing same wash. |
| 81.80 | Intersection with line projected W. from cor. of secs. 11,12,13 and 14. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground on solid rock and 10 ins. in a mound of stone for cor. of secs. 14 and 15, with brass cap marked |
| | S15 \| S14<br>T21S \| R6E<br>1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. |
| | Land, rough, broken bench; general S. exposure and drainage. |
| | Soil, brown and blue clay mixed with rock of sandstone and limestone formation; sub-soil, dry clay and rock. |
| | Timber, scrub cedar and pinon; dense in southern portion of mile, very scattering in the northern portion. |
| | Undergrowth, shadscale. Fair grazing. |
| | From the cor. of secs. 11,12,13 and 14. |
| | West, on true line bet. secs. 11 and 14. |
| | Over rough, broken bench land through very scattering scrub cedar timber and undergrowth of shadscale. |
| 6.50 | Box gulch, 60 ft. deep, drains SW.; forms box about 4 chs. NE. |
| 17.25 | Ledgy gulch, 25 ft. deep, drains S.20°E. |
| 24.65 | Wash, 10 lks. wide, 6 ft. deep, drains S.40°E.; ascend. |
| 32.50 | Top of low clay spur, projects S.20°E.; descend. |
| 33.50 | Wash, 10 lks. wide, 4 ft. deep, drains SE. |
| 37.20 | Same wash, drains NE. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor.; with brass cap marked<br>¼ S11 / S14 / 1918<br>from which<br>A cedar, 10 ins.diam.,bears S.33°W., 37 lks. dist., marked ¼ S 14 B T<br>A cedar, 8 ins.diam.,bears N.40°W., 87 lks. dist.,marked ¼ S 11 B T<br>Ascend NE. slope. |
| 43.70 | Spur, 50 ft. above ¼ sec. cor., projects SE.; descend. |
| 49.85 | Wash, 10 lks. wide, 6 ft. deep, 60 ft. below spur, drains SE.; gradually ascend. |
| 55.20 | Spur, 70 ft. above wash, projects SE.; descend. |
| 58.00 | Head of draw, 50 ft. below spur, drains SW. |
| 60.65 | Draw and wash, 10 lks. wide, 2 ft. deep, drains SW. about 1 ch. thence SE.; ascend. |
| 64.40 | Spur, projects SW.; descend. |
| 68.65 | Wash, 10 lks. wide, 4 ft. deep, drains S.20°W.; thence along broken S. slope. |
| 74.45 | Top of ascent, bears N. and S.; gradually descend. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for cor. of secs. 10 and 11, with brass cap marked<br>T21S \| R6E / S10 \| S11<br>1918<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 81.25 | Begin abrupt descent over short clay slope. |
| 81.98 | The cor. of secs. 14 and 15.<br>Land, rough, broken bench; S. exposure and drainage.<br>Soil, blue and brown clay and rocky of sandstone and blue limestone formation; sub-soil, clay and rock.<br>Timber, very scattering scrub cedar. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Undergrowth, short shadscale. Poor grazing. |
| | From the cor. of secs. 10 and 11. |
| | N.0°01'W., bet. secs. 10 and 11. |
| | Over rough mountainous land through short undergrowth of shadscale. Descend. |
| 2.50 | Wash, 50 lks. wide, 10 ft. deep, 20 ft. below cor., drains SW. about 2 chs., thence S.; ascend. |
| 14.00 | Clay spur, 235 ft. above spur, projects W.; descend abruptly. |
| 17.40 | Wash, 20 lks. wide, 10 ft. deep, in bottom of ravine, 110 ft. below spur, drains SW.; ascend. |
| 18.90 | Clay spur, 45 ft. above ravine, projects W. about 1 ch.; descend. |
| 20.50 | Wash, 10 lks. wide, 10 ft. deep, in ravine, 30 ft. below spur, drains SW.; ascend. |
| 26.10 | Spur, 150 ft. above ravine, projects W.; descend abruptly. |
| 28.30 | Gulch, 30 ft. below spur, drains SW.; ascend. |
| 33.30 | Spur, 45 ft. above gulch, projects W.; descend. |
| 39.40 | Gulch, 30 ft. below spur, drains SW.; ascend abruptly S. slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked<br>$\frac{\frac{1}{4}}{S10 \mid S11}$<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 41.00 | Spur, 80 ft. above gulch, projects W.; ascend along broken rocky W. slope. |
| 49.70 | Head of draw, 160 ft. above spur, drains SW.; ascend abruptly SW. slope. |
| 63.60 | High spur, from point of mountain, 325 ft. above draw, projects W.; descend abruptly N. slope. |
| 64.90 | Gully, 40 ft. below spur, drains W.; ascend abruptly. |
| 69.00 | Spur, 55 ft. above gully, projects NW.; descend abruptly |

CHAINS

over N. slope.

75.00 Gulch, 235 ft. below spur, drains N.80°W.; ascend abrupt SW. slope 120 ft. to

80.00 On steep SW. clay slope.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 2,3,10 and 11, with brass cap marked

| T21S S3 | R6E S2 |
|---|---|
| S10 | S11 |

1919

Stone is not available for mound and it is impracticable to dig pits.

Land, high, rough, broken mountains with steep clay slopes; general SW. exposure and drainage.

Soil, blue clay and sandstone rock; sub-soil, clay and rocky.

No timber.

Undergrowth, short shadscale.

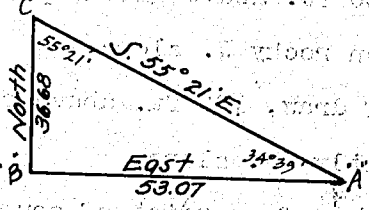
---

East, on a random line bet. secs. 2 and 11.

40.00 Set temp. ¼ sec. cor.

The line east passes over high ledges and breaks of mountain, up which I cannot chain; triangulate as follows:

From cor. of secs. 2,3,10 and 11, set flag "A" on line east on top of mountain, then measure base line BC North, 36.68 chs. (unable to secure longer base ). The line AC bears S.55°21'E. All bearings taken by direct reading of the solar and angles checked by deflection.



SUBDIVISION OF T.21 S.,R.6 E.

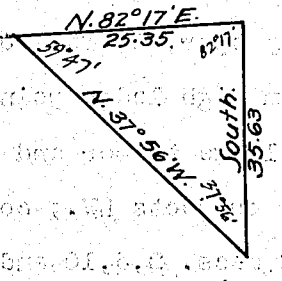
CHAINS

Distance on triangulated line = 53.07 chs.

54.68 Precipitous descent over ledges and break of mountain impossible to chain; triangulate as follows:

From this point the cor. of secs. 1 and 12 which is 3.19 chs. north of the true cor. point for sec. 2 and 11, bears N.82°17'E. From cor. of secs. 1 and 12, measure base line south, 35.63 chs. to point where the west point of triangulation bears N.37° 56'W.

All bearings taken by direct reading of the solar and angles determined by deflection.




Distance by triangulation = 25.35 chs.

Reduced to true distances on random line = easting of 25.12 chs. and a southing of 3.40 chs.

79.80 Intersect N. and S. line 21 lks. S. of the true cor. point for secs. 2 and 11.

Thence

S.89°51'W., on true line bet. secs. 2 and 11.

(By triangulation) Ascend abruptly E. face and break of high mountain over sandstone ledges and boulders.

25.12 Point of triangulation on top of ledge and break of mountain, 500 ft. above sec. cor., bears N. and S. Continue ascent.

25.73 Point of triangulation on top of ridge and narrow neck of mountain, bears N. and S.10°W.; thence by triangulation; descend precipitous W. slope of mountain over ledges and boulders, 500 ft. to

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

¼ S2 / S11 1919

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | from which |
| | A pinon, 15 ins.diam.,bears S.50½°W., 88 lks. dist.,marked ¼ S 11 B T |
| | A pinon, 14 ins.diam.,bears N.71½°W., 16 lks. dist.,marked ¼ S 2 B T |
| | Thence by direct measurement. |
| | Over rough mountainous land through dense cedar and pinon timber and shadscale undergrowth. Descend broken W. and NW. slopes. |
| 64.30 | Gulch, 445 ft. below ¼ sec. cor., drains NW.; ascend rocky NE. slope. |
| 73.70 | Top of rocky spur, 50 ft. above gulch, projects NW. and comes from high ledgy point of mountain about 20 chs. S.10°E.; leave timber and descend abruptly W. slope. |
| 79.30 | Small spur, projects NW.; continue descent. |
| 79.80 | The cor. of secs. 2,3,10 and 11, 210 ft. below 73.70 chs. point. |
| | Land, high, rough mountains; E. and W. exposure and drains from ridge at 25.73 chs. |
| | Soil, brown and blue clays and rock; sandstone and limestone formation; sub-soil, rocky. |
| | Timber, cedar and pinon. |
| | Undergrowth, shadscale. Poor grazing. |
| | N.0°01'W., on true line bet. secs. 2 and 3. |
| | Over rough mountainous land through short undergrowth of shadscale. Ascend. |
| .40 | Spur, 10 ft. above cor., projects NW.; descend abruptly NE. slope. |
| 2.10 | Gulch, 140 ft. below spur, drains NW.; ascend abruptly. |
| 6.20 | Spur, 45 ft. above gulch, projects NW.; enter cedar and pinon timber, bears E. and W. Descend. |
| 20.10 | Ravine, 175 ft. below spur, drains SW.; ascend abruptly S. slope. |
| 24.90 | Spur, 140 ft. above ravine, projects SW.; ascend along steep, rocky W. slope strewn with large sandstone boulders. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked<br>$\frac{1}{4}$<br>S3 \| S2<br>1919<br>from which<br>A pinon, 15 ins.diam.,bears N.51$\frac{3}{4}$°E., 19 lks. dist.,marked $\frac{1}{4}$ S 2 B T<br>A pinon, 8 ins.diam.,bears S.51$\frac{1}{2}$°W., 42 lks. dist.,marked $\frac{1}{4}$ S 3 B T |
| 45.70 | Low spur, projects W.; descend. |
| 51.10 | Rocky gulch, 50 ft. deep, drains W.; ascend. |
| 66.70 | Spur, 50 ft. above gulch, projects SW.; gradually descend. |
| 70.55 | Begin abrupt descent over N. slope. |
| 71.60 | Gulch, 160 ft. below spur, drains NW.; leave dense timber, bears E. and W. Ascend. |
| 80.50 | Spur, 30 ft. above gulch, projects N.80°W.; descend abruptly over N. slope 150 ft. to |
| 84.82 | Intersect 4th. Standard Parallel South, 1.67 chs. west of the standard cor. of secs. 34 and 35 heretofore described. At intersection,<br>Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground on solid rock and 14 ins. in a mound of stone for closing cor. of secs. 2 and 3, with brass cap marked<br>T20SR6E<br>S34<br>S3 \| S2<br>T21S<br>CC<br>1919<br>from which<br>A pinon, 24 ins.diam.,bears S.65°E., 54 lks. dist.,marked C C T 21 S R 6 E S 2 B T<br>A pinon, 8 ins.diam.,bears S.9$\frac{1}{2}$°W., 114 lks. dist.,marked C C T 21 S R 6 E S 3 B T |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Land, rough mountains; general W. exposure and drainage. |
| | Soil, brown clay loam and rocky of sandstone formation; sub-soil, rocky. |
| | Timber, cedar and pinon. |
| | Undergrowth, shadscale. Poor grazing. |
| | From the cor. of secs. 27,28,33 and 34, |
| | North, on true line bet. secs. 27 and 28. |
| | The line north passes over rough break of bench and ledge, up which I cannot chain or triangulate, I therefore offset as follows: |
| | West, 13.43 chs., then |
| | North on offset line 12.13 chs., thence |
| | East, 13.43 chs. to true line at |
| 12.13 | Top of ledges and brink of bench, 360 ft. above sec. cor. bears NE. and SW.; thence over rolling bench sloping gently NW., through cedar and pinon timber, sagebrush and shadscale undergrowth. |
| 16.00 | Leave timber, bears N.20°E. and SW. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. E. bdy. sec. 28, with brass cap marked<br>¼S28 \| <br>1918<br>from which<br>A lone pinon, 14 ins.diam.,bears S.72°12'W., 13.49 chs. dist.,marked ¼ S 28 B T<br>No other trees available and it is impracticable to build other accessories to cor. |
| 40.39 | Point midway bet. the cor. of secs. 22 and 27 and the cor. of secs. 27,28,33 and 34.<br>Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. W. bdy. sec. 27, with brass cap marked |

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

¼S27

1918

from which

A pinon, 14 ins.diam.,bears N.88°E., 341 lks. dist.,marked ¼ S 27 B T

A cedar, 14 ins.diam.,bears N.79°E., 472 lks. dist.,marked ¼ S 27 B T

Unable to secure trees in both quarters of sec. 27.

50.90 Wash, 20 lks. wide, 3 ft. deep, at east side of valley, course from the SE. to N.10°E. Wash enters ledge box about 2 chs. N.10°E.

61.40 Wash, 10 lks. wide, 3 ft. deep, drains NE., joins main wash about 3 chs. NE.

79.00 Enter dense cedar and pinon timber, bears NW. and SE.

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

T21S | S21
S28 | R6E

1918

from which

A pinon, 10 ins.diam.,bears S.56½°W., 198 lks. dist.,marked T 21 S R 6 E S 28 B T

A pinon, 24 ins.diam.,bears N.49¾°W., 113 lks. dist.,marked T 21 S R 6 E S 21 B T

Land, S. 12.13 chs. rough SE. slope of bench; remainder of mile rolling bench, general N. exposure and drainage.

Soil, S. 12.13 chs. blue clay and limestone rock, soil of bench rich sandy loam about 3 ft. deep.

Timber, scattering cedar and pinon in northern and southern portions of mile.

Undergrowth sagebrush and shadscale. Good grazing on bench.

---

From the ¼ sec. cor. bet. secs. 22 and 27.

West, on true line bet. secs. 22 and 27.

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Over rough bench lands through dense undergrowth of shadscale. Descend. |
| 1.10 | Bottom of gulch and wash, 20 lks. wide, 5 ft. deep, drains N.; ascend abruptly E. slope over ledges. |
| 8.35 | Top of ledge and brink of bench, 200 ft. above gulch, bears S., N. about 3 chs. thence SW.; thence across bench through scattering cedar and pinon timber. |
| 16.15 | Brink of bench and top of ledge, bears N.80°E., S.80°W. about 2 chs. to point where wash from the SW. falls over ledge. Wash drains NE. |
| 19.65 | Same ledge and brink of bench, 75 ft. high, bears S.20°E. about 1 ch. to wash, N. about 3 chs., thence NE. |
| 26.25 | Wash, 10 lks. wide, 3 ft. deep, drains NE. |
| 35.25 | Same wash at point where same falls over a small sandstone ledge, drains S.80°E. |
| 37.50 | Same wash, drains NE.; enter dense timber, bears NE. and SE. |
| 38.66 | The cor. of secs. 22 and 27. For description of same see E. bdy. of sec. 21. |
| | Land, rough benches; general E. exposure and drainage. |
| | Soil, shallow brown and blue clay mixed with rock of sandstone and limestone formation; sub-soil, rocky. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, shadscale and sagebrush. Fair grazing. |
| | From the cor. of secs. 21 and 28. |
| | North, along E. bdy. sec. 21. |
| | Over rolling bench land sloping S., through dense cedar and pinon timber and undergrowth of sagebrush. |
| .45 | Wash, 10 lks. wide, 3 ft. deep, drains E. |
| .78 | Intersection with line bet. secs. 22 and 27. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground on solid rock and 14 ins. in a mound of stone for cor. of secs. 22 and 27, with brass cap marked |

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

T21S
S22
S27
R6E
1918

from which

A pinon, 8 ins.diam.,bears N.49¾°E., 46 lks. dist.,marked T 21 S R 6 E S 22 B T

A pinon, 24 ins.diam.,bears S.51¾°E., 214 lks. dist.,marked T 21 S R 6 E S 27 B T

22.30 Top of ridge and N. brink of bench, bears E. and W. From this point Thos. S. Johnson's house bears N.14°W. Leave timber and begin precipitous descent over N. slope; sandstone ledges and very rocky.

27.50 Base of steep descent and enter bottom of Muddy Creek Canyon, bears E. and W.; gradually descend.

30.20 Irrigation ditch, 3 ft. wide, 2 ft. deep, course E.

31.30 Road, bears E. and N.80°W.

33.30 Wash, 50 lks. wide, 10 ft. deep, 300 ft. below ridge, drains N.80°E. Road, Johnson's Ranch to Emery, Utah. crosses wash about 50 lks. E.

33.80 Irrigation ditch, 3 ft. wide, 2 ft. deep, course W.

35.00 Point of spur, 25 ft. above wash, projects SE.

35.65 Irrigation ditch, 3 ft. wide, 2 ft. deep, course SE.

36.55 Road, Johnson's Ranch to Emery, Utah, at foot of spur, bears NWand SE.; enter Johnson's cultivated alfalfa field, bears NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 36 ins. in the ground for ½ sec. cor. E. bdy. sec. 21, with brass cap marked

½S21
1918

Cor. in cultivated field, therefore do not build accessories.

40.78 Northing of 40.00 chs. from the cor. of secs. 22 and 27. Set an iron post, 3 ft. long, 1 in. in dia., 36 ins. in the ground for ½ sec. cor. W. bdy. sec. 22, with brass cap marked.

SUBDIVISION OF T.21 S., R.6 E.

CHAINS

| ¼S22

1918

Cor. stands in cultivated field, no accessories built.

41.30 Leave cultivated land and enter dense willow undergrowth bears NW. and SE.

42.00 Emery Canal, 30 lks. wide, 3 ft. deep, course SE.

46.95 Road, bears NW. and SE.

50.40 S. bank of Muddy Creek, 8 ft. high, bears NW. and SE.; thence across creek bottom with some running water, course SE.

52.45 N. bank of creek, 10 ft. high, bears NW. and SE.

53.00 Rochester Canal, 20 lks. wide, 3 ft. deep, course SE., also base of mountain, bears NW. and SE. Ascend precipitous slope over ledges and boulders.

56.70 Top of high ledge and brink of bench, 200 ft. above creek, bears N.20°W. and SE.; thence along west edge of top of bench.

58.20 Top of ascent on bench, near W. brink. From this point Thos. S. Johnson's house bears N.41°14'W.

69.80 Brink of bench and top of ledge 50 ft. high, bears SW., E. 1 ch. thence N.; descend abruptly.

71.40 Gulch, 75 ft. deep, drains W.; ascend abruptly over ledge

73.40 Top of ledge and point of bench, 75 ft. above gulch, bear N.20°E. and SE.; descend abruptly.

78.90 Gulch, 100 ft. below bench, drains SW.; enter cedar and pinon timber, bears E. and SW. Ascend.

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

T21S
S16
S21
R6E

1919

from which

A pinon, 8 ins.diam.,bears S.81°W., 48 lks. dist.,marked T 21 S R 6 E S 21 B T

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | A pinon, 10 ins.diam.,bears N.35½°W., 29 lks. dist.,marked T 21 S R 6 E S 16 B T |
| | Land, rough, broken benches and nearly level canyon bottom; general S. exposure and southeasterly drainage. |
| | Soil, of benches, shallow brown and gray clays mixed with rock of sandstone formation; sub-soil, dry clay and rock. Soil of canyon bottom, rich sandy loam about 3 ft. deep. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, sagebrush, shadscale and willow. Good grazing land on benches, farming land in canyon. |
| | From the cor. of secs. 14,15,22 and 23. |
| | West, on true line bet. secs. 15 and 22. |
| | Gradually descend over broken bench land sloping W., through scrub cedar and pinon timber and undergrowth of shadscale. |
| 8.65 | Ledge, 50 ft. high,and E. brink of box canyon, bears N. and S.; descend abruptly. |
| 15.90 | Bottom of canyon, 250 ft. below sec. cor., drains S.; ascend abruptly over ledges. |
| 21.75 | Top of ledge and W. brink of canyon, 175 ft. above bottom, bears N.20°E. and S.20°W.; thence over broken bench. |
| 35.75 | Leave timber, bears N. and S.; begin gradual descent over W. slope. |
| 36.65 | Ledge, 60 ft. high, bears N. and S.; descend abruptly. |
| 38.95 | Bottom of canyon and wash, 30 lks. wide, 6 ft. deep, 150 ft. below bench, course S.; ascend abruptly over E. slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked $\frac{1}{2}\ \frac{S15}{S22}\ 1919$ |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |

| CHAINS | |
|---|---|
| 42.50 | Top of ledge, 75 ft. high and brink of bench, bears N. and S., 200 ft. above canyon. Thence over bench throug scrub cedar and pinon timber. |
| 74.25 | Top of ledge, 25 ft. high and leave bench, bears N. and S.; descend abruptly W. slope. |
| 76.70 | Bottom of gulch, 100 ft. below bench, drains S.20°W.; ascend E. slope 35 ft. to |
| 78.14 | Intersect N. and S. line 2.00 chs. N. of the cor. of secs 16 and 21. Cor. of secs. 15 and 22 set at this point, for description see E. bdy. sec. 16. |
| | Land, rough, broken benches; general S. exposure and drainage. |
| | Soil, brown and blue clays mixed with rock of sandstone and limestone formation; sub-soil, clay and rock. |
| | Timber, scattering scrub cedar and pinon. |
| | Undergrowth, shadscale. Fair grazing on benches. |

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From the cor. of secs. 16 and 21.

North, along E. bdy. sec. 16.

Over broken mountainous land draining S. through scrub cedar and pinon timber and undergrowth of scattering sagebrush and mahogany. Gradually ascend along E. slope of gulch.

2.00 Intersection with line bet. secs. 15 and 22.

Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground on solid rock and 6 ins. in a mound of stone for cor. of secs. 15 and 22, with brass cap marked

T21S
S15
S22
R6E
1919

from which

A pinon, 12 ins.diam.,bears N.66¾°E., 143 lks. dist.,marked T 21 S R 6 E S 15 B T

A pinon, 6 ins.diam.,bears S.58¾°E., 49 lks.

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | dist.,marked T 21 S R 6 E S 22 B T |
| 3.50 | Top of ascent, bears NE. and SW., thence over broken bench. |
| 20.00 | Top of bench or flat ridge, bears N.30°E. and S.30°W.; wood road, bears N.10°E. and S.35°W. |
| 29.90 | Leave bench, bears W., N.80°E. about 3 chs., thence N.; descend abruptly over N. slope. |
| 34.50 | Ravine, 100 ft. below bench, drains SW.; thence along bottom of ravine. |
| 39.00 | Same ravine, drains SE.; ascend abruptly SW. slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor. E. bdy. sec. 16, with brass cap marked<br>¼S16 \| 1919<br>from which<br>A pinon, 10 ins.diam.,bears S.10½°W., 50 lks. dist.,marked ¼ S 16 B T<br>A pinon, 10 ins.diam.,bears N.48°W., 16 lks. dist.,marked ¼ S 16 B T |
| | Continue ascent. |
| 42.00 | Northing of 40.00 chs. from the cor. of secs. 15 and 22. Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor. W. bdy. sec. 15, with brass cap marked<br>¼S15 \| 1919<br>from which<br>A pinon, 10 ins.diam.,bears S.19°E., 79 lks. dist.,marked ¼ S 15 B T<br>A pinon, 8 ins.diam.,bears S.52°E., 77 lks. dist.,marked ¼ S 15 B T<br>I am unable to secure bearing trees in both quarters of sec. 15. |

SUBDIVISION OF T. 21 S.,R.6 E.

| CHAINS | |
|---|---|
| 43.20 | Sharp, rocky spur, 100 ft. above ravine, projects N.70°W about 4 chs. distant; descend abruptly. |
| 44.50 | Ravine, 50 ft. below spur, drains W.; ascend. |
| 52.20 | Ridge, bears N. and S.5°W.; continue ascent along E. slope. |
| 76.80 | Ridge, 340 ft. above ravine, bears N.5°W. and S.5°E. |
| 80.00 | Near top of flat ridge. |
| | Point for cor. of secs. 9 and 16 falls on surface rock |
| | Mark X for exact cor. point and over same, |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a large mound of stone for cor. of secs. 9 and 16, with brass cap marked |

T21S
S9
S16
R6E
1919

from which

A pinon, 14 ins.diam.,bears S.14°W., 97 lks. dist., marked T 21 S R 6 E S 16 B T

A pinon, 8 ins.diam.,bears N.54°W., 35 lks. dist.,marked T 21 S R 6 E S 9 B T

Land, rough mountains and broken benches; general S. exposure and drainage.

Soil, brown clay loam, mixed with rock of sandstone formation; sub-soil, clay and rock.

Timber, scrub cedar and pinon.

Undergrowth, sagebrush and scrub mahogany. Fair grazing.

---

From the cor. of secs. 14 and 15.

West, on true line bet. secs. 10 and 15.

| | |
|---|---|
| | Over broken clay hills and benches through short undergrowth of shadscale. Descend. |
| .80 | Wash, 12 lks. wide, 5 ft. deep, drains S.; ascend. |
| 5.00 | Low spur, 35 ft. above wash, projects S.10°W.; descend. |
| 9.50 | Wash, 15 lks. wide, 4 ft. deep, drains SE.; ascend E. slope. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 18.60 | Spur, 125 ft. above wash, projects S.; descend abruptly W. slope. |
| 22.20 | Ravine, 85 ft. below spur, drains SW., heads about 3 chs. NE.; ascend. |
| 28.95 | Spur, projects S.30°W.; descend. |
| 32.25 | Ravine and wash, 30 lks. wide, 4 ft. deep, drain SE. 1 ch., thence W. about 3 chs., thence S.; ascend E. slope. |
| 38.07 | Point midway bet. the cor. of secs. 10 and 11 and the cor. of secs. 10 and 15. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. S. bdy. sec. 10, with brass cap marked<br>¼S10<br>1919<br>Stone is not available for mound and it is impracticable to dig pits. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. N. bdy. sec. 15, with brass cap marked<br>¼S15<br>1919<br>from which<br>A pinon, 14 ins. diam., bears S.67½°E., 99 lks. dist., marked ¼ S 15 B T<br>No other trees are available and it is impracticable to build other accessories to cor. |
| 43.45 | Ridge, 135 ft. above ravine, bears N.30°E. and S.30°W.; enter scrub cedar and pinon timber, bears N. and S. Gradually descend. |
| 49.55 | Draw, drains SW.; gradually ascend. |
| 67.45 | Low ridge, bears N. and S.; descend abruptly over W. slope. |
| 73.40 | Ravine and wash, 50 lks. wide, 6 ft. deep, 100 ft. below ridge, drains S.; ascend abruptly over E. slope, |

| CHAINS | |
|---|---|
| | sandstone boulders and ledges. |
| 78.12 | At foot of sandstone ledge, 30 ft. high, 120 ft. above ravine, bears N.5°W. and S.5°E. Intersect N. and S.lin 3.76 chs. N.0°01'W. of the cor. of secs. 9 and 16. Cor secs. 10 and 15 set at this point, see E. bdy. sec. 9. |
| | Land, rough broken clay hills and benches; general S. exposure and drainage. |
| | Soil, brown and blue clay mixed with sandstone rock; sub-soil, clay and rock. |
| | Timber, scrub cedar and pinon on western portion of mile. Undergrowth, shadscale. Fair grazing. |
| | From the cor. of secs. 9 and 16. |
| | N.0°01'W., along E. bdy. sec. 9. |
| | Over rough mountainous land through scrub cedar and pinon timber and undergrowth of shadscale and scrub mahogany. Descend along steep E. slope parallel to sandstone ledge rim. |
| 3.76 | Intersection with line bet. secs. 10 and 15. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in the ground on solid rock and 14 ins. in a mound of stone for cor. of secs. 10 and 15, with brass cap marked |
| | T21S<br>S10<br>S15<br>R6E<br>1919 |
| | from which |
| | A pinon, 10 ins.diam.,bears N.60½°E., 25 lks. dist.,marked T 21 S R 6 E S 10 B T |
| | A pinon, 8 ins.diam.,bears S.58½°E., 105 lks. dist.,marked T 21 S R 6 E S 15 B T |
| | Begin gradual ascent. |
| 10.40 | Top of ledges and ridge, 65 ft. above sec. cor., bears N.30°E. and S.10°W.; descend along W. slope. |
| 33.60 | Spur, projects W. about 1½ chs. to ravine draining S. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in |

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor. E. bdy. sec. 9, with brass cap marked

¼S9 | 1919

from which

A pinon, 6 ins.diam.,bears S.65°10'W., 28 lks. dist., marked ¼ S 9 B T

A pinon, 10 ins.diam.,bears N.69°25'W., 40 lks. dist.,marked ¼ S 9 B T

40.90 Ravine and wash, 25 lks. wide, 3 ft. deep, 50 ft. below ridge, drains S,20°W.; begin ascent SE. slope of ridge over sandstone ledges and boulders.

43.76 Northing of 40.00 chs. from cor. of secs. 10 and 15.

Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor. W. bdy. sec. 10, with brass cap marked

| ¼S10
1919

from which

A pinon, 5 ins.diam.,bears S.44½°E., 28 lks. dist.,marked ¼ S 10 B T

A pinon, 7 ins.diam.,bears N.59½°E., 43 lks. dist.,marked ¼ S 10 B T

80.00 On E. slope of steep, rocky mountain side. Point for cor. of secs. 4 and 9 falls on top of boulder 25 x 12 x 8 ft. Mark X for exact cor. point and directly under X and also under NE. side boulder;

Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground on solid rock and 6 ins. in a mound of stone for cor. of secs. 4 and 9 with brass cap marked

T21S S4 | S9 R6E
1919

from which

SUBDIVISION OF T.21 S.,R.6 E.

chains

A pinon, 6 ins.diam.,bears N.15°W., 64 lks. dist.,marked T 21 S R 6 E S 4 B T

A pinon, 10 ins.diam.,bears S.22°W., 61 lks. dist.,marked T 21 S R 6 E S 9 B T

Cor. established 620 ft. above ravine.

Land, rough, broken mountains; general S. exposure and drainage.

Soil, rocky of sandstone formation ; sub-soil, rocky.

Timber, scrub cedar and pinon.

Undergrowth, shadscale. Poor grazing.

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N.0° 01'W., on true line along E. bdy. sec. 4.

Over rough mountainous land through cedar and pinon timber and undergrowth of mahogany and chaparral.

Ascend abruptly SE. slope over ledges and boulders.

3.76 Northing of 80.00 chs. from cor. of secs. 10 and 15.

Set an iron post, 3 ft. long, 2 ins. in dia., 4 ins. in the ground on solid rock and 20 ins. in a mound of ston for cor. of secs. 3 and 10, with brass cap marked

T21S
S3
S10
R6E
1919

from which

A pinon, 8 ins.diam.,bears S.13°E., 30 lks. dist.,marked T 21 S R 6 E S 10 B T

No other trees available.

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

5.70 Top of ledges and ridge, 190 ft. above cor. secs. 4 and 9, bears NE. and SW. ; gradually descend over NW. slope through very dense timber and undergrowth,

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor. E. bdy. sec. 4, with brass cap marked

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 47.60 | Ravine, 265 ft. below ridge, drains SE.; leave dense, enter very scattering timber, bears N. and S. Ascend abruptly E. slope over sandstone ledges and boulders. |
| 56.30 | Rocky ridge, 515 ft. above ravine, bears N.20°E. and S.20°W.; enter dense timber, bears with ridge. Gradually descend over W. slope. |
| 61.50 | Ravine, 140 ft. below ridge, drains S.; ascend abruptly E. slope over ledges and boulders 490 ft. to |
| 80.05 | The cor. of secs. 3 and 10. |
| | Land, rough mountains; general S. exposure and drainage. |
| | Soil, rocky of sandstone formation, also streaked with patches of blue and brown clay; sub-soil, rocky. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, shadscale and scattering scrub mahogany. |
| | Poor grazing. |

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From the cor. of secs. 27,28,33 and 34.

West, on true line, bet. secs. 28 and 33.

Over rough mountainous land through short undergrowth of shadscale. Ascend abruptly E. and SE. breaks of bench, steep clay slopes and ledges.

13.43 Top of sandstone ledge, 50 ft. high and brink of bench, 360 ft. above sec. cor., bears NE. and SW.; gradually ascend over rolling bench through dense cedar and pinon timber.

40.00 At foot of steep ascent and west side of bench, bears N. and S.

Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on solid rock and 10 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked

$$\frac{1}{4} \frac{S28}{S33}$$
$$1918$$

from which

A pinon, 6 ins.diam.,bears N.23½°E., 51 lks. dist.,marked $\frac{1}{4}$ S 28 B T

A pinon, 8 ins.diam.,bears S.51½°E., 69 lks.

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | marked ¼ S 33 B T |
| | Ascend abruptly E. slope. |
| 52.55 | Sharp rocky spur, 325 ft. above ¼ sec. cor., projects S. about 10 chs.; descend abruptly. |
| 57.10 | Head of draw, 90 ft. below spur, drains S.20°E.; ascend abruptly E. slope. |
| 61.70 | Spur, 125 ft. above draw, projects NE.; descend. |
| 69.75 | Draw, 20 ft. below spur, heads about 10 chs. S. and drai N.; ascend abruptly E. slope. |
| 75.95 | Spur, 155 ft. above draw, projects N.; gradually descend NW. slope. |
| 79.43 | Intersection with N. and S. line, 79.26 chs. N. of the cor. of secs. 32 and 33 on the S. bdy. of the tp. |
| 80.00 | On gentle NW. slope, 35 ft. below spur. |

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

| T21S. | R6E. |
|---|---|
| S29 | S28 |

1918

from which

A pinon, 16 ins.diam.,bears N.84½°E., 48 lks. dist.,marked T 21 S R 6 E S 28 B T

A pinon, 8 ins.diam.,bears N.58½°W., 35 lks. dist.,marked T 21 S R 6 E S 29 B T

Land, rough mountains and rolling bench; general E. exposure and southerly drainage.

Soil, blue and brown clays mixed with sandstone and limestone rock; sub-soil, clay and rock.

Timber, scrub cedar and pinon.

Undergrowth, shadscale. Fair grazing on bench.

---

From the cor. of secs. 32 and 33 on the S. bdy. of the tp. heretofore described.

North, on true line bet. secs. 32 and 33.

Over rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of shadscale.

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Gradually ascend along rough, ledgy and rocky E. face of mountain. |
| 1.30 | Top of ledge, 15 ft. high, bears S.5°W. and NW., also top of spur, projects E.; descend abruptly over ledges. |
| 3.70 | Ravine, 75 ft. deep, drains E.; ascend abruptly over ledges. |
| 6.00 | Top of ledges, bears NE. and SW.; continue ascent. |
| 10.00 | Spur, projects E.; descend. |
| 11.10 | Indications of coal bear E. about 75 lks. distant. |
| 15.50 | Ravine, 60 ft. below spur, drains E., wash in ravine falls over ledge about 1 ch. E. Ascend. |
| 18.00 | Top of ascent; thence along general E. slope. |
| 32.60 | Rocky ravine, drains E. for about 5 chs., thence SE.; ascend abruptly over ledges and boulders. |
| 39.26 | Southing of 40.00 chs. from line bet. secs. 28 and 33. Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for $\frac{1}{4}$ sec. cor. E. bdy. sec. 32, with brass cap marked<br>$\frac{1}{4}$S32 \| <br>1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. W. bdy. sec. 33, with brass cap marked<br>\| $\frac{1}{4}$S33<br>1918 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| 41.60 | Rocky gully, drains SE.; continue steep ascent. |
| 48.10 | High, rocky point, 200 ft. above gulch, projects SE. and NE.; thence along E. slope over large boulders and through dense timber. |
| 71.00 | Spur, projects N.20°E., descend abruptly NW. slope 160 ft. to |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 79.26 | Intersection with line bet. secs. 28 and 33 at point 57 lks. E. of the cor. of secs. 28 and 29. Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for cor. of secs. 32 and 33, with brass cap marked<br>S32 \| S33<br>T21S \| R6E<br>1918<br>from which<br>A pinon, 10 ins.diam.,bears S.25½°E., 36 lks. dist.,marked T 21 S R 6 E S 33 B T<br>A pinon, 12 ins.diam.,bears S.36°W., 25 lks. dist.,marked T 21 S R 6 E S 32 B T<br>Land, rough mountainous; general E. exposure on S. ¾ mile N. exposure on northern portion. Drainage NE. and E.<br>Soil, rocky of sandstone formation; sub-soil, rocky.<br>Timber, scrub cedar and pinon.<br>Undergrowth shadscale. Poor grazing. |
| | From the cor. of secs. 28 and 29. |
| | N.0°01'W., bet. secs. 28 and 29. |
| | Over rough mountainous land through dense pinon and cedar timber and undergrowth of sagebrush. Descend. |
| 1.20 | Base of descent, leave timber and enter large open draw, bears NE. and SW. |
| 4.40 | Bottom of draw, 35 ft. below cor., drains NE. |
| 7.70 | Leave draw and enter dense cedar and pinon timber, bears NE. and SW. Ascend very rocky and broken E. and SE. slopes. |
| 18.55 | Boulder, 10 x 15 x 10 ft. on line. |
| 36.30 | Ledge, 35 ft. high, bears N.5°E. and S.5°W. |
| 40.00 | On rugged E. slope, 160 ft. above draw. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

$\frac{1}{2}$

S29 | S28

1918

from which

A pinon, 8 ins.diam.,bears N.10½°E., 200 lks. dist.,marked ¼ S 28 B T

A forked pinon, 9 ins.diam.,bears N.61½°W., 60 lks. dist.,marked ¼ S 29 B T.

Continue ascent.

44.00 Top of ledge 10 ft. high and ridge, 175 ft. above draw, bears NE. and S20°W.; enter very dense timber and undergrowth, bears with ridge. Gradually descend NW. slope 75 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 18 ins. in a mound of stone for cor. of secs. 20,21,28 and 29, with brass cap marked

| | |
|---|---|
| T21S<br>S20 | R6E<br>S21 |
| S29 | S28 |

1918

from which

A pinon, 14 ins.diam.,bears N.33°E., 55 lks. dist.,marked T 21 S R 6 E S 21 B T

A pinon, 14 ins.diam.,bears S.56°E., 25 lks. dist.,marked T 21 S R 6 E S 28 B T

A pinon, 10 ins.diam.,bears S.14½°W., 88 lks. dist.,marked T 21 S R 6 E S 29 B T

A pinon, 16 ins.diam.,bears N.61½°W., 35 lks. dist.,marked T 21 S R 6 E S 20 B T

Land, rough mountainous; general NE. exposure and drainage.

Soil, shallow brown clay mixed with sandstone rock; subsoil, rocky.

Timber, pinon and cedar. A few yellow pine in northern portion of mile.

Undergrowth, sagebrush and mahogany. Fair grazing.

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

East, on a random line bet. secs. 21 and 28

40.00 Set temp. ¼ sec. cor.

80.14 Intersect N. and S. line 9 lks. N. of the cor. of secs. 21 and 28.

N.89°56'W., on true line bet. secs. 21 and 28.

Over rolling bench sloping NW., through dense pinon and cedar timber and undergrowth of sagebrush.

1.00 Leave timber, bears NW. and SE.

17.15 Leave bench and reenter timber, bears NW. and SE.; descer

23.70 Wash, 15 lks. wide, 6 ft. deep, drains NW.; ascend.

24.65 Low point, projects N. about 1 ch.; descend.

25.85 Draw, 35 ft. below point, drains N.; ascend abruptly.

37.80 Rocky spur, 225 ft. above draw, projects N.; descend abruptly W. slope.

40.07 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked

$$\frac{1}{4} - \frac{S21}{S28} \atop 1918$$

from which

A pinon, 12 ins.diam.,bears N.11½°E., 60 lks. dist.,marked ¼ S 21 B T

A pinon, 12 ins.diam.,bears S.27½°E., 55 lks. dist.,marked ¼ S 28 B T

48.55 Canyon, 180 ft. below spur, drains N.; begin precipitous ascent over series of ledges.

55.70 Series of sandstone ledges 25 to 75 ft. high, bears N. and S.

60.05 Sandstone ledge, 50 ft. high, bears N. and S.

70.55 Top of steep ascent, ascent more gradual.

75.95 High ridge, 740 ft. above canyon, bears N. and S.; gradually descend over NW. slope 20 ft. to

80.14 The cor. of secs. 20,21,28 and 29.

Land, eastern portion rolling bench; remainder of mile rugged mountains; general northeastern exposure and drainage.

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Soil, on bench, shallow brown loam, of mountainous portion, rocky of sandstone formation; sub-soil of mile, dry sandy loam and sandstone rock. |
| | Timber, pinon and cedar. |
| | Undergrowth, sagebrush and shadscale. Fair grazing on eastern portion of mile. |
| | N.0°01'W., bet. secs. 20 and 21. |
| | Over rough mountainous land through dense pinon and cedar timber and undergrowth of deer brush. Gradually descend. |
| 20.40 | Begin abrupt descent over N. slope, sandstone ledges and boulders, bears E. and W. |
| 24.70 | Ravine, 320 ft. below sec. cor., drains E.; ascend abruptly S. slope over ledges and boulders. |
| 39.60 | Ridge, 425 ft. above ravine, bears NE. and SW.; low saddle in ridge, bears SW. about 7 chs. distant. Gradually descend broken W. slope over large sandstone boulders. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼<br>S20 \| S21<br>1919<br>from which<br>A pinon, 14 ins.diam.,bears S.68°E., 58 lks. dist.,marked ¼ S 21 B T<br>A pinon, 18 ins.diam.,bears N.47°W., 65 lks. dist.,marked ¼ S 20 B T |
| 76.20 | Begin abrupt descent over NW. slope. |
| 80.00 | On steep NW. slope, 190 ft. below ridge. Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for cor. of secs. 16,17,20 and 21, with brass cap marked |

SUBDIVISION OF T.21 S.,R.6 E

CHAINS

| T21S S17 | R6E S16 |
|---|---|
| S20 | S21 |

1919

from which

A pinon, 10 ins.diam.,bears N.25½°E., 83 lks. dist.,marked T 21 S R 6 E S 16 B T

A pinon, 8 ins.diam.,bears S.34½°E., 61 lks. dist.,marked T 21 S R 6 E S 21 B T

A pinon, 8 ins.diam.,bears S.17¾°W., 16 lks. dist.,marked T 21 S R 6 E S 20 B T

A pinon, 8 ins.diam.,bears N.20¾°W., 67 lks. dist.,marked T 21 S R 6 E S 17 B T

Land, rugged mountains; E. exposure and drainage on S.39.60 chs.; western exposure and northerly drainage on northern portion of mile.

Soil, brown clay loam and very rocky of sandstone formation; sub-soil, rock.

Timber, pinon and cedar.

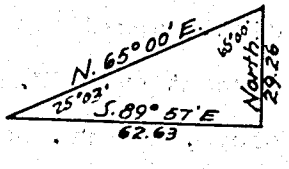
Undergrowth, scattering deer and sagebrush. Fair grazing.

---

S.89° 56'E., on a random line bet. secs. 16 and 21.

17.23 Precipitous descent over ledges into Muddy Canyon impossible to chain; triangulate as follows:

From this point the cor. of secs. 16 and 21 bears S.89°57'E.; a flag 29.26 chs. north of the cor. of secs 16 and 21 bears N.65°E. All bearings taken by direct reading of the solar and angles determined by deflection




Distance by triangulation = 62.63 chs.
Total distance = 79.86 chs.

79.86 Intersect N. and S. line 2 lks. S. of the cor. of secs. 16 and 21.

Thence

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | N.89°57'W., on true line bet. secs. 16 and 21. |
| | (Direct measurement west to ¼ sec. cor.) |
| | Over mountainous land through dense pinon and cedar timber and undergrowth of shadscale. Ascend. |
| 8.00 | Spur, 70 ft. above cor., projects S.10°E.; gradually descend broken S. slope. |
| 18.80 | Irrigation ditch, 2 ft. wide, 1 ft. deep, course S.70°E.; enter bottom of Muddy Cr. Canyon, bears N.70°W. and S.70°E. |
| 20.50 | Wire fence, bears NW. and SE.; leave timber and undergrowth, enter cultivated land, bears NW. and SE. |
| 22.50 | Old road, bears NW. and SE. |
| 23.90 | Wash, 20 lks. wide, 10 ft. deep, drains SE. |
| 35.50 | Muddy Creek, 50 lks. wide, 2 ft. deep, course SE., 105 ft. below spur. |
| 38.20 | Wire fence, bears NE. and SW.; leave cultivated land and enter undergrowth of sagebrush and scattering scrub cedar timber. |
| 39.93 | At foot of W. side of canyon, bears NW. and SE. Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼ S16 / S21 / 1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Thence by triangulation over ledges and breaks of canyon. |
| 62.63 | Ridge and point of triangulation, 1000 ft. above canyon, bears N. and S.; descend over W. slope through dense timber, 160 ft. to |
| 79.86 | The cor. of secs. 16,17,20 and 21. |
| | Land, rough mountainous with exception of bottom of Muddy Canyon which is rolling; northern and southern exposures and general southeastern drainage. |
| | Soil, in Muddy Canyon, rich sandy loam about 3 ft. deep; soil in mountains, very rocky of sandstone formation; sub-soil, rocky. |

| CHAINS | |
|---|---|
| | Timber, cedar and pinon. |
| | Undergrowth, sagebrush, shadscale and scrub mahogany. |
| | Fair grazing on eastern and western portions of mile; good farming land in canyon. |
| | N.0°01'W., bet. secs. 16 and 17. |
| | Over rough mountainous land through cedar and pinon timber and undergrowth of shadscale and scrub mahogany. |
| | Descend over NW. slope ridge, large sandstone boulders. |
| 40.00 | In bottom of canyon on south side of wash, 610 ft. below sec. cor., drains NE. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. with brass cap marked<br>¼<br>S17 \| S16<br>1919<br>from which |
| | A pinon, 18 ins.diam.,bears N.66¾°E., 368 lks. dist.,marked ¼ S 16 B T |
| | A pinom, 18 ins.diam.,bears N.83¼°W., 40 lks. dist.,marked ¼ S 17 B T |
| 40.40 | Wash, 30 lks. wide, 10 ft. deep, in bottom of canyon, drains NE.; ascend abruptly over ledges and boulders. |
| 42.40 | Indications of coal on line. |
| 48.50 | Spur, 150 ft. above canyon, projects E.; gradually descend NW. slope. |
| 57.10 | Leave timber, bears E. and W. |
| 58.90 | Wash, 20 lks. wide, 10 ft. deep, on S. side of Muddy Canyon, 195 ft. below spur, drains N.80°E. |
| 61.80 | Point in bottom of Muddy Creek Canyon, bears N20°E. and SE. Ascend. |
| 67.70 | Spur, 65 ft. above wash, projects E. about 5 chs. to Muddy Creek.; descend. |
| 71.10 | Muddy Creek, in canyon, 50 lks. wide, 2 ft. deep, good water, 50 ft. below spur, course E.; gradually ascend in canyon bottom through dense greasewood undergrowth. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 78.60 | Leave canyon and greasewood undergrowth, bears NW. and SE.; ascend SW. slope through scattering scrub cedar and pinon timber. |
| 80.00 | On SW. slope, 50 ft. above creek. Set an iron post, 3 ft. long, 2 ins. in dia., 4 ins. in the ground on solid rock and 20 ins. in a mound of stone for cor. of secs. 8,9,16 and 17, with brass cap marked<br>T21S \| R6E<br>S8 \| S9<br>S17 \| S16<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.<br>No suitable bearing trees are available.<br>Land, rough, rugged mountains with expception of small strip of land in Muddy Canyon; general Northern exposure and southeasterly drainage.<br>Soil, brown clay loam and very rocky of sandstone formation; sub-soil, clay and rock.<br>Timber, scrub cedar and pinon. A few cottonwoods along Muddy Creek.<br>Undergrowth, sage, scrub mahogany and greasewood. Fair grazing. |
| | S.89°67'E., on a random line bet. secs. 9 and 16. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.80 | Intersect N. and S. line 12 lks. S. of the cor. of secs. 9 and 16. |
| | Thence |
| | S.89°58'W., on true line bet. secs. 9 and 16. |
| | Over rough mountainous land through scrub cedar and pinon timber and undergrowth of shadscale and mahogany. |
| | Descend abruptly over W. slope of ridge. |
| 5.90 | Ravine, 90 ft. below cor., drains S.; ascend abruptly E. slope over sandstone ledges and boulders. |

| CHAINS | |
|---|---|
| | Timber, cedar and pinon. |
| | Undergrowth, sagebrush, shadscale and scrub mahogany. |
| | Fair grazing on eastern and western portions of mile; good farming land in canyon. |
| | N.0°01'W., bet. secs. 16 and 17. |
| | Over rough mountainous land through cedar and pinon timber and undergrowth of shadscale and scrub mahogany. Descend over NW. slope ridge, large sandstone boulders. |
| 40.00 | In bottom of canyon on south side of wash, 610 ft. below sec. cor., drains NE. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. with brass cap marked. ¼ S17 \| S16 1919 from which A pinon, 18 ins.diam.,bears N.66¾°E., 368 lks. dist.,marked ¼ S 16 B T A pimom, 18 ins.diam.,bears N.83¼°W., 40 lks. dist.,marked ¼ S 17 B T |
| 40.40 | Wash, 30 lks. wide, 10 ft. deep, in bottom of canyon, drains NE.; ascend abruptly over ledges and boulders. |
| 42.40 | Indications of coal on line. |
| 48.50 | Spur, 150 ft. above canyon, projects E.; gradually descend NW. slope. |
| 57.10 | Leave timber, bears E. and W. |
| 58.90 | Wash, 20 lks. wide, 10 ft. deep, on S. side of Muddy Canyon, 195 ft. below spur, drains N.80°E. |
| 61.80 | Point in bottom of Muddy Creek Canyon, bears N20°E. and SE. Ascend. |
| 67.70 | Spur, 65 ft. above wash, projects E. about 5 chs. to Muddy Creek.; descend. |
| 71.10 | Muddy Creek, in canyon, 50 lks. wide, 2 ft. deep, good water, 50 ft. below spur, course E.; gradually ascend in canyon bottom through dense greasewood undergrowth. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 78.60 | Leave canyon and greasewood undergrowth, bears NW. and SE.; ascend SW. slope through scattering scrub cedar and pinon timber. |
| 80.00 | On SW. slope, 50 ft. above creek. Set an iron post, 3 ft. long, 2 ins. in dia., 4 ins. in the ground on solid rock and 20 ins. in a mound of stone for cor. of secs. 8,9,16 and 17, with brass cap marked |

T21S | R6E
S8 | S9
S17 | S16

1919

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

No suitable bearing trees are available.

Land, rough, rugged mountains with expception of small strip of land in Muddy Canyon; general Northern exposure and southeasterly drainage.

Soil, brown clay loam and very rocky of sandstone formation; sub-soil, clay and rock.

Timber, scrub cedar and pinon. A few cottonwoods along Muddy Creek.

Undergrowth, sage, scrub mahogany and greasewood. Fair grazing.

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S.89°57'E., on a random line bet. secs. 9 and 16.

40.00 Set temp. ¼ sec. cor.

79.80 Intersect N. and S. line 12 lks. S. of the cor. of secs. 9 and 16.

Thence

S.89°58'W., on true line bet. secs. 9 and 16.

Over rough mountainous land through scrub cedar and pinon timber and undergrowth of shadscale and mahogany.

Descend abruptly over W. slope of ridge.

5.90 Ravine, 90 ft. below cor., drains S.; ascend abruptly E. slope over sandstone ledges and boulders.

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 16.60 | Sandstone ledge, 60 ft. high, bears N. and S. |
| 19.10 | Ridge, 390 ft. above ravine, bears N. and S.; gradually descend over western slope. |
| 39.90 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S9 / S16 / 1919<br>from which<br>A pinon, 8 ins.diam.,bears N.64½°E., 67 lks. dist.,marked ¼ S 9 B T<br>A pinon, 6 ins.diam.,bears S.11½°E., 46 lks. dist.,marked ¼ S 16 B T |
| 43.70 | Bottom of canyon and wash, 10 lks. wide, 3 ft. deep, 210 ft. below ridge, drains SW.; ascend abruptly over sandstone ledges. |
| 54.50 | Spur, 110 ft. above canyon, projects S.; descend abruptly SW. slope over ledges and boulders 275 ft. to |
| 79.80 | The cor. of secs. 8,9,16 and 17.<br>Land, rough mountainous; general S. exposure and drainage<br>Soil, shallow brown loam and rocky of sandstone formation sub-soil, sandy clay and rock.<br>Timber, cedar and pinon.<br>Undergrowth, sagebrush and shadscale. Fair grazing. |
| | N.0°01'W., bet. secs. 8 and 9.<br>Over rough mountainous land through scrub cedar and pinon timber and undergrowth of shadscale and sagebrush.<br>Ascend S. slope over sandstone boulders. |
| 12.20 | Spur, 350 ft. above cor., projects W.; gradually descend over NW. slope. |
| 32.00 | Bottom of canyon and wash, 60 lks. wide, 4 ft. deep, 140 ft. below spur, drains S20°W.; leave dense timber and begin ascent over S. slope mountain. |
| 39.00 | Spur, 80 ft. above canyon, projects E. about 2 chs.; descend. |
| 39.90 | Gully, 15 ft. below spur, drains SE.; ascend precipitous |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | S. slope of mountain over ledges and boulders. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S8 \| S9<br>1919<br>from which<br>A cedar, 8 ins.diam.,bears S.28¼°E., 76 lks. dist.,marked ¼ S 9 B T<br>A cedar, 24 ins.diam.,bears S.53°W., 75 lks. dist.,marked ¼ S 8 B T |
| 53.00 | Spur, 435 ft. above ¼ sec. cor., projects SE.; descend abruptly NE. slope. |
| 55.80 | Ravine, 45 ft. below spur, drains SE.; ascend abruptly SW. slope. |
| 63.20 | Spur, 260 ft. above ravine, projects SE.; thence along very rugged E. slope across large sandstone boulders. |
| 75.50 | Top of ascent on E. slope, 155 ft. above spur; descend. |
| 79.94 | Point for cor. of secs. 4,5,8 and 9 will fall on large sandstone boulder; therefore at this point,<br>Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for witness cor. to the cor. of secs. 4,5, 8 and 9, with brass cap marked<br>WC<br>T21S \| R6E<br>S5 \| S4<br>S8 \| S9<br>1919<br>from which<br>A pinon 10 ins.diam.,bears N.61½°E., 173 lks. dist.,marked W C T 21 S R 6 E S 4 B T<br>A pinon, 12 ins.diam.,bears S.39½°E., 30 lks. dist.,marked W C T 21 S R 6 E S 9 B T<br>A pinon, 8 ins.diam.,bears S.75½°W., 88 lks. dist.,marked W C T 21 S R 6 E S 8 B T<br>A pinon, 8 ins.diam.,bears N.35¼°W., 90 lks. |

| CHAINS | |
|---|---|
| | dist.,marked W C T 21 S R 6 E S 5 B T. |
| 80.00 | Point for cor. of secs. 4,5,8 and 9 on large sandstone boulder in place. Mark X for exact cor. point. |
| | Land, rough mountains; general S. exposure and drainage. |
| | Soil, blue and brown clay and sandstone rock; sub-soil, rock. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, sage, mahogany and shadscale. Poor grazing. |
| | From true cor. point secs. 4,5,8 and 9. |
| | N.89°58'E., on a random line bet. secs. 4 and 9. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.68 | Intersect N. and S. line 5 lks. N. of the cor. of secs. 4 and 9. |
| | Thence |
| | West, on true line bet. secs. 4 and 9. |
| | Over rough, rugged mountainous land through scrub cedar and pinon timber and scattering undergrowth. Ascend abruptly E. slope over sandstone ledges and boulders. |
| 3.30 | Ridge, 175 ft. above cor., bears NE. and S.20°W.; gradually descend W. slope through very dense timber. |
| 39.84 | On gentle W. slope in dense timber, 380 ft. below ridge. Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground on solid rock and 12 ins. in a mound of stone for ¼ sec. cor., with brass cap marked |
| | ¼ S4 / S9 1919 |
| | from which |
| | A pinon, 6 ins.diam.,bears N.79½°E., 27 lks. dist.,marked ¼ S 4 B T |
| | A pinon, 8 ins.diam.,bears S.45°W., 34 lks. dist.,marked ¼ S 9 B T |
| 47.90 | Sandstone ledge, 10 ft. high, bears N. and S.; descend abruptly over W. slope. |
| 57.20 | Canyon, 355 ft. below ¼ sec. cor., drains S.; ascend abruptly E. break of high mountain over large sandstone boulders |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 64.60 | Spur, 235 ft. above canyon, projects SE.; gradually descend. |
| 70.10 | Rocky gulch, 30 ft. below spur, drains SE.; ascend precipitous E. slope, 245 ft. to |
| 79.68 | The true cor. point of secs. 4,5,8 and 9. |
| | Land, rough mountains; general S. exposure and drainage. |
| | Soil, shallow brown loam and rocky of sandstone formation; sub-soil, clay and rock. |
| | Timber, pinon and cedar. |
| | Undergrowth, sage, mahogany and deer brush. Fair grazing. |
| | --- |
| | From true cor. point for secs. 4,5,8 and 9. |
| | N.0°02'W. on true line bet. secs. 4 and 5. |
| | Over rough mountainous land through scattering scrub cedar and pinon timber and shadscale undergrowth. Ascend along precipitous E. break of mountain over sandstone ledges and boulders. |
| 40.00 | On E. slope, 410 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼<br>S5 \| S4<br>1919 |
| | from which |
| | A pinon, 8 ins.diam.,bears S.82½°E., 26 lks. dist.,marked ¼ S 4 B T |
| | A cedar, 4 ins.diam.,bears S.34½°W., 65 lks. dist.,marked ¼ S 5 B T |
| 80.49 | Intersect 4th. Standard Parallel South, 1.40 chs. West of the standard cor. of secs. 32 and 33 heretofore described. At intersection, |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 4 and 5, with brass cap marked |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | T20SR6E<br>S32<br>S5 \| S4<br>CC<br>T21S<br>1919 |
| | from which |
| | A pinon, 12 ins.diam.,bears S.9¾°E., 33 lks. dist.,marked C C T 21 S R 6 E S 4 B T |
| | A pinon, 24 ins.diam.,bears S.37½°W., 85 lks. dist.,marked C C T 21 S R 6 E S 5 B T |
| | Land, rough mountainous; E. exposure and S. drainage. |
| | Soil, chiefly rocky with some shallow brown clay; sub-soil, rocky. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, shadscale. Poor grazing. |
| | From the cor. of secs. 28 and 29. |
| | West, on true line along S. bdy. sec. 29 |
| | Over rough mountainous land through dense pinon and cedar timber and undergrowth of sagebrush. Gradually descend. |
| 1.60 | Leave timber and enter open draw, bears NE. and SW. |
| 3.90 | Wash, 10 lks. wide, 2 ft. deep, in draw, 20 ft. below cor., drains NE. |
| 7.90 | Leave draw and enter dense timber, bears NE. and SW.; ascend abruptly rocky E. slope. |
| 19.30 | Rocky ridge, 125 ft. above draw, bears N.10°W. and S.10°E. enter mahogany undergrowth with the timber, bears N. and S. Descend abruptly W. slope. |
| 36.00 | Canyon, 310 ft. below ridge, drains SW.; ascend abruptly. |
| 39.00 | Ledge point, 50 ft. above canyon, projects S.20°E.; ascend broken E. and NE. slope. |
| 39.43 | Westing of 40.00 chs. from cor. of secs. 32 and 33. Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground on solid rock and 6 ins. in a mound of stone for ¼ sec. cor. N. bdy. sec. 32, with brass cap marked |

¼S32
1918

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | from which |
| | A pinon, 5 ins.diam.,bears S44½°E., 23 lks. dist.,marked ¼ S 32 B T |
| | A cedar, 8 ins.diam.,bears S.16°W., 41 lks. dist.,marked ¼ S 32 B T |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. S. bdy. sec. 29, with brass cap marked<br>¼S29<br>1918 |
| | from which |
| | A pinon, 5 ins.diam.,bears N.31½°E., 32 lks. dist.,marked ¼ S 29 B T |
| | A pinon, 8 ins.diam.,bears N.11°E., 24 lks. dist.,marked ¼ S 29 B T |
| 53.20 | Ridge, 50 ft. above canyon, bears NW. and SE.; descend abruptly SW. slope. |
| 67.80 | Canyon and wash, 25 lks. wide, 5 ft. deep, 110 ft. below ridge, drains S.60°E.; ascend abruptly. |
| 71.70 | Base of sandstone ledge 80 ft. high, bears NW. and SE. |
| 72.30 | Top of ledge, 210 ft. above canyon, bears NW. and SE.; continue ascent on general E. slope. |
| 79.43 | Westing of 80.00 chs. from cor. of secs. 32 and 33. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for cor. of secs. 31 and 32, with brass cap marked<br>S31 \| S32<br>T21S \| R6E<br>1918 |
| | from which |
| | A cedar, 10 ins.diam.,bears S.4½°E., 54 lks. dist.,marked T 21 S R 6 E S 32 B T |
| | A pinon, 8 ins.diam.,bears S.42½°W., 75 lks. dist.,marked T 21 S R 6 E S 31 B T |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for cor. of secs. 29 and 30, with brass cap marked |

SUBDIVISION OF T. 21 S., R. 6 E.

| CHAINS | |
|---|---|
| | T21S \| R6E<br>S30 \| S29<br>1918 |
| | from which |
| | A pinon, 6 ins.diam.,bears N.36°E., 44 lks. dist.,marked T 21 S R 6 E S 29 B T |
| | A pinon, 8 ins.diam.,bears N.15°W., 17 lks. dist.,marked T 21 S R 6 E S 30 B T |
| | Land, rough mountainous; general south exposure and drainage. |
| | Soil, shallow brown clay and rocky of sandstone formation sub-soil, rocky. |
| | Timber, pinon and cedar. |
| | Undergrowth, sagebrush, mahogany and shadscale. Poor grazing. |
| | From the cor. of secs. 31 and 32, 57 lks. E. of the cor. of secs. 29 and 30. |
| | South, on a random line bet. secs. 31 and 32. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.45 | Intersect S. bdy. of the tp., 3 lks. W. of the true cor. point for secs. 31 and 32 heretofore described. |
| | Thence |
| | N.0°01'W., on true line bet. secs. 31 and 32. |
| | Over rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of shadscale. |
| | Ascend along steep, rocky and ledgy E. slope of ridge. |
| 22.60 | Foot of series of broken red sandstone ledges about 20 ft. high, bears N.10°E. and S.10°W. |
| 28.50 | Ridge, 480 ft. above sec. cor., bears N.10°E. and S.10°W.; descend very rocky NW. slope strewn with large boulders. |
| 39.41 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a large mound of stone on solid rock for ¼ sec. cor. with brass cap marked |
| | ¼<br>S31 \| S32<br>1918 |

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

from which

A pinon, 6 ins.diam.,bears N.44°E., 36 lks. dist.,marked $\frac{1}{4}$ S 32 B T

A pinon, 10 ins.diam.,bears N.52°W., 88 lks. dist.,marked $\frac{1}{4}$ S 31 B T

Continue along W. and NW. slopes.

59.40 Draw, 65 ft. below ridge, drains S.60°W.; ascend abruptly.

62.40 Ridge, 80 ft. above draw, bears NW. and SE.; thence along rocky E. slope

79.41 The cor. of secs. 31 and 32.

Land, rough mountainous; general S. exposure and drainage.

Soil, shallow brown loam and sandstone rock; sub-soil, rocky.

Timber, scrub cedar and pinon.

Undergrowth, shadscale. Poor grazing.

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From the cor. of secs. 29 and 30.

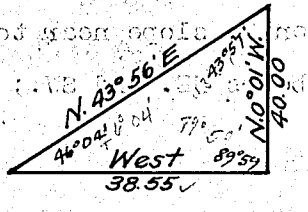
West, on true line bet. secs. 30 and 31 knowing that this line will not intersect the W. bdy. of the tp. within limits at the cor. of secs. 25,30,31 and 36.

Over rough mountainous land through cedar and pinon timber and shadscale undergrowth. Gradually ascend.

1.40 Rocky ridge, bears N. and S. A ridge connecting this ridge and high ledge point of mountain to the W. bears S. about 8 chs. distant.

The line west passes over ledges and high breaks of mountain up which it is impracticable to chain; I therefore triangulate as follows:

Set flag on line W. in breaks of mountain and also erect a flag at this point. From W. flag the $\frac{1}{4}$ sec. cor. bet. secs. 29 and 30 which is 40.00 chs. North of the cor. of secs. 29 and 30 bears N.43°56'E. Bearings of lines determined by direct reading of the solar.



SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Triangulated distance = 38.55 chs. |
| 38.55 | Point of triangulation on E. break of mountain. High ledge rim around mountain bears E. about 7 chs. Ascend abruptly E. slopes over small sandstone ledges, large sandstone boulders and through dense pinon and cedar timber and mahogany undergrowth. |
| 39.43 | Westing of 40.00 chs. from cor. of secs. 31 and 32. Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground on solid rock and 6 ins. in a mound of stone for ¼ sec. cor. N. bdy. sec. 31, with brass cap marked<br><br>¼S31<br>1918<br><br>from which<br>A pinon, 18 ins.diam.,bears S.34¾°E., 24 lks. dist.,marked ¼ S 31 B T<br>A pinon, 8 ins.diam.,bears S.65¼°E., 55 lks. dist.,marked ¼ S 31 B T<br>Unable to secure trees in both quarters of sec. 31. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ½ sec. cor. S. bdy. sec. 30, with brass cap marked<br><br>¼S30<br><br>1918<br><br>from which<br>A pinon, 10 ins.diam.,bears N.42¾°E., 34 lks. dist.,marked ¼ S 30 B T<br>A pinon, 8 ins.diam.,bears N.4½°W., 55 lks. dist.,marked ¼ S 30 B T |
| 45.00 | High point on SE. edge mountain top, 1255 ft. above sec. cor., projects SE.; enter yellow pine timber, mahogany and manzanita undergrowth, bears SW. and N. Thence along broken S. slope near top of mountain. |
| 56.60 | High ridge, bears NE. and SW.; descend abruptly NW. slope |

SUBDIVISION OF T.21 S.,R.6 E.

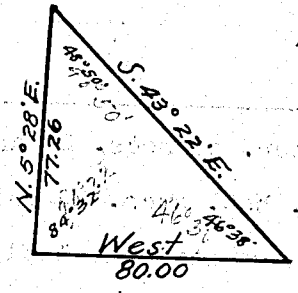
| CHAINS | |
|---|---|
| | 375 ft. to |
| 77.39 | Intersect W. bdy. of the tp., 2.48 chs. N. of the cor. of secs. 25,30,31 and 36 heretofore described. Cor. of secs. 30 and 31 set at this point, for description see W. bdy. of this tp. |
| | Land, rough, broken mountains; general S. exposure and drainage. |
| | Soil, brown and blue clay and rocky of sandstone formation; sub-soil, clay and rock. |
| | Timber, cedar and pinon with few yellow pine in western portion of mile. |
| | Undergrowth, shadscale, mahogany and manzamita. Poor grazing. |
| | --- |
| | From the cor. of secs. 29 and 30. |
| | N.0°01'W., bet. secs. 29 and 30. |
| | Over rough mountainous land draining SE., through pinon and cedar timber and undergrowth of shadscale. |
| | Descend abruptly over N. slope. |
| 8.70 | Gulch, 210 ft. below sec. cor., drains S.80°E.; leave dense timber, bears E. and W. Ascend abruptly. |
| 11.50 | Sharp clay spur, 60 ft. above gulch, projects E.; descend. |
| 13.10 | Draw, 70 ft. below spur, drains SE., from the N. and NW.; thence ascend along draw crossing and recrossing same. |
| 31.90 | Leave draw, which turns to the west.; ascend steep S. slope towards ledge. |
| 40.00 | At foot of high red sandstone ledges and break of mountain, 310 ft. above draw, bears W., E. about 4 chs. thence N. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼<br>S30 \| S29<br>1918 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. |
| | No suitable bearing trees are available. |

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

Further measurement of this line north is impossible on account of high ledges and precipitous E. break of mountain, I proceed to triangulate as follows:

Being unable to set a flag on line North and see it from points to be used in the triangulation; from the cor. of secs. 29 and 30 I set a flag N.5°28'E. on top of mountain. I use the S. bdy. of sec. 29 as a base and which is 80.00 chs. long and bears West. I now place transit over flag to the N. and find that the cor. of secs. 28 and 29 bears S.43°22'E. The angle bet. the cor. of secs. 29 and 30 and the cor. of secs. 28 and 29 is 48°50'.




Distance by triangulation = 77.26 chs. or northing of 76.91 chs. and easting of 7.36 chs.

76.91 To point 7.38 chs. E. of true line bet. secs. 29 and 30 on top of high spur of mountain, 1000 ft. above sec. cor., bears W. and NE. It is impracticable to offset to true line at this point, therefore continue N.0°01'W., on offset line.

80.00 Offset West, 7.38 chs. to true line

On steep N. slope of mountain, 150 ft. below spur. Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground on solid rock and 10 ins. in a mound of stone for cor. of secs. 19,20,29 and 30, with brass cap marked

| T21S | R6E |
|---|---|
| S19 | S20 |
| S30 | S29 |

1918

from which

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

A pine, 6 ins.diam.,bears N.58½°E., 60 lks. dist.,marked T 21 S R 6 E S 20 B T

A pine, 8 ins.diam.,bears S.49½°E., 50 lks. dist.,marked T 21 S R 6 E S 29 B T

A pine, 8 ins.diam.,bears S.13¾°W., 52 lks. dist.,marked T 21 S R 6 E S 30 B T

A pine, 6 ins.diam.,bears N.44°W., 44 lks. dist.,marked T 21 S R 6 E S 19 B T

Land, very rough mountains; general S. exposure and drainage with exception of small portion of N. part of mile which is exposed and drains to the N.

Soil, rocky of red sandstone formation and mixed with some blue and brown clay; sub-soil, rocky.

Timber, pinon and cedar. Scattering pine in northern part of mile.

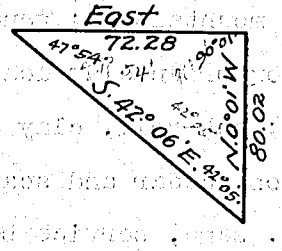
Undergrowth, shadscale. Poor grazing.

---

East, on a random line bet. secs. 20 and 29.

7.76 Further measurement of line impossible on account of high ledges and breaks of mountain; triangulate as follows:

Offset 8 lks. N. and from this point on offset line my line east falls 2 lks. N. of the cor. of secs. 20,21, 28 and 29 said cor. being plainly visible. The cor. of secs. 28 and 29 bears S.42°06'E. The line bet. secs. 28 and 29 bears N.0°01'W., 80.00 chs.




Distance by triangulation = 72.28 chs.

Previous distance on random = 7.76 chs.

Total distance = 80.04 chs.

Offset south 8 lks. to true line at

80.04 Intersect N. and S. line 6 lks. S. of the cor. of secs. 20,21,28 and 29.

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Thence |
| | S.89°57'W., on true line bet. secs. 20 and 29. |
| | (Direct measurement W. to ¼ sec. cor.) |
| | Over rough mountainous land through dense pinon and cedar timber and undergrowth of sage, service berry and mahogany. Gradually descend NW. slope. |
| 14.90 | Draw and wash, 10 lks. wide, 3 ft. deep, 60 ft. below sec. cor., drains N.30°E.; begin gradual ascent E. slope towards breaks of mountain. |
| 40.02 | On E. slope at foot of steep ascent, 300 ft. above draw. Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground on solid rock and 6 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼ S20 / S29 / 1918<br>from which<br>A pinon, 8 ins.diam.,bears S.35¼°E., 63 lks. dist.,marked ¼ S 29 B T<br>A pinon, 9 ins.diam.,bears N.1¾°W., 40 lks. dist.,marked ¼ S 20 B T |
| | Thence by triangulation over ledges and E. break of mountain to |
| 72.28 | Point of triangulation on top of mountain and spur, 800 ft. above ¼ sec. cor., bears NE. and SW.; descend NW. slope 165 ft. to |
| 80.04 | The cor. of secs. 19,20,29 and 30. |
| | Land, rough mountainous; general N. exposure and drainage. |
| | Soil, shallow brown clay loam and rocky of sandstone formation; sub-soil, clay and rock. |
| | Timber, pinon, cedar and scattering pine. |
| | Undergrowth, sage, service berry and mahogany. Good grazing on eastern portion of mile. |

---

| | |
|---|---|
| | West, on a random line bet. secs. 19 and 30. |
| 40.00 | Set temp. ¼ sec. cor. |
| 77.35 | Intersect W. bdy. of the tp. 9 lks. S. of the cor. of secs. 19 and 30 heretofore described. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Thence |
| | S.89°56'E., on true line bet. secs. 19 and 30. |
| | Over rolling mountain top through scattering yellow pine and aspen timber and undergrowth of sagebrush and mahogany. |
| 15.60 | Begin gradual descent, bears N. and S. |
| 24.80 | Head of canyon, 50 ft. below cor., drains SE.; dense timber in canyon. Ascend. |
| 30.50 | Brink of mountain top, bears N. and S.; descend abruptly E. and NE. slopes over soft sandstone ledges. |
| 37.35 | Point for ¼ sec. cor. falls on ledge and cannot be set, therefore at |
| 37.90 | On steep E. slope 350 ft. below break of mountain. Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground on solid rock and 6 ins. in a mound of stone for witness cor. to the ¼ sec. cor., with brass cap marked |
| | $WC\frac{1}{4}\ \frac{S19}{S30}\ 1918$ |
| | from which |
| | A pine, 12 ins.diam.,bears S.16°W., 12 lks. dist.,marked W C ¼ S 30 B T |
| | A pine, 14 ins.diam.,bears N.41¼°W., 92 lks. dist.,marked W C ¼ S 19 B T |
| | Continue steep descent. |
| 51.30 | Canyon, 425 ft. below ¼ sec. cor., drains N.; ascend abruptly over ledges on NW. slope. |
| 68.10 | Sandstone ledge, 20 ft. high, bears NE. and SW.; thence along steep rocky N. slope |
| 77.35 | The cor. of secs. 19,20,29 and 30, 550 ft. above canyon. |
| | Land, W. 30.50 chs. rolling mountain top drains S.; remainder of mile rough mountainous on breaks of mountain; general N. exposure and drainage. |
| | Soil, shallow brown loam and rocky of sandstone formation; sub-soil, clay and rock. |
| | Timber, yellow pine, red pine, pinon, cedar and aspen. |

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

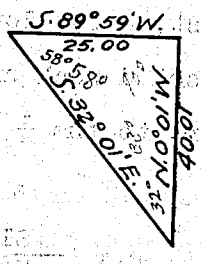
Undergrowth, sage, service berry and mahogany. Good grazing on W. 30.50 chs.; remainder of mile too steep.

---

N.0°01'W., bet. secs. 19 and 20.

The line north passes over high ledges and breaks of N. slope of mountain, down which it is impossible to chain, I therefore triangulate as follows:

Set flag on line N.0°01'W. and also erect flag at this cor., then, from the N. flag, measure a base line S.89°59'W., 25.00 chs. distant to point where flag at sec. cor. bears S.32°01'E. All bearings taken by direct reading of the solar and angles checked by deflection.




Triangulated distance = 40.01 chs.

Distance by return measurement = .01 chs.

40.00 On precipitous NW. slope an break of mountain about 1000 ft. below sec. cor. The base of the high ledge rim of mountain which bears NE. and SW., bears S. about 10 chs. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked

¼

S19 | S20

1919

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

Descend abruptly NW. slope.

40.01 Point of triangulation.

43.20 Wash, in draw, heads about 5 chs. SE. and drains NW.; ascend.

46.30 S. point of broken conglomerate ledges, bears N. and E. ascend abruptly along W. side of same.

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 49.60 | Sharp rocky spur, 80 ft. above draw, projects NW.; descend abruptly N. slope. |
| 60.60 | Draw, 380 ft. below spur, drains NW.; ascend. |
| 62.45 | Spur, 30 ft. above draw, projects NW.; descend abruptly. |
| 64.00 | Bottom of canyon and wash, 30 lks. wide, 3 ft. deep, small stream of alkali water in wash, 60 ft. below spur, drains NE.; ascend abruptly. |
| 71.45 | Spur, 95 ft. above canyon, projects SE.; descend. |
| 74.50 | Draw, 80 ft. below spur, drains SE.; ascend abruptly steep S. clay slope. |
| 80.00 | On very steep clay slope, 230 ft. above draw. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 17,18,19 and 20, with brass cap marked |

T21S | R6E
S18 | S17
S19 | S20

1919

Impracticable to build accessories to cor.

Land, rough mountainous; general N. exposure and drainage.

Soil, blue and brown clay and rocky of sandstone formation sub-soil, clay and rock.

Timber, pine on S. 30 chs. of mile.

Undergrowth, shadscale. Poor grazing.

6

N.89°57'E., on a random line bet. secs. 17 and 20.

| | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |
| 80.10 | Intersect N. and S. line 7 lks. N. of the cor. of secs. 16,17,20 and 21. |

Thence

West, on true line bet. secs. 17 and 20

Over rough mountainous land through cedar and pinon timber and undergrowth of mahogany and service berry brush. Descend precipitous W. slope of mountain over ledges and boulders.

| | |
|---|---|
| 17.65 | Draw, 460 ft. below sec. cor., drains N.; abrupt ascent. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 19.50 | Spur, 95 ft. above draw, projects N.; descend abruptly for about 2 chs., thence ascend. |
| 26.95 | Spur, 90 ft. above last spur, projects NE.; descend NW. slope. |
| 33.70 | Draw, 95 ft. below spur, drains NE.; ascend abruptly. |
| 37.20 | Enter bench covered with dense timber, bears NE. and SW. |
| 40.05 | On top bench, 160 ft. above draw. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1/4}{S17 \mid S20}$ 1919 from which A pinon, 16 ins.diam.,bears N.3$\frac{1}{4}$°E., 43 lks. dist.,marked $\frac{1}{4}$ S 17 B T A pinon, 12 ins.diam.,bears S.36$\frac{1}{4}$°E., 43 lks. dist.,marked $\frac{1}{4}$ S 20 B T |
| 45.85 | W. brink of bench and leave dense timber, bears N. and S. descend abruptly W. slope. |
| 49.60 | Draw, 180 ft. below bench, drains N.; ascend abruptly. |
| 52.30 | Spur, 100 ft. above draw, projects N.; descend. |
| 58.25 | Ravine, 95 ft. below spur, drains N. about 2 chs., thence NE.; small alkali seep in ravine. Ascend. |
| 60.75 | Sharp spur, 130 ft. above ravine, projects N. 2 chs. thence NE.; abrupt descent W. slope. |
| 63.30 | Main canyon, wash in same, 30 lks. wide, 10 ft. deep, 140 ft. below spur, drains N. 5 chs. thence N.80°E.; ascend abruptly steep clay slopes. |
| 73.60 | Spur, 325 ft. above canyon, projects S.20°E.; thence along steep S. slope. |
| 78.00 | Shallow draw, drains SE.; ascend abruptly. |
| 79.25 | Sharp spur, projects SE.; descend. |
| 80.10 | The cor. of secs. 17,18,19 and 20. |
| | Land, rough, broken mountains; general N. exposure and drainage. |
| | Soil, blue and brown clay and rocky of sandstone formation; sub-soil, clay and rock. |

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

Timber, cedar and pinon.

Undergrowth, sage, service berry, shadscale and mahogany.

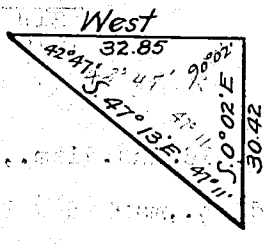
Fair grazing.

---

N.89°56'W., on a random line bet. secs. 18 and 19.

The line west passes over high ledges and breaks of mountain up which it is impossible to chain; triangulate as follows:

Set flag on top of mountain West( unable to set flag on true random line.) then measure a base line S.0°02'E., 30.42 chs. to point where W. flag bears N.47°13'W.; from the W. flag S. point of base bears S.47°13'E. All bearings taken by direct reading of the solar and angles determined by deflection.



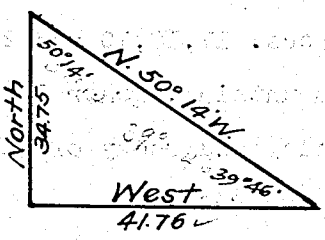

Triangulated distance = 32.85 chs.

To avoid offsets I continue the random line West.

40.00 Set temp. ¼ sec. cor.

The line west crosses impassable canyon; triangulate across same as follows:

I return to a point at 35.55 chs. on my random line and the W. bdy. of the tp. being visible I set flag on same at point 13 lks. N. of the cor. of secs. 18 and 19. A flag 2.67 chs. south or the ¼ sec. cor. E. bdy./ sec. 13, T.21 S.,R.5 E. bears N.50°14'W. from the 35.55 ch. point. The base line bears North, 34.75 chs. All bearings taken by direct reading of the solar and angles determined by deflection.

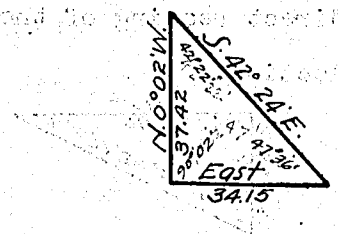


SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Distance on random line = 35.55 chs. |
| | Distance by triangulation = 41.76 chs. |
| | Total = 77.31 chs. |
| 77.31 | Intersect W. bdy. of the tp., 13 lks. N. of the cor. of secs. 18 and 19 heretofore described. |
| | Thence |
| | N.89°54'E., on true line bet. secs. 18 and 19. |
| | Over rough mountainous land through pinon, cedar and pine timber and undergrowth of mahogany, service berry and sagebrush. |
| 37.31 | On steep W. slope of mountain in dense pine timber. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground on solid rock and 12 ins. in a mound of stone for ¼ sec. cor., with brass cap marked |
| | ¼ S18 / S19 / 1919 |
| | from which |
| | A pine, 16 ins.diam.,bears N.36¼°E., 56 lks. dist.,marked ¼ S 18 B T |
| | A pine, 18 ins. diam.,bears S.46¼°E., 46 lks. dist.,marked ¼ S 19 B T |
| | This cor. is about level with the cor. of secs. 18 and 19 on the W. bdy. of the tp. Valley Fork Canyon, about 1000 ft. below ¼ sec. cor., bears W. about 20 chs. distant. |
| | Ascend abruptly W. slope |
| 41.76 | Point of triangulation on W. slope mountain. Leave dense timber, bears NW. and S. |
| 43.30 | High mountain ridge, 140 ft. above ¼ sec. cor., bears NE. and SW.; descend. |
| 44.46 | Point of triangulation on top of ledge and E. break of mountain. Precipitous descent over E. break of mountain, ledges and boulders, 1500 ft. to |
| 77.31 | The cor. of secs. 17,18,19 and 20. |
| | Land, rough mountains; general N. exposure and drainage. |
| | Soil, brown clay and rocky of sandstone formation ; sub-soil, clay and rock. |

SUBDIVISION OF T.21 S.,R.6 E.

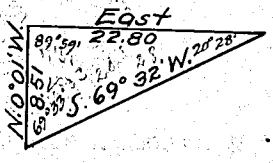
| CHAINS | |
|---|---|
| | Timber, pinon, cedar and pine. |
| | Undergrowth, shadscale, service berry and mahogany. |
| | Fair grazing. |
| | N.0°01'W., bet. secs. 17 and 18. |
| | The line north passes over high ledges and breaks of mountain up which I cannot chain, to determine distance I triangulate as follows: |
| | I place transit N.0°02'W. of the cor. of secs. 17,18,19 and 20 near top of mountain. A flag set 34.15 chs. east of the cor. of secs. 17,18,19 and 20 bears S.42° 24'E. All bearings taken by direct reading of the solar and angles checked by deflection. |




| | |
|---|---|
| | Distance by triangulation = 37.42 chs. |
| | Offset 1 lk. E. to true line |
| | Thence N.0°01'W. |
| | Over rough mountainous land through pine, pinon and cedar timber, undergrowth mahogany and service berry brush. |
| | Ascend. |
| 38.40 | Top of high ridge, 1500 ft. above sec. cor., bears NE. and SW. Descend along general W. slope over large sandstone boulders. |
| 40.00 | On W. slope. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked |
| | $\frac{1}{4}$ |
| | S18 \| S17 |
| | 1919 |
| | from which |
| | A pine, 6 ins.diam.,bears N.69°E., 10 lks. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | dist.,marked 1/4 S 17 B T |
| | A pinon, 8 ins.diam.,bears S.54½°W., 44 lks. dist.,marked 1/4 S 18 B T |
| 45.70 | Begin gradual descent NW. slope. |
| 56.40 | Spur, 65 ft. below ridge, projects N.20°W.; descend along E. slope. |
| 60.50 | Begin abrupt descent NE. slope through dense timber. |
| 68.00 | Leave timber, bears NW. and SE. |
| 71.34 | Top high ledge rim on N. side of ridge, bears NW. and SE. Triangulate as follows: |
| | Set flag on line N.0°01'W. and also erect flag at this point. From N. flag measure a base line East, 22.80 chs. to point where S. flag bears S.69°32'W. All bearings taken by direct reading of the solar and angles checked by deflection. |




| | |
|---|---|
| | Distance to point of triangulation = 71.34 chs. |
| | Triangulated distance = 8.51 chs. |
| | Total = 79.85 chs. |
| 79.85 | N. point of triangulation on steep NE. slope mountain. Descend. |
| 80.00 | On NE. slope amongst large sandstone boulders, 480 ft. below top of ledge. |
| | Point for cor. of secs. 7,8,17 and 18 falls on large sandstone boulder, 30 x 30 x 3 ft. Mark X for exact cor. point and establish witness cor. 8 lks. N. For description of same see line bet. secs. 7 and 8. |
| | Land, very rough mountains with steep general N. and S. slopes. General N. drainage. |
| | Soil, blue and brown clay and rocky of sandstone formation; sub-soil, clay and rock. |
| | Timber, pine, pinon and cedar. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | Undergrowth, service berry, shadscale and mahogany. Poor grazing. |
| | From the true cor. point for secs. 7,8,17 and 18 the cor. of secs. 8,9,16 and 17 is plainly visible. I run for said cor. |
| | S.89°54'E., on a random line bet. secs. 8 and 17. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.28 | Intersect the cor. of secs. 8,9,16 and 17. |
| | Thence |
| | N.89°54'W., on true line bet. secs. 8 and 17. |
| | Over mountainous land through cedar and pinon timber. Descend. |
| .55 | Base of mountain and enter bottom of Muddy Cr. Canyon, bears NW. and SE. Leave timber and enter dense greasewood undergrowth, bears NW. and SE. |
| 5.90 | Wash, 50 lks. wide, 10 ft. deep, drains S.20°E. |
| 18.50 | Muddy Creek, 75 lks. wide, 1 to 2 ft. deep, good water, swift current, in wash about 5 chs. wide, course SE. Few cottonwood trees and dense willow and birch undergrowth on banks. |
| 23.00 | Leave canyon bottom and greasewood undergrowth., bears N. and S.; ascend abruptly. |
| 25.00 | Blue clay bluff, 90 ft. above creek, bears SE. and N. about 3 chs.; thence along general N. slope through scattering scrub cedar and pinon timber. |
| 40.14 | Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼ S8 / S17 / 1919<br>from which<br>A cedar, 8 ins.diam.,bears S. 29½°W., 32 lks. dist.,marked ¼ S 17 B T<br>A pinon, 8 ins.diam.,bears N.46¾°W., 8 lks. dist.,marked ¼ S 8 B T |

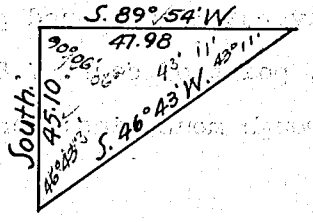
SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 49.00 | Wash in draw, 12 lks. wide, 5 ft. deep, drains NE.; ascend abruptly. |
| 57.50 | Spur, 340 ft. above draw, projects NW.; gradually descend. |
| 65.20 | Draw, 70 ft. below spur, drains N.; ascend abruptly NE. slope over sandstone boulders 400 ft. to: |
| 80.28 | The true cor. point of secs. 7,8,17 and 18. |
| | Land, rough mountainous and rolling canyon bottom. Genera exposure and drainage N. to canyon, thence southeasterl drainage. |
| | Soil, in canyon, brown sandy clay loam about 3 ft. deep; soil of mountainous part, blue clay and sandstone rock; sub-soil, clay and rock. |
| | Timber, scrub cedar and pinon . Scattering cottonwood timber along Muddy Cr. |
| | Undergrowth, sage, greasewood, shadscale , willow and birch. Good grazing. |
| | S.89°54'W., on random line bet. secs. 7 and 18. |
| | The line West passes over high ledge point of mountain; being unable to chain or triangulate to top, I run traverse line as follows: |
| | North, 19 lks. from true cor. point secs. 7,8,17 and 18. |
| | N.27° 45'W., 13.18 chs. |
| | S.29° 30'W., 4.54 chs. |
| | S.71°30'W., 8.25 chs. |
| | S.23°30'W., 1.20 chs. |
| | S.49°30'W., 4.63 chs. |
| | S.86°W., 8.85 chs. |
| | South, 60 lks. to true random line at point 29.03 chs. S.89°54'W. of true cor. point of secs. 7,8,17 and 18. |
| | Thence on true random line. |
| 40.00 | Set temp. ¼ sec. cor. |
| 44.00 | The line west ascends steep ledgy E. break of mountain up which I cannot chain, therefore triangulate as follows: |

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

I return to point at 29.11 chs. on my random line and find that a bearing to a flag set 5.12 chs. S. of the ¼ sec. cor. W. bdy. sec. 18, bears S. 46°43'W. My random line intersects W. bdy. of the tp. 2 lks. S. of the cor. of secs. 7 and 18. The base line from point 2 lks. S. of the cor. of secs. 7 and 18 to flag 5.12 chs. S. of the ¼ sec. cor. W. bdy. sec. 18, bears South, 45.10 chs. All bearings taken by direct reading of the solar and angles determined by deflection and computation.




Distance on random line = 29.11 chs.
Distance by triangulation = 47.98 chs.
Total = 77.09 chs.

77.09 Intersect W. bdy. of the tp. 2 lks. S. of the cor. of secs. 7 and 18 heretofore described.

Thence

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

Over rough mountainous land through pinon, cedar and pine timber and undergrowth of shadscale, service berry and mahogany. Descend precipitous E. break of mountain over sandstone ledges and boulders.

33.10 Bottom of Valley Fork Canyon, wash in same, 50 lks. wide, 10 ft. deep, 1060 ft. below sec. cor., drains N.25°E.; ascend abruptly.

36.90 Clay spur, 100 ft. above canyon, projects NW.; descend.

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

$$\frac{1}{4}\ \frac{S7}{S18}\ 1919$$

from which

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | A cedar, 8 ins.diam.,bears N.58½°E., 214 lks. dist.,marked ¼ S 7 B T |
| | A pinon, 12 ins.diam.,bears S.62°E., 344 lks. dist.,marked ¼ S 18 B T |
| 39.00 | Ravine and wash, 30 lks. wide, 6 ft. deep, 50 ft. below spur, drains NW.; ascend abruptly E. slope. |
| 47.98 | Point of triangulation. |
| 48.06 | To point of traverse line on steep slope of mountain. The top of high ledge spur and point of mountain, bears E. about 15 chs. Vertical angle to top of same is 22°. Thence by traverse line around point of high ledge to |
| 77.09 | The true cor. point of secs. 7,8,17 and 18. |
| | Land, high, rough mountains; general N. exposure and drainage. |
| | Soil, brown clay and rocky of sandstone formation; subsoil, clay and rock. |
| | Timber, scrub pinon, cedar and pine. |
| | Undergrowth, sage, service berry, shadscale and mahogany. |
| | Land too steep for grazing. |

---

From true cor. point of secs. 7,8,17 and 18.

N.0°03'W., bet. secs. 7 and 8.

Over rough mountainous land through short undergrowth of shadscale. Descend abruptly NE. slope mountain over large sandstone boulders.

.08 Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for witness cor. to the cor. of secs. 7,8,17 and 18, with brass cap marked

| T21S S7 | R6E S8 |
|---|---|
| S18 | S17 |

WC
1919

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

14.75 Draw, 250 ft. below sec. cor., drains NE.; enter scrub cedar

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | and pinon timber, bears NE. and SW.; ascend. |
| 19.00 | Spur, 70 ft. above draw, projects NE.; descend N. slope. |
| 23.00 | Leave timber, bears E. and W.; begin precipitous descent over N. slope. |
| 37.45 | Foot of slope and enter bottom of Muddy Canyon, 500 ft. below spur, bears NE. and SW.; few scattering cedar and pinon trees along line. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked<br>$\frac{1}{4}$<br>S7 \| S8<br>1919<br>from which<br>A cedar, 8 ins.diam.,bears S.46$\frac{1}{4}$°E., 68 lks. dist.,marked $\frac{1}{4}$ S 8 B T<br>A pinon, 8 ins.diam., S.20°W., 257 lks. dist.,marked $\frac{1}{4}$ S 7 B T |
| 44.60 | Wash, from Valley Fork Canyon, 50 lks. wide, 10 ft. deep, drains NE. |
| 55.20 | Muddy Creek, 75 lks. wide, 1 to 2 ft. deep, good water, swift current, course E. Leave canyon and ascend abruptly clay slope, bears E. and W. |
| 64.30 | Spur, projects SW.; continue ascent. |
| 78.75 | High point, 440 ft. above canyon, projects W.; descend across short, steep gulch draining W. |
| 80.00 | On steep W. slope.<br>Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone, alongside large sandstone boulder, for cor. of secs. 5,6,7 and 8, with brass cap marked<br>T21S \| R6E<br>S6 \| S5<br>S7 \| S8<br>1919<br>from which |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | A pinon, 8 ins.diam.,bears S.35¼°E., 183 lks. dist.,marked T 21 S R 6 E S 8 B T |
| | A pinon, 10 ins.diam.,bears S.80°W., 230 lks. dist.,marked T 21 S R 6 E S 7 B T |
| | A cedar, 24 ins.diam.,bears N.70°W., 243 lks. dist.,marked T 21 S R 6 E S 6 B T |
| | No other trees are available. |
| | Unable to build mound of stone or dig pits at cor. |
| | Land, rough mountainous; general N. and S. exposure to Muddy Canyon which drains E. |
| | Soil, brown and blue clay and sandstone rock; sub-soil, clay and rock. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, shadscale. Land too steep for grazing. |
| | S.89°54'E., on a random line bet. secs. 5 and 8. |
| | The line east passes over high ledges and precipitous S. break of mountain over which I am unable to chain or triangulate, therefore offset as follows: |
| | South 20.00 chs., thence |
| | S.89°54'E. on offset line 39.60 chs.; thence |
| | North, 6.88 chs.: I am unable to reach true line from this point or any other direction therefore set temp. ¼ sec. cor. at this point. |
| | From point 39.60 chs. on offset line. |
| | South, 20.00 chs., |
| | S.89° 54'E. 80.31 chs. ( counted from sec. cor.) then |
| | N.0°01'W. 40.00 chs. to true random line, on which at |
| 80.31 | Intersect True cor. point for cor. of secs. 4,5,8 and 9. |
| | Thence |
| | N.89°54'W., on true line bet. secs. 5 and 8. |
| | Over rough mountainous land through very scattering scrub cedar and pinon timber and undergrowth of shadscale The line west ascends precipitous break of mountain up which it is impossible to chain. |
| | Offset S.0°01'E. 40.00chs., thence on offset line |

SUBDIVISION OF T.21 S.,R.6 E.

| chains | |
|---|---|
| | N.89°54'W., 40.71 chs. Over rough, broken S. face of mountain, sandstone ledges, steep clay slopes and large sandstone boulders. |
| | North, 26.88 chs. Ascend precipitous S. face of mountain. It is impossible to reach the true point for ¼ sec. cor. therefore, at this point which is 13.12 chs. S. and 55½ lks. W. of true cor. point, establish witness cor. as follows: |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for witness cor. to the ¼ sec. cor., with brass cap marked<br>WC<br>¼ S5 / S8<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Thence, south, 6.88 chs., then |
| | N.89°54'W., 80.31 chs. ( counted from sec. cor.) Over rough break of mountain, descending towards foot of same, very scattering timber and short undergrowth. |
| | Thence, North, 20.00 chs. to true line at |
| 80.31 | The cor. of secs. 5,6,7 and 8. |
| | Land, very rugged mountains; S. exposure and drainage. |
| | Soil, clay and sandstone rock; sub-soil, rocky. |
| | Timber, very scattering scrub cedar and pinon. |
| | Undergrowth, shadscale. Poor grazing. |
| | S.89°55'W., on a random line bet. secs. 6 and 7. |
| 40.00 | Set temp. ¼ sec. cor. |
| 77.05 | Intersect W. bdy. of the tp., 2 lks. N. of the true cor. point of secs. 6 and 7. heretofore described. |
| | Thence |
| | N.89°54'E., on true line bet. secs. 6 and 7. |
| | Over rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of shadscale. |
| | Descend over NE. slope, large sandstone boulders. |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| 6.35 | Spur, 80 ft. below cor., projects N.; continue descent over N. slope. |
| 13.25 | Spur,190 ft. below last spur, projects N.; descend. |
| 18.60 | Draw, 65 ft. below spur, drains N.; ascend. |
| 23.00 | Spur, 70 ft. above draw, projects N.20°W.; descend into Muddy Cr. Canyon. |
| 37.05 | In bottom of Muddy Cr. Canyon, 200 ft. below spur. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. i the ground for ¼ sec. cor., with brass cap marked<br>¼ S6 / S7 1919<br>from which<br>A cottonwood, 8 ins.diam.,bears S.55¼°W., 32 lks dist.,marked ¼ S 7 B T<br>A cottonwood, 6 ins.diam.,bears N.73¾°W., 50 lks dist.,marked ¼ S 6 B T |
| 39.00 | Muddy Cr. in canyon, 75 lks. wide, 1 to 3 ft. deep, good water, swift current, course SE.; a few cottonwood trees along creek. Ascend abruptly over rocky S. and SW slopes. |
| 62.90 | Spur, 280 ft. above creek, projects S.; descend along nearly S. slope, very rocky. |
| 72.90 | Draw, 155 ft. below spur, drains S.25°W.; ascend abruptly W. slope, 195 ft. to |
| 77.05 | The cor. of secs. 5,6,7 and 8. |
| | Land, rough mountainous, slopes and drains N. and S. into Muddy Canyon which drains SE. |
| | Soil, brown and blue clays and rocky of sandstone formation; sub-soil, clay and rock. |
| | Timber, scrub cedar and pinon with a few cottonwood along Muddy Creek. |
| | Undergrowth, shadscale. Some greasewood in canyons. Fair grazing. |

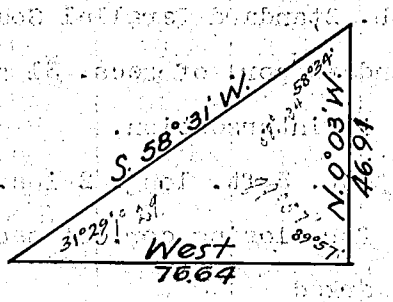
N.0°03'W., bet. secs. 5 and 6.

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

The line north passes over high ledges and breaks of Muddy Canyon up which it is impossible to chain; I triangulate as follows:

I am unable to secure base of suitable length E. or W. of cor. secs. 5,6,7 and 8 to make triangulation and I therefore place transit on line on top of ledges and break of mountain, and, being unable to secure a base line from this point, I measure N.0°03'W., 11.92 chs., thence west .86 chs. From this point a flag set 76.64 chs. west of the cor. of secs. 5,6,7 and 8, bears S.58°31'W.; all bearings taken by direct reading of the solar.




Distance by triangulation = 46.91 chs. to point 86 lks. W. of true line.

I now measure East, .86 chs., then S.0°03'E. 11.92 chs. to

35.02 Top of ledges and brink of mountain top, 1435 ft. above sec. cor., bears NE. and SW.; thence over rolling mountain top through scattering yellow pine timber and scrub mahogany.

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

¼
S6 | S5
1919

from which

A mahogany, 6 ins.diam.,bears S.43¼°E., 17 lks. dist.,marked ¼ S 5 B T

SUBDIVISION OF T.21 S.,R.6 E.

CHAINS

A mahogany, 8 ins.diam.,bears S.46½°W., 59 lks. dist.,marked ¼ S 6 B T

The brink of mountain top bears W. about 1 ch.

46.94 Point for offset of .86 chs. west.; also N. point of triangulation.

50.00 Leave timber and mahogany undergrowth, enter dense short sagebrush, bears NW. and SE.

53.00 Wash, 20 lks. wide, 2 ft. deep, drains W.; wash falls over ledge and break of mountain about 2 chs. W. Gradually ascend.

79.00 Enter dense mahogany and service berry undergrowth, bears E. and W.; begin steeper ascent.

85.00 Leave mahogany and service berry, bears E. and W.

88.39 Intersect 4th. Standard Parallel South, 1.51 chs. west of the standard cor. of secs. 31 and 32 heretofore described. At intersection,

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

T20SR6E
S31
S6 | S5
CC
T21S
1919

from which

A pinon, 8 ins.diam.,bears S.11½°E., 287 lks. dist.,marked C C T 21 S R 6 E S 5 B T

A pinon, 14 ins.diam.,bears S.16½°W., 308 lks. dist.,marked C C T 21 S R 6 E S 6 B T

Cor. stands in shallow draw, drains SW.

Land, S. 35.02 chs. rough S. break of mountain, ledges and boulders; remainder of mile rolling mountain top; general S. exposure and drainage.

Soil, S. 35.02 chs. rocky of sandstone formation; sub-soil, rocky. Soil of mountain top, brown sandy loam about 1½ ft. deep, sub-soil, moist brown loam.

BOUNDARIES OF T.21 S.,R.6 E.

Timber, scattering scrub cedar, pinon, yellow pine and mahogany,
Undergrowth, sagebrush and mahogany. Fair grazing on mountain top.

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BOUNDARIES OF T.21 S.,R.6 E.

LATITUDES, DEPARTURES AND CLOSING ERRORS.

| Lines designated | True bearings | Distances | Latitudes | | Departures | |
|---|---|---|---|---|---|---|
| | | | N | S | E | W |
| | | chs. | chs. | chs. | chs. | chs. |
| S bdy T21SR6E. | East | 238.00 | ..... | ..... | 238.00 | ..... |
| E.bdy sec.33 | N.0°27'W. | 79.24 | 79.24 | ..... | ..... | .62 |
| S bdy sec.27 | S.89°33'E. | 79.49 | ..... | .62 | 79.49 | ..... |
| E bdy sec 27 | N.0°38'W. | 81.39 | 81.39 | ..... | ..... | .90 |
| S bdy sec.23 | N.89°28'E. | 80.43 | .75 | ..... | 80.43 | ..... |
| E.bdy sec.23 | N.0°09'W. | 80.44 | 80.44 | ..... | ..... | .21 |
| E bdy sec.14 | N.0°51'E. | 81.85 | 81.84 | ..... | 1.21 | ..... |
| S bdy sec.12 | N.88°42'E. | 81.44 | 1.85 | ..... | 81.42 | ..... |
| E bdy T21SR6E | N.0°20'E | 163.02 | 163.02 | ..... | .95 | ..... |
| N bdy T21SR6E | West | 483.63 | ..... | ..... | ..... | 483.63 |
| W bdy sec. 6 | South | 56.32 | ..... | 56.32 | ..... | ..... |
| N bdy T21SR5E | East | 5.19 | ..... | ..... | 5.19 | ..... |
| W.bdy T21SR6E | South | 431.52 | ..... | 431.52 | ..... | ..... |
| Convergency | | | ..... | ..... | ..... | .47 |
| | Totals | | 488.53 | 488.46 | 486.69 | 485.83 |
| | | | 488.46 | | 485.83 | |
| | Error in latitude | | .07 | | | |
| | Error in departure ------ | | | | .86 | |

GENERAL DESCRIPTION T.21 S.,R.6 E.

The surveys included in this fractional township are situated on the SE. slope of the breaks of a high range of mountains, and, with the exception of small parcels of level amd rolling land in the bottom of Muddy Canyon and on small benches the land is very rough. The breaks of the mountain and the upper slopes of Muddy Canyon are rimmed with red sandstone ledges and in most places are inaccessible. Muddy Canyon which is about a mile wide from rim to rim and about 2000 ft. deep, couts through the township in a south easterly direction. The elevation of the township ranges from about 6000 ft. in Muddy Canyon to about 8500 ft. on the mountain tops. The general exposure and drainage is SE.

The soil is chiefly a brown and blue clay, very heavy and sticky when wet and it is mixed with sandstone and limestone rock. The surface is generally strewn with large sandstone boulders and in many places surface rock is exposed. In Muddy Canyon and on benches in secs. 5,6,27 and 28, the soil is a deep, rich brown sandy loam which will produce crops with irrigation.

A medium growth of pinon,and cedar timber is found on the entire township and in the higher portions considerable yellow, red pine and aspen timber grows. Occasional patches of scrub mahogany are found with the timber and also a short undergrowth of shadscale, sagebrush and grass. In Muddy canyon cottonwood timber grows along the creek and the bottom land is covered with greasewood and sagebrush about 3 ft. high.

The water supply for the township is taken from Muddy Creek, which enters the township in sec. 6 and leaves in sec. 23. This creek furnished water for farming districts south and east and also for the town of Emery, Utah. The intakes for the canals carrying this water are located in sec. 21.

GENERAL DESCRIPTION T.21 S.,R.6 E.

Thos S. Johnson is the only settler living on unsurveyed land in the township. He is located on the NE. ¼, sec. 21, and besides his dwelling house and barns has about 60 acres under cultivation.

I find indications of coal on the high slopes and under ledges throughout the township and it is probable that large deposits of bituminous coal are covered.

With the exception of the land suitable for cultivation this township is valuable for grazing land for sheep and cattle.

No magnetic declination is taken in the township on account of defective needle.

Howard W. Miller.

U. S. Cadastral Engineer.

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WATER LOCATIONS T.21 S.,R.6 E.

Sec. 6 : SW¼

Sec. 7 : NE¼

Sec. 8 : W½ of SE¼ ; NE¼ of SW¼ and SW¼ of NW¼

Sec 16 : NW¼; E½ of SW¼ and SW¼ of SE¼

Sec. 17 : N½ of NE¼

Sec.21: N½ of NE¼ and SE¼ of NE¼

Sec.22 ; SW¼ of NW¼

Volume
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R0444

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BOOK A-444

## FIELD ASSISTANTS.

| NAMES. | CAPACITY. |
|---|---|
| Lacell Bird | 1st. chainman |
| Walter Byergo | 1st. chainman |
| Calvin Mace | 2nd. chainman |
| Campbell W. Adams | 2nd. chainman |
| John Edwards | 2nd. chainman |
| Malcolm Sands | flagman |
| Farrel Rasmussen | flagman |
| Hugh Halverson | cornerman |
| David Thomas | cornerman |
| Piercey Thomas | axman |
| | |
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6—2764

CADASTRAL ENGINEER.

# CERTIFICATE OF UNITED STATES/~~SURVEYOR~~.

Cadastral Engineer

I, Howard W. Miller, 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 9th day of May, 1918, 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, surveyed all those parts or portions of Resurvey of the

south and east boundaries and subdivision and survey of the

south and west boundaries, 4th. Standard Parallel South through

Range 6 East and subdivision of T.21 S.,R.6 E.

of the Salt Lake Base

and Meridian, in the State of Utah, which are represented

and date diagram and on dates as shown on dia

the foregoing field notes as having been executed by me, and under my direction; and that all the corner

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.

Certified to at Salt Lake City, Utah
this 9th. day of March, 1920.

Howard W. Miller
U.S. Cadastral Engineer

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 29 19

The foregoing field notes of the ~~survey of~~ resurvey of parts of the south a

east boundaries and subdivision; survey of part of south and the west

dary, the Fourth Standard Parallel South through Range No. 6 East; ar

the subdivision of Township No. 21 South, Range No. 6 East of the Sal

Lake Base and Meridian, Utah;

executed by Howard W. Miller

under his special instructions dated May 9, 1918, having b

critically examined, and the necessary corrections and explanations made, the said field notes, and the surve

and resurveys
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 Gener

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BOOK A-444

A

U. S. Surveyor General's Office
MAY 10 1920
SALT LAKE CITY, UTAH

# FIELD NOTES

OF THE SURVEY OF THE

4TH. STANDARD PARALLEL SOUTH THROUGH RANGE 19 EAST,

RESURVEY OF THE SOUTH AND EAST BOUNDARIES AND

SURVEY OF THE WEST BOUNDARY AND SUBDIVISION

OF T.21 S., R.19 E.

*Of the* SALT LAKE BASE AND *Meridian,*

*the State of* UTAH

EXECUTED BY

RALPH GENTRY, U. S. CADASTRAL ENGINEER

~~[illegible]~~, *under Special Instructions dated* JULY 22, *1918*,

*sued by the United States Surveyor General to govern surveys included in Group*

*o.* 77, *which were approved by the Commissioner of the General Land*

*ffice,* AUGUST 10, *1918, and Assignment Instructions dated* APRIL 26, *1919*

*Survey commenced* MAY 6, *1919*

*Survey completed* JUNE 14, *1919*

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BOOK A-444

# INDEX DIAGRAM.

Township 21 South, Range 19 East

| 28 | 27 | 26 | 25 | 24 | 22 | |
|---|---|---|---|---|---|---|
| 35 6 89 | 91 5 88 | 76 4 75 | 66 3 65 | 56 2 56 | 45 1 44 | 20 14 |
| 33 7 86 | 87 8 85 | 74 9 73 | 64 10 63 | 54 11 53 | 43 12 42 | 19 13 |
| 33 18 83 | 84 17 82 | 72 16 71 | 62 15 61 | 52 14 50 | 41 13 40 | 17 12 |
| 32 19 81 | 81 20 80 | 70 21 69 | 60 22 60 | 49 23 48 | 39 24 38 | 16 11 |
| 30 30 78 | 79 29 78 | 69 28 68 | 59 27 58 | 48 26 47 | 38 25 37 | 15 11 |
| 29 31 9 | 77 32 8 | 67 33 7 | 57 34 5 | 46 35 4 | 36 36 3 | 14 11 |

BOOK A-444

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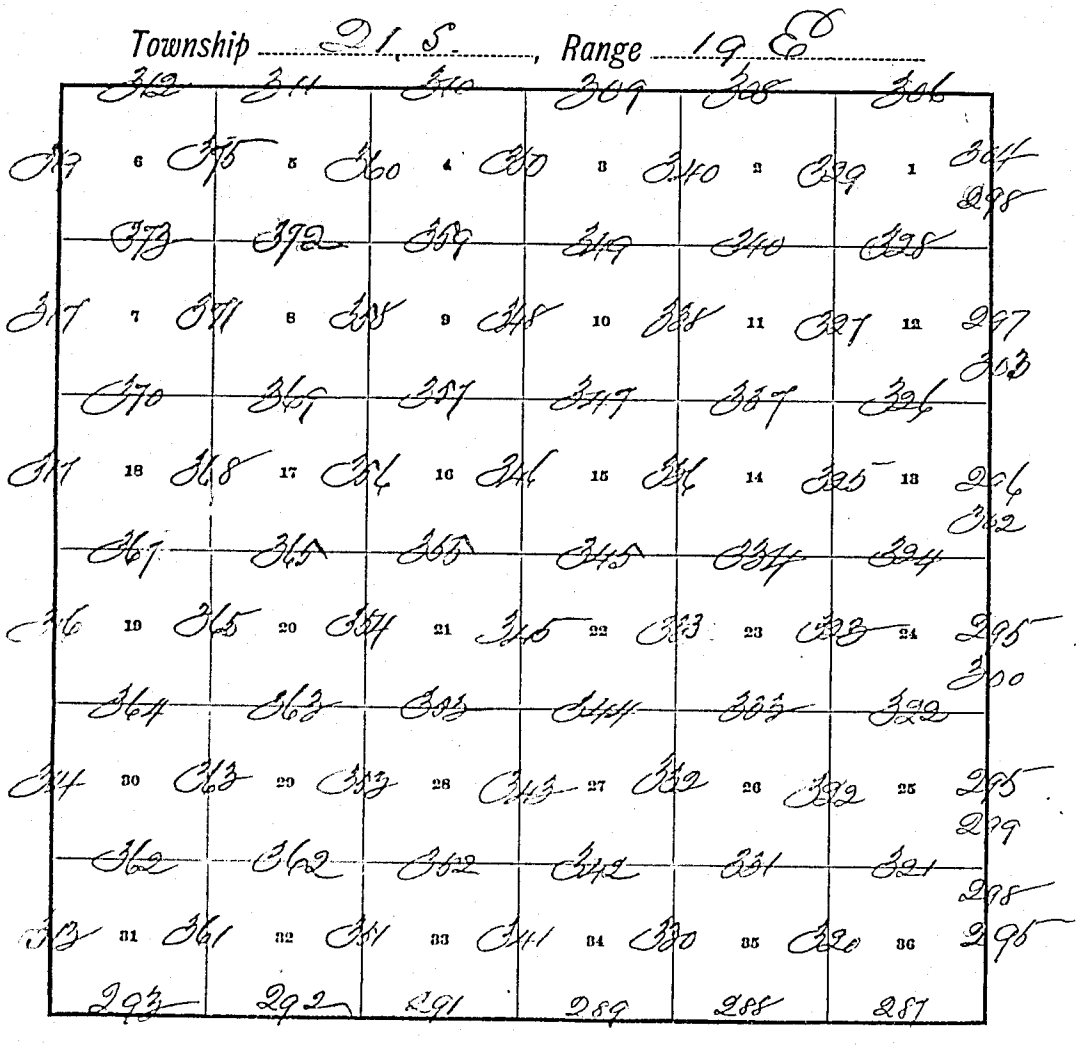
# INDEX DIAGRAM.

Township 21 S., Range 19 E

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DATE DIAGRAM T.21 S., R.19 E.

DATE DIAGRAM

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

TEST OF INSTRUMENT

Survey commenced May 6,1919 and executed with Buff and Buff transit No. 8028 equipt with Smith solar attachment and full vertical circle. The horizontal limb is provided with two double verniers, placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs and vertical circle.

The instrument was approved for use in this survey by the Assistant Supervisor of Surveys for Utah in assignment instructions dated April 26,1919.

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

May 6,1919: At my camp which is situated near the NE. cor. of sec. 34, T.21 S.,R.19 E., approximate latitude 38°57'N.; longitude 109°50'W.; at 7h. 26m. 52s.p.m. l.m.t., I make an hour angle observation on Polaris east of the meridian, making four observations, two each with the telescope in direct and reversed positions and note as the mean point of the line thus determined a tree about 5 miles to the N.

May 6, 1919

May 7, 1919: At 7h. a.m. apparent time, I lay off the azimuth of Polaris, 1°20'W. and note a tree in the true meridian about 5 miles North.

At 8h. a.m. apparent time, I set off 38°57' on the lat. arc; 16°39'N., on the declination arc; and determine a meridian with the solar and find that the tree bears North.

At the same station in approximate latitude 38°57'N., longitude 109°50'W., I make a meridian altitude observation of the sun for latitude, observing the altitude of the sun's lower limb with the telescope in direct position, reversing the transit and

RESURVEY OF THE SOUTH BOUNDARY OF T.21 S.,R.19 E.

CHAINS

observing the sun's upper limb.

Apparent time of observation, noon = 12h.00m.00s.

Mean observed altitude = 67°44'30"

Reduced latitude = 38°57'

At 4h. p.m. apparent time, I set off 38°57' on the latitude arc; 16°44½'N., on the declination arc, and determine a meridian with the solar and find that the tree bears North.

The solar apparatus by a.m. and p.m. observations defines positions for meridians that agree with the meridian established by observations made on Polaris, I therefore conclude that the instrument is in good adjustment.

The instrument was kept in good adjustment during the progress of the survey, frequent tests being made on the above described Polaris meridian.

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Unless otherwise specified all measurements are made with a Lallie Steel ribbon tape 5 chs. long compared with a Lufkin standard steel tape and found correct. The measurements are made on the slope, the vertical angle determined, and the slope measurements properly reduced to true horizontal distances.

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I begin at the closing cor. of Tps. 21 and 22 S., R.19 E., which is a sandstone, 10 x 8 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

Thence

West, on resurvey line bet. secs. 1 and 36.

Over level desert land through undergrowth of salt sage, greasewood and grass.

.80 Road, Thompsons to Moab, Utah, bears NE. and SW.

40.08 Fall 5 lks. S. of the ¼ sec. cor. which is a sandstone, 6 x 12 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

RESURVEY OF THE SOUTH BOUNDARY OF T.21 S.,R.19 E.

CHAINS

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

¼ S36 / S1 / 1919

Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.

The bearing of this ½ mile is N.89°56'W., and the distance is 40.08 chs.

From point 5 lks. S. of ¼ sec. cor., continue West.

68.10 Wash, 35 lks. wide, 15 ft. deep, drains SW.

80.10 Fall 10 lks. S. of the cor. of secs. 1,2,35 and 36 which is a sandstone, 6 x 4 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

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

| T21S \| R19E |
|---|
| S35 \| S36 |
| S2 \| S1 |

T22S
1919

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

The bearing of this ½ mile is N.89°56'W., and the distance is 40.02 chs.

Land, nearly level desert; drains S.

Soil, sandy loam and hard, dry, clay.

Undergrowth, salt sage, greasewood and grass.

No timber.

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

West, on resurvey line bet. secs. 2 and 35.

Over nearly level desert, through undergrowth of salt sage, greasewood and grass.

25.85 Wash, 15 lks. wide, 8 ft. deep, drains SW.

RESURVEY OF THE SOUTH BOUNDARY OF T.21 S.,R.19 E.

CHAINS

40.02 Fall 4½ lks. S. of the ¼ sec. cor., which is a sandstone, 8 x 6 x 5 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

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

¼ S35 / S2 / 1919

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

The bearing of this ½ mile is N.89°56'W., and the distance is 40.02 chs.

From point 4½ lks. S. of ¼ sec. cor., continue West.

56.65 Wash, 25 lks. wide, 20 ft. deep, drains S.

80.05 Fall 9 lks. S. of the cor. of secs. 2,3,34 and 35, which is a sandstone, 6 x 4 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

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

| T21S \| R19E | |
|---|---|
| S34 | S35 |
| S3 | S2 |

T22S
1919

Dig pits, 18x18x12 ins., in each sec., 5½ ft. distant from cor.

The bearing of this ½ mile is N.89°56'W., and the distance is 40.03 chs.

Land, gently rolling desert; drains S.

Soil, hard, dry, clay and sandy loam.

Undergrowth, salt sage, greasewood and grass.

No timber.

---

From the cor. of secs. 2,3,34 and 35.

West, on resurvey line bet. secs. 3 and 34.

RESURVEY OF THE SOUTH BOUNDARY OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Over rolling ground, through undergrowth of salt sage, greasewood and grass. |
| 40.00 | Fall 4½ lks. S. of the ¼ sec. cor., which is a sandstone, 6 x 5 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for ¼ sec. cor., with brass cap marked |
| | ¼ S34 / S3 / 1919 |
| | Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. |
| | The bearing of this ½ mile is N.89°56'W., and the distance is 40.00 chs. |
| | From point 4½ lks. S. of the ¼ sec. cor., continue West. |
| 52.64 | Low ridge, 25 ft. above ¼ sec. cor., bears N. and S.; gradually descend. |
| 77.00 | Wash, 15 lks. wide, 3 ft. deep, 50 ft. below ridge, drains SW. |
| 79.55 | Telephone line and road, bears N. and S. |
| 79.90 | Fall 9 lks. S. of the cor. of secs. 3,4,33 and 34, which is a sandstone, 6 x 6 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 3,4, 33 and 34 with brass cap marked |
| | T21S \| R19E / S33 \| S34 / S4 \| S3 / T22S / 1919 |
| | Dig pits, 18x18x12 ins., in each sec., 5½ ft. dist., from cor. |
| | The bearing of this ½ mile is N.89°56'W., and the distance is 39.90 chs. |
| | Land, rolling; E. portion of W.½ mile broken by low ridges. General S. exposure and drainage. |

RESURVEY OF THE SOUTH BOUNDARY OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Soil, sandy loam surface and hard, dry clay sub-soil. |
| | Undergrowth, salt sage, greasewood and grass. |
| | No timber. |
| | From the cor. of secs. 3,4,33 and 34. |
| | West, on resurvey line bet. secs. 4 and 33. |
| | Over rolling land, through undergrowth of salt sage, greasewood and grass. |
| 30.90 | Wash, 1 ch. wide, 30 ft. deep, drains S. |
| 40.01 | Fall 1½ lks. S. of the ¼ sec. cor., which is a sandstone, 6 x 4 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for ¼ sec. cor., with brass cap marked<br>¼ S33 / S4 1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | The bearing of this ½ mile is N.89°59'W., and the distance is 40.01 chs. |
| | From point 1½ lks. S. of ¼ sec. cor., continue |
| | West. |
| 54.50 | Ridge, 5 chs. wide, 100 ft. above ¼ sec. cor., bears N. and S.; descend. |
| 63.90 | Draw, 80 ft. below ridge, drains S.20°W.; ascend. |
| 76.80 | Spur, 50 ft. above draw, projects SW.; descend. |
| 80.12 | Fall 11 lks. S. of the cor. of secs. 4,5,32 and 33, which is a sandstone, 4 x 9 x 5 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 4,5, 32 and 33, with brass cap marked<br>T21S \| R19E<br>S32 \| S33<br>S5 \| S4<br>T22S<br>1919 |

RESURVEY OF THE SOUTH BOUNDARY OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W.of cor. |
| | The bearing of this ½ mile is N.89°52'W., and the distance is 40.11 chs. |
| | Land, E. half mile rolling; W. half mile, broken by low, rolling clay hills: general S. exposure and drainage. |
| | Soil, E. half mile, sandy loam, on subsoil of hard, dry clay; W. half mile, sandy loam, gravel and clay. |
| | Undergrowth, salt sage, greasewood and grass. |
| | No timber. |
| | From the cor. of secs. 4,5,32 and 33. |
| | West, on resurvey line bet. secs. 5 and 32. |
| | Over broken hills, through short shadscale undergrowth. |
| 14.20 | Swale, drains SW.; gradually ascend. |
| 22.10 | Spur, 40 ft. above swale, projects S.; descend. |
| 27.00 | Wash, 15 lks. wide, 3 ft. deep, 65 ft. below spur, also foot of spur, drains S.; thence over level land. |
| 36.70 | Wash, 50 lks. wide, 5 ft. deep, drains S.; ascend. |
| 40.00 | Intersect the ½ sec. cor., which is a sandstone, 6 x 6 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for ¼ sec. cor., with brass cap marked |
| | ¼ S32 / S5 / 1919 |
| | Raise a mound of stone, 2 ft.base, 1½ ft.high, N.of cor. |
| | The bearing of this ½ mile is west and the distance is 40.00 chs. |
| | From ¼ sec. cor., continue |
| | West. |
| 42.55 | Top of knoll, bears N. and S.; descend. |
| 45.00 | Ravine, drains SE.; ascend. |
| 57.30 | Reef, bears N. and S.20°E.; descend. |
| 61.25 | Wash, 20 lks. wide, 5 ft. deep, drains S. |
| 65.70 | Old road, bears NE. and SW. |

RESURVEY OF THE SOUTH BOUNDARY OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 71.40 | Telephone line, Greenriver to Thompsons, Utah, bears N.73°50'E. and S.73°50'W. |
| | Gradually ascend over rolling clay hills. |
| 79.92 | Fall 10 lks. S. of the cor. of secs. 5,6,31 and 32, which is a sandstone, 10 x 8 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 5,6,31 and 32, with brass cap marked |
| | T21S \| R19E<br>S31 \| S32<br>S6 \| S5<br>T22S<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | The bearing of this ½ mile is N.89°51'W., and the distance is 39.92 chs. |
| | Land, rolling clay hills; general S. exposure and drainage. |
| | Soil, hard, dry, blue clay. |
| | Undergrowth, scattering shadscale. |
| | No timber. |
| | From the cor. of secs. 5,6,31 and 32. |
| | West, on resurvey line bet. secs. 6 and 31. |
| | Over rolling and broken clay hills through short undergrowth of shadscale. |
| 1.00 | Clay hill, bears N. and S.; descend. |
| 34.00 | Wash, 5 lks. wide, 1 ft. deep, drains S., 20 ft. below hill; ascend. |
| 37.00 | Clay hill, 20 ft. above wash, slopes S.; descend. |
| 40.00 | Fall 6 lks. S. of the ¼ sec. cor., which is a sandstone, 10 x 10 x 3 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for ¼ sec. cor., with brass cap marked |

RESURVEY OF THE SOUTH BOUNDARY OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | $\frac{1}{4}$ $\frac{S31}{S6}$ 1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | The bearing of this ½ mile is N.89°55'W., and the distance is 40.00 chs. |
| | From point 6 lks. S. of ¼ sec. cor. continue West. |
| 58.00 | Wash, 10 lks. wide, 2 ft. deep, drains S.; gradually asc. |
| 72.00 | Low clay ridge, 50 ft. above wash, bears NE. and SW.; descend. |
| 82.25 | Wash, 15 lks. wide, 3 ft. deep, 30 ft. below ridge, drains SW.; ascend. |
| 93.00 | Clay ridge, 20 ft. above wash, bears NE. and SW.; descend. |
| 95.00 | Fall 13 lks. S. of the cor. of Tps. 21 and 22 S., Rs. 18 and 19 E., which is a sandstone, 6 x 6 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of Tps. 21 and 22 S., Rs. 18 and 19 E., with brass cap marked |
| | T21S<br>R18E \| R19E<br>S36 \| S31<br>S1 \| S6<br>T22S<br>1919 |
| | Dig pits, 18x18x12 ins., on line, N.,S.,E. and W. of post, 3 ft. distant. |
| | The bearing of this ½ mile is N.89°55'W., and the distance is 45.00 chs. |
| | Land, low, rolling clay hills; general S. exposure and drainage. |
| | Soil, hard, dry, blue clay. |
| | Undergrowth, shadscale. |
| | No timber. |

RETRACEMENT OF THE EAST BOUNDARY OF T. 21 S., R. 19 E.

| Chains. | |
|---|---|
| | From the cor. of Tps. 21 and 22 S., R. 20 E., hereinafter described, |
| | North on retracement line along W. bdy. Sec. 31 T. 21 S. R. 20 E. |
| 5.65 | The closing cor. of Tps. 21 and 22 S., R. 19 E., heretofore described bears E. 2 lks. distant. |
| 40.13½ | Fall 17 lks. W. of the ¼ sec. cor., hereinafter described. |
| | The bearing of this half-mile is therefore N. 0° 15' E. and the distance 40.13½ chs. |
| | From point 17 lks. W. of ¼ sec. cor., continue North. |
| 80.27 | Fall 34 lks. W. of the cor. of secs. 25, 30, 31, and 36, hereinafter described. |
| | The bearing of this half-mile, is therefore N. 0° 15' E. and the distance 40.13½ chs. |
| | From the cor. of secs. 25, 30, 31, and 36 |
| | North on retracement line along W. bdy. of sec. 30, T. 21 S. R. 20 E. |
| 39.99 | Fall 12 lks. W. of the ¼ sec. cor., hereinafter described. |
| | The bearing of this half-mile is, therefore N. 0° 10' E. and the distance is 39.99 chs. |
| | From point 12 lks. W. of the ¼ sec. cor., continue North |
| 80.14 | Fall 12 lks. W. of the cor. of secs. 19, 24, 25, and 30, hereinafter described. |
| | The bearing of this half-mile is therefore North and the distance is 40.15 chs. |
| | From the cor. of secs. 19, 24, 25, and 30, |
| | North on retracement line along W. bdy. Sec. 19, T. 21 S. R. 20 E. |
| 39.97 | Fall 17 lks. E. of the ¼ sec. cor., hereinafter described. |
| | The bearing of this half-mile is therefore N. 0° 15' W. and the distance 39.97 chs. |

RETRACEMENT OF THE EAST BOUNDARY OF T. 21 S.R. 19 E.

Chains. From point 17 lks.E.of the ¼ sec.cor., continue North.

80.01 Fall 4 lks.E.of the cor.of secs.13,18,19, and 24, hereinafter described.

The bearing of this half-mile is therefore N 0° 11' E. and the distance is 40.04 chs.

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From the cor.of secs.13, 18, 19, and 24,

North on retracement line along W.bdy.of Sec.18, T. 21 S., R. 20 E.

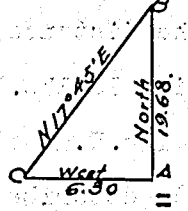
40.00 Fall 15 lks.E.of the ¼ sec.cor., hereinafter described.

The bearing of this half-mile is therefore N. 0° 13' E. and the distance is 40.00 chs.

From the ¼ sec.cor., continue North

Precipitous ascent of break of mountain, up which I triangulate as follows:

From point 1.82 chs.S.of ¼ sec.cor., which I designate "A" set flag "B" on line North, then measure base line AC west, 6.30 chs. The line BC bears N. 17° 45' E. All bearings taken by direct reading of the solar and angles checked by deflection.




Distance by triangulation = 19.68 chs.

Total distance on retracement line = 57.86 chs.

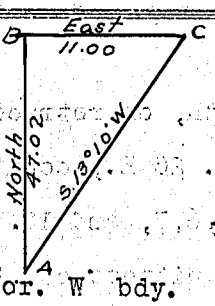
80.00 No trace of the cor.of secs.7 and 18 can be found.

The line North passes along rugged ledges and slope of canyon, I therefore return to 75.60 chs. point which I designate "A" and triangulate as follows:

Set flag "B" on line North, then measure base line BC east 11.00 chs. (longer base impracticable). The line AC bears S. 13° 10' W. All bearings taken by direct reading of the solar and angles checked by deflection.

RETRACEMENT OF THE EAST BOUNDARY OF T. 21 S., R. 19 E.

Chains.




Distance by triangulation = 47.02 chs.

Total distance North of $\frac{1}{4}$ sec.cor. W bdy. Sec.18 = 82.62 chs.

Distance by return measurement 2.30 chs.

80.32 Fall 23 lks.W.of the $\frac{1}{4}$ sec.cor. W. bdy.sec.7 hereinafter described.

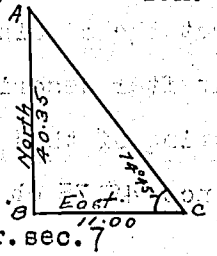
The bearing of the line bet. the $\frac{1}{4}$ sec.cor.for sec.18 and the $\frac{1}{4}$ sec.cor.for sec.7 is N. 0° 10' E. and the proportionate distance for each half-mile is 40.16 chs.

From the $\frac{1}{4}$ sec.cor.for sec.7,

North

2.30 Precipitous ascent over ledges up which I cannot chain; triangulate as follows:

Set flag "A" on line North, designate this point "B" and measure base line BC, east 11.00 chs. From point "C" the base BC subtends an angle of 74° 45' to flag "A". Bearings determined by direct reading of the solar and angles checked by deflection.




Distance by triangulation = 40.35 chs.

Total distance N.of $\frac{1}{4}$ sec.cor.sec.7 = 42.65 chs.

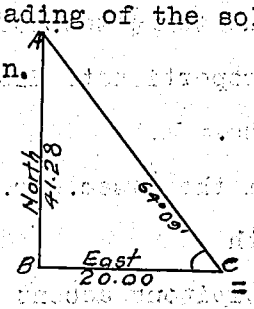
Distance by return measurement = 2.39 chs.

40.26 Intersect the witness cor.to cor.of secs.1,6,7, and 12 hereinafter described. Witness cor.is 41 lks.N.of true cor. point.

The bearing of this half-mile is therefore North and the distance is 39.85 chs.

RETRACEMENT OF THE EAST BOUNDARY OF T. 21 S., R. 19 E.

| Chains. | |
|---|---|
| | North, on retracement line along W. bdy. Secs. 6 T. 21 S. R. 20 E., counting distances from true cor. point secs. 1, 6, 7, and 12. |
| .41 | The witness cor. to cor. of secs. 1, 6, 7, and 12. |
| 2.81 | Line north passes over high ledges on face of mountain, I triangulate as follows: |
| | Set flag "A" on line N., designate this point "B", then measure base line BC east 20.00 chs. The base line from "C" subtends an angle of 64° 09' to "A". All bearings taken by direct reading of the solar and angles checked by deflection. |




Distance by triangulation = 41.28 chs.
Total distance on retracement = 44.09 chs.
Distance by return measurement = 4.09 chs.

| | |
|---|---|
| 40.00 | Intersect the ¼ sec. cor. hereinafter described. |
| | The bearing of this half-mile is therefore North and the distance 40.00 chs. |
| | From the ¼ sec. cor., continue North |
| 48.75 | Intersect the closing cor. of Tp. 21 S., Rs. 19 and 20 E. hereinafter described. |
| | The bearing of this half-mile is therefore north and the distance 48.75 chs. |

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From the cor. of Tps. 21 and 22 S., R. 20 E., which is a sandstone 10 x 8 x 8 ins., above ground, firmly set and marked and witnessed as described by the surveyor general.

N. 0° 15' E. on resurvey line along W. bdy. sec. 31 T. 21 S. R. 20 E.

Over rolling land; through salt sage and greasewood undergrowth,

RESURVEY OF THE EAST BOUNDARY OF T. 21 S.R. 19 E.

Chains.

5.65 The closing cor.of Tps. 21 and 22 S., R. 19 E., heretofore described.

6.50 Road, Thompsons to Moab, Utah, bears NE. and SW.

31.00 Wash, 30 lks.wide, 15 ft. deep, drains S. 80° W.

40.13½ The ¼ sec.cor. W. bdy. sec.31 which is a sandstone 14 x 8 x 4 ins., lying on the ground, marked ¼ on one face. No accessories to cor.

At exact point of old cor. reset same stone 10 ins.in the ground for ¼ sec.cor. W. bdy. sec.31, with ¼ mark to the W.; dig pits 18 x 18 x 12 ins.N. and S of stone 3 ft.dist.

45.65 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground for ¼ sec.cor. E. bdy. Sec.36, T. 21 S., R. 19 E., with brass cap marked

¼S36 | 1919

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft.dist.

77.90 Wash 10 lks.wide, 3 ft.deep, drains W.

80.27 The cor.of secs.25, 30, 31, and 36, which is a sandstone 8 x 6 x 4 ins.above ground, firmly set and marked and witnessed as described by the surveyor general.

This cor.will hereafter refer to secs.30 and 31 T.21 S. R. 20 E.

Land, rolling, broken by small clay hills.

Soil, dry, coarse, sandy loam.

Undergrowth, salt sage and greasewood.

No timber.

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From cor.of secs.30 and 31,

N. 0° 10' E. on resurvey line along W.bdy.Sec.30 T. 21 S., R. 20 E.

Over rolling land; through salt sage and grass undergrowth.

5.38 Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground for cor.of secs.25 and 36 T. 21 S., R. 19

RESURVEY OF THE EAST BOUNDARY OF T. 21 S.R. 19 E.

| Chains. | |
|---|---|
| | E., with brass cap marked<br>T21S \| S25<br>S36 \| R19E<br>1919 |
| | Dig pits 18 x 18 x 12 ins. NW. and SW. of post 6 ft. dist. |
| 9.10 | Wash, 25 lks. wide, 6 ft. deep, drains S. 60° W. |
| 39.46 | Telephone line, Greenriver to Thompsons, Utah, bears E. and W. |
| 39.99 | The ¼ sec. cor., which is a sandstone 6 x 6 x 3 ins. above ground, firmly set and properly marked. No accessories. Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist. leaving the cor. for ¼ sec. cor. W. bdy. Sec. 30 T. 21 S.R. 20 E. only. |
| | Thence North with continuous measurement, |
| 45.38 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. E. bdy. Sec. 25 T. 21 S., R. 19 E., with brass cap marked<br>¼S25 \|<br>1919 |
| | Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist. |
| 64.00 | Road, Thompsons to Creseent, Utah, bears E. and W. |
| 80.14 | The cor. of secs. 19 ~~24~~, 25, and 30, which is a sandstone 8 x 8 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | This corner will hereafter refer to secs. 19 and 30 T. 21 S., R. 20 E. |
| | Land, nearly level; drains S. |
| | Soil, hard, dry, blue clay. |
| | Undergrowth, salt sage and grass. |
| | No timber. |
| | N. 0° 15' W. on resurvey line along W. bdy. Sec. 19 T. 21 S., R. 20 E. |
| | Over gently rolling land; through salt sage and grass |

RESURVEY OF THE EAST BOUNDARY OF T. 21 S , R. 19 E.

| Chains. | |
|---|---|
| | undergrowth. |
| 5.24 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 24 and 25, T. 21 S. R. 19 E. with brass cap marked<br>T21S \| S24<br>S25 \| R19E<br>1919. |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. |
| 16.00 | Main line D. & R. G. Ry. track, bears N. 69°53'E. and S. 69° 53' W. |
| | Bridge No. 530A bears N. 69° 53' E. 41.1 lks. dist. |
| 17.00 | Western Union Telegraph Line, bears N. 69° 53' E., and S. 69° 53' W. |
| 39.97 | The ¼ sec. cor. which is a sandstone 6 x 4 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor-general. This cor. will hereafter refer to sec. 19, T. 21 S , R. 20 E. only. |
| | Thence N. 0° 11' E. with continuous measurement. |
| 45.24 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. E. bdy. Sec. 24, T. 21 S., R. 19 E., with brass cap marked<br>¼S24 \|<br>1919. |
| | Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist. |
| 67.70 | Wash, 1 ch. wide, 20 ft. deep, drains SW. |
| 80.01 | The cor. of secs. 13, 18, 19 and 24, which is a sandstone 8 x 10 x 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor-general. This cor. will hereafter refer to secs. 18 and 19 T. 21 S. R. 20 E. only. |
| | Land, rolling; general S. exposure and drainage. |
| | Soil, sandy loam and hard, dry, blue clay. |
| | Undergrowth, salt sage and grass. |
| | No timber. |

RESURVEY OF THE EAST BOUNDARY OF T. 21 S.R. 19 E.

| Chains. | |
|---|---|
| | N.0° 13' W. on resurvey line along W.bdy.Sec.18, T. 21 S., R. 20 E. |
| | Over rolling clay hills; through short undergrowth of shadscale and grass. |
| 5.23 | Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins. in the ground for cor.of secs.13 and 24 T. 21 S., R. 19 E., with brass cap marked<br>T21S<br>S13 \| S24<br>R19E<br>1919 |
| | Raise a mound of stone, 2 ft.base, 1½ ft.high W.of cor. |
| 38.18 | Point of triangulation. |
| 40.00 | The ¼ sec.cor., which is a sandstone 6 x 4 x 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. This cor.will hereafter refer to Sec.18 T. 21 S., R. 20 E.only. |
| | Thence N. 0° 10' E., with continuous measurement. |
| 45.23 | Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground for ¼ sec.cor. E. bdy. Sec.13 T. 21 S.,R. 19 E., with brass cap marked<br>¼S13<br>1919 |
| | Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. |
| | Abrupt ascent over break of mountain, bears E. and W. |
| | High ledge at top makes chaining impossible; thence by triangulation from the 38.18 chs.point. |
| 57.86 | Top of mesa and ledge, 760 ft.above ¼ sec.cor.sec.18, bears E. and NW.; also point of triangulation. |
| | Enter scrub cedar and pinon timber, bears E. and W. thence over rolling mesa. |
| 70.36 | The point for cor.of secs.7 and 18 T. 21 S., R. 20 E. will fall on inaccessible ledges, where corner cannot be set; therefore at this point, |
| | Set an iron post, 3 ft.long, 2 ins.in dia., 6 ins.in the ground on solid rock, and 18 ins.in a mound of |

RESURVEY OF THE EAST BOUNDARY OF T. 21 S., R. 19 E.

Chains.

stone for witness cor. to cor. of secs. 7 and 18 T. 21 S., R. 20 E., with brass cap marked

W C
T21S
S7
S18
R20E
1919

Raise a mound of stone 2 ft. base, 1½ ft. high E. of cor. Corner stands on brink of mesa, bearing N. 10° W. and S. 10° E. Descend to shelf on W. side of canyon.

75.60 Point for triangulation. Abrupt descent along face of cliff, impossible to chain.

80.16 Proportionate measurement. Point for cor. of secs. 7 and 18 falls on face of cliff. No cor. set.

Land, S. half-mile rolling clay hills; N. ½ half-mile rough mountainous breaks of mesa; general S. exposure and drainage. Soil, hard, dry blue clay and sandstone; subsoil, clay and rock.

Timber, scrub cedar and pinon in northern portion of mile. Undergrowth, shadscale.

---

N. 0° 10' E. on resurvey line along W. bdy. Sec. 7 T. 21 S. R. 20 E.

Over rough mountainous land and breaks of mesa. The line north passes over rugged slopes of canyon over ledges.

Distance between true cor. point for secs. 7 and 18 and the ¼ sec. cor. W. bdy. sec. 7 determined by triangulation. (See retracement W. bdy. sec. 7).

To establish the cor. of secs. 12 and 13 E. bdy. T. 21 S. R. 19 E. I return to point at 75.60 chs. on line W. bdy. Sec. 18; thence by offsets,

West 2.50 chs.; then

N. 0° 10' E. 9.63 chs., then

East 2.50 chs. to point on true line W. bdy. sec 7, at

5.07 From true cor. point secs. 7 and 18.

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the

RESURVEY OF THE EAST BOUNDARY OF T. 21 S., R. 19 E.

| Chains. | |
|---|---|
| | ground for cor. of secs. 12 and 13 E. Bdy. T. 21 S., R. 19 E., with brass cap marked<br>T21S \| S12<br>S13 \| R19E<br>1919 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Thence by triangulation to |
| 40.16 | The ¼ sec. cor. W. bdy. sec. 7, which is a sandstone 8 x 8 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. Thence |
| | North, with continuous measurement. |
| 42.46 | Point of triangulation for determining distance of S. ½ mile of W. bdy. Sec. 7 and also for the N. ½ of same sec. the line N. of this point passing over high ledges, impossible to chain. |
| 45.07 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. E. bdy. Sec. 12 T. 21 S. R. 19 E., with brass cap marked<br>¼S12 \| <br>1919 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Thence by triangulation, |
| 80.01 | True point for cor. of secs. 1, 6, 7, and 12. No cor. set. |
| 80.42 | The witness cor. to cor. of secs. 1, 6, 7, and 12, which is an iron post, 2 ins. in dia., firmly set in ground and marked and witnessed as described by the surveyor general. I destroy all marks on post that pertain to R. 19 E., and leave post standing for witness cor. to cor. of secs. 6 and 7 T. 21 S., R. 20 E. only. |
| | Land, rough, mountainous; general S. exposure and drainage. |
| | Soil, blue clay and sandstone. |
| | Timber, very scattering scrub cedar. Undergrowth shadscale. |
| | The above witness cor. stands on rough slope of mountain 800 ft. above ¼ sec. cor. sec. 7. |
| | North on resurvey line along W. bdy. sec. 6, |
| | Ascend rough slope of mountain; through scattering cedar |

| CHAINS | |
|---|---|
| | and pinon timber and undergrowth of shadscale. |
| | Note: All distances counted from true cor. point for secs. 6 and 7. |
| 2.81 | Rocky point, 100 ft. above witness cor. The line N. passes along face of ledges, impossible to chain., offset as follows: |
| | West, 1.00 ch., then |
| | North, 2.25 chs. to point 5.06 chs. N. and 1.00 ch. W. of true cor. point secs. 6 and 7. I am unable to reach true line on account of ledges, therefore at this point |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for witness cor. to the cor. of secs. 1 and 12, E. bdy. T.21 S.,R.19 E., with brass cap marked |
| | T21S<br>S1<br>WC<br>S12<br>1919 |
| | from which |
| | A pinon, 8 ins.diam.,bears S.37½°W., 51 lks. dist.,marked W C T 21 S R 19 E S 12 B T |
| | A pinon, 8 ins.diam.,bears N.35½°W., 38 lks. dist.,marked W C T 21 S R 19 E S 1 B T |
| | The line N. following along face of ledges, distance determined by triangulation from 2.81 chs. point. |
| 40.00 | The ¼ sec. cor. bet. secs. 1 and 6 which is an iron post, 1 in. in dia., extending 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | I destroy all marks on cor. pertaining to sec. 1 and leave same standing for sec. 6 only. |
| | Continue North. |
| 44.09 | Point of triangulation for determining distance of S. ½ mile. |
| 45.06 | On spur, 50 ft. above ½ sec. 6, projects E. |

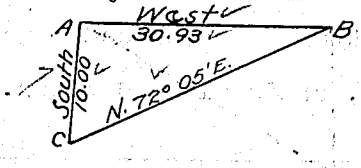
4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 19 EAST.

| CHAINS | |
|---|---|
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. E. bdy. sec. 1, with brass cap marked ¼S1 \| 1919 |
| | from which |
| | A cedar, 6 ins.diam.,bears S.14°W., 8 lks. dist.,marked ¼ S 1 B T |
| | A cedar, 6 ins.diam.,bears N.60°W., 35 lks. dist.,marked ¼ S 1 B T |
| 48.75 | The closing cor. of Tp. 21 S.,Rs. 19 and 20 E., which is an iron post, 3 ins. in dia., firmly set in ground, and marked and witnessed as described by the surveyor general. |
| | From this closing cor., the standard cor. of T.20 S., Rs. 19 and 20 E. which is an iron post, 3 ins. in dia., 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general bears West, 6.37 chs. |
| | Land, rough mountains; general S. exposure and drainage. |
| | Soil, blue clay and sandstone rock. |
| | Timber, scattering scrub cedar and pinon. |
| | Undergrowth, shadscale. |

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 19 EAST.

| | |
|---|---|
| | From the standard cor. of T.20 S.,Rs. 19 and 20 E. West, along S. bdy. sec. 36. |
| | Over rough mountainous land through very scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. Ascend. |
| 1.00 | Ridge, 40 ft. above cor., bears N. and S.; descend over rough slope. |
| 4.02 | Rim of ledges, bears N. and S.; precipitous descent, down which I cannot chain, therefore, triangulate as follows: |

| CHAINS | |
|---|---|
| | Set flag "A" on line west and erect flag "B" at this point, then, from flag "A" measure base line South, 10.00 chs. to point "C". The line BC bears N.72°05'E. All bearings taken by direct reading of the solar and angles determined by deflection. |




| | | |
|---|---|---|
| | Distance by triangulation | 30.93 |
| | Total distance on true line | 34.95 |
| 23.75 | Approximate distance to head of ravine and coal vein outcropping, 800 ft. below ridge, drains S.60°W. | |
| 34.95 | Point of triangulation; thence along rough, broken slope of spur. | |
| 40.00 | On steep slope, 910 ft. below ridge. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked | |

SC
¼ S36

1919

from which

A cedar, 12 ins.diam.,bears N.74°W., 246 lks. dist.,marked S C ¼ S 36 B T

No other tree available.

Continue steep descent over boulder strewn slope.

| | |
|---|---|
| 52.15 | Bottom of descent, 110 ft. below ¼ sec. cor.; ascend. |
| 56.25 | Spur, 100 ft. above base of descent, projects SW. about 10 chs., thence NW.; descend. |
| 69.30 | Base of descent, 110 ft. below spur; ascend. |
| 80.00 | Near top of spur, 110 ft. above base of descent. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for standard cor. of secs. 35 and 36, with brass cap marked |

SC
T20S | R19E
S35 | S36

1919

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 19 EAST.

| CHAINS | |
|---|---|
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No suitable bearing trees are available. |
| | Land, rough mountainous; general S. exposure and drainage |
| | Soil, sand and clay mixed with sandstone rock. |
| | Timber, scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | West, along S. bdy. sec. 35 |
| | Over mountainous land through shadscale and grass undergrowth, a few scattering scrub cedar and pinon trees. Ascend over rough slope of spur. |
| 1.20 | Spur, 10 ft. above cor., projects NW.; descend. |
| 5.00 | Head of gulch, 80 ft. below spur, drains S.20°W.; thence along slope of spur. |
| 8.30 | Spur, projects SW.; descend abruptly. |
| 23.55 | Wash, at foot of spur, 340 ft. below top, drains NW.; thence over rolling bench, dense undergrowth and scattering timber. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for standard ¼ sec. cor., with brass cap marked<br>$\frac{\text{SC}}{\frac{1}{4}\ \text{S35}}$<br>1919<br>from which<br>A cedar, 6 ins.diam., bears N.56¼°E., 89 lks. dist., marked S C ¼ S 35 B T<br>A cedar, 6 ins.diam., bears N.52¾°W., 142 lks. dist., marked S C ¼ S 35 B T |
| 53.90 | Gulch, 110 ft. below ¼ sec. cor., drains SW.; ascend. |
| 63.60 | Top of ascent, 75 ft. above gulch; descend. |
| 78.55 | Main gulch, 25 ft. below top of ascent, drains S.; asc. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for standard cor. of secs. 34 and 35, with brass cap marked |

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 19 EAST.

| CHAINS | |
|---|---|
| | SC<br>T20S \| R19E<br>S34 \| S35<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No suitable trees are available. |
| | Land, rough and mountainous; general S. exposure and drainage. |
| | Soil, coarse sandy loam and loose sandstone rock. |
| | Timber, a few scattering cedar and pinon. |
| | Undergrowth, shadscale, sage and bunch grass. |
| | West, along S. bdy. sec. 34. |
| | Over rough mountainous land through very scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. |
| 1.90 | Gulch, drains S.20°E.; ascend. |
| 15.50 | Spur, 275 ft. above gulch, projects SE.; descend over rough slope. |
| 26.30 | Gulch, 100 ft. below spur, drains S.; ascend. |
| 28.80 | Road, coal mine to Crescent, Utah, bears NW. and SE. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for standard ¼ sec. cor., with brass cap marked<br>SC<br>¼ S34<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 44.00 | Spur, 235 ft. above gulch, projects S.30°E.; descend. |
| 47.75 | Head of gulch, 35 ft. below spur, drains S.30°E.; ascend. |
| 64.75 | Ridge, 305 ft. above gulch, bears N.10°W. and S.10°E.; descend abruptly rough slope broken by ledges. |
| 78.00 | Gulch, 250 ft. below spur, drains S.; coal vein, 3 ft. thich in gulch, bears SE. and SW. Ascend. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 4 ins. in |

| CHAINS | |
|---|---|
| | the ground on solid rock and 20 ins. in a mound of stone for standard cor. of secs. 33 and 34, with brass cap marked<br>SC<br>T20S \| R19E<br>S33 \| S34<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Land, very rough and mountainous, broken by sandstone ledges; general S. exposure and drainage. |
| | Soil, coarse sandy loam, hard, dry blue clay and loose sandstone rock. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | West, along S. bdy. sec. 33. |
| | Over rough mountainous land through scattering scrub ceda and pinon timber and undergrowth of shadscale and grass Ascend abruptly over ledges. |
| 8.00 | Point of spur, 225 ft. above cor., projects S.; descend abruptly. |
| 16.20 | Gulch, 240 ft. below spur, drains S.; ascend. |
| 28.20 | Rocky ridge, 225 ft. above gulch, bears N.20°E. and S.20°W.; descend along top of spur projecting W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for standard ¼ sec. cor., with brass cap marked<br>SC<br>¼ S33<br>1919<br>from which<br>A cedar, 6 ins diam., bears N.78½°W., 62 lks. dist., marked S C ¼ S 33 B T<br>No other trees available. |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 19 EAST

| CHAINS | |
|---|---|
| 58.70 | Leave spur, turns NW.; descend abruptly over rough slope. |
| 68.85 | Ravine, 200 ft. below spur, drains NW.; ascend. |
| 80.00 | 90 ft. above ravine. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for standard cor. of secs. 32 and 33, with brass cap marked |

SC 19
T20S | R19E
S32 | S33

1919

from which

A pinon, 12 ins. diam., bears N. 38° W., 76 lks. dist., marked S C T 20 S R 19 E S 32 B T

No other trees available.

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

Land, rough and mountainous, broken by sandstone ledges.

Soil, sandy loam, hard, dry, blue clay and loose sandstone rock.

Timber, a few scattering scrub cedar and pinon.

Undergrowth, shadscale and grass.

---

West, along S. bdy. sec. 32.

Over mountainous land through very scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. Ascend rough slope of spur.

| | |
|---|---|
| 10.90 | Spur, 50 ft. above cor., projects SW.; descend. |
| 24.30 | Spur, projects NW.; descend abruptly over ledges. |
| 40.00 | In E. edge of bottom of gulch, 185 ft. below spur. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for standard ¼ sec. cor., with brass cap marked |

SC
¼ S 32

1919

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

4TH. STANDARD PARALLEL SOUTH, THROUGH RANGE 19 EAST.

| CHAINS | |
|---|---|
| 43.50 | Bottom of gulch and stream, 3 lks. wide, 1 in. deep, course S.10°W.; ascend. |
| 48.75 | Top of gulch, bears N.10°E. and S.10°W.; thence over rolling bench land. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for standard cor. of secs. 31 and 32, with brass cap marked<br>SC<br>T20S \| R19E<br>S31 \| S32<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Land, rough mountainous on E. 48.77 chs.; rolling on the western portion of mile; general S. exposure and drainage. |
| | Soil, sandy loam, blue clay and loose sandstone rock. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | West, along S. bdy. sec. 31. |
| | Over rolling land through shadscale, sagebrush and grass undergrowth. |
| 2.00 | Wash, 15 lks. wide, 4 ft. deep, drains SE. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for standard ¼ sec. cor., with brass cap marked<br>SC<br>¼ S31<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 50.20 | Low ridge, bears N. and S. |
| 64.00 | Wash, 10 lks. wide, 5 ft. deep, drains N.20°W. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for standard cor. of T.20 S., Rs. 18 and 19 E., |

WEST BOUNDARY OF T.21 S.,R.19 E.

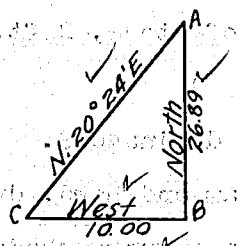
| CHAINS | |
|---|---|
| | with brass cap marked<br>SC<br>T20S<br>R18E S36 \| R19E S31<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Land, rolling; drainage S. |
| | Soil, sandy loam and hard, dry, blue clay. |
| | Undergrowth, sagebrush, shadscale and grass. |
| | No timber. |

WEST BOUNDARY OF T.21 S.,R.19 E.

| | |
|---|---|
| | From the cor. of Tps. 21 and 22 S., Rs. 18 and 19 E., heretofore described. |
| | North, bet. secs. 31 and 36. |
| | Over broken clay hills, through short undergrowth of shadscale and grass. |
| 10.70 | Main line D.& R.G.Ry. tracks, bears N.85°20'E. and S.85°20'W. |
| 11.40 | Western Union telegraph line, bears N.85°20'E. and S.85°20'W. |
| 27.60 | Wash, 2 chs. wide, 50 ft. deep, drains N.20°W. |
| 38.70 | Wash, 50 lks. wide, 20 ft. deep, drains W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S36 \| S31<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 46.00 | Foot of mesa, bears N.80°W. and S.80°E.; abrupt ascent over sandstone ledges up which I cannot chain; |

WEST BOUNDARY OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | triangulate as follows: |
| | Set flag "A" on line on top, designate this point "B", then measure base line BC, west, 10.00 chs. to point where line AC bears N.20°24'E. All bearings taken by direct reading of the solar and angles checked by deflection. |




| | |
|---|---|
| | Distance by triangulation = 26.89 chs. |
| | Total distance = 72.89 chs. |
| 72.89 | Top of mesa, 475 ft. above ¼ sec. cor., bears NW. and SE gradually ascend over mesa top through very scattering scrub cedar and pinon timber. |
| 80.00 | Mark X on sandstone surface rock and over same; Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. a large mound of stone for cor. of secs. 25,30,31 and 36, with brass cap marked |

T21S
R18E | R19E
S25 | S30
S36 | S31
1919

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

Land, S. 46 chs. low clay hills cut by washes; remainder of mile rough slope of mesa.

Soil, coarse sandy loam and hard, dry, blue clay. N. 34.00 chs. strewn with sandstone rock.

Undergrowth, shadscale and grass.

Timber, very scattering scrub cedar and pinon on north portion of mile

---

North, bet. secs. 25 and 30.

Ascend over rough and broken top of mesa through very scattering scrub cedar and pinon timber and undergrowth of shadscale and grass.

WEST BOUNDARY OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 23.70 | Top of ascent, 100 ft. above sec. cor., bears E. and W.; descend. |
| 30.30 | Wash, 1 ch. wide, 30 ft. deep, in ravine, drains E.; ascend. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked<br>$\frac{1}{4}$<br>S25 \| S30<br>1919<br>from which<br>A cedar, 6 ins. diam., bears S.10°E., 197 lks. dist., marked $\frac{1}{4}$ S.30 B T<br>A cedar, 6 ins. diam., bears N.35$\frac{1}{2}$°W., 130 lks. dist., marked $\frac{1}{4}$ S 25 B T |
| 40.60 | Top of slope of ravine, bears E. and W.; gradually descend. |
| 55.55 | Ravine, 50 ft. below top of last ravine, drains E.; ascend. |
| 64.35 | Top of ascent, 90 ft. above ravine, bears E. and W.; thence over gently rolling top. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 19,24,25 and 30, with brass cap marked<br>T21S<br>R18E \| R19E<br>S24 \| S19<br>S25 \| S30<br>1919<br>from which<br>A cedar, 6 ins. diam., bears N.42$\frac{3}{4}$°E., 81 lks. dist., marked T 21 S R 19 E S 19 B T<br>A cedar, 8 ins. diam., bears S.41$\frac{3}{4}$°E., 105 lks. dist., marked T 21 S R 19 E S 30 B T<br>A cedar, 8 ins. diam., bears S.7$\frac{3}{4}$°W., 137 lks. dist., marked T 21 S R 18 E S 25 B T<br>A cedar, 6 ins. diam., bears N.55$\frac{3}{4}$°W., 106 lks. dist., marked T 21 S R 18 E S 24 B T |

WEST BOUNDARY OF T. 21 S., R. 19 E.

| CHAINS | |
|---|---|
| | Land, rolling, broken by ravines draining E. |
| | Soil, sandy loam and loose sandstone rock. |
| | Timber, scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | North, bet. secs. 19 and 24. |
| | Over level mesa top through very scattering scrub cedar and pinon timber and undergrowth of sagebrush and gras |
| 11.30 | Brink of gulch, bears E. and W.; descend abruptly over sandstone ledges. |
| 27.40 | Wash, 15 lks. wide, 15 ft. deep, in gulch, 545 ft. below brink, drains N. 80° W.; ascend abruptly. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ½ sec. cor., with brass cap marked<br>¼<br>S24 \| S19<br>1919 |
| | Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. distan |
| | No suitable bearing trees are available. |
| 47.50 | Clay spur, 150 ft. above gulch, projects W.; descend. |
| 52.00 | Ravine, 150 ft. below spur, drains S. 75° W.; ascend abruptly over broken slope. |
| 62.40 | Point of spur, 490 ft. above ravine, projects W.; descend abruptly 510 ft. to |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, with brass cap marked<br>T21S<br>R18E \| R19E<br>S13 \| S18<br>S24 \| S19<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor |
| | No suitable trees available. |
| | Land, rough and mountainous, broken by ledges and canyons |
| | Soil, hard, dry clay and sandstone rock. |
| | Timber, very scattering scrub cedar and pinon. |

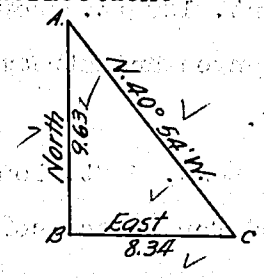
WEST BOUNDARY OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Undergrowth, shadscale and grass. |
| | North, bet. secs. 13 and 18. |
| | Over mountainous land through shadscale, greasewood and grass undergrowth. |
| 11.50 | Wash, 45 lks. wide, 8 ft. deep, 120 ft. below sec. cor., drains W.; ascend. |
| 21.40 | Top of ascent, 100 ft. above wash; gradually descend. |
| 32.30 | Bottom of canyon and stream, 3 lks. wide, 3 ins. deep, course SW. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S13 \| S18<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Ascend along rough and broken slope of canyon, bears NE. and SW., 200 ft. to |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 7,12,13 and 18, with brass cap marked<br>T21S<br>R18E \| R19E<br>S12 \| S7<br>S13 \| S18<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rough and broken mountains. |
| | Soil, sandy loam, clay and loose sandstone rock. Large boulders on N.½ mile. |
| | Undergrowth, shadscale, greasewood and grass. |
| | No timber. |
| | North, bet. secs. 7 and 12. |

WEST BOUNDARY OF T.21 S.,R.19 E.

CHAINS

Over rough mountainous land. Ascend precipitous slope of canyon over boulders; high ledges at top of canyon make chaining impossible, I triangulate as follows: Set flag "A" on line at top of canyon, designate cor. of secs. 7,12,13 and 18 "B", then measure base line BC, east, 8.34 chs. The line AC bears N.40°54'W. All bearings taken by direct reading of the solar and angles checked by deflection.




Distance by triangulation = 9.63 chs.

9.63 To point of triangulation on top of ledge and rim of canyon, bears N.30°E. and S.30°W.; thence over rolling mesa land, through very scattering cedar and pinon timber and undergrowth of sagebrush and grass.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked

¼

S12 | S7

1919

from which

A cedar, 7 ins.diam.,bears N.52½°E.,131 lks. dist.,marked ¼ S 7 B T

A cedar, 6 ins.diam.,bears N.4°W., 46 lks. dist.,marked ¼ S 12 B T

47.00 Ravine, 2 chs. wide, 30 ft. deep, drains W.

58.20 Ravine, 5 chs. wide, 30 ft. deep, drains SW.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 18 ins. in a mound of stone for cor. of secs. 1,6,7 and 12, with brass cap marked

WEST BOUNDARY OF T.21 S.,R.19 W.

| CHAINS | |
|---|---|
| | T21S<br>R18E \| R19E<br>S1 \| S6<br>S12 \| S7<br>1919 |
| | from which |
| | A cedar, 6 ins.diam.,bears S.9¾°E., 47 lks. dist.,marked T 21 S R 19 E S 7 B T |
| | A cedar, 6 ins.diam.,bears S.41½°W., 102 lks. dist.,marked T 21 S R 18 E S 12 B T |
| | A cedar, 12 ins diam.,bears N.42¾°W., 139 lks. dist.,marked T 21 S R 18 E. S 1 B T |
| | No tree available in sec. 6 |
| | Land, rolling mesa, broken by ravines. |
| | Soil, sandy loam and sandstone rock. |
| | Timber, scattering scrub cedar and pinon. |
| | Undergrowth, sagebrush and grass. |
| | North, bet. secs. 1 and 6. |
| | Over rolling mesa through scattering cedar and pinon timber and undergrowth of sagebrush and grass. |
| 22.70 | Begin descent into ravine, bears E. and W. |
| 25.80 | Ravine, 65 ft. deep, heads about 3 chs. E. and drains W.; ascend. |
| 29.00 | Top of ravine, bears NW. and SE. |
| 37.00 | Begin abrupt descent over ledges into canyon, bears N.10°E. and S.10°W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼<br>S1 \| S6<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W, of cor. |
| | No suitable bearing trees are available. |
| 42.96 | Intersect 4th. Standard Parallel South, 9.66 chs. W. of the standard cor. of T.20 S.,Rs. 18 and 19 E. heretofore |

WEST BOUNDARY OF T.21 S.,R.19 E.

CHAINS

described.

At intersection,

Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for closing cor. of Tp. 21 S.,Rs. 18 and 19 E., with brass cap marked

T20SR18E
S36
S1 | S6
R18E | R19E
CC
T21S
1919

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

No suitable trees are available.

Land, rolling mesa, broken by ravines.

Soil, sandy loam and loose sandstone rock.

Timber, a few scattering cedar and pinon.

Undergrowth, sagebrush and grass.

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SUBDIVISION OF T.21 S.,R.19 E.

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

N.0°04'E., bet. secs. 35 and 36.

Over gently rolling desert, through undergrowth of salt sage and greasewood.

20.60 Wash, 75 lks. wide, 10 ft. deep, drains SW.

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

¼
S35 | S36
1919

Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. distant

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 25,26,35 and 36, with brass cap marked<br>T21S \| R19E<br>S26 \| S25<br>S35 \| S36<br>1919<br>Dig pits, 18x18x12 ins., in each sec., 5½ ft. distant from cor.<br>Land, gently rolling.<br>Soil, hard, dry, clay and sand.<br>Undergrowth, salt sage and greasewood.<br>No timber. |
| | S.89°56'E., on a random line bet. secs. 25 and 36. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.30 | Intersect E. bdy. of the tp. 5 lks. N. of the cor. of secs. 25 and 36 heretofore described. |
| | Thence |
| | N.89°54'W., on true line bet. secs. 25 and 36. |
| | Over gently rolling desert through undergrowth of salt sage, greasewood and grass. |
| 8.60 | Wash, 25 lks. wide, 5 ft. deep, drains SW. |
| 24.50 | Wash, 15 lks. wide, 5 ft. deep, drains SW. |
| 40.15 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ \| S25<br>S36<br>1919<br>Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. distant. |
| 44.30 | Wash, 45 lks. wide, 5 ft. deep, drains SW. |
| 80.30 | The cor. of secs. 25,26,35 and 36.<br>Land, gently rolling.<br>Soil, hard, dry, blue clay and sandy loam.<br>Undergrowth, salt sage, greasewood and grass.<br>No timber. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | N.0°04'E., bet. secs. 25 and 26. |
| | Over nearly level desert through undergrowth of salt sage and grass. |
| 10.80 | Telephone line, Thompsons to Greenriver, Utah, bears N.73°50'E. and S.73°50'W. |
| 30.50 | Road, Thompsons to Cresent, Utah, bears E. and W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked<br>$\frac{1}{4}$<br>S26 \| S25<br>1919<br>Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. distant |
| 60.00 | Wash, 1 ch. wide, 6 ft. deep, drains SW. |
| 70.30 | Main line D.& R.G.Ry. tracks, bears N.85°45'E. and S.85°45'W. |
| 71.50 | Western Union telegraph line, bears N.85°45'E. and S.85°45'W. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 23,24,25 and 26, with brass cap marked<br>T21S \| R19E<br>S23 \| S24<br>S26 \| S25<br>1919<br>Dig pits, 18x18x12 ins., in each sec., 5½ ft. distant from cor. |
| | Land, gently rolling. |
| | Soil, hard, dry, blue clay and sand. |
| | Undergrowth, salt sage and grass. |
| | No timber. |
| | S.89°54'E., on a random line bet. secs. 24 and 25. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 80.28 | Intersect E. bdy. of the tp. 3 lks. N. of the cor. of secs. 24 and 25 heretofore described. |
| | Thence |
| | N.89°53'W., on true line bet. secs. 24 and 25. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Over rolling land through undergrowth of salt sage and grass. |
| 29.74 | Main line D. & R. G. Ry. track, bears N.69°53'E. and S.69°53'W. |
| 31.70 | Western Union telegraph line, bears N.69°53'E. and S.69°53'W. |
| 40.14 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S24 / S25 1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 68.60 | Wash, 45 lks. wide, 10 ft. deep, drains SW. |
| 80.28 | The cor. of secs. 23,24,25 and 26. |
| | Land, rolling. |
| | Soil, sandy loam and hard, dry, blue clay. |
| | Undergrowth, salt sage and grass. |
| | No timber. |
| | N.0°04'E., bet. secs. 23 and 24. |
| | Over rolling land through salt sage and grass undergrowth. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S23 \| S24<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 60.00 | Foot of mesa, bears N.65°E. and S.65°W.; ascend over rough and broken slope. |
| 80.00 | On rough slope of mesa, 430 ft. above foot.<br>Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 18 ins. in a mound of stone for cor. of secs. 13,14,23 and 24, with brass cap marked |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | T21S \| R19E<br>S14 \| S13<br>S23 \| S24<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, S. 60.00 chs. rolling; remainder of mile rough mountainous slope of mesa. General S. exposure and drainage. |
| | Soil, S. 60.00 chs.sandy loam and hard, dry clay; N. 20.00 chs. coarse sandy loam and hard, blue clay, surface strewn with boulders. |
| | Undergrowth, salt sage and grass. |
| | No timber. |
| | S.89°53'E., on a random line bet. secs. 13 and 24. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.21 | Intersect E. bdy. of the tp., 2 lks. N. of the cor. of secs. 13 and 24 heretofore described. |
| | Thence |
| | N.89°52'W., on true line bet. secs. 13 and 24. |
| | Over rolling clay foothills through undergrowth of shadscale and grass. |
| 6.20 | Wash, 1 ch. wide, 15 ft. deep, drains S. |
| 10.90 | Foot of mesa, bears N. and S.10°W.; ascend along rough and boulder strewn slope. |
| 34.22 | Top of ascent, 140 ft. above cor., slopes S.; thence along rough S. slope. |
| 40.10½ | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼ S13/S24 1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Continue along rough slope of mesa strewn with boulders. |
| 80.21 | The cor. of secs. 13,14,23 and 24, 320 ft. above ½ sec. |

SUBDIVISION OF T.21 S.,R.19 E.

CHAINS

cor.

Land, rolling clay hills and rough mountainous slope of mesa; general S. exposure and drainage.

Soil, hard, dry blue clay and coarse sand; surface strewn with large sandstone boulders.

Undergrowth, scattering shadscale and grass.

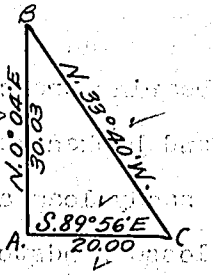
No timber.

---

N.0°04'E., bet. secs. 13 and 14.

Over rough and mountainous slope of mesa. The line N. passes over high ledges, up which I cannot chain, to determine distance, I triangulate as follows:

I set instrument at a point 25.00 chs. S.0°04'W. of the cor. of secs. 13,14,23 and 24 which I designate "A", then set flag "B" on line N.0°04'E. on top of mesa. Measure base line AC, S.89°56'E., 20.00 chs. to point where line BC bears N.33°40'W. All bearings taken by direct reading of the solar and angles checked by deflection.




Distance by triangulation = 30.03 chs.

Subtract 25.00 chs.

Distance on true line bet. secs. 13 and 14 5.03 chs.

5.03 Top of mesa and ledge, 220 ft. above sec. cor., bears N.75°E. and S.75°W.; thence over rolling mesa, through scattering scrub cedar and pinon timber and undergrowth of Brigham tea and grass.

40.00 Set anmiron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked ¼ S14 | S13

1919

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | from which |
| | A cedar, 6 ins.diam.,bears N.57°E., 118 lks. dist.,marked ¼ S 13 B T |
| | A cedar, 6 ins.diam.,bears S.69¾°W., 34 lks. dist.,marked ¼ S 14 B T |
| 50.00 | Foot of spur, bears NW. and SE.; ascend over sandstone ledges. |
| 59.60 | Spur, 460 ft. above ¼ sec. cor., projects SE.; descend. |
| 68.70 | Ravine, 60 ft. below spur, drains S.60°E.; ascend. |
| 74.15 | Spur, 150 ft. above ravine, projects S.60°E.; descend over rocky slope. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 11,12,13 and 14, with brass cap marked |

| T21S \| R19E | |
|---|---|
| S11 | S12 |
| S14 | S13 |

1919

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

No suitable bearing trees available.

Land, rough and broken mesa.

Soil, coarse sandy loam and hard, dry, blue clay. Considerable loose sandstone rock.

Timber, scattering scrub cedar and pinon.

Undergrowth, shadscale and grass.

---

S.89°52'E., on a random line bet. secs. 12 and 13.

40.00 Set temp. ¼ sec. cor.

80.14 Intersect E. bdy. of the tp. 7 lks. N. of the cor. of secs. 12 and 13 heretofore described.

Thence

N.89°49'W., on true line bet. secs. 12 and 13.

Over rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. Ascend abruptly over ledges bearing N. and S.

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 2.65 | Top of ledges, 200 ft. above cor. bears N. and S.; thence over rolling ground. |
| 11.15 | Foot of spur, bears NW. and SE.; ascend. |
| 15.85 | Top of spur, at foot of perpendicular sandstone ledge, 100 ft. above base, projects S.; descend. |
| 30.25 | Wash, 45 lks. wide, 6 ft. deep, drains SE.; gradually ascend. |
| 40.07 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1/4}{S12 \mid S13}$ 1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No suitable trees available. |
| 41.25 | Begin abrupt ascent over sandstone ledges. |
| 50.35 | Spur, 360 ft. above wash, projects S.20°E.; descend. |
| 74.45 | Ravine, 60 ft. below spur, drains S.10°E.; ascend abruptly over boulder strewn slope, 160 ft. to |
| 80.14 | The cor. of secs. 11,12,13 and 14. |
| | Land, rough mountainous, broken by sandstone ledges. |
| | Soil, sandy loam, hard, dry, blue clay and sandstone rock. |
| | Timber, scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |

N.0°04'E., bet. secs. 11 and 12.

Over rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. Ascend along rough E. slope of ridge.

| | |
|---|---|
| 6.50 | Ridge, 150 ft. above cor., bears NE. and S.10°W.; descend over rough and timbered slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{1/4}{S11 \mid S12}$ 1919 |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | from which |
| | A pine, 6 ins.diam.,bears S.35° E., 22 lks. dist.,marked ¼ S 12 B T |
| | A pine, 6 ins.diam.,bears S.30¾°W., 110 lks. dist.,marked ¼ S 11 B T |
| | Cor. stands 400 ft. below top of ridge. |
| 52.85 | Ravine, 290 ft. below ¼ sec. cor., drains N.60°W.; ascend |
| 55.86 | Spur, 160 ft. above ravine, projects N.60°W.; descend along rough slope. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 1,2,11 and 12, with brass cap marked<br>T21S \| R19E<br>S2 \| S1<br>S11 \| S12<br>1919 |
| | from which |
| | A pinon, 8 ins.diam.,bears N.37¾°E., 89 lks. dist.,marked T 21 S R 19 E S 1 B T |
| | A cedar, 6 ins.diam.,bears S.45½°E., 53 lks. dist.,marked T 21 S R 19 E S 12 B T |
| | A cedar, 6 ins.diam.,bears S.23½°W., 78 lks. dist.,marked T 21 S R 19 E S 11 B T |
| | A cedar, 8 ins.diam.,bears N.30°W., 56 lks. dist.,marked T 21 S R 19 E S 2 B T |
| | Land, rough mountainous, broken by ledges and ravines. Soil, sandy loam, hard, dry clay and sandstone rock. Considerable amount of large sandstone boulders. Timber, scattering scrub cedar and pinon. Undergrowth, shadscale and grass. |
| | S.89°49'E., on a random line bet. secs. 1 and 12. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.08 | Fall 3 lks. S. of the witness cor. to the cor. of secs. 1 and 12 which is set 1.00 ch. W. of true cor. point. |
| 80.08 | Intersect E. bdy. of the tp. 3 lks. S. of the true cor. point for cor. of secs. 1 and 12 heretofore described |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Thence N.89°50'W., on true line bet. secs. 1 and 12. |
| | Over rough mountainous land, very scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. |
| | Ascend abruptly over ledges. |
| 1.00 | The witness cor. to cor. of secs. 1 and 12.; continue ascent over ledges. |
| 19.10 | Ridge, 325 ft. above true cor. point, bears NE. and SW.; descend abruptly over steep slope of ridge, 850 ft.to |
| 40.04 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S1/S12 1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Continue steep descent. |
| 54.00 | Ravine, 150 ft. below ¼ sec. cor., drains NW.; ascend abruptly. |
| 62.30 | Top of ascent, 150 ft. above ravine, slopes N.70°W.; descend 260 ft. to |
| 80.08 | The cor. of secs. 1,2,11 and 12. |
| | Land, rough and mountainous, broken by sandstone ledges. |
| | Soil, sandy loam and loose sandstone rock. |
| | Timber, a few scattering cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | N.0°04'E., on true line bet. secs. 1 and 2. |
| | Gradually descend over rolling bench land, through very scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. |
| 10.00 | Wash, 1 ch. wide, 30 ft. deep, drains S.75°W.; ascend over rough slope of spur. |
| 37.50 | Coal vein, 3 ft. thick, bears E. and W. |
| 39.00 | Coal vein, 6 ins. thick, in ledge; 20 ft. high; bears E. and W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | the ground on solid rock and 20 ins. in a mound of stone for $\frac{1}{4}$ sec. cor., with brass cap marked<br>$\frac{\frac{1}{4}}{S2 \mid S1}$<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | No suitable trees available. |
| | Cor. established 350 ft. above wash. |
| 40.75 | Spur, 15 ft. above $\frac{1}{4}$ sec. cor., projects W.; descend 30 ft. to |
| 43.44 | Intersect 4th. Standard Parallel South, 6.20 chs. E. of the standard cor. of secs. 35 and 36 heretofore descril |
| | At intersection: |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 18 ins. in a mound of stone for closing cor. of secs. 1 and 2, with brass cap marked<br>T20SR19E<br>S36<br>S2 \| S1<br>CC<br>T21S<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. |
| | No suitable trees available. |
| | Land, rough and broken mountains; drainage SW. |
| | Soil, dry, coarse sandy loam, hard, blue clay and loose sandstone rock. Surface strewn with boulders. |
| | Timber, very scattering scrub cedar and pinon. |
| | Undergrowth, scattering shadscale and grass. |
| | From the cor. of secs. 2,3,34 and 35 on the S. bdy. of the tp. heretofore described. |
| | N.0°04'E., bet. secs. 34 and 35. |
| | Over gently rolling land through salt sage, greasewood and grass undergrowth. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S34 \| S35<br>1919 |
| | Dig pits, 18x18x12 ins. , N. and S. of post, 3 ft. distant. |
| 65.60 | Telephone line, Thompsons to Greenriver, Utah, bears N.73°50'E. and S.73°50'W. |
| 68.20 | Wash, 10 lks. wide, 5 ft. deep, drains S.10°E. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 26,27,34 and 35, with brass cap marked<br>T21S \| R19E<br>S27 \| S26<br>S34 \| S35<br>1919 |
| | Dig pits, 18x18x12 ins., in each sec., 5½ ft. distant from cor. |
| | Land, gently rolling, drains S. |
| | Soil, hard, dry, blue clay and sand. |
| | Undergrowth, salt sage, greasewood and grass. |
| | S.89°56'E., on a random line bet. secs. 26 and 35. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.04 | Intersect N. and S. line 3 lks. S. of the cor. of secs. 25,26,35 and 36. |
| | Thence |
| | N.89°57'W., on true line bet. secs. 26 and 35. |
| | Over gently rolling desert through undergrowth of salt sage, greasewood and grass. |
| 36.70 | Telephone line, Thompsons to Greenriver, Utah, bears N.73°50'E. and S.73°50'W. |
| 40.02 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S26 / S35<br>1919 |

SUBDIVISION OF T.21 S.,R.19E.

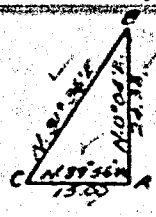
| CHAINS | |
|---|---|
| | Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. distant |
| 80.04 | The cor. of secs. 26,27,34 and 35. |
| | Land, gently rolling; drains S. |
| | Soil, sandy loam and hard, dry, blue clay. |
| | Undergrowth, salt sage, scattering greasewood and grass. |
| | No timber. |
| | N.0°04'E., bet. secs. 26 and 27. |
| | Over nearly level land through salt sage, greasewood and grass undergrowth. |
| 3.80 | Road, Thompsons to Crescent, Utah, bears E. and S.75°W. |
| 27.00 | Main line D.& R.G.Ry. tracks, bears N.58°45'E. and S.58°45'W. |
| 27.80 | Western Union telegraph line, bears N.58°45'E. and S.58°45'W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S27 \| S26<br>1919 |
| | Dig pits, 18x18x12 ins., N. and S. from post, 3 ft.dist. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 22,23,26 and 27, with brass cap marked<br>T21S \| R19E<br>S22 \| S23<br>S27 \| S26<br>1919 |
| | Dig pits, 18x18x12 ins., in each sec., 5½ ft. distant from cor. |
| | Land, gently rolling; drains S. |
| | Soil, hard, dry, blue clay and sand. |
| | Undergrowth, salt sage, greasewood and grass. No timber. |
| | S.89°57'E., on a random line bet. secs. 23 and 26. |
| 40.00 | Set temp. ½ sec. cor. |
| 80.02 | Intersect N. and S. line 7 lks. S. of the cor. of secs. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | 23,24,25 and 26. |
| | Thence |
| | West, on true line bet. secs. 23 and 26. |
| | Over rolling land through salt sage and grass undergrowth. |
| 40.01 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S23 \| S26<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 80.02 | The cor. of secs. 22,23,26 and 27. |
| | Land, rolling, drains S. |
| | Soil, hard, dry clay and sandy loam. |
| | Undergrowth, salt sage and grass. |
| | No timber. |
| | N.0°04'E., bet. secs. 22 and 23. |
| | Over rolling land, through shadscale and grass undergrowth. |
| 35.00 | Foot of mesa, bears NE. and S.70°W.; ascend over steep, rocky slope 60 ft. to |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S22 \| S23<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Precipitous ascent over slope of mesa with high ledge at top impossible to chain, I triangulate as follows: |
| | Return to point 30.00 chs. N.0°04'E. of cor. of secs. 22,23,26 and 27 which I designate "A" and set point "B" on line N.0°04'E. on top of mesa, then, measure base line AC, N.89°56'W., 15.00 chs. The line BC bears N.31°36'E. All bearings taken by direct reading of the solar and angles checked by deflection. |

SUBDIVISION OF T.21 S.,R.19 E.

CHAINS




Distance by triangulation = 24.38 chs., which added to 30.00 chs. makes —

54.38 Top of ledge and mesa, 700 ft. above ¼ sec. cor., bears E. and W.; thence over rolling mesa through cedar and pinon timber.

79.10. Brink of gulch, bears E. and W.; descend abruptly 50 ft. over ledge onto shelf.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 4 ins. in the ground on solid rock and 20 ins. in a large mound stone for cor. of secs. 14,15,22 and 23, with brass cap marked

| | |
|---|---|
| T21S<br>S15 | R19E<br>S14 |
| S22 | S23 |

1919

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

No suitable trees available.

Land, S. 35 chs., rolling; N.45 chs. rough slopes and broken mesa.; general S. exposure and drainage.

Soil, S. 35 chs., sandy loam and hard, dry, blue clay; N.45 chs., coarse sandy loam, blue clay and sandstone boulders.

Timber, scattering scrub cedar and pinon on N. 25.62 chs

Undergrowth, salt sage and grass.

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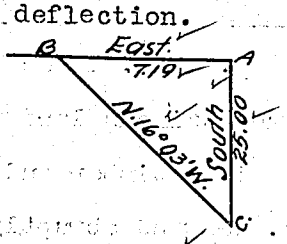
East, on a random line bet. secs. 14 and 23.

40.00 Set temp. ¼ sec. cor.

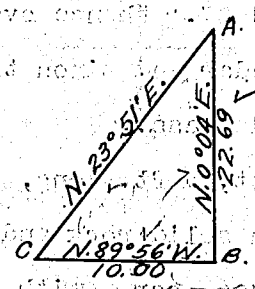
78.91 Precipitous descent over high ledges, down which I cannot chain; triangulate as follows:

Set flag "A" east on N. and S. sec. line at point 5 lks. N.of the cor. of secs. 13,14,23 and 24 and erect flag "B" at this point, then, from "A", measure base line AC, south, 25.00 chs. The line BC, bears N.16°03'W.

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | All bearings taken by direct reading of the solar and angles checked by deflection. |
| |   |
| | Distance by triangulation = 7.19 chs., which added to 72.91 chs. makes. |
| 80.10 | Intersect N. and S. line 5 lks. N. of the cor. of secs. 13,14,23 and 24. |
| | Thence |
| | N.89°58'W., on true line bet. secs. 14 and 23. |
| | Over rough break of mesa ascending abruptly over sandstone ledges. |
| 7.19 | Top of ledge and brink of mesa at point of triangulation, bears NE. and SW.; thence over rolling mesa through scattering cedar and pinon timber and undergrowth of shadscale and grass. |
| 40.05 | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked $\frac{1}{4}\ \frac{S14}{S23}$ 1919 |
| | from which |
| | A pinon, 8 ins.diam.,bears S.24½°W., 44 lks. dist.,marked ¼ S 23 B T |
| | A pinon, 10 ins.diam.,bears N.47°W., 63 lks. dist.,marked ¼ S 14 B T |
| 64.70 | Brink of mesa, bears N.70°E. and S.70°W.; descend along rough slope. |
| 77.45 | Gulch, 100 ft. below brink of mesa, drains N.; ascend abruptly 100 ft. to |
| 80.10 | The cor. of secs. 14,15,22 and 23. |
| | Land, rolling mesa, broken by gulches and steep slopes. |
| | Soil, shallow sandy loam and sandstone rock. |
| | Timber, scattering scrub cedar and pinon. |

| CHAINS | |
|---|---|
| | Undergrowth, scattering shadscale and grass. |
| | N.0°04'E., bet. secs. 14 and 15. |
| | Over rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. Descend abruptly over rough and broken slope of mesa. |
| 23.50 | Gulch, 300 ft. below cor., drains W.; abrupt ascent rough slope over ledges impracticable to chain, triangulate as follows: |
| | Return to point 12.00 chs. on this line and set flag "A" on line N.0°04'E., designate this point "B" and measure base line N.89°56'W., 10.00 chs. to point "C". The line AC bears N.23°51'E. All bearings taken by direct reading of the solar and angles checked by deflection. |




| | |
|---|---|
| | Distance by triangulation = 22.69 chs. which added to 12.00 chs. makes |
| 34.69 | To point of triangulation on top of gulch, 350 ft. above bottom, bears E. and W.; thence over rolling and broken mesa. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

¼
S15 | S14
1919

from which

A pinon, 10 ins.diam.,bears S.80½°E., 15 lks. dist.,marked ¼ S.14 B T

A pinon, 8 ins.diam.,bears S.56¼°W., 71 lks. dist.,marked ¼ S 15 B T

| | |
|---|---|
| 50.40 | Brink of ravine, bears NE. and SW.; descend. |
| 61.70 | Ravine, 65 ft. deep, drains SW.; ascend. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 67.60 | Top of ravine, bears NE. and SW.; thence over rolling mesa. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 10,11, 14 and 15, with brass cap marked |

| T21S \| R19E | |
|---|---|
| S10 | S11 |
| S15 | S14 |

1919

from which

A cedar, 8 ins.diam.,bears N.53¾°E., 260 lks. dist.,marked T 21 S R 19 E S 11 B T

A cedar, 6 ins.diam.,bears S.69½°E., 177 lks. dist.,marked T 21 S R 19 E S 14 B T

A cedar, 10 ins.diam.,bears S.3¼°W., 223 lks. dist.,marked T 21 S R 19 E S 15 B T

A cedar, 12 ins.diam.,bears N.29¾°W., 408 lks. dist.,marked T 21 S R 19 E S 10 B T

Land, high mesa broken by steep slopes of ravines and gulches.

Soil, shallow sandy loam, clay and loose sandstone rock.

Timber, scattering scrub cedar and pinon.

Undergrowth, shadscale and grass.

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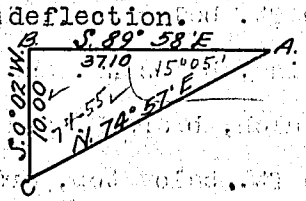
S.89°58'E., on a random line bet. secs. 11 and 14.

40.00 Set temp. ¼ sec. cor.

The line E. passes over high ledges, therefore triangulate as follows:

Set flag "A" on line S.89°58'E., designate temp. ¼ sec. cor. "B"., then measure base line S.0°02'W., 10.00 chs. to point "C". The line AC bears N.74°57'E. All bearings taken by direct reading of the solar and angles checked by deflection.



SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Distance by triangulation = 37.10 chs. |
| | Total distance on random line = 77.10 chs. |
| 80.14 | Intersect N. and S. line 14 lks. S. of the cor. of secs. 11,12,13 and 14. |
| | Thence |
| | S.89°56'W., on true line bet. secs. 11 and 14. |
| | Over rough mountainous land through very scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. Ascend E. slope of ridge. |
| 3.04 | Top of ridge and point of triangulation, 125 ft. above sec. cor., bears N. and S.; descend abruptly over steep slope broken by ledges 730 ft. to |
| 40.07 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S11 / S14 / 1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 46.35 | Wash, 15 lks. wide, 6 ft. deep, 50 ft. below ¼ sec. cor. drains NW.; thence over rolling bench. |
| 55.45 | Wash, 25 lks. wide, 10 ft. deep, drains N. |
| 80.14 | The cor. of secs. 10,11,14 and 15. |
| | Land, mountainous; rough and broken by sandstone ledges. |
| | Soil, sandy loam, hard, blue clay and loose rock of sandstone formation. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | N.0°04'E., bet. secs. 10 and 11. |
| | Over rolling bench land, through scattering cedar and pinon timber and undergrowth of shadscale and grass. |
| 14.00 | Brink of ravine, bears N.60°W. and SE.; descend. |
| 19.10 | Ravine, 70 ft. below cor., drains N.60°W.; ascend. |
| 22.45 | Top of ravine, bears NW. and SE. |
| 26.40 | Brink of gulch, bears E. and W.; descend. |
| 33.90 | Ravine, 85 ft. below top, drains W.; ascend. |

| CHAINS | |
|---|---|
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼<br>S10 \| S11<br>1919<br>from which<br>A pinon, 10 ins.diam.,bears N.51½°E., 63 lks. dist.,marked ¼ S 11 B T<br>A cedar, 8 ins.diam.,bears N.71½°W., 46 lks. dist.,marked ¼ S 10 B T |
| 41.00 | Top of ravine, bears E. and W. |
| 46.00 | Brink of gulch, bears N.70°W. and SE.; descend. |
| 53.10 | Bottom of gulch, 100 ft. below top, drains N.70°W.; ascend. |
| 63.24 | Top of gulch, bears E. and W. |
| 80.00 | Point for cor. of secs.2,3,10 and 11 falls on surface rock, mark X for exact corner point and over same:<br>Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a large mound of stone for cor. of secs. 2,3,10 and 11, with brass cap marked<br>T21S \| R19E<br>S3 \| S2<br>S10 \| S11<br>1919<br>from which<br>A cedar, 8 ins.diam.,bears N.59½°E., 47 lks. dist.,marked T 21 S R 19 E S 2 B T<br>A cedar, 6 ins.diam.,bears S.55°W., 5 lks. dist.,marked T 21 S R 19 E S 10 B T<br>No other trees available.<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.<br>Land, rolling bench, broken by ravines and gulches.<br>Soil, sandy loam and clay with loose sandstone rock.<br>Timber, scattering scrub cedar and pinon.<br>Undergrowth, shadscale and grass. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | N.89°56'E., on a random line bet. 2 and 11. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.02 | Intersect the cor. of secs. 1,2,11 and 12. |
| | Thence |
| | S.89°56'W., on true line bet. secs. 2 and 11. |
| | Over rolling bench land through scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. |
| 15.50 | Wash, 45 lks. wide, 10 ft. deep, drains SW. |
| 28.30 | Same wash, drains NW. |
| 40.01 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S2 / S11<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 64.10 | Same wash, drains W. |
| 70.00 | Leave wash, turns NW. |
| 80.02 | The cor. of secs. 2,3,10 and 11. |
| | Land, rolling bench, broken by numerous washes draining west. |
| | Soil, sandy loam and loose sandstone rock. |
| | Timber, few scattering cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | N.0°04'E., on true line bet. secs. 2 and 3 |
| | Descend over mountainous land through sagebrush and grass undergrowth; very scattering scrub cedar and pinon timber. |
| 7.60 | Ravine, 70 ft. below sec. cor., drains W.; ascend. |
| 7.75 | Coal vein, 3 ft. thick, bears E. and W. |
| 18.00 | Top of ravine, 70 ft. above bottom, bears E. and W.; gradually descend. |
| 36.25 | Ravine, 60 ft. deep, drains SW.; ascend. |
| 40.00 | Top of spur, 50 ft. above ravine, projects SW. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in |

| CHAINS | |
|---|---|
| | the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked |
| | S3 \| S2<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| | Descend. |
| 43.45 | Intersect 4th. Standard Parallel South, 6.05 chs. east of the standard cor. of secs. 34 and 35 heretofore described. At intersection: |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 2 and 3, with brass cap marked |
| | T20SR19E<br>S35<br>S3 \| S2<br>CC<br>T21S<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. |
| | Land, rolling mesa, broken by ravines. |
| | Soil, dry, coarse sandy loam and gravel; sandstone formation. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, sagebrush and grass. |
| | --- |
| | From the cor. of secs. 3,4,33 and 34 on the S. bdy. of the tp. heretofore described. |
| | N.0°03'E., bet. secs. 33 and 34. |
| | Over level desert land through undergrowth of salt sage, greasewood and grass. |
| 5.50 | Road, bears N.5°W. and S.5°E. |
| 10.00 | Telephone line, bears N.5°W. and S.5°E. |
| 30.00 | Telephone line bears N. 71° 30' E. and S. 71°30' W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

SUBDIVISION OF T.21 S., R.19 E.

| CHAINS | |
|---|---|
| | S33 \| S34 (¼) |
| | 1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor |
| 56.00 | Road, Crescent to Thompsons, Utah, bears N.73° E. & S.73° |
| 58.60 | Main Line D.& R.G.Ry. tracks, bears N.58°45'E. and S.58°45'W. |
| 59.20 | Western Union telegraph line, bears N.58°45'E. and S.58°45'W. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 27,28,33 and 34, with brass cap marked |
| | T21S \| R19E<br>S28 \| S27<br>S33 \| S34<br>1919 |
| | Dig pits, 18x18x12 ins., in each sec., 5½ ft. distant from cor. |
| | From this cor. bench mark No.61, U. S. Geological Survey elevation 4998 ft. above sea, bears S.8°50'E., 19.30 chs. distant. |
| | NE. cor. of Cora and Laura Wimmer's 5 room lumber house, bears S.11°40'E. |
| | D.& R.G.Ry. water tank at Cresecnt, Utah, bears S.59°45'E. |
| | Land, nearly level; drains S. |
| | Soil, sandy loam and blue clay. |
| | Undergrowth, salt sage, greasewood and grass. |
| | No timber. |
| | S.89°56'E., on a random line bet. secs. 27 and 34. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.94 | Intersect N. and S. line 5 lks. S. of the cor. of secs. 26,27,34 and 35. |
| | Thence N.89°58'W., on true line bet. secs. 27 and 34. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Over gently rolling land through undergrowth of salt sage, greasewood and grass. |
| 11.85 | Road, Thompsons to Crescent, Utah, bears N.80°E. and S.80°W. |
| 15.75 | Wash, drains S.10°E. |
| 39.97 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S27 / S34 / 1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 44.15 | Main line D.& R.G.Ry. tracks, bears N.58°45'E. and S.58°45'W. |
| 45.55 | Western Union telegraph line, bears N.58°45'E. and S.58°45'W. |
| 64.94 | From this point water tank of D.& R.G.Ry. at Crescent, Utah, bears S.18°05'E.<br>NE. cor. of Cora and Laura Wimmer's house, bears S.25°10'W. |
| 77.00 | Road, Cresent, Utah to coal mine, bears N.10°W. and S.10°E. |
| 79.94 | The cor. of secs. 27,28,33 and 34.<br>Land, gently rolling; drains S.<br>Soil, sandy loam.<br>Undergrowth, salt sage, greasewood and grass.<br>No timber. |

N.0°03'E., bet. secs. 27 and 28.

Over rolling desert land, through undergrowth of salt sage, greasewood and grass.

| | |
|---|---|
| 3.50 | Road, Crescent, Utah to coal mine, bears N.5°E. and S.5°E. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S28 / S27 / 1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 21,22,27 and 28, with brass cap marked<br>T21S \| R19E<br>S21 \| S22<br>S28 \| S27<br>1919 |
| | Dig pits, 18x18x12 ins., in each sec., 5½ ft. distant from cor. |
| | Land, rolling,desert, drains S. |
| | Soil, hard, dry, blue clay and sand. |
| | Undergrowth, salt sage, greasewood and grass. |
| | No timber. |
| | S.89°58'E., on a random line bet. secs. 22 and 27. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.92 | Intersect N. and S. line l'lk. S. of the cor. of secs. 22,23,26 and 27. |
| | Thence. |
| | N.89°58'W., on true line bet. secs. 22 and 27. |
| | Over rolling land through salt sage and grass undergrowth |
| 39.96 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S22/S27<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 79.15 | Road, Crescent,Utah to coal mine, bears N.10°W. and S,10°E. |
| 79.92 | The cor. of secs. 21,22,27 and 28. |
| | Land, rolling, drains S. |
| | Soil, sandy loam and hard, dry, blue clay. |
| | Undergrowth, salt sage and grass. |
| | No timber. |
| | N.0°03'E., bet. secs. 21 and 22. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Over rolling land through salt sage and grass undergrowth. |
| 2.80 | Road, Crescent,Utah to coal mine, bears N.10°W. and S.10°E. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>½<br>S21 \| S22<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 15,16,21 and 22, with brass cap marked<br>T21S \| R19E<br>S16 \| S15<br>S21 \| S22<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rolling; drains S. |
| | Soil, hard, dry, blue clay and sandy loam. |
| | Undergrowth, salt sage and grass. |
| | No timber. |
| | S.89°58'E., on a random line bet. secs. 15 and 22. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.98 | Intersect N. and S. line 3 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 mountainous land, through very scattering cedar and pinon timber and undergrowth of shadscale and grass. |
| | Descend over rough and boulder strewn slope of mesa. |
| 39.99 | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked |

| CHAINS | |
|---|---|
| | $\frac{1}{4}$ $\frac{S15}{S22}$ 1919 ✓ |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 50.00 | Ravine, 170 ft. below sec. cor., drains N.; ascend. |
| 61.05 | Spur, 110 ft. above ravine, projects N.30°W.; descend abruptly over slope of canyon. |
| 79.98 | The cor. of secs. 15,16,21 and 22 in edge of canyon bott 350 ft. below spur. |
| | Land, mountainous, rough and broken slopes of mesa and canyon. |
| | Soil, coarse sandy loam, hard blue clay and sandstone rock. Surface strewn with boulders. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | N.0°03'E., bet. secs. 15 and 16. |
| | Over rolling clay hills in bottom of large canyon, through undergrowth of shadscale and grass. Ascend. |
| 3.90 | Top of knoll, 35 ft. above cor.; descend. |
| 13.85 | Wash, 15 lks. wide,5 ft. deep, drains S.15°W.; gradually ascend. |
| 18.80 | Low clay ridge, bears NE. and SW. |
| 26.10 | Bottom of main canyon wash, 45 lks. wide, 20 ft. deep, at bend, course from the NW. to S.20°W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked $\frac{S16 \mid S15}{1919}$ ✓ |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 68.45 | Same canyon wash, drains SW.; ascend over boulder strewn slope of canyon. |
| 79.85 | Top of canyon, 370 ft. above wash, bears NE. and SW. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in |

CHAINS

the ground on solid rock and 18 ins. in a large mound of stone for cor. of secs. 9,10,15 and 16, with brass cap marked

| T21S \| R19E |
|---|
| S9 \| S10 |
| S16 \| S15 |

1919

from which

A pinon, 12 ins.diam.,bears S.80½°W., 240 lks. dist.,marked T 21 S R 19 E S 16 B T

A cedar, 8 ins.diam.,bears N.61°W., 80 lks. dist.,marked T 21 S R 19 E S 9 B T

No other trees available.

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

Land, rolling clay hills and rough slopes of canyon; drainage S.

Soil, coarse sandy loam, hard, dry blue clay and sandstone rock. Surface strewn with large boulders.

Timber, a few scattering scrub cedar and pinon.

Undergrowth, salt sage and grass.

---

S.89°57'E., on a random line bet. secs. 10 and 15.

40.00 Set temp. ¼ sec. cor.

80.06 Intersect N. and S. line 5 lks. S. of the cor. of secs. 10,11,14 and 15.

Thence

N.89°59'W., on true line bet. secs. 10 and 15.

Over rolling mesa through very scattering scrub cedar and pinon timber and undergrowth of sagebrush and grass.

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

| S10 |
|---|
| ¼ \| S15 |

1919

from which

A pinon, 12 ins.diam.,bears N.14½°E., 124 lks. dist., marked ¼ S 10 B T

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | A cedar, 8 ins.diam.,bears S.5½°W., 96 lks. dist.,marked ¼ S 15 B T. |
| 45.00 | Brink of canyon, bears N. and S.; descend abruptly over ledges. |
| 58.70 | Wash, 1 ch. wide, 6 ft. deep, in canyon, 275 ft. below brink, drains S.15°W.; thence over level bottom of can |
| 68.20 | Wash, 15 lks. wide, 3 ft. deep, drains SE.; ascend rough slope over sandstone ledges. |
| 79.90 | Top of canyon, 325 ft. above bottom, bears N.15°E. and SW. |
| 80.06 | The cor. of secs. 9,10,15 and 16. |
| | Land, rolling mesa on E.½ mile and rough canyon on W.½ mile. |
| | Soil, shallow sandy loam; W.½ mile slopes strewn with sandstone boulders. |
| | Timber, very scattering scrub cedar and pinon. |
| | Undergrowth, sagebrush and grass. |
| | N.0°03'E., bet. secs. 9 and 10. |
| | Over rolling mesa, through scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. |
| 6.00 | Brink of mesa, bears NW. and SE.; descend abruptly over sandstone ledges. |
| 16.15 | Gulch, 280 ft. below brink, drains SE.; ascend along W. slope of gulch. |
| 30.55 | Top of ascent on W. slope of gulch; thence on near level line. |
| 35.25 | Gulch, drains SW. |
| 38.85 | Same gulch, drains SE. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ½ sec. cor., with brass cap marked |

$$\frac{\frac{1}{4}}{S9 \mid S10}$$

1919

from which

A cedar, 8 ins.diam.,bears S.51°E., 35 lks. dist.,marked ¼ S 10 B T

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | A cedar, 12 ins.diam.,bears N.15½°W., 20 lks. dist.,marked ¼ S 9 B T |
| 43.95 | Leave slopes of gulch; thence over rolling ground. |
| 60.00 | Foot of ridge, bears E. and W.; ascend abruptly over sandstone ledges. |
| 66.40 | Rocky ridge, 205 ft. above foot, bears E. and W.; thence over broken and rocky bench. |
| 77.60 | Brink of bench, bears NE. and SW.; descend abruptly 65 ft. to |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 3,4,9 and 10, with brass cap marked<br>T21S \| R19E<br>S4 \| S3<br>S9 \| S10<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W of cor.<br>No suitable trees are available. |
| | Land, mountainous, very rough and broken. Sandstone formation. Southerly drainage. |
| | Soil, sandy loam and loose sandstone rock. |
| | Timber, scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | S.89°59'E., on a random line bet. secs. 3 and 10. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.12 | Intersect N. and S. line 11 lks. S. of the cor. of secs. 2,3,10 and 11. |
| | Thence |
| | S.89°56'W., on true line bet. secs. 3 and 10. |
| | Over rolling bench, through very scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. |
| 7.05 | Top of canyon, bears N. and S.; descend. |
| 16.30 | Bottom of canyon, 110 ft. below top, drains S. and S.10° W.; road in canyon, Crescent, Utah to coal mine, bears |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | N. and S.10°W. Ascend abruptly over sandstone ledges. |
| 24.20 | Brink of canyon, 90 ft. above bottom, bears N. and SW.; thence over rolling bench. |
| 40.06 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S3 / S10 / 1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.<br>No suitable trees are available. |
| 46.75 | Wash, 30 lks. wide, 5 ft. deep, at foot of ridge, drains S.30°E.; ascend abruptly over sandstone ledges. |
| 63.00 | Ridge, 400 ft. above wash, bears N. and S.; descend over rough and rocky slope, 120 ft. to |
| 80.12 | The cor. of secs. 3,4,9 and 10. |
| | Land, mountainous; rough and broken. Sandstone formation. |
| | Soil, sandy loam, hard blue clay and sandstone rock. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | N.0°03'E., on true line bet. secs. 3 and 4. |
| | Over mountainous land through shadscale and grass undergrowth and very scattering cedar and pinon timber. |
| | Descend. |
| 9.90 | Ravine, 70 ft. below cor., drains W.; ascend over rough and broken ground. |
| 30.39 | Coal vein, 2 ft. thick, extends 1 ch. E. and 2 chs. W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S4 \| S3 / 1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 43.62 | Intersect 4th. Standard Parallel South 5.78 chs. East of the standard cor. of secs. 33 and 34 heretofore described. |

| CHAINS | |
|---|---|
| | At intersection: |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 3 and 4, with brass cap marked |
| | T20SR19E<br>S3 \| S4<br>S3 \| S4<br>CC<br>T21S<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. |
| | Cor. established 260 ft. above ravine. |
| | Land, rough and broken mountains. |
| | Soil, coarse sandy loam and loose sandstone rock. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | From the cor. of secs. 4,5,32 and 33 on the S. bdy. of the tp. heretofore described. |
| | N.0°02'E., bet. secs. 32 and 33. |
| | Over rolling clay hills through undergrowth of shadscale and grass. Ascend. |
| 6.65 | Top of ascent, 40 ft. above cor., bears E. and W.; desc. |
| 16.20 | Road, bears E. and W., also base of descent. Ascend. |
| 20.63 | Telehone line, Greenriver to Thompsons, Utah, bears N.85°E. and S.85°W. |
| 23.95 | Main line D. & R.G.Ry. track, bears N. 85°E. and S.85°W. |
| 24.70 | Western Union telegraph line, bears N.85°E. and S.85°W. |
| 32.00 | Point of spur, 60 ft. high, projects W.; descend. |
| 39.00 | Ravine, 40 ft. deep, drains SW.; ascend. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼<br>S32 \| S33<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 44.00 | Top of bench, 60 ft. above ravine, bears NE. and SW.; thence across bench. |
| 70.10 | Brink of bench, bears NE. and W.; descend. |
| 72.45 | Bottom of ravine, 50 ft. below bench, drains SW.; ascend. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 28,29,32 and 33, with brass cap marked<br>T21S \| R19E<br>S29 \| S28<br>S32 \| S33<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rolling clay hills and bench. |
| | Soil, hard, dry, blue clay and sandy loam. Considerable loose sandstone rock. |
| | Timber, none. |
| | Undergrowth, shadscale and grass. |
| | S.89°55'E., on a random line bet. secs. 28 and 33. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.06 | Intersect N. and S. line 14 lks. S. of the cor. of secs. 27,28,33 and 34. |
| | Thence |
| | S.89°59'W., on true line bet. secs. 28 and 33. |
| | Over rolling desert land, through undergrowth of shadscale greasewood and grass. |
| 18.65 | Wash, 60 lks. wide, 6 ft. deep, drains SW. |
| 40.03 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ \| S28<br>S33<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 55.05 | Foot of bench, bears NE. and S.; ascend. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 57.05 | Top of bench, 20 ft. above foot, bears NE. and S.; gradually descend. |
| 69.00 | Ravine, drains SW.; ascend 35 ft. to |
| 80.06 | The cor. of secs. 28,29,32 and 33. |
| | Land, rolling; drains S. |
| | Soil, dry, sandy loam. |
| | Undergrowth, shadscale, greasewood and grass. |
| | No timber. |
| | N.0°02'E., bet. secs. 28 and 29. |
| | Over rolling bench land through undergrowth of salt sage, greasewood and grass. |
| 18.00 | Head of ravine, drains SW. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S29 \| S28<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 20,21,28 and 29, with brass cap marked<br>T21S \| R19E<br>S20 \| S21<br>S29 \| S28<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rolling; drains S. |
| | Soil, sandy loam and blue clay, hard and dry. |
| | Undergrowth, salt sage, greasewood and grass. |
| | No timber. |
| | N.89°59'E., on a random line bet. secs. 21 and 28. |
| 40.00 | Set temp. ¼ sec. cor. |

SUBDIVISION OF T.21 S.,R.19 E.

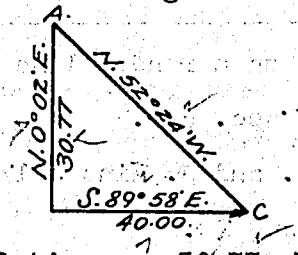
| CHAINS | |
|---|---|
| 80.02 | Intersect the cor. of secs. 21,22,27 and 28. |
| | Thence |
| | S.89°59'W., on true line bet. secs. 21 and 28. |
| | Over rolling land through undergrowth of shadscale and grass. |
| 3.20 | Wash, 1 ch. wide, 4 ft. deep, drains SW. at bend from NW. |
| 29.50 | Foot of bench, bears N. and S.; ascend. |
| 34.25 | Top of bench, bears N. and S. |
| 40.01 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S21 / S28<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 42.10 | Wash, 10 lks. wide, 3 ft. deep, drains SW. |
| 80.02 | The cor. of secs. 20,21,28 and 29. |
| | Land, rolling; drains S. |
| | Soil, sandy loam and hard, dry, blue clay. |
| | Undergrowth, shadscale and grass. |
| | No timber. |
| | N.0°02'E., bet. secs. 20 and 21. |
| | Over rolling bench, through shadscale and grass undergrowth. |
| 33.00 | Brink of bench, bears NE. and SW.; descend. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S20 \| S21<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 40.50 | Wash, in ravine, 15 lks. wide, 3 ft. deep, 30 ft. below brink, drains SW. |
| 67.60 | Wash, 20 lks. wide, 6 ft. deep, drains S.30°E. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 71.00 | Same wash, drains SW. |
| 79.10 | Same wash, drains SE. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 16,17,20 and 21, with brass cap marked<br>T21S \| R19E<br>S17 \| S16<br>S20 \| S21<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.<br>Land, rolling bench.<br>Soil, hard, dry, blue clay and sandy loam.<br>Undergrowth, shadscale and grass.<br>No timber. |
| | N.89°59'E., on a random line bet. secs. 16 and 21. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.12 | Intersect N. and S. line 5 lks. N. of the cor. of secs. 15,16,21 and 22. |
| | Thence |
| | N.89°59'W., on true line bet. secs. 16 and 21. |
| | Over rolling land through undergrowth of shadscale and grass. |
| 10.60 | Road, Crescent,Utah to coal mine, bears N. and S. |
| 15.50 | Wash, 1 ch. wide, 10 ft. deep, drains S.10°W.; ascend. |
| 29.10 | Top of low bench, 40 ft. above wash, bears N. and S. |
| 40.06 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S16 / S21<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 54.80 | Wash, 15 lks. wide, 4 ft. deep, drains S. |
| 68.80 | Wash, 15 lks. wide, 5 ft. deep, drains S. |
| 80.12 | The cor. of secs. 16,17,20 and 21. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Land, rolling; broken by washes draining S. |
| | Soil, hard, dry, blue clay and sandy loam. |
| | Undergrowth, shadscale and grass. |
| | No timber. |
| | N.0°02'E., bet. secs. 16 and 17. |
| | Over rolling land through shadscale and grass undergrowth |
| 10.00 | Foot of rocky mesa, bears E. and W. Precipitous ascent over ledges and boulders up which it is impracticable to chain, therefore triangulate as follows: |
| | From cor. of secs. 16,17,20 and 21 set flag "A" N.0°02'E on line on top of mesa, then measure base line from sec. cor., S.89°58'E., 40.00 chs. to point "C". The line AC bears N.52°24'W. All bearings taken by direct reading of the solar and angles checked by deflection. |




| | |
|---|---|
| | Distance by triangulation = 30.77 chs. |
| 30.77 | Top of mesa, 400 ft. above foot, bears E. and W.; thence over broken ground through cedar and pinon timber. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked |

¼

S17 | S16

1919

from which

A pinon, 6 ins.diam.,bears S.88°E., 60 lks. dist.,marked ¼ S 16 B T

A pinon, 10 ins.diam.,bears N.54°W., 11 lks. dist.,marked ¼ S 17 B T

| | |
|---|---|
| 67.90 | Brink of mesa, bears NW. and SE.; descend abruptly. |
| 73.50 | Gulch, 190 ft. below brink, drains SE.; ascend abruptly. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 76.60 | Top of gulch, bears NW. and SE. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 8,9,16 and 17, with brass cap marked |

T21S | R19E
S8 | S9
S17 | S16

1919

from which

A cedar, 10 ins.diam.,bears N.27½°E., 110 lks. dist.,marked T 21 S R 19 E S 9 B T

A cedar, 8 ins.diam.,bears S.75½°E., 145 lks. dist.,marked T 21 S R 19 E S 16 B T

A cedar, 6 ins.diam.,bears S.49½°W., 113 lks. dist.,marked T 21 S R 19 E S 17 B T

A cedar, 8 ins.diam.,bears N.48½°W., 155 lks. dist.,marked T 21 S R 19 E S 8 B T

Land, rough mountains and broken mesa.

Soil, sandy loam and hard, dry, blue clay. Surface strewn with loose sandstone rock.

Timber, scattering scrub cedar and pinon.

Undergrowth, shadscale and grass.

---

S.89°59'E., on a random line bet. secs. 9 and 16.

| | |
|---|---|
| 40.00 | Set temp. ¼ sec cor. |
| 80.18 | Intersect N. and S. line 9 lks. N. of the cor. of secs. 9,10,15 and 16. |

Thence

N.89°55'W., on true line bet. secs. 9 and 16.

Over rolling bench, through scattering scrub cedar and pinon timber and undergrowth of shadscale and grass.

| | |
|---|---|
| 40.09 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

¼ S9
S16
1919

from which

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | A cedar, 8 ins.diam.,bears S.34°W., 273 lks. dist.,marked ¼ S 16 B T |
| | A cedar, 10 ins.diam.,bears N.89°W., 413 lks. dist.,marked ¼ S 9 B T |
| 60.80 | Brink of bench, bears N. and S.; descend. |
| 63.05 | Bottom of ravine, 40 ft. deep, drains S.; ascend. |
| 65.80 | Top of ravine and brink of bench, bears NE. and S.; thence over rolling bench. |
| 80.18 | The cor. of secs. 8,9,16 and 17. |
| | Land, high, rolling bench. |
| | Soil, shallow sandy loam and sandstone rock. |
| | Timber, scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | N.0°02'E., bet. secs. 8 and 9. |
| | Over rolling bench land through sage, shadscale and grass undergrowth. |
| 11.00 | Foot of ridge, bears NE. and SW.; ascend over rough slope. |
| 37.90 | Ridge, 240 ft. above sec. cor., bears NE. and S.10°W.; descend. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼<br>S8 \| S9<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 47.75 | Ravine, 65 ft. below ¼ sec. cor., drains S.60°W.; ascend. |
| 59.80 | Point of spur, 160 ft. above ravine, projects W.; descend over rough slope. |
| 68.50 | Ravine, 225 ft. below spur, drains W.; ascend. |
| 72.50 | Top of ascent. Coal outcropping, 2 ft. thick, bears W. 50 lks. distant. Descend. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in |

| CHAINS | |
|---|---|
| | the ground for cor. of secs. 4,5,8 and 9, with brass cap marked |
| | T21S \| R19E<br>S5 \| S4<br>S8 \| S9<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, mountainous, rough and broken by sandstone ledges. |
| | Soil, sandy loam, hard, dry, blue clay and loose sandstone rock. |
| | Undergrowth, sagebrush, shadscale and grass. |
| | No timber. |
| | S.89°55'E., on a random line bet. secs. 4 and 9. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.20 | Intersect N. and S. line 11 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 rough mountainous land through scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. Descend over rough and broken slope. |
| 11.20 | Gulch, 120 ft. below cor., drains S.30°W.; ascend. |
| 19.45 | Top of ascent, 60 ft. above gulch, bears N. and S.; descend. |
| 29.90 | Gulch, 50 ft. below top of ascent, drains S.20°E.; asc. |
| 40.10 | Set an iron post, 3 ft. long, 1 in. in dia., 8 ins. in the ground on solid rock and 18 ins. in a mound of stone for ¼ sec. cor., with brass cap marked |
| | ¼ S4 / S9 / 1919 |
| | from which |
| | A cedar, 6 ins.diam.,bears S.24°E., 64 lks. dist.,marked ¼ S 9 B T |
| | A cedar, 8 ins.diam.,bears N.61°W., 88 lks. dist.,marked ¼ S 4 B T |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 50.00 | Foot of ridge, bears N. and S.; ascend abruptly over sandstone ledges. |
| 63.85 | Ridge, 665 ft. above gulch, bears N. and S.; descend abruptly 225 ft. to |
| 80.20 | The cor. of secs. 4,5,8 and 9. |
| | Land, mountainous, very rough and broken. |
| | Soil, sandy loam and rocky of sandstone formation. |
| | Timber, scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | N.0°02'E., on true line bet. secs. 4 and 5. |
| | Over rough mountainous land through very scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. Ascend rough slope of spur. |
| 2.40 | Spur, 70 ft. above cor., bears E. and W.; descend. |
| 7.00 | Ravine, 225 ft. below spur, drains W.; ascend abruptly. |
| 26.35 | Rocky ridge, 500 ft. above ravine, bears E. and W.; descend abruptly 240 ft. to |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S5 \| S4<br>1919<br>from which<br>A cedar, 12 ins.diam.,bears N.46½°E., 30 lks. dist.,marked ¼ S 4 B T<br>No other trees available.<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 43.37 | Intersect 4th. Standard Parallel South, 5.51 chs. east of the standard cor. of secs. 32 and 33 heretofore described. |
| | At intersection:<br>Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 4 and 5, with brass cap marked |

SUBDIVISION OF T.21 S.,R.19 E.

CHAINS

T20SR19E
S33

S5 | S4
CC
T21S
1919

from which

A cedar, 12 ins.diam.,bears S.66°E., 80 lks. dist.,marked C C T 21 S R 19 E S 4 B T

No other trees available.

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

Land, mountainous, very rough and broken.

Soil, dry, sandy loam and loose sandstone rock.

Timber, a few scattering scrub cedar and pinon.

Undergrowth, shadscale and grass.

---

From the cor. of secs. 5,6,31 and 32 on the S. bdy. of the tp. heretofore described.

N.0°01'E., bet. secs. 31 and 32.

Over rolling clay hills, through shadscale and grass undergrowth.

6.90 Main line D. & R. G. Ry., bears N.70°E. and S.70°W.

7.60 Western Union telegraph line bears N.70°E. and S.70°W.

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

¼
S31 | S32
1919

Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. distant.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 29,30,31 and 32, with brass cap marked

T21S | R19E
S30 | S29
S31 | S32
1919

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

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Land, rolling clay hills, broken by small washes. |
| | Soil, hard, dry blue clay. |
| | Undergrowth, shadscale and grass. |
| | No timber. |
| | S.89°56'E., on a random line bet. secs. 29 and 32. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.96 | Intersect N. and S. line 3 lks. S. of the cor. of secs. 28,29,32 and 33. |
| | Thence |
| | N.89°57'W., on true line bet. secs. 29 and 32. |
| | Over rolling clay hills, through short undergrowth of shadscale and grass. |
| 11.45 | Wash, 10 lks. wide, 2 ft. deep, drains SW. |
| 26.70 | Wash, 20 lks. wide, 3 ft. deep, drains SW. |
| 36.25 | Wash, 50 lks. wide, 8 ft. deep, drains S. |
| 39.98 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S29 / S32 / 1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 49.30 | Wash, 25 lks. wide, 4 ft. deep, drains S. |
| 79.20 | Wash, 20 lks. wide, 3 ft. deep, drains SE. |
| 79.96 | The cor. of secs. 29,30,31 and 32. |
| | Land, rolling bench, broken by numerous small ravines and washes draining S. |
| | Soil, hard, dry, blue clay. |
| | Undergrowth, shadscale and grass. |
| | No timber. |
| | N.89°55'W., on a random line bet. secs. 30 and 31. |
| 40.00 | Set temp. ¼ sec. cor. |
| 95.12 | Intersect W. bdy. of the tp. 10 lks. N. of the cor. of secs. 25,30,31 and 36 heretofore described. |
| | Thence |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | S.89°59'E., on true line bet. secs. 30 and 31. |
| | Over rolling bench land through undergrowth of shadscale and grass. |
| 13.40 | Brink of ravine, bears N. and S.; descend. |
| 18.70 | Bottom of ravine, 90 ft. below top, drains S.; ascend. |
| 26.25. | Top of mesa, 100 ft. above ravine, bears N. and S.; descend over rough and broken slope 500 ft. to |
| 55.12 | Foot of mesa, bears N. and S. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼ S30 / S31 / 1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Thence over rolling ground. |
| 86.60 | Wash, 10 lks. wide, 5 ft. deep, drains N.85°E. |
| 95.12 | The cor. of secs. 29,30,31 and 32. |
| | Land, rolling and broken benches cut by ravines. |
| | Soil, hard, dry, blue clay, sandy loam and sandstone rock. |
| | Undergrowth, shadscale and grass. |
| | No timber. |
| | N.0°01'E., bet. secs. 29 and 30. |
| | Over rolling land through undergrowth of shadscale and grass. |
| .70 | Wash, 20 lks. wide, 3 ft. deep, drains SE. |
| 21.90 | Wash, 10 lks. wide, 4 ft. deep, drains SE. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ½ sec. cor., with brass cap marked |
| | S30 \| ¼ S29 / 1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 60.50 | Wash, 10 lks. wide, 5 ft. deep, drains E. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | the ground for cor. of secs. 19,20,29 and 30, with brass cap marked<br>T21S \| R19E<br>S19 \| S20<br>S30 \| S29<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rolling, cut by small washes draining SE. |
| | Soil, sandy loam, hard, dry, blue clay and sandstone rock |
| | Undergrowth, shadscale and grass. |
| | No timber. |
| | S.89°57'E., on a random line bet. secs. 20 and 29. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.96 | Intersect N. and S. line 3 lks. N. of the cor. of secs. 20,21,28 and 29. |
| | Thence |
| | N.89°56'W., on true line bet. secs. 20 and 29. |
| | Over rolling bench land through short undergrowth of shadscale and grass. |
| 24.55 | Wash, 20 lks. wide, 3 ft. deep, drains S. |
| 39.98 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S20<br>S29<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 58.95 | Ravine, 40 ft. deep, drains SE. |
| 79.96 | The cor. of secs. 19,20,29 and 30. |
| | Land, rolling and broken bench, drains S. |
| | Soil, sandy loam, hard, dry, blue clay and scattering sandstone rock. |
| | Undergrowth, shadscale and grass. |
| | No timber. |

SUBDIVISION OF T.21 S.,R.19 E.

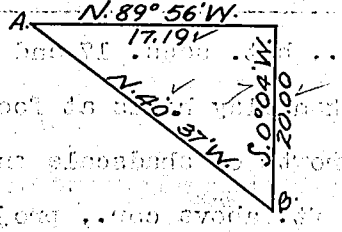
| CHAINS | |
|---|---|
| | N.89°59'W., on a random line bet. secs. 19 and 30. |
| 40.00 | Set temp. ¼ sec. cor. |
| 95.01 | Intersect W. bdy. of the tp. 8 lks. S. of the cor. of secs. 19,24,25 and 30 heretofore described. |
| | Thence |
| | S.89°56'E., on true line bet. secs. 19 and 30. |
| | Over rolling mesa through scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. Gradually ascend. |
| 27.15 | Top of ascent, bears N. and S.; gradually descend. |
| 49.55 | Brink of mesa and leave timber, bears NW. and SE.; descend abruptly over rocky slope. |
| 85.01 | On slope of mesa, 170 ft. below top. Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ 319 / 1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 74.00 | Base of steep descent, bears N. and S.; gradually descend. |
| 83.00 | Wash, 10 lks. wide, 5 ft. deep, drains SE.; foot of mesa, 450 ft. below top, bears N. and S. |
| 95.01 | The cor. of secs. 19,20,29 and 30. |
| | Land, rolling bench on E. 11.21 chs., rolling mesa on W. 40.55 chs. and rough slope of mesa on remainder of mile. |
| | Soil, sandy loam, hard, dry clay and loose sandstone rock. Soil is very shallow on mesa. |
| | Timber, scattering scrub cedar and pinon on mesa. |
| | Undergrowth, shadscale and grass. |
| | N.0°01'E., bet. secs. 19 and 20. |
| | Over rolling bench land through short undergrowth of shadscale and grass. |
| 39.90 | Wash, 10 lks. wide, 4 ft. deep, drains SE. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼<br>S19 \| S20<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 73.60 | Wash, 10 lks. wide, 4 ft. deep, in head of ravine, drains SE. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 17,18,19 and 20, with brass cap marked<br>T21S \| R19E<br>S18 \| S17<br>S19 \| S20<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rolling bench, broken by numerous small washes and ravines draining SE. |
| | Soil, sandy loam, hard, dry, blue clay and loose sandston rock. |
| | Undergrowth, shadscale and grass. |
| | No timber. |
| | S.89°56'E., on a random line bet. secs. 17 and 20. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.92 | Intersect N. and S. line 3 lks. S. of the cor. of secs. 16,17,20 and 21. |
| | Thence |
| | N.89°57'W., on true line bet. secs. 17 and 20. |
| | Over rolling bench land through shadscale and grass undergrowth. |
| 10.00 | Ravine, drains S. |
| 39.96 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | the ground for ½ sec. cor., with brass cap marked ½ S17 / S20 / 1919. |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 42.20 | Ravine, 40 ft. deep, drains SE. |
| 50.70 | Ravine, near head, drains S. |
| 68.10 | Ravine, drains SE. |
| 79.92 | The cor. of secs. 17,18,19 and 20. |
| | Land, rolling bench, broken by small ravines draining S. |
| | Soil, hard, dry, blue clay and sandstone rock. |
| | Undergrowth, shadscale and grass. |
| | No timber. |
| | N.89°56'W., on a random line bet. secs. 18 and 19. |
| | Precipitous ascent over high ledges impossible to chain; triangulate as follows: |
| | From cor. of secs. 17,18,19 and 20 set flag "A", N.89°56'W. near top of mesa, then, measure a base line S.0°04'W., 20.00 chs. to point "B". The line AB bears N.40°37'W. All bearings taken by direct reading of the solar and angles checked by deflection. |




| | |
|---|---|
| | Distance by triangulation = 17.19 chs. |
| 40.00 | Set temp. ½ sec. cor. |
| 95.07 | Intersect W. bdy. of the tp. 13 lks. N. of the cor. of secs. 13,18,19 and 24 heretofore described. |
| | Thence |
| | N.89°59'E., on true line bet. secs. 18 and 19. |
| | Over broken mountainous land through very scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. |
| 29.10 | Gulch, drains NW.; thence along bottom of same. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| 36.60 | Same gulch, drains SW.; ascend. |
| 55.07 | On slope of mesa, 200 ft. above gulch. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼ S18 / S19 / 1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Continue steep ascent over sandstone ledges. |
| 70.35 | Brink of mesa, 525 ft. above ¼ sec. cor., bears NW. and S.; gradually ascend. |
| 75.10 | Top of mesa, bears N. and S.; gradually descend. |
| 77.88 | Point of triangulation on top of ledge and brink of mesa, bears N. and S.; precipitous descent over sandstone ledges and boulders to |
| 95.07 | The cor. of secs. 17,18,19 and 20. |
| | Land, mountainous; very rough and broken by sandstone ledges. |
| | Soil, sandy loam, hard, dry blue clay and sandstone rock. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | N.0°01'E., bet. secs. 17 and 18. |
| | Over broken clay hills at foot of high mesa, through undergrowth of shadscale and grass. |
| 11.05 | Spur, 50 ft. above cor., projects E.; descend. |
| 22.55 | Base of descent in low saddle bet. mesas, 115 ft. below spur, bears NE. and SW.; ascend abruptly over sandstone ledges. |
| 40.00 | At foot of high sandstone ledge, 370 ft. above saddle. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S18 \| S17<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |

SUBDIVISION OF T.21 S.,R.19 E.

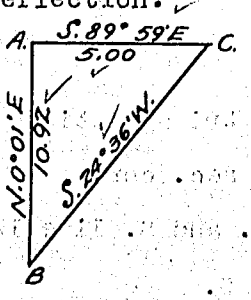
| CHAINS | |
|---|---|
| 41.85 | Top of ledge and brink of mesa, 200 ft. above ¼ sec. cor., bears NW. and SE.; thence over rolling and broken top of mesa through scattering pinon and cedar timber. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 7,8,17 and 18, with brass cap marked<br>T21S \| R19E<br>S7 \| S8<br>S18 \| S17<br>1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | No suitable trees are available. |
| | Land, mountainous and broken top of mesa. |
| | Soil, sandy loam, hard, dry, blue clay and loose sandstone rock. |
| | Timber, scattering scrub pinon and cedar on N. 38.16 chs. |
| | Undergrowth, shadscale and grass. |
| | S.89° 57'E., on a random line bet. secs. 8 and 17. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.90 | Intersect N. and S. line 2 lks. S. of the cor. of secs. 8,9,16 and 17. |
| | Thence |
| | N.89°58'W., on true line bet. secs. 8 and 17. |
| | Over rolling mesa top through scattering scrub cedar and pinon timber and undergrowth of sagebrush and grass. |
| 8.00 | Head of ravine, drains SE. |
| 39.95 | Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock and 8 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼ S8 / S17<br>1919 |
| | from which |
| | A cedar, 8 ins.diam.,bears N.41½°E., 33 lks. dist.,marked ¼ S 8 B.T |

SUBDIVISION OF T.21 S.,R.6 E.

| CHAINS | |
|---|---|
| | A cedar, 6 ins.diam.,bears S.58½°W., 53 lks. dist.,marked ¼ S 17 B T. |
| 67.00 | Head of gulch and wash, 30 lks. wide, 10 ft. deep, drains N. |
| 79.90 | The cor. of secs. 7,8,17 and 18. |
| | Land, rolling mesa, broken by ravines and gulches. |
| | Soil, shallow sandy loam and loose sandstone rock. |
| | Timber, scattering scrub cedar and pinon. |
| | Undergrowth, sagebrush and grass. |
| | S.89° 59'W., on a random line bet. secs. 7 and 18. |
| 40.00 | Set temp. ¼ sec. cor. |
| 95.05 | Intersect W. bdy. of the Tp. 13 lks. S. of the cor. of secs. 7,12,13 and 18 heretofore described. |
| | Thence |
| | S.89°56'E., on true line bet. secs. 7 and 18. |
| | Over mountainous land through undergrowth of shadscale and grass. Descend over rough slope of mesa. |
| 13.00 | Enter bottom of canyon, 110 ft. below cor., bears N.15°E. and S.15°W.; thence over rolling canyon bottom. |
| 26.60 | Wash, 2 chs. wide, 6 ft. deep, stream of water 3 lks. wide, 3 ins. deep in wash, course S.30°W. |
| 49.60 | Leave canyon and enter clay hills, bears N. and SE.; ascend. |
| 55.05 | At foot of rough slope of mesa. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼ S7 / S18 / 1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Ascend abruptly over rough and broken slope. |
| 66.00 | Top of mesa, 500 ft. above ¼ sec. cor., bears N. and S.; thence over nearly level top. |
| 95.05 | The cor. of secs. 7,8,17 and 18. |

SUBDIVISION OF T.21 S.,R.19 E.

| chains | |
|---|---|
| | Land, rough mountains and rolling top of mesa. |
| | Soil, sandy loam, hard, dry, blue clay and sandstone rock. |
| | Undergrowth, shadscale and grass. |
| | No timber. |
| | N.0°01'E., bet. secs. 7 and 8. |
| | Over rolling top of mesa, through scattering cedar and pinon timber and undergrowth of sagebrush and grass. |
| 22.60 | Brink of mesa, bears E. and W.; descend abruptly. |
| 33.55 | Bottom of ravine, 130 ft. below top, drains W.; ascend. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | ¼ S7 \| S8 1919 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | No suitable trees are available. |
| 46.10 | Top of mesa, 100 ft. above ravine, bears E. and W.; thence over broken top. |
| 67.38 | Top of high sandstone ledge and brink of mesa, bears SE. and SW.; precipitous descent over sandstone ledges down which I cannot chain, I therefore triangulate as follows: |
| | From this point set flag "A" in bottom of canyon, N.0°01' E., erect flag at this point which I designate "B". From "A" measure base line S.89°59'E., 5.00 chs. to point "C". The bearing of the line BC is S.24°36'W. All bearings taken by direct reading of the solar and angles checked by deflection. |



SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Distance by triangulation = 10.92 chs. |
| 78.31 | Point of triangulation in bottom of canyon, 260 ft. below brink, course SW.; thence in canyon. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 5,6,7 and 8, with brass cap marked |

T21S | R19E
S6 | S5
S7 | S8

1919

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

No suitable bearing trees are available.

Cor. stands at west side of bottom of canyon.

Land, rolling mesa, rough and broken by deep ravines and canyons.

Soil, shallow sandy loam, dry clay and loose sandstone rock.

Timber, scattering scrub cedar and pinon.

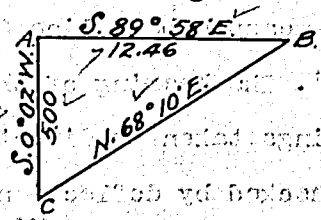
Undergrowth, sagebrush and grass.

---

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

7.00 Abrupt ascent over ledges, triangulate as follows:

From the cor. of secs. 5,6,7 and 8 which I designate "A", set flag "B" S.89°58'E., on top of ledges, then, measure base line AC, S.0°02'W., 5.00 chs. The line BC bears N.68°10'E. All bearings taken by direct reading of the solar and angles checked by deflection.




Distance by triangulation = 12.46 chs.

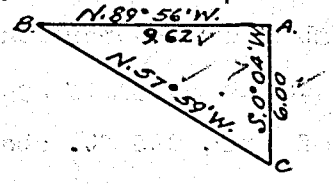
40.00 Set temp. ¼ sec. cor.

79.90 Intersect N. and S. line 19 lks. N. of the cor. of secs. 4,5,8 and 9.

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | Thence |
| | N.89°50'W., on true line bet. secs. 5 and 8. |
| | Over rough mesa land; through scattering scrub cedar and pinon timber and undergrowth of shadscale and grass. |
| | Ascend along S. slope of spur. |
| 26.60 | Enter top of spur, 225 ft. above cor., bears NE. and SW.; thence across top. |
| 39.95 | Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for ¼ sec. cor., with brass cap marked<br>¼ S5 / S 8 / 1919<br>from which |
| | A pinon, 8 ins.diam.,bears S.60½°E., 53 lks. dist.,marked ¼ S 8 B T |
| | A pinon, 6 ins.diam.,bears N.46½°W., 4 lks. dist.,marked ¼ S 5 B T |
| | Descend abruptly over rough slope. |
| 53.40 | Ravine, 330 ft. below ¼ sec. cor., drains NW.; thence over broken land. |
| 67.44 | Point of triangulation on top of ledge and brink of canyon, bears NE. and SW.; descend abruptly. |
| 72.90 | Base of steep descent in edge of canyon bottom, 220 ft. below top, bears NE. and SW.; thence across canyon. |
| 78.40 | Canyon wash, 1 ch. wide, 4 ft. deep, drains S. |
| 79.90 | The cor. of secs. 5,6,7 and 8. |
| | Land, very rough and broken by sandstone ledges. |
| | Soil, sandy loam and sandstone rock. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |
| | N.89°56'W., on a random line bet. secs. 6 and 7. |
| | Abrupt ascent over high sandstone ledges impossible to chain; triangulate as follows: |
| | Designate cor. of secs. 5,6,7 and 8 "A", then set "B" flag N.89°56'W. on top of ledges. Measure base line |

| CHS. LKS | |
|---|---|
| | S.0°04'W., 6.00 chs. The line BC bears N.57°59'W. All bearings taken by direct reading of the solar and angles checked by deflection. |




| | |
|---|---|
| | Distance by triangulation = 9.62 chs. |
| 40.00 | Set temp. ¼ sec. cor. |
| 95.12 | Intersect W. bdy. of the tp. 22 lks. N. of the cor. of se 1,6,7 and 12 heretofore described. |
| | Thence |
| | N.89°56'E., on true line bet. secs. 6 and 7. |
| | Over rolling bench land through very scattering scrub cedar and pinon timber and undergrowth of sagebrush and grass. |
| 40.10 | Wash, drains N.80°E. |
| 44.00 | Brink of ravine, bears NW. and SE.; descend. |
| 55.12 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

$$\frac{1}{4}\ \frac{S6}{S7}\ 1919$$

| | |
|---|---|
| | Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No suitable bearing trees are available. |
| | Continue descent. |
| 64.85 | Bottom of ravine, 255 ft. below top, drains S.; ascend. |
| 71.40 | Top of ravine, bears N. and S.; thence over mesa. |
| 85.50 | Top of canyon and high ledges, also point of triangulatio bears NE. and SW.; descend precipitous slope of mesa 300 ft. to |
| 95.12 | The cor. of secs. 5,6,7 and 8. |
| | Land, rolling mesa broken by ravines and canyon. |
| | Soil, dry sandy loam and loose sandstone rock. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, sagebrush and grass. |

SUBDIVISION OF T.21 S.,R.19 E.

| CHAINS | |
|---|---|
| | N.0°01'E., on true line bet. secs. 5 and 6. |
| | Over mountainous land through undergrowth of shadscale and grass. Ascend rough slope of canyon over boulders and small sandstone ledges. |
| 18.50 | Top of canyom, 300 ft. above cor., bears NE. and SW.; descend. |
| 33.30 | Ravine and wash, 10 lks. wide, 2 ft. deep, 90 ft. below top, drains S.60°E.; thence over rolling land. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>¼<br>S6 \| S5<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 43.00 | Intersect 4th. Standard Parallel South, 5.53 chs. east of the standard cor. of secs. 31 and 32 heretofore described. At intersection: |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 12 ins. in a mound of stone for closing cor. of secs. 5 and 6, with brass cap marked<br>T20SR19E<br>S32<br>S6 \| S5<br>CC<br>T21S<br>1919<br>Raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. |
| | Land, rolling mesa, broken by canyon and ravines. |
| | Soil, dry sandy loam and loose sandstone rock. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, shadscale and grass. |

## BOUNDARIES OF T.21 S.,R.19 E.

### LATITUDES, DEPARTURES AND CLOSING ERRORS.

| Lines designated | | True bearings | Distances | Latitudes N | Latitudes S | Departures E | Departures W |
|---|---|---|---|---|---|---|---|
| W.bdy. | T21SR19E | South | 442.96 | ..... | 442.96 | ..... | ..... |
| S.bdy. | " | S.89°55'E. | 95.00 | ..... | .14 | 95.00 | ..... |
| " | " | S.89°51'E. | 39.92 | ..... | .10 | 39.92 | ..... |
| " | " | East | 40.00 | ..... | ..... | 40.00 | ..... |
| " | " | S.89°52'E. | 40.11 | ..... | .09 | 40.11 | ..... |
| " | " | S.89°59'E. | 40.01 | ..... | .01 | 40.01 | ..... |
| " | " | S.89°56'E. | 79.90 | ..... | .09 | 79.90 | ..... |
| " | " | S.89°56'E. | 80.05 | ..... | .09 | 80.05 | ..... |
| " | " | S.89°56'E. | 80.10 | ..... | .09 | 80.10 | ..... |
| E.bdy | " | N.0°15'E. | 74.62 | 74.62 | ..... | .33 | ..... |
| " | " | N.0°10'E. | 39.99 | 39.99 | ..... | .12 | ..... |
| " | " | North | 40.15 | 40.15 | ..... | ..... | ..... |
| " | " | N.0°15'W. | 39.97 | 39.97 | ..... | ..... | .17 |
| " | " | N.0°11'E. | 40.04 | 40.04 | ..... | .13 | ..... |
| " | " | N.0°13'W. | 40.00 | 40.00 | ..... | ..... | .15 |
| " | " | N.0°10'E. | 80.32 | 80.32 | ..... | .23 | ..... |
| " | " | North | 39.85 | 39.85 | ..... | ..... | ..... |
| " | " | North | 48.75 | 48.75 | ..... | ..... | ..... |
| N.bdy. | " | West | 496.03 | ..... | ..... | ..... | 496.03 |
| Convergency | | | | ..... | ..... | ..... | .54 |
| | | Totals | | 443.69 | 443.57 | 495.90 | 496.89 |
| | | | | 443.57 | | | |
| | | Error in latitude | | .12 | | | 495.90 |
| | | | | | | Error in departure = | 0.99 |

### GENERAL DESCRIPTION T.21 S.,R.19 E.

This township contains two varieties of land, rolling desert and rough, mountainous. With the exception of the west range of secs., the south half of the township comprises the desert land. From the desert the country rises abruptly to high mesas rimmed with sandstone ledge and forms what is called "The Book Cliffs". The tops of these small mesas are very irregular and broken; the slopes are rugged and usually broken by sandstone ledges and strewn with large sandstone boulders. The land in the township in general has a southerly exposure and drainage.

The soil of the desert land is a hard, dry, light blue cl and will produce crops with irrigation. The soil of

slopes of the mesas is also a blue clay, but is mixed with sandstone rock. On top of the mesasiis a shallow, sandy loam, very dry, and mixed with sandstone rock.

Scattering scrub cedar and pinon timber is found on top of the mesas. AA short growth of salt sage, shadscale, sagebrush, and greasewood grows on the entire township.

The only running water found in the township is in secs. 5, 7, and 18; but apparently does not flow the entire year.

The Denver and Rio Grande Railway runs in a northeasterly and westerly direction through the southern part of the township; and has erected a water tank at Crescent Utah, located in Sec.34. The Western Union Telegraph Line parallels the track.

A telephone line, Green River to Thompsons, enters the township on E. bdy.of Sec.30 and extends in a southwesterly direction, leaving the township on S.bdy.of Sec.32.

A branch telephone line extends in a northerly and southerly direction between sections 33 and 34.

Cora and Laura Wimmer live in the W½ of NW¼ of Sec.34 and have erected a five-room lumber house.

There are indications of coal in the Book Cliffs in the N½ of the township. It is probable that large deposits of bituminous coal are covered in the vicinity.

Ralph Gurley
U. S. Cadastral Engineer.

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## FIELD ASSISTANTS.

| NAMES. | CAPACITY. |
|---|---|
| Harry F. Elliott | 1st. chainman |
| Herbert G. Dennis | 2nd. chainman |
| Louis Postma | 2nd. chainman |
| Louis Postma | cornerman |
| Carter Dutton | flagman |
| | |
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6—2764

CADASTRAL ENGINEER

## CERTIFICATE OF UNITED STATES ~~SURVEYOR~~.

I, Ralph Gentry, Cadastral Engineer, 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 22nd. day of July, 1918, 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 of the south and east boundaries, survey of the 4th. Standard Parallel South through Range 19 East, survey of the west boundary and subdivision of T.21 S.,R.19 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented by the foregoing field notes and date diagram on dates shown on diagram; 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 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 such survey.

Certified to at Washington, D.C. this 20th days of April A.D.,1920.

Ralph Gentry
U.S. Cadastral Engineer. ~~U.S. Surveyor~~

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Sept. 27, 1918

The foregoing field notes of the survey of the Fourth Standard Parallel South, through Range No. 19 East; resurvey of the south and east boundaries and survey of the west boundary and subdivisional lines of Township No. 21 South, Range No. 19 East of the Salt Lake Base and Meridian, Utah;

executed by Ralph Gentry

under his special instructions dated July 22, 1918, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys and 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*

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BOOK A-444

C

# FIELD NOTES

U.S. Surveyor General's Office
APR 10 1920
SALT LAKE CITY, UTAH

OF THE ~~SURVEY OF THE~~

RESURVEY AND SURVEY OF WEST BOUNDARY,

RETRACEMENT OF PORTION OF EAST BOUNDARY,

SURVEY OF NORTH BOUNDARY AND

SUBDIVISION OF

TOWNSHIP 30 SOUTH, RANGE 24 EAST.

*Of the* Salt Lake Base and *Meridian,*

*In the State of* UTAH

EXECUTED BY

ANDREW NELSON, U.S. SURVEYOR.

and

CHAUNCEY J. TERRY, U.S. TRANSITMAN.

~~*In the capacity of U.S. Surveyor,*~~ *under instructions dated* May 26, *1919, issued by the United States Surveyor General to govern surveys included in Group No.* 83, *which were approved by the Commissioner of the General Land Office,* June 28, *1919.*

Assignment Instructions dated June 23, 1919

*Survey commenced* August 26, *1919*

*Survey completed* October 3, *1919*

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Examinations Plotted

A Plat F.B.J. Noted K.F.B.

B Computations F.B.J.

C Comparing Plat V.I.F. Noted K.F.B.

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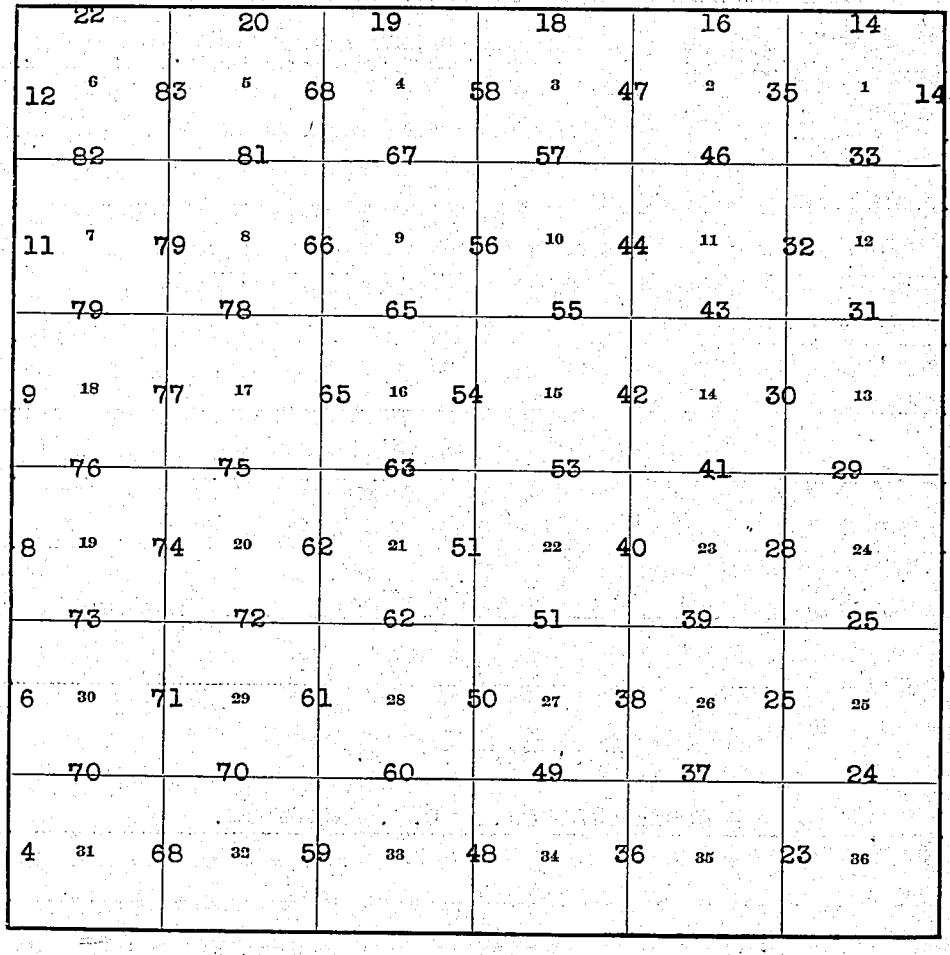
# INDEX DIAGRAM.

*Township* 30 South, *Range* 24 East



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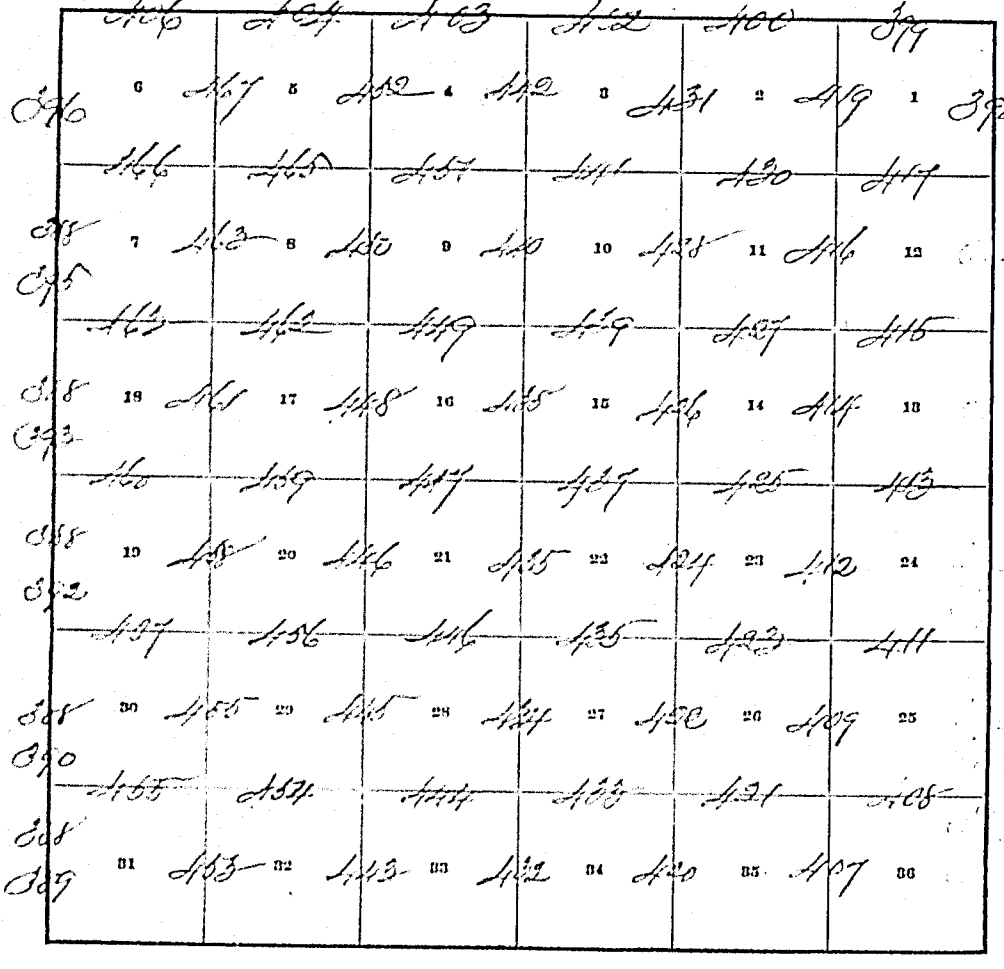
# INDEX DIAGRAM.

Township 30 S, Range 24 E




6—4817

Date Diagram.

## Date Diagram of T. 30 S., R. 24 E.

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

Lines colored and dated in black —— were surveyed by Andrew Nelson, U.S. Surveyor.

Lined colored and dated in red —— were surveyed by Chauncey J. Terry, U.S. Transitman.

Lines colored and dated in red and black ═══ were surveyed jointly by Nelson and Terry.

Test of Instruments.

Survey commenced August 26, 1919, and executed with Young & Sons light mountain transits Nos. 8580 and 8496; instruments are equipt with Smith solar attachment and full vertical circles. The horizontal limbs 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, and the vertical circles.

The instruments were approved by the Assistant Supervisor of Surveys of district No. 6, subject to satisfactory field tests, in assignment instructions dated June 23, 1919.

Aug. 26: At my camp situated near the cor. of secs. 14-15 22 and 23, T.30 S., R.24 E.; approximate latitude 38°13' N.: longitude 109°11' W., at 9h a.m., apparent time, set off 38°13'N. on the lat. arc; 10°39'N. on the decl. arc: and determine a meridian with the solar (transit No. 8496) and set a flag North about 20 chs. distant.

At 9h20m a.m.,app.t., set off 38°13' on the lat. arc; 10°39'N. on the decl. arc; and determine a meridian, with the solar of transit No. 8580 in the above mer., and find that the flag bears N. 0°01'E.

At apparent noon with the telescope in the meridian and elevated to the sun's altitude, I observe the sun's transit for time, noting the watch time of transit of each limb.

Mean watch time of apparent noon = 12h04m0s

Watch fast of local mean time = 02m0s

At approximate apparent noon with both transits in the meridian, set off 38°13' on the lat. arcs: and find the reading of the decl. arcs of both transits to be 10° 39' N.

At 3h 30m p.m.,app.t., with the lat. arcs unchanged, set off 10°33'N. on the decl. arcs and determine meridi with the solars and find that the flag bears North with both transits.

## Test of Instruments.

At the above station, at 9h 18.6m p.m., l.m.t., observe Polaris at eastern elongation, making six observations, three each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a peg driven firmly in the ground, about 20 chs. N.

Azimuth of Polaris at eastern elongation = 1°26'06"

Aug. 27: I lay off the azimuth of Polaris, 1°26', to the west, and mark the meridian thus determined, by a stake driven firmly in the ground, 20 chs. N.

The flag as set by yesterday's a.m. solar observation bears N.0°00'30"E.

As all the solar observations during the usual hours of solar work come within 1'30" of the true meridian, I comclude that the adjustments of the instruments are satisfactory.

The instruments were kept in good adjustments throughout the progress of this survey, being frequently tested on the above Polaris mer.; also other Polaris observations were taken on line during the survey.

## Measurements.

Unless otherwise specified all measurements are made with steel ribbon tapes, 5 and 8 chains long, compared with a Lufkin standard steel tape, 1 chain in length, and found correct. The measurements are made on the slope the vertical angles determined with clinometers, and the distances properly reduced to true horizontal, data of which only appear in these final notes.

Resurvey of East Boundary T. 30 S.,R.23 E.

| Chains | |
|---|---|
| | From the standard cor. of Ts. 30 S., Rs. 23 and 24 E., in approximate latitude 38° 10'N longitude 109° 15' W., hereinafter described; thence |
| | North, on retracement line, along E. bdy. T.30 S.,R.23 E. |
| 40.00 | After a careful search am unable to find any trace of the ¼ cor. of secs. 31 and 36. I continue my line, |
| | failing to find any trace of the old corners until at |
| 240.63 | Intersect the old cor. of secs. 13-18-19 and 24, hereinafter described. |
| | The true course bet. the tp. cor. and the above sec. cor. therefore is North, and the proportionate distance of each mile is 80.21 chs. |
| | From the cor. of secs. 13-18-19 and 24, |
| | North, on retracement line, bet. secs. 13 and 18. |
| 40.00 | No trace of the old ¼ cor. |
| 52.10 | To avoid lone sandstone butte on line, offset East, 2.50 chs. dist., thence North, on offset line 8.90 chs. |
| | Offset back west 2.50 chs. to true line, at |
| 61.00 | Thence North |
| 80.74 | Fall 54 lks. W. of the point for cor. of secs. 7-12-13 and 18, hereinafter described. |
| | Thence from cor. |
| | North, bet. secs. 7 and 12. |
| 40.00 | No trace of the ¼ sec. cor. is found after careful search |
| 80.00 | No trace of the cor. of secs. 1-6-7 and 12. This is end of the old survey. |
| | ---------- |
| | From the standard cor. of Ts. 30 S., Rs. 23 and 24 E., which ia a sandstone, 24x12x6 ins., set in a mound of stone, properly marked and witnessed as described by the surveyor general. |
| | Thence with resurvey line along E. bdy. of T.30 S.,R.23 E. and establishment of ¼ sec. and sec. cors. at regular intervals of 40.00 chs. for W. bdy. of T.30 S., R.24 E. |
| | North, resurveying along E. bdy. of sec. 36. |
| | Over rolling valley land, through few scattered scrub |

Resurvey East Boundary of T.30 S., R.23 E.

| Chains | |
|---|---|
| | cedar and pinon, and short undergrowth; descend gradually over NE. slope, 75 ft. to |
| 15.00 | Ravine, course NE.; thence slightly ascending land facing E. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 31 only, with brass cap marked<br>¼ \| S31<br>1919<br>from which<br>A pinon, 10 ins.diam.,bears N.37½°E., 270 lks. dist.,marked ¼ S31 BT<br>and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. No other suitable tree within limits. |
| 40.10½ | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 36 only, with brass cap marked<br>¼ \| S36<br>1919<br>from which<br>A pinon, 12 ins.diam.,bears S.37¾°W., 148 lks. dist.,marked ¼ S36 BT<br>and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. No other suitable tree within limits. |
| 44.00 | Small ravine, course E. |
| 71.00 | Top of raise, 40 ft. above ravine, bears NE. and SW. desc. gradually. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 30 and 31, T.30 S., R.24 E., with brass cap marked<br>T30S<br>S30 \| S31<br>R24E<br>1919<br>from which<br>A pinon, 8 ins.diam.,bears N.51¾°E., 203 lks. dist.,marked T30S R.24E.S30 BT<br>A pinon, 10 ins.diam.,bears S.34¾°E., 260 lks. dist.,marked T30S R24E S31 BT |

Resurvey East Boundary of T.30 S., R.23 E.

Chains

80.21 Proportionate measurement.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 25 and 36, T.30 S., R.23 E., with brass cap marked

T30S
S25 | S36
R23E
1919

from which

A pinon, 12 ins.diam.,bears S.0¼°W., 320 lks. dist.,marked T30S R23E S36 BT
A pinon, 6 ins.diam.,bears N.38°W., 268 lks. dist.,marked T30S R23E S25 BT

Land, low rolling, having an easterly slope and drainage into Hatch Wash.

Soil, sandy and gravelly loams, with scattered outcrops of sandstone bedrock, and some clay.

Timber, scattering scrub cedar and pinon.

Undergrowth, considerable sagebrush, greasewood and shadscale. Good grazing land.

---

North, resurveying along E. bdy. of sec. 25.

Over rolling land, gradually descending N. slope, through scattered timber and short undergrowth.

24.00 Leave timber, bears E. and SW.

29.10 Wash, 20 lks. wide, 3 ft. deep, in flat or basin, 115 ft. below sec. cor., course E.

39.79 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 30 only, with brass cap marked

¼
S30
1919

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

40.10½ Proportionate measurement.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 25 only, with brass cap marked

Resurvey. East Boundary of T.30 S.,R.23 E.

| Chains | |
|---|---|
| | $\frac{1}{4}$ \| S25 \| 1919 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Ascend over bare sandrock, rim of bench, 65 ft. to |
| 44.80 | Top of bench and leave sandrock, bears SE. and W.; thence over bench to |
| 62.00 | Descend from bench over N. slope, 50 ft. to |
| 66.00 | Enter level bottom land, with heavier undergrowth, bears NW. and SE. |
| 78.90 | S. bank of Hatch or East Canyon Wash, 20 ft. high, bears NW. and SE., wash, drains NW. |
| 79.79 | True point for cor. to secs. 19 and 30, T.30 S., R.24 E. falls in channel of wash, where cor. cannot be perpetuated. No cor. set here. |
| 80.21 | True point for cor. to secs. 24 and 25, T.30 S.,R.23 E., also falls in channel of wash, where cor. cannot be set. |
| 80.80 | N. bank of wash, 20 ft. high, bears NW. and SE. |
| 81.62 | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for witness cor. to secs. 19 and 30, and to secs. 24 and 25, with brass cap marked |

T30S
R23E \| R24E
S24 \| S19
S25 \| S30
WC
1919

dig pits, 18x18x12 ins., NE.- SE.- SW. and NW., of post, 3 ft. dist.

This witness cor. is placed 1.83 chs. N. of true point for cor. of secs. 19 and 30; and 1.41 chs. N. of true point for secs. 24 and 25.

Land, rolling and level; slope and drainage into Hatch Wash, which drains NW.

Soil, clay and sandy loam, with gravel and bare sandrock on bench slopes.

Timber, scattering cedar and pinon, on S. 24 chs.

Resurvey. East Boundary of T.30 S., R.23 E.

| Chains | |
|---|---|
| | Undergrowth, medium dense sagebrush, greasewood and shadscale, heavier in bottom lands. |
| | Good grazing land. |
| | --- |
| | North, resurveying along E. bdy. sec. 24, counting distance from true point for cor. of secs. 24 and 25. |
| | Over rolling land, general slight SW. slope, through medium dense short undergrowth. |
| 1.41 | The witness cor. |
| 27.55 | Wash, 30 lks. wide, 4 ft. deep, course W. |
| 38.30 | Road, Moab to Monticello, bears NW and SE. |
| 39.58 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for $\frac{1}{4}$ cor. of sec. 19 only, with brass cap marked<br>$\frac{1}{4}$<br>S19<br>1919<br>dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. |
| 40.10½ | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for $\frac{1}{4}$ cor. of sec. 24 only, with brass cap marke<br>$\frac{1}{4}$<br>S24<br>1919<br>dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. |
| 79.58 | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 18 and 19, T.30 S., R.24 E., with brass cap marked<br>T30S<br>S18 \| S19<br>R24E<br>1919<br>raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| 80.21 | The original cor. of secs. 13-18-19 and 24, which is a sandstone, 18x3x4 ins., firmly set in ground, marked with 3 notches on N. and S. edges, unwitnessed. |

Resurvey East Boundary of T.30 S.,R.23 E.

Chains

I re-establish cor. alongside old corner as follows:
Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 13 and 24, T.30 S., R.23 E., with brass cap marked

T30S
S13
S24
R23E
1919

raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Land, rolling, having a slight general W. and SW. slope and drainage into Hatch Wash.
Soil, sandy and gravelly loam, with some clay. No timber.
Undergrowth, medium dense sagebrush, greasewood and shadscale, 2 to 3 ft. high. Good grazing land.

---

From cor. of secs. 13 and 24.
N. 0° 23' E., resurveying along E. bdy. of sec. 13.
Over rolling land, through short undergrowth.

6.00 Enter scattering scrub cedar and pinon, bears E. and W.

13.00 Ravine, 25 ft. deep, course S.70°W.

23.55 Ravine, 15 ft. deep, course SW.; asc. S. slope, 110 ft. to

39.37 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 18 only, with brass cap marked

¼
S18
1919

from which

A cedar, 10 ins. diam., bears N.7¾°E., 42 lks. dist., marked ¼ S18 BT

No other accessories to cor.

40.37 Proportionate measurement.
Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 13 only, with brass cap marked

¼
S13
1919

Resurvey East Boundary of T.30 S.,R.23 E.

| Chains | |
|---|---|
| | dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. No trees within limits. Slightly ascending. |
| 52.10 | To S. base of lone, solid sandstone rock or butte, 90 ft. high on line, rock is about 8 chs. long, E. and W. and 6 chs. wide, N. and S.; to avoid same, I offset, East, 2.50 chs., thence N. 0°23'E., on the offset line 8.90 ch |
| 61.00 | Offset back West, 2.50 chs. to true line on N. side of rock; Thence, N.0°23 'E., over land facing to N. and NW. |
| 79.37 | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 7 and 18, T.30 S., R.24 E., with brass cap marked<br>T30S<br>S7 \| S18<br>R24E<br>1919<br>from which |
| | A pinon, 14 ins.diam.,bears N.81¾°E., 130 lks. dist.,marked T30S R24E S7 BT<br>A cedar, 10 ins.diam.,bears S.50½°E., 78 lks. dist.,marked T30S R24E S18 BT |
| 80.74 | The original cor. of secs. 7-12-13 and 18, which is a poi<br>from which the original bearing trees bears as follows:<br>A pinon, 12 ins.diam.,bears S.2°W., 90 lks.(record) dist., marked T30S R23E S13 BT<br>A cedar, 8 ins.diam.,bears N.59½°W., 47 lks.(record dist., marked T30S R23E S12 BT |
| | At the above point (cor. stone missing)xSet an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for re-established cor. of secs. 12 and 13, T.30 S.,R.23 E., with brass cap marked<br>T30S<br>S12 \| S13<br>R23E<br>1919 |
| | Cor. stands on a N. slope, 105 ft. below butte. |
| | Land, rolling, having a general S. and SW. slope and drainage on S. 60 chs. and to N. and NW. on the remainde |
| | Soil, sandy and gravelly loam, with scattered clay and rocks. |
| | Timber, scattered, occuring in patches, cedar and pinon |
| | Undergrowth, sagebrush, greasewood and shadscale. |

Resurvey East Boundary of T.30 S., R.23 E.

| Chains | |
|---|---|
| | North, resurveying along E. bdy. of sec. 12. |
| | Over rolling land, through short undergrowth, few scattered trees. |
| 3.00 | Leave timber, bears E. and W. |
| 15.00 | Enter level flat, bears E. and W., drains W. |
| 38.63 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 7 only, with brass cap marked |

¼
S7
1919

from which

A cedar, 12 ins.diam., bears N.14°E., 273 lks. dist., marked ¼ S7 BT

No other accessories to cor.

| | |
|---|---|
| 40.00 | In N. edge of flat, bears nearly E. and W. |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 12 only, with brass cap marked |

¼
S12
1919

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.

No trees within limits.

Asc. S. slope 160 ft. to

| | |
|---|---|
| 56.00 | Thence over bench, bears E. and W. |
| 70.60 | Thence over slight NW. slope, and enter scattering timber, bears NE. and SW. |
| 78.63 | Set an iron post, 3 ft. long, 2 inss dia., 24 ins. in ground, for cor. of secs. 6 and 7, T.30 S., R.24 E., with brass cap marked |

T30S
S6 | S7
R24E
1919

from wwhich

A pinon, 12 ins.diam., bears N.60°E., 23 lks. dist., marked T30S R24E S6 BT

A pinon, 8 ins.diam., bears S.26½°E., 85 lks. dist., marked T30S R24E S7 BT

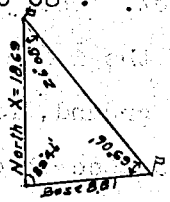
Survey East Boundary of T.30 S.,R.23 E.

| Chains | |
|---|---|
| 80.00 | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 1 and 12, T30 S., R.23 E., with brass cap marked<br>T30S<br>S1 \| S12<br>R23E<br>1919<br>raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | No suitable trees within limits. |
| | Land, rolling and level flat, general exposure and drainage to W. |
| | Soil, deep, loose sandy and gravelly loams, some clay; clay and rock subsoil. |
| | Timber, scattered cedar and pinon, on S. 2 chs. and N. 10 chs., few trees near ¼ cor. |
| | Undergrowth, considerable sagebrush, greasewood and shadscale. Good grazing land. |
| | --- |
| | Survey of East Boundary of T.30 S.,R.23 E. |
| | From the cor. of secs. 1 and 12 just described. |
| | North, along E. bdy. of sec. 1. |
| | Over rolling land, sloping to S., through scattering timb and undergrowth; gradually desc. 25 ft. to |
| 6.80 | Wash, 20 lks. wide, 3 ft. deep, in ravine, course SW. |
| 38.63 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 6 only, with brass cap marked<br>¼<br>S6<br>1919<br>from which |
| | A cedar, 10 ins. diam., bears East, 42 lks. dist., marked ¼ S6 BT |
| | No other accessories. |
| 40.00 | Point for ¼ cor. of sec. 1. No cor. set here. |
| 56.00 | Base of high sandstone rim ledge, bears NE. and SW. over which I cannot chain, therefore triangulate as follows: |

Survey East Boundary of T.30 S., R.23 E.

Chains

I return to the ¼ cor. sec. at 38.63 chs. from where set a flag on top of ledge, on line North, thence measure a base line, N.84°46'E., 8.81 chs. dist. to point whence the flag on top of ledge subtends angle of 69°06'. From the flag on top of ledge, the E. and W. ends of base subtends angle of 26°08'.




Distance by triangulation = 18.69 chs.

57.32 To triangulation point on top of ledge or cliff about 300 ft. high, nearly vertical, bears NE. and S.25°W. thence over gently rolling top of high island mesa, through dense timber; slightly ascending.

78.28 Intersect N. bdy. of tp., 1.25 chs. E. of the temp. cor. set on N. bdy. At point of intersection

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in a mound of stone with 5 ft. base, on solid bedrock, over a cross X, for cor. of Ts. 29½ and 30 S., Rs. 23 and 24 E., with brass cap marked

T29½S
R23E | R24E
S36 | S31
S1 | S6
T30S
1919

from which

A pinon, 10 ins.diam., bears N.50½°E., 43 lks. dist., marked T29½S R24E S31 BT
A pinon, 6 ins.diam., bears S.84½°E., 81 lks. dist., marked T30S R24E S6 BT
A pinon, 6 ins.diam., bears S.20°W., 49 lks. dist., marked T30S R23E S1 BT
A pinon, 5 ins.diam., bears N.66½°W., 63 lks. dist., marked T29½S R23E S36 BT

S. 56 chs. is rolling land, facing S. lying under rim of high island mesa, covered with scattered scrub cedar and pinon timber, with considerable sagebrush undergrowth; soil, loose sandy and gravelly loam, some scattered sandrock. Remainder of mile is rolling top of high mesa, about 300 ft. higher than the lower country; dense timber, with scattered sagebrush undergrowth; soil, shallow sandy loam and sandstone bedrock.

Retracement East Boundary of T.30 S., R.24 E.

| Chains | |
|---|---|
| | From the cor. of secs. 1-6-7 and 12, on E. bdy. of T.30 S., R.24 E., which is an iron post, 3 ins. dia., extending 12 ins. above ground, firmly set, marked and witness as described by the surveyor general. |
| | Thence, |
| | North, retracing bet. secs. 1 and 6. |
| 39.88 | Fall 13 lks. W. of the ¼ sec. cor., with is a sandstone 12x8x6 ins. above ground, firmly set, marked ¼ on W. face, witnessed as described by the surveyor general. |
| | True course and distance of this ½ mile therefore is N. 0° 11' E., 39.88 chs. |
| | Thence, from the ¼ cor., North, with continuous measurement. |
| 80.00 | Set temp. point for cor. of Ts. 29½ and 30 S., R.24 E. |
| 170.09 | Intersect the cor. of Ts. 29½ S., R.24 E., and T.30 S., R.25 E., described in survey of T.29½ S.,R.24 E. I now return to my temp. point at 80.00 chs. where set permanent cor. as follows: |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in ground, for cor. of Ts. 29½ and 30 S., R. 24 E., with brass cap marked |

T29½S
R24E
S36
S1

T30S

1919

from which

A pinon, 12 ins.diam.,bears S.34°W., 544 lks. dist.,marked T30S R24E S1 BT
A pinon, 8 ins.diam.,bears N.80°22'W.,698 lks. dist.,marked T29½S R24E S36 BT

Cor. stands on a gentle N. slope in open valley, near S. edge, bearing about NW. and E.

---

North Boundary of T.30 S., R.24 E.

From the cor. of Ts. 29½ and 30 S., R. 24 E. just described.

Thence,

North Boundary of T. 30 S., R. 24 E.

| Chains | |
|---|---|
| | West, on true line, along N. bdy. of T. 30 S., R.24 E., bet. secs. 1 and 36. |
| | Along S. edge of valley land, slight NE. slope, through heavy sagebrush. |
| 7.50 | Leave open valley, enter rolling and broken land and dense cedar and pinon timber, with scattered short undergrowth, bearing NW. and SE. to E.; gradually asc. along a general N. slope. |
| 17.60 | Cross open swale, 3½ chs. wide, drains N. |
| 28.10 | Top of ridge, 110 ft. above tp. cor., bears N.20°W. and S.20°E.; descend gradual, smooth W. slope, limestone formation. |
| 40.00 | On W. slope, 125 ft. below ridge. Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in a large mound of stone, for ¼ sec. cor., with brass cap marked<br>¼ S36 / S1<br>1919 from which<br>A pinon, 8 ins.diam., bears S.34°E., 51 lks. dist., marked ¼ S1 BT<br>A pinon, 8 ins.diam., bears N.38½°W., 44 lks. dist., marked ¼ S36 BT |
| | Continue descent W. slope, mostly limestone bedrock. |
| 57.00 | Base of the ridge and steep descent and leave limestone bedrock, 375 ft. below ridge, bears N.20°W. and S.20°E., Thence gently descending over low broken land, cut by numerous small washes, draining nearly S. |
| 73.15 | Wash, 10 ft. deep, course S. |
| 80.00 | On an E. slope, 325 ft. below ¼ cor. or 450 below ridge. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 1-2-35 and 36, with brass cap marked<br>T29½S \| R24E<br>S35 \| S36<br>S2 \| S1<br>T30S<br>1919 from which |

North Boundary of T.30 S., R.24 E.

| Chains | |
|---|---|
| | A cedar, 8 ins.diam.,bears N.50°E., 96 lks. dist.,marked T29½S R24E S36 BT |
| | A pinon, 8 ins.diam.,bears S.72°E., 71 lks. dist.,marked T30S R24E S1 BT |
| | A cedar, 8 ins.diam.,bears S.39¼°W., 42 lks. dist.,marked T30S R24E S2 BT |
| | A pinon, 8 ins.diam.,bears N.20½°W., 115 lks. dist.,marked T29½S R24E S35 BT |
| | Land, rolling valley on E. 7½ chs.; broken valley on W. 23 chs.; remainder rolling and broken mountainous: exposure and drainage to N. and NE. on the E. 28 chs.; and to W. to SW. on remainder. |
| | Soil, deep, moist coarse sandy and clay loam on E. 7½ chs remainder is rocky, mostly limestone bedrock, with very little soil, excepting on W. 23 chs. which is rocky, mixed with clay and gravel. |
| | Timber, dense cedar and pinon, very scrubby, on W. 72½ ch |
| | Undergrowth, considerable sagebrush. Good grazing land on E. 28 chs., poor on the remainder. |
| | --- |
| | West, bet. secs. 2 and 35. |
| | Over gently rolling valley land, slight SW. exposure, through medium dense timber,and short undergrowth of sagebrush. |
| 2.50 | Leave timber, bears nearly N. and S.; enter heavier sage-brush. |
| 6.65 | Big Indian Wash, 30 lks. wide, 4 ft. deep, 20 ft. below sec. cor., drains S.20°E., through narrow valley.; thenc gently ascending nearly smooth E. slope of valley bottom |
| 9.80 | Road, Moab to Monticello, via La Sal, bears N.30°W. and S.30°E. |
| 14.80 | Midland Telephone Co.'s line, bears about N.30°W. and S.3 |
| 15.00 | Enter dense patch of timber, bears N. and S. |
| 26.00 | Leave dense timber, bears NE. and SW.; thence through opening, through dense sagebrush, along near N. edge of timber. |
| 40.00 | On a gently smooth E. slope, 60 ft. above wash. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked |

North Boundary of T.30 S.,R.24 E.

| Chains | |
|---|---|
| | $\frac{1}{4}$ S35 / S2 |
| | 1919 from which |
| | A pinon, 12 ins.diam.,bears S.50°W., 131 lks. dist.,marked $\frac{1}{4}$ S2 BT |
| | A pinon, 12 ins.diam.,bears N.72°W., 238 lks. dist.,marked $\frac{1}{4}$ S35 BT |
| 42.00 | Enter scattering timber, bears NE. and SE. |
| 46.00 | Enter dense timber, bears N. and S. |
| 51.00 | Leave valley land, base of mountainous and rocky land, bears N.20°W. and S.20°E.; asc. steep E. slope, over series of red sandstone ledges, 10 to 60 ft. high. |
| 62.15 | Top of the steep ascent and ledges, 275 ft. above base, bears N.20°W. and S.20°E.; thence across a narrow bench, extending N. and S. along top of the lower rim of mountain. |
| 72.00 | Sagebrush opening 4 chs. wide, extending N. and S. |
| 80.00 | Near W. edge of the bench in dense timber, 400 ft. above the Big Indian Wash. |
| | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 2-3-34 and 35, with brass cap marked |
| | T29½S \| R24E<br>S34 \| S35<br>S3 \| S2<br>T30S |
| | 1919 from which |
| | A pinon, 8 ins.diam.,bears N.60°E., 57 lks. dist.,marked T29½S R24E S35 BT |
| | A pinon, 10 ins.diam.,bears S.39°E., 78 lks. dist.,marked T30S R24E S2 BT |
| | A pinon, 8 ins.diam.,bears S.19¼°W., 54 lks. Dist.,marked T30S R24E S3 BT |
| | A cedar, 8 ins.diam.,bears N.13°W., 44 lks. dist.,marked T29½S R24E S34 BT |
| | Gently rolling valley land on E. 51 chs. exposure and drainage into Big Indian Wash, which drains S.20°E.; remainder of mile is rough mountainous land, E. face. Soil, deep sandy and clay loam on the valley; rocky in form of broken ledges and loose rock, mixed with clay and some sandy loam, on the rough portion; red sandstone formation. |

North Boundary of T.30 S.,R.24 E.

| Chains | |
|---|---|
| | Timber, dense scrub cedar and pinon on 45 chs.; scattered on 4 chs.; medium dense 2.50 chs. |
| | Undergrowth, dense to scattered black sagebrush, 2 to 3 ft. high. Grazing land on the valley. |
| | --- |
| | West, bet. secs. 3 and 34. |
| | Over broken mountainous land, through medium dense cedar and pinon timber; scattered short undergrowth. |
| 4.00 | Begin steep ascent over rim, bearing nearly N. and S. |
| 5.75 | Top of the broken rim, 85 ft. above base; thence over broken land facing to SW. |
| 18.65 | Bottom of small gulch, 50 ft. deep, course S. |
| 25.90 | Gulch, 60 ft. deep, course S.30°W. |
| 32.20 | Gulch, 45 ft. deep, course S.30°W. |
| 40.00 | On a gradual SW. slope, 125 ft. below top at 5.75 chs. Set an iron post, 3 ft. long, 1 in. dia., on rough bedroc 26 ins. in a mound of stone, for ¼ sec. cor., with brass cap marked<br>¼ S34 / S3<br>1919 from which<br>A pinon, 8 ins.diam.,bears S.87°E., 54 lks. dist.,marked ¼ S3 BT<br>A pinon, 8 ins.diam.,bears N.28½°W., 18 lks. dist.,marked ¼ S34 BT |
| 62.25 | Bottom of large gulch, 180 ft. below ¼ cor., course SW. asc. along SE. slope, 70 ft. to |
| 70.10 | Top of rocky spur, projects SW. 5 chs. dist.; desc. steep rocky W. and NW. slopes, 220 ft. to |
| 80.00 | True point for sec. cor. falls in bottom of gulch, course N.60°W.; where cor. cannot be set; therefore at |
| 81.43 | On a steep N. slope, 20 ft. above gulch. Set an iron post, 3 ft. long, 2 ins. dia., on bedrock, 24 ins. in a large mound of stone, for witness cor. to secs. 3-4-33 and 34, with brass cap marked<br>T29½S \| R24E<br>S33 \| S34<br>WC<br>S4 \| S3<br>T30S<br>1919 from which |

North Boundary of T.30 S., R.24 E.

| Chains | |
|---|---|
| | A pinon, 8 ins.diam.,bears S.24¾°E., 56 lks. dist.,marked T30S R24E S4 BT WC<br>A pinon, 6 ins.diam.,bears N.82¾°W., 28 lks. dist., marked WC T29½S R24E S33 BT |
| | Trees within limits in remaining secs. but too scrubby to mark. Raise mound of stone 2 ft.base, 1½ ft.high W.of cor. |
| | Land, broken mountainous, broken by numerous deep gulches, having broken sandstone rim ledges; E. face and drainage on the E. 6 chs., and to W. on the remainder. |
| | Soil, rocky of red and white sandstone formation,in form of ledges and bedrock, with light sandy and clay loam. |
| | Timber, dense cedar and pinon on mile. |
| | Undergrowth, scattered sagebrush and brigham-tea. |
| | Poor grazing land. |
| | --- |
| | West, bet. secs. 4 and 33, counting distance from the true cor. point in gulch. |
| 1.43 | The witness cor. |
| | Over rough and broken mountainous land, through dense timber, and scattered undergrowth; ascend along rocky N. slope, 110 ft. to |
| 13.90 | Left rim of the gulch, bears NW. and S.75°E.; thence desc. gradual W. slope, 40 ft. to |
| 20.45 | Same rim of gulch, bears N.20°E. and S.20°W.; abrupt descent W. slope, 225 ft. to |
| 30.35 | Main gulch, course S.20°W.; asc. abruptly 125 ft. to |
| 35.40 | Right rim of gulch, bears N.30°E. and S.20°W.; thence slight ascent over E. slope. |
| 40.00 | On a slight E. exposure. Set an iron post, 3 ft. long,1in. dia., on bedrock, 26 ins. in mound of stone, for ¼ sec. cor., with brass cap marked<br>¼ S33 / S4<br>1919<br>from which<br>A pinon, 10 ins.diam.,bears N.58°E., 6 lks. dist.,marked ¼ S33 BT<br>A pinon, 10 ins.diam.,bears S.38¾°W., 34 lks. dist.,marked ¼ S4 BT |

North Boundary of T.30 S., R.24 E.

| Chains | |
|---|---|
| 45.00 | Top of low flat raise, 15 ft. above ¼ cor., bears N.20°E. and S.20°W.; desc. gradual W. slope, 135 ft. to |
| 68.50 | Top of a sandstone rim, 80 ft. high, bears NE. and SW.; desc. steeper NW. slope, 115 ft. to |
| 76.00 | Base of the steep descent and drain, at bend from NE. to NW.; thence along N. slope, |
| 80.00 | On a gentle NW. slope. Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in ground to bedrock, and in a large mound of stone, for cor. of secs. 4-5-32 and 33, with brass cap marked |

T29½S | R24E
S32 | S33
S5 | S4
T30S
1919

from which

A pinon, 5 ins.diam., bears N.24°E., 35 lks. dist., marked T29½S R24E S33 BT
A pinon, 6 ins.diam., bears S.18¾°E., 116 lks. dist., marked T30S R24E S4 BT
A pinon, 6 ins.diam., bears S.48½°W., 62 lks. dist., marked T30S R24E S5BT
A pinon, 8 ins.diam., bears N.79¾°W., 115 lks. dist., marked T29½S R24E S32 BT

Land, rough and broken mountainous, having a general SW. face and drainage; broken by deep gulches which are rimmed with sandstone ledges.

Soil, rocky in form of ledges and bedrock, with shallow sandy loam, some clay.

Timber, medium dense scrub pinon and cedar on mile.

Undergrowth, scattered short sagebrush.

Poor grazing land.

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West, bet. secs. 5 and 32.

Over broken mountainous land, through medium dense timber, scattered undergrowth; gradually desc. W. slope, 165 ft.

| | |
|---|---|
| 15.00 | Bottom of gulch, 65 ft. deep, 3 chs. wide at top, course S.20°W.; few cottonwood trees in bottom.; thence over land with slight SE. slope. |
| 26.40 | Asc. over ledge. |
| 26.60 | Top of 50 ft. vertical white sandstone ledge, bears N.20°E. and S.20°W.; |

North Boundary of T.30 S., R.24 E.

| Chains | |
|---|---|
| 28.10 | Top of ridge, 140 ft. above gulch, bears N.10°E., and SW. gently desc. W. slope, along top of bench. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in mound of stone, for ¼ sec. cor., with brass cap marked<br>¼ S32 / S5<br>1919<br>from which<br>A cedar, 6 ins.diam., bears S.22°W., 37 lks. dist.,marked ¼ S5 BT<br>A pinon, 8 ins.diam.,bears N.72°W., 27 lks. dist.,marked ¼ S32 BT |
| 44.80 | Leave top of bench, bears nearly N. and S.; desc. W. slope over barren sandstone to |
| 50.20 | Left rim of gulch, 65 ft. below bench, bears N.20°E. and S.20°W. |
| 54.10 | Bottom of gulch, 55 ft. deep, course S.20°W.; asc. |
| 59.45 | White sandstone spur, 75 ft. above bottom of gulch, slopes off to the S.; desc. gradual W. slope, 45 ft. |
| 66.50 | Ravine, course SE;. leave timber, bears NW. and S.; gently asc. over open land, facing to NE. |
| 76.50 | Re-enter dense timber, bears N. and S. |
| 76.60 | Head of the ravine last crossed, course NE. |
| 78.70 | Base of barren sandstone rim or wall 75 ft. high, bears N.20°E. and S.20°W.; the true point for sec. cor. will fall on inaccessible E. face of the rim; therefore at this point, which is 1.30 chs. dist. E. of true point. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for witness cor. to secs. 5-6-31 and 32, with brass cap marked<br>WC T29½S \| R24E / S31 \| S32 / S6 \| S5<br>T30S<br>1919<br>from which<br>A pinon, 8 ins.diam.,bears N.21°E., 36 lks. dist., marked WC T29½S R24E S32 BT<br>A pinon, 12 ins.diam.,bears S.61½°E., 101 lks. dist.,marked WC T30S R24E S5 BT<br>A pinon, 14 ins.diam.,bears N.45½°W., 6 lks. dist.,marked WC T29½S R24E S32 BT<br>A cross X on E. face of wall, bears S.76½°W., 24 lks. dist., marked B O |

North Boundary of T.30 S., R.24 E.

Chains

80.00 True point for sec. cor. on inaccessible E. face rimrock.

Land, low broken mountainous, cut by gulches draining S.; general slope is to the S.

Soil, rocky, with shallow sandy loam, some clay.

Timber, medium dense scrub pinon and cedar on 70 chs.

Undergrowth, short scattered sagebrush.

Fair grazing on greater part of the mile.

---

West, bet. secs. 6 and 31, counting distance from the true cor. point, which falls near top of sandstone rim onwall; over mountainous land.

0.50 Top of sandstone wall, 85 ft. above the W.C., bears nearly N. and S.; thence slight ascent over ridge, through medium dense timber, scattered short undergrowth.

4.50 Top of ridge, bears N. and S.; thence over broken land facing N., lying under rim of high mesa, E. point of which bears about SW. 12 chs. dist.

20.40 Base of descent on N. slope, 75 ft. below ridge, drains NW.; thence slight ascent on rough N. slope.

38.70 Base of sandstone wall, bears NW. and SE. ;asc. vertical

39.00 Top of narrow barren sandstone point, 100 ft. high, projecting N. 1½ chs. dist. to end, and bears S. 2½ chs. to main 300 ft. rim of mesa, bearing nearly E. and W.; abrupt descent W. face of wall, 100 ft. to

40.00 At base of the wall, bears N. and S., on barren bed-rock. Set an iron post, 3 ft. long, 1 in. dia., over cross, 8 ins. dia. cut in smooth rock, 26 ins. in a mound of stone, for ¼ sec. cor., with brass cap marked

$$\frac{1}{4}\ \frac{S31}{S6}$$

1919 from which

A pinon, 6 ins.diam., bears S.14½°E., 81 lks. dist., marked ¼ S6 BT
A cross X on SW face of sandstone wall, 8 ins. dia. bears N.44½°E.,31 lks. dist., marked B O.

Continue over N. slope, cut by numerous small deep washes putting N.

67.90 Base of nearly vertical sandstone rim, bears NW. and

North Boundary of T. 30 S.R.24 E.

| Chains. | |
|---|---|
| | S.75° E.; abrupt ascent over E. face. |
| 73.25 | Top of the sandstone wall, 295 ft. above base; continue steep ascent over E. slope on mesa. |
| 80.00 | On top of ascent on the mesa, 340 ft. above base of wall. Set temp. cor. for Tps. 29½ and 30 S., Rs. 23 and 24 E. Later the Tp.cor. was permanently established 1.25 chs. E.of the temp. cor., or at 78.75 chs., with the intersection of the W.bdy.of Tp. |
| | Land, rough and broken, mountainous; eastern exposure with SE.drainage on the E.4½ chs.; northern exposure with N. to NW. drainage on the remainder; the W.7 chs. lies on top of lone island mesa, 400 to 500 feet above the surrounding country, is rimmed with a nearly vertical sandstone wall 200 to 300 ft.high. Is inaccessible to stock. |
| | Soil, mostly barren sandstone bedrock and ledges, with a covering of loose, shallow, sandy loam, in places. |
| | Timber, medium dense scrub cedar and pinon on mile. |
| | Undergrowth, very scattered short sagebrush. |
| | Poor grazing land. |

## Subdivision of T. 30 S., R.24 E.

From the standard cor.of secs.35 and 36 on S.bdy. of Tp., which is an iron post, 3 ins.dia., extending 12 ins.above ground, firmly set, marked and witnessed as described by the surveyor general,

N. 0° 01' W. bet.secs.35 and 36,

Over rough, mountainous land, facing N.; through dense cedar and pinon timber; scattered undergrowth of sagebrush; descending steep general N. slope.

1.20 Cross head of small wash, course NW.

40.00 On N. slope, 455 ft. below standard corner.

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

North Boundary of T. 30 S., R. 24 E.

| Chains. | |
|---|---|
| | ground, for $\frac{1}{4}$ sec.cor., with brass cap marked<br>S 35 \| $\frac{1}{4}$ \| S 36<br>1919 from which<br>A pinon, 10 ins.diam., bears S.78½°E.70 lks. dist., marked $\frac{1}{4}$ S36 BT<br>A pinon, 8 ins.diam., bears N.60¼°W. 55 lks. dist., marked $\frac{1}{4}$ S35 BT |
| 42.00 | Top of sandstone rim ledge, bears E. and W.; abrupt descent N. face. |
| 43.00 | Base of ledge, 215 ft.below $\frac{1}{4}$ cor., bears E. and W. Continue more gradual descent over N. slope. |
| 57.00 | Leave timber and mountainous land, bearing E. and W.; enter heavier sagebrush, over rolling land facing NW. Road bears NE. and SW. |
| 60.00 | Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor.of secs.25,26,35, and 36, with brass cap marked<br>T30S \| R24E<br>S26 \| S25<br>S35 \| S36<br>1919<br>Raise a mound of stone, 2 ft.base, 1½ ft.high W.of cor. |
| | Land, rough, mountainous on S. 57.00 chs.; steep general N. to NW.slopes and drainage; covered with dense pinon and cedar timber, very scattered sagebrush. |
| | Soil, rocky, with clay and gravelly loam on rock and clay subsoils on 57.00 chs. Balance of mile is open rolling land, facing to NW., covered with dense sagebrush; soil gravelly and clay loam with some rocks. |
| | Good grazing land on the N. 23.00 chs. |
| | East, on random line between secs.25 and 36, |
| 60.00 | Set temp. $\frac{1}{4}$ sec.cor. |
| 60.40 | Intersect E. bdy.of Tp. 9 lks.N.of the cor.of secs.25, 30, 31, and 36, which is an iron post, 3 ins.dia., 12 ins.above ground, marked and witnessed as described by the surveyor general. Thence |

Subdivision of T. 30 S.R. 24 E.)

| Chains. | |
|---|---|
| | N. 89° 56' W. on true line bet.secs. 25 and 36, |
| | Over mountainous land; through sagebrush. |
| 1.05 | Wash, 8 ft.deep, course NW. |
| 3.00 | Ascend E. slope; through dense timber, bearing N.and S. |
| 11.00 | Top of ascent, 220 ft. above sec. cor., bears N. and S. |
| | Descend W. slope. |
| 40.20 | Near base of descent on W. slope, 150 ft. below top. |
| | Set an iron post, 3 ft.long, 1 in.dia., 8 ins.in the ground to bedrock, and in a large mound of stone, for $\frac{1}{4}$ sec.cor., with brass cap marked |
| | $\frac{1}{4}$ S25 / S36 / 1919 from which |
| | A pinon, 10 ins.diam., bears N.35$\frac{1}{4}$°W. 67 lks. dist., marked $\frac{1}{4}$ S25 BT |
| | A pinon, 12 ins.diam., bears S.4$\frac{1}{2}$°W. 62 lks. dist., marked $\frac{1}{4}$ S36 BT |
| | Gradually descend 40 ft. to |
| 46.05 | Wash, 50 lks.wide, 8 ft.deep, in ravine, course NW.; |
| | leave mountainous, enter rolling land, facing to N. |
| 49.00 | Leave timber, bearing N. and SW. |
| 80.40 | The corr.of secs.25,36,35, and 36. |
| | Land, rough,mountainous, on E. 46.00 chs.; rolling on the remainder; drainage to NW. on the mile. |
| | Soil, rocky and gravelly, with clay and gravel loam; sandstone formation. |
| | Timber, dense pinon and cedar on 46.00 chs. |
| | Undergrowth, scattered sagebrush on 46.00 chs.; dense on remainder. |
| | Fair grazing land. |
| | N. 0° 01' W. bet. secs.25 and 26, |
| | Over rolling land; through dense sagebrush; gently ascending. |
| 22.75 | Enter dense timber, with scattered sagebrush, bearing NW. and SE. |
| 31.00 | Top of raise, 50 ft. above sec.cor., bears NW. and SE. |

Subdivision of T. 30 S., R. 24 E.

Chains. Descend abruptly over N. slope, 145 ft. to

32.00 Enter flat with dense greasewood, and leave timber, bearing NW. and SE.

40.00 True point for $\frac{1}{4}$ sec.cor. falls in bottom of wash, 50 lks.wide, 6 ft.deep, course N. 60° W. No cor. set.

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

$$\begin{array}{c} \frac{1}{4} \\ S26 \mid S25 \\ WC \\ 1919 \end{array}$$

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

46.00 Leave flat and greasewood; enter rough rocky land and dense timber, bearing NW. and S.60° E. Ascend SW.slope.

62.00 Top of ridge, 135 ft. above $\frac{1}{4}$ sec.cor., bearing E. and W. Descend N. slope 115 ft. to

69.00 Base of slope; leave timber; enter flat with dense greasewood, bearing N. 70° E. and S. 70° W.

70.30 Road, Moab to Monticello, via La Sal, bears N. 70° E. and S. 70° W.

71.87 Midland Telephone Co.'s line, bears same as road.

77.00 Big Indian Wash, 30 lks.wide, 10 ft.deep, course S.80° W.

80.00 In N. edge of flat, bearing N. 70° E. and SW.

Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor.of secs.23, 24, 25, and 26, with brass cap marked.

$$\begin{array}{c} T30S \mid R24E \\ S23 \mid S24 \\ S26 \mid S25 \\ 1919 \end{array}$$

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

Land, rolling on 32.00 chs.; rough, mountainous slopes on 23.00 chs.; and level flats on 25.00 chs. General exposure and drainage NW. to W. into Big Indian Wash, which drains nearly W.

Soil, on the rolling portion is gravelly and sandy loam, with clay; on rough portion, rocky and clay, and some sandy loam; on the flats, a deep, fine clay and sandy

| Chains. | |
|---|---|
| | loam. |
| | Timber, dense scrub pinon and cedar on 32¼ chs. |
| | Undergrowth, considerable sagebrush on rolling and rough portions; dense greasewood in the flats. |
| | Fair grazing land on the mile. |
| | S. 89° 56' E. on random line bet. secs. 24 and 25, |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.48 | Intersect E. bdy. of Tp., 7 lks. S. of the cor. of secs. 19, 24, 25, and 30, which is an iron post, 3 ins. dia., extending 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor-general. |
| | Thence |
| | N. 89° 59' W. on true line bet. secs. 24 and 25, |
| | Over rolling and broken land, facing to NW.; through sagebrush undergrowth, few scattered trees in clumps. |
| | Ascend 25 ft. to |
| 5.50 | Top of raise on N. slope, rises to the S.; descend. |
| 25.00 | Big Indian Wash, 50 lks. wide, 5 ft. deep, 100 ft. below the 5½ chs. point, course SW. |
| 40.24 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>¼ S 24 / S 25 / 1919 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| | Ascend 115 ft. to |
| 49.75 | Top of rocky ridge, bearing NE. and SW. |
| | Big Indian Rock, a red sandstone, 200 ft. high, bears N. 52¾°E. 8.50 chs. dist. |
| | Descend rocky west slope. |
| 56.50 | Base of ridge; enter flat bearing NE. and SW. |
| 57.50 | Wash, 30 lks. wide, 6 ft. deep, course SW. |
| 65.80 | Road, Moab to Monticello, via La Sal, bears NE. and SW. |
| 66.10 | Midland Telephone Co.'s line, bears NE. and SW. |

Chains.
80.48 The cor. of secs. 23, 24, 25, and 26, 185 ft. below ridge. Land, rolling, broken, and level flat. Drainage to W. Soil, ranges from sandy and clay loams to rocky of red sandstone formation; subsoil, clay and rocky. Timber, few scattered patches of pinon and cedar. Undergrowth, sagebrush and greasewood. Good grazing land on greater portion of mile.

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N. 0° 01' W. bet. secs. 23 and 24,

Over rough mountainous land, facing to SW.; through scattered timber, and very scattered short undergrowth. Ascend general SW. slope, over nearly solid sandstone bed rock.

28.90 Top of ascent on S. rim of canyon, 370 ft. above sec. cor., bearing NE. and SW.; descend abruptly over ledges.

35.00 Bottom of canyon, 225 ft. below top, course SW. Ascend abruptly over ledges 65 ft. to

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

$\frac{1}{4}$
S23 | S24
1919

from which

A pinon, 8 ins. diam., bears N. 16° W. 15 lks. dist., marked $\frac{1}{4}$ S23 BT
A cedar, 16 ins. diam., bears N. 35° E. 28 lks. dist., marked $\frac{1}{4}$ S24 BT

Continue ascent over SW. slope, 460 ft. to

77.40 Top of ascent, bears NE. and SW.; descend 30 ft. to

80.00 In depression or head of draw, draining SW. Set an iron post, 3 ft. long, 2 ins. dia., 4 ins. in the ground to bed rock, and in a mound of stone for the cor. of secs. 13, 14, 23, and 24, with brass cap marked

T30S | R24E
S14 | S13
S23 | S24
1919

Subdivision of T. 30 S., R. 24 E.

| Chains. | |
|---|---|
| | Raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. |
| | Land, rough, mountainous, general SW. slope and drainage. |
| | Soil, mostly rocky in form of bed rock and ledges, with some light, sandy loam; sandstone formation. |
| | Timber, scattered to medium dense growth of scrub cedar and pinon. |
| | Undergrowth, very scattered sagebrush and greasewood. |
| | Poor grazing land. |
| | S. 89° 59' E. on random line bet. secs. 13 and 24, |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.48 | Intersect E. bdy. of Tp., at the cor. of secs. 13, 18, 19 and 24, which is an iron post, 3 ins. dia., extending 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. The cor. is set on a fence line, bearing N. and S. |
| | Thence |
| | N. 89° 59' W. on true line bet. secs. 13 and 24, |
| | Over gently rolling open sagebrush land, facing to SE. |
| 7.30 | Road, Moab to Monticello, via La Sal, bears N. 20° E. and S. 20° W. |
| 12.00 | Midland Telephone Co.'s line, bears N. 20° W. and S. |
| 20.00 | Leave rolling; enter mountainous and rocky land, bearing N. and S.; also some scattered timber. |
| | Ascend E. slope over series of small broken ledges. |
| 31.00 | Top of ridge, N. slope; 230 ft. above base, bearing N. and S. |
| | Descend rocky W. slope. |
| 40.24 | On W. slope, 40 ft. below ridge, |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |
| | S 13<br>¼<br>S 24<br>1919 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |

| Chains. | |
|---|---|
| | Continue descent over W. slope, 185 ft. to |
| 61.20 | Bottom of canyon, course S. 20° W. |
| | Ascend abruptly over E. slope, over ledges, 405 ft. to |
| 77.25 | Top of ascent and ridge, bearing N. and S. |
| | Descend abruptly over ledge, 65 ft. to |
| 80.48 | The cor. of secs. 13, 14, 23, and 24, |
| | East 20.00 chs. gently rolling valley land; gentle slope to SE. Soil gravelly and clay loam on clay subsoil; covered with short sagebrush and scattered greasewood. |
| | Remainder of mile rough, mountainous; drainage to SW. Soil, rocky in form of bed rock and ledges, with clay and shallow sandy loam; scattered cedar and pinon timber; sparse sagebrush undergrowth. |
| | Good grazing land on eastern portion; poor on remainder. |

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| | |
|---|---|
| | N. 0° 01' W. bet. secs. 13 and 14, |
| | Over rough mountainous land; through medium dense scrub timber; ascending general S. and SE. slope over broken sandstone ledges and bed rock. |
| 40.00 | 460 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. dia., on bed rock, 26 ins. in a large mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked |
| | S14 $\frac{1}{4}$ S13 |
| | 1919 from which |
| | A pinon, 8 ins. diam., bears N. 30½° E. 51 lks. dist., marked $\frac{1}{4}$ S13 BT |
| | A pinon, 10 ins. diam., bears N. 6½° W. 42 lks. dist., marked $\frac{1}{4}$ S14 BT |
| 76.20 | Top of mountain and ridge, 825 ft. above sec. cor., bears N. 30° W. and S. 20° E.; descend abruptly over ledges NE. face, 145 ft. to |
| 80.00 | On abrupt NE. slope, |
| | Set an iron post, 3 ft. long, 2 ins. dia., 6 ins. in ground to bed rock, and in a large mound of stone, for cor. of sections 11, 12, 13, and 14, with brass cap marked |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | T30S \| R24E<br>S11 \| S12<br>S14 \| S13<br>1919 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. No suitable trees within limits. |
| | Land, rough mountainous; S. to SW. slope and drainage on S. 76 chs. and to NE. on the remainder. |
| | Soil, rocky, in form of sandstone ledges and bedrock, with shallow sandy loam. |
| | Timber, medium dense growth of scrub cedar and pinon, on mile. |
| | Undergrowth, very sparse sagebrush and brigham-tea. |
| | Poor grazing land. |
| | S. 89°59' E., on random line, bet. secs. 12 and 13. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.46 | Intersect E. bdy. of tp., 2 lks. S. of cor. secs. 7-12-13 and 18, which is an iron post, 3 ins. dia., extending 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. |
| | Thence, |
| | West, on true line, bet. secs. 12 and 13. |
| | Over rolling land low broken land; through dense cedar and pinon timber; scattering short undergrowth; desc. gradual SW. slope, 25 ft. to |
| 11.25 | Big Indian Wash, 40 lks. wide, 6 ft. deep, course SE. |
| 17.25 | Road, Moab to Monticello, via La Sal, bears N.20°W. and SE.; thence gently ascending low broken land, facing nearly S. |
| 22.10 | Top of raise, 60 ft. above wash, bears N.20°W. and SE. |
| 25.50 | Small wash, 20 lks. wide, 4 ft. deep, course S. |
| 40.23 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>S12<br>¼ S13<br>1919 from which |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | A pinon, 8 ins.diam.,bears N.60°E., 32 lks. dist.,marked $\frac{1}{4}$ S12 BT<br>A pinon, 8 ins.diam.,bears S.80°W., 16 lks. dist.,marked $\frac{1}{4}$ S13 BT |
| 44.85 | Midland Telephone Co.'s line, bears about N. and S. |
| 58.00 | Leave low broken land, enter rough mountainous, bears N.20°W. and S.; ascend abruptly E. face of mountain over broken ledges, bearing N. and S., 525 ft. to |
| 80.46 | The cor. of secs. 11-12-13 and 14, 675 ft. above $\frac{1}{4}$ cor. Land, E. 58 chs. low broken and rolling land, facing nearly S.; remainder steep rough mountainous, E. face. Soil, rocky and greavelly, with stiff clay; sandstone formation. Timber, dense cedar and pinon, on mile. Undergrowth, very scattered sagebrush and greasewood. Poor grazing land. |
| | ---------- |
| | N. 0°01' W., bet. secs. 11 and 12. Over mountainous land, facing to E., through medium dense scrub timber; scattered undergrowth of sage, service and buck brush; desc. along steep, rocky E. slope. |
| 18.15 | A sandstone rimledge, 30 ft. high, bears N.30°W. and S.10°E.; desc. more abruptly. |
| 40.00 | On E. slope at base of steep rough mountainous land, 575 ft. below sec. cor., bearing N.20°W. and S.10°E. Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in groun to bedrock, and in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked<br>$\frac{1}{4}$<br>S11 \| S12<br>1919<br>from which<br>A pinon, 5 ins.diam.,bears S.15°E., 69 lks. dist.,marked $\frac{1}{4}$ S12 BT<br>A pinon, 8 ins.diam.,bears S.80°W., 32 lks. dist.,marked $\frac{1}{4}$ S11 BT<br>Thence over low broken and rolling land, facing E., through dense timber, very scattered sagebrush. |

Subdivision of T. 30 S., R.24 E.

| Chains | |
|---|---|
| 80.00 | On same level as ¼ cor., on a gentle S. slope. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 1-2-11 and 12, with brass cap marked |

T30S | R24E
S2 | S1
S11 | S12

1919

from which

A cedar, 12 ins.diam., bears N.39°E., 34 lks. dist., marked T30S R24E S1 BT
A pinon, 12 ins.diam., bears S.26°E., 51 lks. dist., marked T30S R24E S12 BT
A cedar, 8 ins.diam., bears S.53¼°W., 43 lks. dist., marked T30S R24E S11 BT
A pinon, 8 ins.diam., bears N.42¾°W., 97 lks. dist., marked T30S R24E S2 BT

S. 40 chs. is rough mountainous, abrupt nearly E. face; with series of broken sandstone ledges, 10 to 50 ft. high; soil, rocky in form of ledges and bedrock of sandstone formation, with shallow sandy loam; N. 40 chs. is low broken and rolling, gentle E. slope; drainage into Big Indian Wash; soil, shallow gravelly, sandy and clay, on clay and rock subsoils.

Timber, medium dense scrub cedar and pinon on mile.

Undergrowth, sage, service and buck brush on S. ½ mile; sage with very scattered buck brush on N. ½ mile.

Poor grazing land.

---

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

| | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |
| 80.40 | Intersect E. bdy. of tp., 12 lks. N. of cor. secs. 1-6-7 and 12, which is an iron post, 3 ins. dia., extending 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. |

Thence,

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

Over broken land, facing nearly W., through medium dense timber, with very scattered short undergrowth; descending along a N. slope.

| | |
|---|---|
| 9.20 | Bottom of gulch, 60 ft. deep, and 145 ft. below sec. cor. |
| --- | narrow with abrupt slopes, course S.70°W.; asc. gradual |

| Chains | |
|---|---|
| | S. and SE. slope, 145 ft. to |
| 15.30 | Top of ascent, bears NE. and SW.; desc. gradual, smooth W. slope, limestone formation. |
| 31.00 | Leave dense, enter scattering timber, bears N.20°W. and S. |
| 35.00 | Big Indian Wash, 25 lks. wide, 4 ft. deep, rock bottom, in ravine, 155 ft. below top at 15.30 chs., course S.20°E.; leave limestone, enter sandstone formation, bears nearly N. and S.; gradually asc. |
| 36.30 | Road, Moab to Monticello, via La Sal, bears N.30°W. and S.20°E. |
| 38.00 | Re-enter dense timber, bears N.20°W. and S.20°E. |
| 40.20 | On slight E. slope, 35 ft. above wash. |
| | Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in ground to bedrock, and in a mound of stone, for ¼ sec. cor., with brass cap marked |
| | ¼ S1 / S12 / 1919 from which |
| | A pinon, 10 ins.diam., bears N.32½°E., 90 lks. dist., marked ¼ S1 BT |
| | A pinon, 8 ins.diam., bears S.12½°W., 12 lks. dist., marked ¼ S12 BT |
| | Thence over low broken or hilly land, having a general S. and SE. slope, through dense timber. |
| 58.80 | Top of raise, 65 ft. above ¼ cor., bears about N. and S. |
| 64.00 | Ravine, 20 ft. deep, course S.20°E. |
| 68.05 | Midland Telephone Co.'s line, bears about N.20°W. and S. 20°E. |
| 80.40 | The cor. of secs. 1-2-11 and 12, 100 ft. above ¼ cor. |
| | Land, broken and rolling; W. and SE. slopes and drainage into Big Indian Wash, which drains about S. |
| | Soil, rocky, with considerable bedrock in E. ½ mile, with shallow gravelly, clay and sandy loam; limestone and sandstone formation. |
| | Timber, dense cedar and pinon, on 73 chs.; scattering on 7 chs. |
| | Undergrowth, scattering sagebrush. |
| | Poor grazing land. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| 0 | North, on random line, bet: secs. 1 and 2. |
| 40.00 | Set temp: ¼ sec. cor. |
| 79.76 | Intersect N. bdy, of tp., 23 lks. W. of cor: secs. 1-2-35 and 36, hereinbefore described. |
| | Thence, |
| | S. 0°10' W., on true line, bet. secs. 1 and 2. |
| | Over gentle rolling land, slight S. slope, through dense timber, with considerable short undergrowth. |
| 3.50 | Leave timber, bears NW. and SE.; enter heavier sagebrush. |
| 8.75 | Big Indian Wash, 30 lks. wide, 4 ft. deep, 25 ft. below sec. cor., course S.30°E.; thence over slight NE. slope. |
| 14.00 | Road, Moab to Monticello, via La Sal, bears N.30°W. and S.30°E. |
| 39.76 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ½ sec. cor., with brass cap marked |

¼

S2 | S1

1919

from which

A pinon, 9 ins.diam., bears S.89¼°W., 38 lks. dist., marked ¼ S2 BT
A pinon, 12 ins.diam., bears S.73¾°E., 51 lks. dist., marked ¼ S1 BT

Cor. stands on silght raise, 30 ft. above wash, in strip of timber, 1½ chs. wide, bearing NW. and SE.

| | |
|---|---|
| 48.20 | Midland Telephone Co.'s line, bears about N.30°W. and S.30°E. |
| 49.00 | Enter dense timber, bears NW. and SE.; thence over SE. exposure; descending 65 ft. to |
| 79.76 | The cor. of secs. 1-2-11 and 12. |
| | Land, gently rolling, having a general exposure and drainage to S.30°E. |
| | Soil, deep, sandy and clay loam, with gravel and rocks near southern end of mile. |
| | Timber, scrub pinon and cedar, on 33¾ chs. |
| | Undergrowth, medium dense growth of sagebrush. |
| | Fair grazing land. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | From the standard cor. of secs. 34 and 35 on S. bdy. of tp., which is an iron post, 3 ins. dia., extending 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. |
| | Thence, |
| | N. 0°01' W., bet. secs. 34 and 35. |
| | Over mountainous land, through scattering scrub timber; very scattered, short undergrowth; asc. from a depression draining NW., 55 ft. to |
| 6.75 | Top of ascent bears NW. and SE.; desc. gradual N. slope, over broken ledges and outcrops of sandstone bedrock. |
| 31.50 | Trail, bears N.70°E. and S.70°W.; begin more abrupt descen |
| 33.75 | Top of 200 ft. sandstone rim ledge, bears N.70°E. and S.70°W.; abrupt descent N. face. |
| 37.90 | Base of ledge, bears same as top; thence over slight W. slope. |
| 40.00 | On a gentle W. slope, 435 ft. below top at 6.75 chs. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼<br>S34 \| S35<br>1919<br>from which<br>A pinon, 8 ins.diam.,bears N.32¼°E., 39 lks. dist.,marked ¼ S35 BT<br>A pinon, 10 ins.diam.,bears N.40¼°W., 75 lks. dist.,marked ¼ S34 BT |
| | Thence over gently rolling land, facing to NW. |
| 53.00 | Leave timber, enter heavier sagebrush, bears E. and W. |
| 64.80 | Road, to Uranium mines, bears NW. and SE. |
| 67.80 | Bottom of wide, shallow swale, drains NW. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 26-27-34 and 35, with brass cap marked<br>T30S \| R24E<br>S27 \| S26<br>S34 \| S35<br>1919<br>dig pits, 18x18x12 ins., NE.,SE., SW., and NW. of post, 3 ft. dist. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | Land, mountainous on S. 38 chs.; rolling and remainder; general N. slope and drainage. |
| | Soil, rocky in form of ledges and bedrock, with shallow sandy loam on the mountainous land; sandy and gravelly loam on the rolling portion; sandstone formation. |
| | Timber, medium dense scrub pinon and cedar on S. 53 chs. |
| | Undergrowth, sagebrush, scattered on S. 53 chs.; medium dense, short on remainder. |
| | Good grazing on the rolling land. |
| | --- |
| | East, on random line, bet. secs. 26 and 35. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.62 | Intersect N. and S. line, 12 lks. S. of cor. secs. 25-26-35 and 36. |
| | Thence, |
| | S. 89°55' W., on true line, bet. secs. 26 and 35. |
| | Over gently rolling land, through short sagebrush; over slight NW. slope. |
| 32.30 | Wash, 10 lks. wide, 10 ft. deep, course N.30°W. |
| 35.30 | Road, to Uranium mine, bears NW. and SE. |
| 39.81 | On gentle NW. slope, 45 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼ S26 / S35<br>1919 |
| | dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. |
| 48.40 | Cross N. point of scattered timber, bears SE. and SW. |
| 65.00 | Road, to Uranium mine, bears N.30°W. and S.30°E. |
| 79.62 | The cor. of secs. 26-27-34 and 35, 65 ft. below ¼ cor. |
| | Land, gently rolling, having a slight NW. slope and drainage. |
| | Soil, deep, coarse sandy and gravelly loam, with some clay. |
| | Undergrowth, scattered to medium growth of sagebrush. |
| | No timber. Good grazing land. |
| | --- |

Subdivision of T. 30 S., R.24 E.

| Chains | |
|---|---|
| | N. 0°01' W., bet. secs. 26 and 27. |
| | Over gently rolling land, facing to NW., through medium dense sagebrush. |
| 34.00 | Road, to Uranium mine, bears N.15°W. and S.15°E. |
| 38.20 | Midland Telephone Co.'s line, bears N.80°E. and S.80°W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. diaa, 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼<br>S27 \| S26<br>1919<br>dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. |
| 44.70 | Road, Moab to Monticello, via La Sal, bears N.70°E. and S.70°W. |
| 57.50 | Big Indian Wash, 250 lks. wide, 20 ft. deep, course NW.; thence over level bottom land, through dense greasewood. |
| 72.00 | Leave bottom land and greasewood, enter broken rocky land, and dense timber, bears N.70°W. and S.70°E.; gradually asc., over outcrops of sandstone bedrock. |
| 80.00 | On a SW. slope, 50 ft. above wash.<br>Set an iron post, 3 ft. long, 2 ins. dia., on bedrock, 24 ins. in a large mound of stone, for cor. secs. 22-23-26 and 27, with brass cap marked<br>T30S \| R24E<br>S22 \| S23<br>S27 \| S26<br>1919<br>from which<br>A pinon, 5 ins.diam., bears N.57½°E., 49 lks. dist., marked T30S R24E S23 BT<br>A pinon, 5 ins.diam., bears S.61°E., 77 lks. dist., marked T30S R24E S26/BT<br>A pinon, 10 ins.diam., bears S.57¾°W., 164 lks. dist., marked T30S R24E S27/BT<br>A pinon, 8 ins.diam., bears N.49½°W., 93 lks. dist., marked T30S R24E S22, BT<br>Land, rolling with gentle general NW. slope on S. 57 chs. level on next 15 chs.; and broken, SW. slope on remainder; drainage into Big Indian Wash, draining westerly.<br>Soil, deep, loose sandy loam and gravelly, with some clay on southern portion; clay loam in wash bottom; rocky of sandstone formation on N. portion. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | Timber, dense pinon and cedar on N. 8 chs. |
| | Undergrowth, medium dense sagebrush, except in wash bottom where dense greasewood grows. |
| | Good grazing land. |
| | --- |
| | N. 89°55½ E., on random line, bet. secs. 23 and 26. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.74 | Intersect N. and S. line, 7 lks. N. of cor. secs. 23-24-25 and 26. |
| | Thence, |
| | S. 89°58' W., on true line, bet. secs. 23 and 26. |
| | Over level bottom land, through dense sagebrush to |
| 1.00 | Leave bottom land and dense sagebrush, enter broken and rocky land, general S. face, through scattered scrub timber, bears NE. and SW.; asc. abruptly over barren slick rock, 100 ft. to |
| 12.40 | Top of ascent on S. slope, bears N. and S.; desc. along S. slope, 100 ft. to |
| 28.35 | Base of descent on S. slope, drains S.30°W.; asc. gradually 40 ft. to |
| 39.87 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in a large mound of stone, 5 ft. base, on bedrock, for ¼ sec. cor., with brass cap marked<br>¼ S23 / S26<br>1919<br>No other accessories to cor. Trees within limits but too scrubby to mark. |
| 41.15 | Top of ascent on S. slope, 20 ft. above ¼ cor., bears N. and S.; desc. gradually, 115 ft. to |
| 79.74 | The cor. of secs. 22-23-26 and 27. |
| | Land, rough and broken, having a general S. face and drainage into Big Indian Wash, which drains about W. |
| | Soil, mostly rocky in form of bedrock, with some shallow sandy loam; sandstone formation. |

Subdivision of T.30 S., R.24 E.

Chains

Timber, scattering to medium dense scrub cedar and pinon on mile.

Undergrowth, very scattered short sagebrush.

Very poor grazing land.

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N. 0°01' W., bet. secs. 22 and 23.

Over broken mountainous land, through medium dense timber; scattered undergrowth; asc. along SW. slope, 120 ft.

34.15 Top of ascent on S. rim of gulch, bears N.70°W. and S.70°E.; desc. abruptly over ledge.

37.60 Base of descent in gulch bottom; thence over bottom land, through dense greasewood.

39.50 As the true point for ¼ sec. cor. will fall in wash, where cor. cannot be set; therefore at this point Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for witness cor. to the ¼ sec. cor., with brass cap marked

WC
¼
S22 | S23
1919

from which

A pinon, 10 ins.diam., bears S18°E., 176 lks. dist., marked ¼ S23 BT
A cedar, 12 ins.diam., bears S.16°W., 193 lks. dist., marked ¼ S22 BT

40.00 True point for ¼ cor., in wash bottom, 20 lks. wide, 5 ft. deep, course N.70°W. No cor. set.

46.10 Leave bottom land, bears N.70°W. and S.70°E.; asc. rocky S. slope, 170 ft.

65.00 Top of ridge, bears N.70°E. and S.70°W.; desc. gradually, 20 ft. to

71.60 S. rim of gulch, bears NE. and SW.; desc. abruptly over ledge.

76.20 Wash, 30 lks. wide, 8 ft. deep, in bottom of gulch, 115 ft. below rim, course SW.

77.20 Road to spring, bears NE. and SW.; spring bears up gulch about 18 chs. dist.

78.00 Leave gulch, ascend abruptly over ledge, 110 ft. to

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| 80.00 | On top of N. rim of gulch, bears about NE. and SW. Set an iron post, 3 ft. long, 2 ins. dia., on bedrock, 24 ins. in a large mound of stone, 5 ft. base, for cor. secs. 14-15-22 and 23, with brass cap marked<br>T30S \| R24E<br>S15 \| S14<br>S22 \| S23<br>1919<br>No other accessories to cor. No suitable trees within limits.<br>Land, broken mountainous, general face to SW., with SW. and N. exposures; drainage to SW.<br>Soil, mostly rocky in form of bedrock and ledges, with some shallow sandy loam; sandstone formation.<br>Timber, medium dense scrub pinon and cedar, on mile.<br>Undergrowth, scattering sagebrush, with dense greasewood in bottoms of gulches.<br>Poor grazing land. |
| | --- |
| | N. 89°58' E., on random line, bet. secs. 14 and 23. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.02 | Intersect N. and S. line, 9 lks. S. of cor. secs. 13-14-23 and 24. |
| | Thence, |
| | S. 89°54' W., on true line, bet. secs. 14 and 23. |
| | Over rough mountainous land, having a general face SW., through medium dense scrub timber; very scattering undergrowth; asc. SE slope, over ledges and bedrock. |
| 10.70 | Top of ascent, 85 ft. above cor., bears N.20°E. and S.20°W. descend W. slope, 310 ft. to |
| 36.20 | Bottom of gulch, 60 ft. deep, course S.20°W.; asc. |
| 40.01 | On SE. slope, 60 ft. above gulch. Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in ground to bedrock, and in a mound of stone, for ¼ sec. cor., with brass cap marked<br>¼ S14 / S23<br>1919 from which |

Subdivision of T.30 S., R.24 E.

Chains

A pinon, 5 ins.diam.,bears S.45½°E., 93 lks. dist.,marked ¼ S23 BT
A pinon, 6 ins.diam.,bears N.11½°W., 89 lks. dist.,marked ¼ S14 BT

41.00 Top of ascent, 10 ft. above ¼ cor., bears N.20°E., and S.20°W.; gradually desc. W. slope, 175 ft. to

63.35 Left rim of gulch and top of 210 ft. nearly vertical ledge, bearing N.70°E. and S.70°W.; also point from which spring of pure water, bears N. 11°W., about 4 chs. dist., in the bottom of gulch; desc. abruptly into bottom.

69.15 Bottom of gulch, course S.80°W.; is 3 chs. wide in bottom. asc. along N. side of same, 100 ft. to

80.02 The cor. of secs. 14-15-22 and 23.

Land, broken mountainous, having a general SW. face and drainage.

Soil, mostly rocky in form of bedrock and ledges of sandstone formation, with shallow, fine sand and sandy loam.

Timber, medium dense scrub pinon and cedar, on mile.

Undergrowth, scattering sagebrush, few scattered oakbrush in gulches.

Poor grazing land.

---

N. 0°01' W., bet. secs. 14 and 15.

Over broken mountainous land, general face to SW., through medium dense timber; scattered undergrowth; ascending rocky land.

38.30 Top of ascent, 245 ft. above sec. cor., bears N.70°E. and S.70°W.; desc.

40.00 On N. slope, 20 ft. below top of ascent.

Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in a large mound of stone, for ½ sec. cor., with brass cap marked

¼

S15 | S14

1919 from which

Subdivision of T.30 S., R.24 E.

Chains

A pinon, 5 ins.diam., bears N.54½°W., 10 lks. dist., marked ¼ S15 BT
A pinon, 5 ins.diam.,bears S.15°E., 81 lks. dist.,marked ¼ S14 BT

44.30 Bottom of gulch, 65 ft. below ¼ cor., course SW.; asc.

55.60 Top of ascent, 110 ft. above gulch, bears NE. and SW.; desc. N. slope.

65.70 Gulch, 20 ft. deep, course SW.; asc. steep S. slope.

75.80 Top of ascent and S. rim of another gulch, 145 ft. above the last gulch, bears NE. and SW.; desc. abrupt N. slope.

80.00 On N. slope, 115 ft. below rim.

Set an iron post, 3 ft. long, 2 ins. dia., on bedrock, 24 ins. in a large mound of stone, for cor. secs. 10-11-14-and 15, with brass cap marked

| T30S \| R24E | |
|---|---|
| S10 | S11 |
| S15 | S14 |

1919

from which

A pinon, 6 ins.diam.,bears N.44¼°E., 6 lks. dist.,marked T30S R24E S11 BT
A pinon, 5 ins.diam.,bears S.34½°E., 67 lks. dist.,marked T30S R24E S14 BT
A pinon, 5 ins.diam.,bears S.70½°W., 35 lks. dist.,marked T30S R24E S15 BT
A pinon, 8 ins.diam.,bears N.31½°W., 54 lks. dist.,marked T30S R24E S10 BT

Land, broken mountainous, having a general SW. slope and drainage.

Soil, mostly rocky in form of sandstone bedrock and ledges. with shallow sandy loam.

Timber, medium dense scrub pinon and cedar, on mile.

Undergrowth, scattering sagebrush and brigham-tea.

Poor grazing land.

---

N. 89°54' E., on random line, bet. secs. 11 and 14.

40.00 Set temp. ¼ sec. cor.

79.96 Intersect N. and S. line, 14 lks. S. of cor. secs. 11-12-13 and 14; thence

S. 89°48' W., on true line, bet. secs. 11 and 14.

Over broken mountainous land, through medium dense timber; scattered undergrowth; asc. abruptly E. face of mountain, over ledges, 150 ft. to

Subdivision of T. 30 S., R. 24 E.

| Chains | |
|---|---|
| 2.00 | Top of mountain and 75 ft. rim ledge, bears N.20°W. for 3 chs. dist., thence more towards W., and S.20°E.; thence gradually descending general W. slope. |
| 39.98 | On W. slope, 265 ft. below top. Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in large mound of stone, for ¼ sec. cor., with brass cap marked<br>¼ S11 / S14<br>1919 from which<br>A pinon, 8 ins. diam., bears N.35°E., 102 lks. dist., marked ¼ S11 BT<br>A pinon, 10 ins. diam., bears S.55°E., 36 lks. dist., marked ¼ S14 /BT |
| 64.00 | Descending down along draw, course about W. |
| 77.00 | Draw turns to NW. |
| 79.96 | 400 ft. below ¼ cor. The cor. of secs. 10-11-14 and 15. Land, broken mountainous, rough surface of sandstone domes and bumps; E. 2 chs. E. face and drainage; remainder faces and drains W. Soil, mostly sandstone bedrock and ledges, with shallow loose sandy loam. Timber, medium dense scrub pinon and cedar on mile. Undergrowth, scattered sagebrush and brigham-tea. Poor grazing. |
| | -- ---------- |
| | N. 0°01' W., bet. secs. 10 and 11. Over broken mountainous land, through medium dense timber scattering short undergrowth; desc. rough rocky N. slope. |
| 2.50 | Bottom of draw or gulch, 30 ft. below cor., course W.; abruptly over ledges, 105 ft. to |
| 7.00 | Top of rocky point bet. canyon and gulch, projects S.80°W.; desc. abruptly over ledge, N. slope. |
| 12.10 | Bottom of narrow canyon, with nearly vertical sandstone walls, 305 ft. deep, course S.80°W.; abrupt ascent to |
| 18.95 | Top of N. wall of canyon, bears N.80°E. and S.80°W.; continue ascent over rough S. slope, 115 ft. to |

Subdivision of T. 30 S., R. 24 E.

| Chains | |
|---|---|
| 40.00 | In small depression or break in rocks, 20 ft. deep, drains to SW. Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in a mound of stone, for ¼ sec. cor., with brass cap marked<br>¼<br>S10 \| S11<br>1919 from which<br>A pinon, 5 ins.diam., bears N.79½°E., 27 lks. dist.,marked ¼ S11 BT<br>A pinon, 5 ins.diam.,bears N.70½°W., 22 lks. dist.,marked ¼ S10 BT |
| 50.70 | Top of ascent and S. rim of canyon, 85 ft. above ¼ cor., bears NE. and SW.; descend to wall of canyon. |
| 57.80 | Top of perpendicular sandstone wall, 160 ft. high, bears NE. and SW.; desc. abruptly. |
| 69.15 | Bottom of canyon, 425 ft. deep, course SW.; scattered fir along S. side of canyon; asc. N. side. |
| 75.80 | Top of N. wall, 165 ft. high, bears NE. and SW.; thence gradually asc. SW. slope. |
| 80.00 | On SW rough surface. Set an iron post, 3 ft. long, 2 ins. dia., on bedrock; 24 ins. in large mound of stone, for cor. secs. 2-3-10 and 11, with brass cap marked<br>T30S \| R24E<br>S3 \| S2<br>S10 \| S11<br>1919 from which<br>A cedar, 6 ins.diam.,bears S.52°E., 21 lks. dist.,marked T30S R24E S11 BT<br>A pinon, 5 ins.diam.,bears S.54° W., 46 lks. dist.,marked T30S R24E S10 BT<br>A pinon, 6 ins.diam.,bears N.82½°W., 17 lks. dist.,marked T30S R24E S3 BT<br>Raise a mound of stone 2 ft.base,1½ ft.high W.of cor. No suitable tree available in sec. 2. |
| | Land, broken mountainous, having a general slope and drainage to SW.; is broken by deep, nearly impassable canyons, with vertical sandstone walls; surface rough with sandstone knobs and hillocks. |
| | Soil, mostly barren sandstone bedrock and ledges, with some shallow, loose sandy loam. |

Subdivision of T. 30 S., R. 24 E.

| Chains | |
|---|---|
| | Timber, medium dense scrub pinon and cedar on mile; few large scattered fir trees in canyon bottom and N. slope. Undergrowth, very scattered short sagebrush. No grazing. Mile exceptional difficult to survey. |
| | --- |
| | N. 89°48' E., on random line, bet. secs. 2 and 11. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.98 | Intersect the cor. secs. 1-2-11 and 12; |
| | Thence; |
| | S. 89°48' W., on true line, bet. secs. 2 and 11. |
| | Over broken land facing E., through dense pinon and cedar; asc. gradually E. slope towards foot of mountain. |
| 14.00 | Foot of mountainous land, bears N.20°W. and S.20°E.; asc. abruptly E. face over series of broken red sandstone ledges. |
| 29.20 | Top of lower rim, 310 ft. above sec. cor., bears N.20°W. and S.20°E.; thence gradually asc. towards higher rim, across bench. |
| 38.00 | Asc. abruptly E. slope of rim. |
| 39.99 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼ S2 / S11<br>1919 from which<br>A pinon, 10 ins.diam.,bears N.64°E., 24 lks. dist.,marked ¼ S2 BT<br>A pinon, 7 ins.diam.,bears S.9°E., 71 lks. dist.,marked ¼ S11 BT |
| 41.35 | Top of higher rim and of mountain, 65 ft. above ¼ cor., and 440 ft. above the sec. cor., bears NW20°W. and S.20°E thence along top, slight W. slope, desc. 60 ft. to |
| 52.70 | E. rim of canyon, bears NE. and SW.; desc. abruptly over ledges, 380 ft. to |
| 68.85 | Bottom of canyon, course SW.; asc. abruptly 250 ft. to |
| 75.40 | Rim of canyon, bears N.E. and SW. |
| 79.98 | The cor. of secs. 2-3-10 and 11. |

Subdivision of T.30 S., R.24E.

| Chains | |
|---|---|
| | Land, low broken on E. 14 chs., rough mountainous on remainder; E. face and drainage into Big Indian Wash, on E. 41.35 chs., to SW. on western portion. |
| | Soil, rocky in form of bedrock and broken sandstone ledges, with shallow sandy and gravelly loam, some clay on E. slope. |
| | Timber, medium dense to scattering scrub pinon and cedar. |
| | Undergrowth, scattering sagebrush. |
| | Poor grazing land. |
| | --- |
| | N. 0°10' E., on random line, bet. secs. 2 and 3. |
| 40.00 | Set temp. ¼ sec. cor., |
| 80.09 | Intersect N. bdy. of tp.; 7 lks. E. of cor. secs. 2-3-34 and 35, hereinbefore described. |
| | Thence, |
| | S. 0°07' W., on true line, bet. secs. 2 and 3. |
| | Over broken mountainous land, through dense timber; scattering undergrowth.; gradually ascending |
| 32.50 | Asc. N. slope, 65 ft. rim, bears E. and W. |
| 40.09 | On top of higher level, 160 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in ground to bedrock, and in a mound of stone, for ¼ sec. cor., with brass cap marked |
| | ¼<br>S3 \| S2<br>1919 |
| | from which |
| | A pinon, 6 ins.diam.,bears N.76°E.; 40 lks. dist.,marked ¼ S2 BT<br>A pinon, 10 ins.diam.,bears N.81°W., 47 lks. dist.,marked ¼ S3 BT |
| | Thence over rolling top of mountain, NW. slope. |
| 58.00 | Descend over SW. slope, 205 ft. to |
| 80.09 | The cor. of secs. 2-3-10 and 11. |
| | Land, broken and rolling mountainous; drainage to E. on N. portion and to SW. on souther part. |
| | Soil, rocky, with shallow sandy loam; sandstone formation. |

Subdivision of T. 30 S., R. 24 E.

Chains

Timber, dense to scattering scrub pinon and cedar, on mile
Undergrowth, scattering sagebrush.
Fair grazing on portion of mile.

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From the standard cor. of secs. 33 and 34 on S. bdy. of tp., which is an iron post, 3 ins. dia., extending 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

Thence,

N. 0°02' W., bet. secs. 33 and 34.

Gently asc. along a W. slope, from cor. standing in cove, draining N.30°W., through scattering timber.

5.10 Base of sandstone ledge, bears N.30°W. and S.30°E.; asc. abruptly, 85 ft. to

9.70 Top of ledge or wall, bears same; thence over point of spur, projecting NW.

14.40 Top of ascent on spur; gently desc.

19.50 Top of sandstone ledge, bears N.10°W. and S.10°E.; abrupt descent.

25.00 Base of ledge, 200 ft. below top; thence over gently rolling land, facing N.

26.00 Leave timber, bears same as ledge; continue through sparse sagebrush and greasewood.

29.50 Wire fence, bears S.87½°W., for 3 chs. to foot of ledge, and N.87½°E., abou t ¾ mile to foot of same ledge.

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

¼

S33 | S34

1919

dig pits, 18x18x12 ins., N. and S., of post, 3 ft. dist.

80.00 On gentle NW. slope, 70 ft. below ¼ cor.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 27-28-33 and 34, with brass cap marked

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | T30S \| R24E<br>S28 \| S27<br>S33 \| S34<br>1919 |
| | dig pits, 18x18x12 ins., NE., SE., SW., and NW., of post, 3 ft. dist. |
| | Land, broken, rocky land on 20 chs.; gently rolling on 60 chs.; exposure and drainage generally to NW. |
| | Soil, sandy and gravellyloam, with some clay, on the rolling portion; rocky, with shallow loose sand, on the rough portion. |
| | Timber, scattering cedar and pinon, on S. 26 chs. |
| | Undergrowth, sparse, short sagebrush and greasewood. |
| | Good grazing land. |
| | East, on random line, bet. secs. 27 and 34, |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.80 | Intersect N. and S. line, 2 lks. S. of cor. secs. 26-27-34 and 35; thence |
| | S. 89°59' W., on true line, bet. secs. 27 and 34. |
| | Over gently rolling land, facing NW., through sparse undergrowth. |
| 39.90 | 70 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼ S27 / S34<br>1919 |
| | dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. |
| 53.80 | Road to Uranium mine, bears NW. and SE. |
| 79.80 | The cor. of secs. 27-28-33 and 34, 60 ft. below ¼ cor. |
| | Land, rolling, having a gentle NW. slope. |
| | Soil, sandy, clay loam, with fine gravel. |
| | Undergrowth, sparse sagebrush and greasewood. |
| | No timber. Good grazing land. |

Subdivision of T. 30 S., R. 24 E.

| Chains | |
|---|---|
| | N. 0°02' W., bet. secs. 27 and 28. |
| | Over rolling land, facing NW., through short undergrowth. |
| 4.00 | Midland Telephone Co.'s line, bears N.80°E. and S.80°W. |
| 10.20 | Road, Moab to Monticello, via La Sal, bears N.80°E. and S.80°W. |
| 28.40 | Wash, 10 lks. wide, 3 ft. deep, course NW. |
| 40.00 | On gentle NW. slope, 30 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked |
| | ¼ \| S28 \| S27 \| 1919 |
| | dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. |
| 43.70 | Road, bears N.20°W., (leads to spring in sec. 14,) and S.20°E. |
| 47.50 | Wash, 10 lks. wide, 2 ft. deep, course NW.; begin slight ascent over SW. slope. |
| 56.00 | Enter considerable sandstone bedrock, bears NW. and SE. |
| 73.40 | Top of sandstone raise, 55 ft. above last wash, bears N.70°W. and SE.; scattered timber extends along raise. |
| 76.20 | Leave bedrock and timber, bears E. and W.; desc. 40 ft. |
| 80.00 | In S. edge of bottom lands of Big Indian Wash. |
| | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 21-22-27 and 28, with brass cap marked |
| | T30S \| R24E / S21 \| S22 / S28 \| S27 / 1919 |
| | dig pits, 18x18x12 ins., NE., SE., SW., and NW. of post, 3 ft. dist. |
| | Land, gently rolling, having a general NW. exposure and drainage into Big Indian Wash. |
| | Soil, sandy clay loam on hardpan of clay; sandstone bedrock on 20 chs. |
| | Undergrowth, scattered, short sagebrush and greasewood. |
| | Timber, scattered cedar and pinon, on 20 chs. |
| | Good grazing. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | N. 89°59' E., on random line, bet. secs. 22 and 27. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.82 | Intersect N. and S. line, 21 lks. N. of cor. secs. 22-23-26 and 27; thence |
| | N. 89°52' W., on true line, bet. secs. 22 and 27. |
| | Gradually desc. SW., slope, through dense cedar and pinon; scattered short undergrowth; rocky soil. |
| 10.20 | Enter level bottom land, and greasewood, leave timber, bears N.70°W. and S.70°E.; 45 ft. below cor. |
| 25.30 | Big Indian Wash, 1½ chs. wide, 30 ft. deep, course N.70°W. |
| 39.91 | In bottom land. |
| | Set an iron post, 2 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked |
| | ¼ S22 / S27 1919 |
| | dig pits, 18x18x12 ins., E. and W., of post, 3 ft. dist. |
| 41.50 | Leave bottom land, enter rolling, facing N., through some scattered timber, bears N.70°W. and S.70°E.; asc. |
| 60.00 | Top of ascent on N. slope, 25 ft. above bottom land; gradually desc. 65 ft. to |
| 79.82 | The cor. of secs. 21-22-27 and 28. |
| | Land, rolling and level; drainage into Big Indian Wash, which drains nearly W. |
| | Soil, rocky on E. 10.30 chs; deep sandy and clay loam on remainder; sandstone formation. |
| | Timber, dense on E. 10 chs.; scattered pinon and cedar on 38½ chs. |
| | Undergrowth, medium to scattered sagebrush and greasewood. |
| | Grazing land. |
| | N. 0°02' W., bet. secs. 21 and 22. |
| | Over level bottom land, through greasewood. |
| 8.10 | Big Indian Wash, 60 lks. wide, 20 ft. deep, perpendicular banks, course W. |

Subdivision of T.30 S., R.24 E.

Chains

12.10 Wash, 20 lks. wide, 10 ft. deep, course SW.

13.40 Road to spring, bears E. and W.; leave bottom land and heavy greasewood, enter rolling and broken land, facing SW., through scattered undergrowth; ascending.

38.00 Enter medium dense timber, bears E. and W.

40.00 On S. slope, 50 ft. above wash.

Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in a large mound of stone, for ¼ sec. cor., with brass cap marked

¼
S21 | S22
1919

from which

A pinon, 18 ins.diam., bears N.83¾°E., 175 lks. dist., marked ¼ S22 BT
A pinon, 8 ins.diam., bears S.11½°W., 250 lks. dist., marked ¼ S21 BT

77.00 Leave timber, bears NE. and SW.

80.00 On S. slope, 105 ft. above ¼ cor.

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

T30S | R24E
S16 | S15
S21 | S22
1919

from which

A pinon, 10 ins.diam., bears N.67½°E., 205 lks. dist., marked T30S R24E S15 BT
A cedar, 12 ins.diam., bears S.64½°E., 165 lks. dist., marked T30S R24E S22 BT

and dig pits, 18x18x12 ins., NE., SE., SW., and NW. of post 3 ft. dist. No trees available in secs. 16 and 21.

S. 13.40 chs. level bottom land along Big Indian Wash; remainder rolling and broken land, sloping SW.

Soil, sandy clay in bottom; shallow loose sandy loam, with outcrops of sandstone bedrock on remainder.

Timber, medium dense scrub cedar and pinon, on 39 chs.

Undergrowth, medium to scattering growth of greasewood and sagebrush. Fair grazing land.

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Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | S. 89°52' E., on random line, bet. secs. 15 and 22. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.76 | Intersect N. and S. line, 5 lks. N. of cor. secs. 14-15-22 and 23; thence, |
| | N. 89°50' W., on true line, bet. secs. 15 and 22. |
| | Over rocky, broken land, through scattering timber and short undergrowth; asc. from rim of canyon, 45 ft. to |
| 5.50 | Top of ascent, bears NE. and SW.; desc. W. slope. |
| 25.36 | Point from which a corral bears S.27¼°W., approximately ½ mile dist. |
| 27.65 | Base of slope, 185 ft. below top, leave timber; enter level canyon bottom with dense greasewood and sagebrush, bears N. and S. |
| 35.35 | Wash, 30 lks. wide, 10 ft. deep, in canyon, course S. |
| 39.88 | In bottom land. |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S15/S22 1919 from which |
| | A cedar, 6 ins.diam., bears S.5°W., 60 lks. dist., marked ¼ S22 BT |
| | A cedar, 5 ins.diam., bears N.87½°W., 116 lks. dist., marked ¼ S15 BT |
| 42.65 | Leave bottom land, enter steep, rocky land and medium dense timber, bears NW. and SE.; asc. abruptly NE slope, |
| 45.00 | Top of abrupt ascent, bears N.20°W. and S.20°E. |
| 47.50 | Top of ascent, 135 ft. above ¼ cor., bears same.; desc. gradual W. slope. |
| 77.75 | Leave timber, bears NE. and SW. |
| 79.76 | The cor. of secs. 15-16-21 and 22, 125 ft. below top. |
| | Land, broken on E. 27.65 chs. and W. 37 chs., level canyon bottom on remainder. |
| | Soil, rocky in form of bedrock and ledges, with shallow, loose sandy loam; deep sandy loam in canyon. |
| | Timber, medium dense to scattering scrub cedar and pinon, on 63 chs. |
| | Undergrowth, sagebrush and greasewood. Fair grazing. |

Subdivision of T.30 S., R.24 E.

Chains

N. 0°02' W., bet. secs. 15 and 16.

Ascending rolling land, facing SW., through sagebrush.

16.70 Small wash, near head, drains SW.

22.00 Enter medium dense scrub timber, bears N.10°W-S.10°E.

33.00 Top of ascent on low flat ridge, 85 ft. below sec. cor., bears NW. and SE.; desc. towards rim of gulch, 35 ft.

40.00 On S. rim of gulch, bearing NW. and SE.

Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in mound of stone, for ¼ sec. cor., with brass cap marked

¼

S16 | S15

1919

No other accessories to cor. Trees within limits but too scrubby to mark.

Abrupt descent N. slope over ledges, 100 ft. to

42.40 Bottom of gulch, course S.80°E. for 5 chs. dist. to main canyon, course about S.; abrupt ascent.

43.10 N. rim of gulch, bears N.70°W. and S.70°E.; thence over low broken, rocky land, near W. rim of canyon, bearing nearly N. and S.; ascending 115 ft. to

62.55 Rim of canyon, bears N.10°W. and S.10°E.; thence along steep E. slope; desc. 50 ft. to

70.50 Depression on E. slope, drains E.; asc. 70 ft. along E. slope.

80.00 On steep rocky E. slope.

Set an iron post, 3 ft. long, 2 ins. dia., on underlying rock, 24 ins. in a large mound of stone, for cor. of secs. 9-10-15 and 16, with brass cap marked

T30S | R24E
S9 | S10
S16 | S15

1919

from which

A cedar, 5 ins.diam., bears N.33½°E., 60 lks. dist., marked T30S R24E S10 BT
A pinon, 7 ins.diam., bears S.26½°E., 100 lks. dist., marked T30S R24E S15 BT
A pinon, 6 ins.diam., bears S.15½°W., 27 lks. dist., marked T30S R24E S16 BT
A pinon, 6 ins.diam., bears N.22½°W., 91 lks. dist., marked T30S R24E S9 BT

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | Land, rolling and broken; gentle SW. slope on S. 33 chs., and to E. into a canyon, which drains about S. on remainder. |
| | Soil, sandy and clay loam and rocky; sandstone formation. |
| | Timber, medium dense scrub cedar and pinon, on N. 58 chs. |
| | Undergrowth, scattered sagebrush and greasewood. |
| | Fair grazing land on S. ½ mile. |
| | --- |
| | S. 89°50' E., on random line, bet. secs. 10 and 15. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.86 | Intersect N. and S. line, 2 lks. N. of cor. secs. 10-11-14 and 15; thence |
| | N. 89°49' W., on true line, bet. secs. 10 and 15. |
| | Over broken mountainous land, through medium dense scrub timber and scattering short undergrowth; rocky soil. |
| | Descend along broken ledgy N. slope. |
| 3.00 | Rim ledge, 30 ft. high, bears NE. and SW. |
| 9.00 | Gulch, course SW. |
| 14.80 | Recross same gulch, 210 ft. below sec. cor., course NW.; asc. abruptly 220 ft. |
| 22.50 | Top of ascent, bears NW. and SE.; desc. along NW. slope. |
| 39.93 | On NW. slope, 85 ft. below top of ascent. |
| | Set an iron post, 3 ft. long, 1 in. dia., on underlying rock, 26 ins. in a large mound of stone, for ¼ sec. cor., with brass cap marked |
| | $\frac{1/4}{\frac{S10}{S15}}$ |
| | 1919 |
| | No accessories to cor. No suitable trees within limits. |
| | Continue descent along NW. slope, near S. rim of canyon, bearing nearly E. and W. |
| 65.00 | Rim of canyon, 155 ft. below ¼ cor., bears N.80°E. and S.; desc. abruptly W. slope, 120 ft. to |
| 71.75 | Bottom of canyon; course S.; forks of canyons from N.10°E. and N.80°E., bears N. of line 1 ch. dist. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | Asc. W. slope over broken ledges, 110 ft. to |
| 79.86 | The cor. of secs. 9-10-15 and 16. |
| | Land broken mountainous; NW. exposure on E. 71¾ chs., E. on the remainder. |
| | Soil, rocky in form of broken ledges and bedrock, with some loose rock on surface, and shallow sandy loam. |
| | Timber, medium dense scrub cedar and pinon. |
| | Undergrowth, scattered sagebrush. |
| | Poor grazing land. |
| | --- |
| | N. 0°02' W., bet. secs. 9 and 10. |
| | Over rolling mountainous land, through dense cedar and pinon timber; short scattering undergrowth; along steep ledgy E. slope. |
| 17.00 | Top rim of canyon, 35 ft. above cor., bears NE. and S.10°W |
| | thence gently ascend along smooth SW. slope, 75 ft. to |
| 40.00 | Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in a large mound of stone, for ¼ sec. cor., with brass cap marked |

¼

S9 | S10

1919

from which

A pinon, 10 ins. diam., bears N.32°E., 42 lks. dist., marked ¼ S10 BT

A pinon, 5 ins. diam., bears S.50°W., 80 lks. dist., marked ¼ S9 BT

Cor. stands at top of the gentle ascent, bears NE. and SW. thence over more broken land facing about W.

| | |
|---|---|
| 69.00 | Bottom of rocky gulch, 105 ft. deep, course SW. |
| 77.10 | Bottom of gulch, 40 ft. deep, course S.30°W.; asc. SE. slope. |
| 80.00 | On SE. slope. |
| | Set an iron post, 3 ft. long, 2 ins. dia., on bedrock, 24 ins. in mound of stone, for cor. of secs. 3-4-9 and 10, with brass cap marked |

T30S | R24E

S4 | S3

S9 | S10

1919

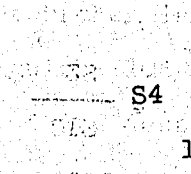
from which

Subdivision of T. 30 S., R.24 E.

| Chains | |
|---|---|
| | A pinon, 5 ins.diam.,bears S.26°E., 79 lks. dist.,marked T30S R24E S10 BT<br>A pinon, 6 ins.diam.,bears S.70¼°W., 35 lks. dist.,marked T30S R24E S9 BT |
| | No suitable trees within limits in remaining secs.; no other accessories to cor. built. |
| | Land, mountainous, low rolling and broken; having a general SW. exposure and drainage. |
| | Soil, rocky of sandstone formation, in form of bedrock and broken ledges, with very shallow, loose sandy loam. |
| | Timber, dense scrub pinon and cedar. |
| | Undergrowth, scattered, short sagebrush. |
| | Poor Grazing land. |
| | S. 89°49' E., on random line, bet. secs. 3 and 10. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.80 | Intersect the cor. of secs. 2-3-10 and 11. |
| | Thence, |
| | N. 89°49' W., on true line, bet. secs. 3 and 10. |
| | Over broken mountainous land, facing SW., through medium dense timber; scattering undergrowth; asce. gradual SE. slope, 50 ft. to |
| 5.00 | Top of ascent, bears NE. and SW.; thence over SW. slope. |
| 31.30 | Small gulch, 40 ft. deep, course SW. |
| 39.90 | On SW. slope, 300 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in mound of stone, for ¼ sec. cor., with brass cap marked<br>¼ S3 / S10<br>1919<br>from which<br>A pinon, 6 ins.diam.,bears N.0¼°W., 26 lks. dist., marked ¼ S3 BT<br>A pinon, 6 ins.diam.,bears S.53°W., 22 lks. dist., marked ¼ S10 BT |
| 43.70 | Small gulch, 20 ft. deep, course SW. |
| 50.00 | Rim bears N.20°E. and SW.; begin steeper descent. |
| 65.75 | Gulch, 290 ft. below ¼ cor., course SW.: asc. abruptly |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | over ledges, 90 ft. to |
| 73.50 | Top of rocky point bet. gulches, projects SW.; desc. abruptly 100 ft. to |
| 78.80 | Gulch, course S.30°W.; asc. 35 ft. to |
| 79.80 | The cor. of secs. 3-4-9 and 10. |
| | Land, mountainous, rolling and broken; general SW. slope. |
| | Soil, rocky in form of bedrock and ledges, with shallow sandy loam. |
| | Timber, medium dense scrub pinon and cedar on mile. |
| | Undergrowth, sagebrush. Poor grazing. |
| | --- |
| | N. 0°07' E., on random line, bet. secs. 3 and 4. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.79 | Intersect N. bdy. of tp., 12 lks. E. of true point for cor. secs. 3-4-33 and 34 hereinbefore described. |
| | Thence, |
| | S. 0°02' W., on true line, bet. secs. 3 and 4, from true cor. point, which is 1.43 chs. E. of the witness cor. |
| | Over broken mountainous land, through dense timber; scattered undergrowth; asc. abruptly NE. slope from bottom of gulch, 135 ft. to |
| 12.35 | Rim of gulch and top of ascent, bears N.30°W. and SE.; thence along nearly W. slope, descending, 95 ft. to |
| 39.79 | Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in mound of stone, for ¼ sec. cor., with brass cap marked |




from which

A pinon, 5 ins.diam., bears S.60¼°E., 10 lks. dist., marked ¼ S3 BT.

A pinon, 6 ins.diam., bears S.51½°W., 59 lks. dist., marked ¼ S4 BT.

Continue descent.

| | |
|---|---|
| 60.00 | Low flat ridge, bears N.80°E. and S.80°W.; descend steeper SW. slope. |
| 73.45 | Descend abruptly over ledges, bearing NE. and SW., 115 ft. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| 79.79 | The cor. of secs. 3-4-9 and 10. |
| | Land, rolling and broken mountainous, having a general SW. exposure and drainage. |
| | Soil, rocky in form of sandstone outcrops, bedrock and ledges, with shallow, loose sandy loam. |
| | Timber, dense scrub pinon and cedar on mile. |
| | Undergrowth, scattering sagebrush. Poor grazing. |
| | --- |
| | From the standard cor. of secs. 32 and 33 on S. bdy. of tp., which is an iron post, 3 ins. dia., extending 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. |
| | Thence, |
| | N. 0°03' W., bet. secs. 32 and 33. |
| | Over rolling bench land, slight SW. slope, through dense sagebrush. |
| 14.00 | Base of sandstone ridge and enter considerable timber, bears NW. and SE.; asc. SW. slope. |
| 38.25 | Top of sandstone ridge, 200 ft. above sec. cor., bears NW. and SE.; desc. abruptly, 100 ft. to |
| 40.00 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼<br>S32 \| S33<br>1919<br>from which<br>A cedar, 8 ins.diam.,bears N.70¾°E., 100 lks. dist.,marked ¼ S33 BT<br>A pinon, 12 ins.diam.,bears S.17°W., 79 lks. dist.,marked ¼ S32 BT |
| 41.00 | N. base of ridge, leave timber, and enter rolling bench, with medium dense sagebrush, NE. slope; brs. E. and W. |
| 47.80 | Midland Telephone Co.'s line, bears NE. and SW. |
| 77.50 | Road, Moab to Monticello, via La Sal, bears N.80°E. and S.80°W. |
| 80.00 | On NE. slope, 80 ft. below ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 28-29-32 and 33, with brass cap |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | marked T30S \| R24E / S29 \| S28 / S32 \| S33 / 1919 |
| | dig pits, 18x18x12 ins., in each sec., NE., SE., SW., and NW. of post, 3 ft. dist. |
| | Land, rolling bench on 53. chs.; steep slopes of sandston ridge on 27 chs.; exposure and drainage to SW. on S. 38 chs., and to NE. on remainder of mile. |
| | Soil, on bench, deep, hard sandy clay loam, on clay and hard pan subsoil; on ridge, mostly barren sandstone slick rock. |
| | Timber, scattering scrub pinon and cedar on 27 chs. |
| | Undergrowth, medium growth of sagebrush, few greasewood. |
| | Good grazing land. |
| | --- |
| | East, on random line, bet. secs. 28 and 33. |
| 40.00 | Set temp. ½ sec. cor. |
| 79.92 | Intersect the cor. of secs. 27-28-33 and 34. |
| | Thence, |
| | West, on true line, bet. secs. 28 and 33. |
| | Over gently rolling land, facing N., through short undergrowth. |
| 16.00 | Telephone line, bears N.60°E. and S.60°W. |
| 39.96 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ½ sec. cor., with brass cap marked ½ S28 / S33 / 1919 |
| | dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. |
| | Note: Road, about E. and W., bears N. of line about 1 ch. dist. |
| 60.20 | Road, Moab to Monticello, via La Sal, bears N.85°E. and S.85°W. |
| 79.92 | The cor. of secs. 28-29-32 and 33. |
| | Land, gently rolling, with exposure to N. |

Subdivision of T.30 S., R.24 E.

Chains

Soil, sandy clay loam, on clay and hard pan sub-soil. Undergrowth, medium growth of short sagebrush and greasewood. No timber. Good grazing land.

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N. 0°03' W., bet. secs. 28 and 29.

Over rolling land, facing N. through short undergrowth.

40.00 .95 ft. below sec. cor.

Set an iron post, 3 ft. long, 1 in. dia., 15 ins. in ground to bedrock, and in a mound of stone, for ¼ sec. cor., with brass cap marked

| | |
|---|---|
| S29 | ¼ S28 |
| 1919 | |

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

65.00 Enter level bottom land, bears N.50°W. and S.50°E.

80.00 True point for sec. cor. falls in water course of Big Indian Wash, 50 lks. wide, 12 ft. deep, course N.80°W. No cor. set here, therefore at

81.37 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for witness cor. to secs. 20-21-28 and 29, with brass cap marked

| | |
|---|---|
| T30S | R24E |
| S20 | S21 |
| S29 | S28 |
| WC | |
| 1919 | |

dig pits, 18x18x12 ins., in each sec., NE., SE., SW., and NW., of post, 3 ft. dist.

Land, rolling, having gentle N. exposure, on S. 65 chs. remainder of mile level land, in Big Indian Wash.

Soil, sandy clay loam, with few scattered outcrops of sandstone bedrock in N. ½ mile.

Undergrowth, medium growth of short sagebrush; heavy greasewood in bottom land.

No timber. Fair grazing.

---

| Chains | |
|---|---|
| | East, on random line, bet. secs. 21 and 28, from true point for sec. cor. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.98 | Intersect N. and S. line, 2 lks. S. of cor. secs. 21-22-27 and 28. |
| | Thence, |
| | S. 89°59' W., on true line, bet. secs. 21 and 28. |
| | Over level bottom land along Big Indian Wash, through dense greasewood. |
| 13.60 | Road, bears NE. and SW. |
| 39.99 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼ S21 / S28 1919<br>dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. |
| 55.90 | Big Indian Wash, 50 lks. wide, 12 ft. deep, course S.80°W. |
| 79.98 | The cor. of secs. 20-21-28 and 29, true point. |
| | Land, level, lying along Big Indian Wash. |
| | Soil, deep, fine sandy clay loam, on clay subsoil. |
| | Undergrowth, dense greasewood. |
| | No timber. Fair grazing land. |
| | --- |
| | N. 0°03' W., bet. secs. 20 and 21, counting dist. from true point. |
| 1.37 | The witness cor. |
| | Over level bottom land, through dense greasewood. |
| 23.00 | Leave bottom land and dense greasewwod, enter rolling land, facing SW., through sagebrush and greasewood. |
| 40.00 | 50 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>S20 ¼ S21 / 1919<br>raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| 76.00 | Enter scattering timber, bears E. and W. |
| 80.00 | 115 ft. above ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 16-17-20 and 21, with brass cap marked |
| | T30S \| R24E<br>S17 \| S16<br>S20 \| S21<br>1919 |
| | from which |
| | A pinon, 10 ins.diam.,bears N.1⅝°E., 110 lks. dist.,marked T30S R24E S16 BT<br>A cedar, 8 ins.diam.;bears S.30¼°E., 135 lks. dist.,marked T30S R24E S21 BT.<br>A pinon, 14 ins.diam.,bears S.70¼°W., 50 lks. dist.,marked T30S R24E S20 BT<br>A pinon, 12 ins.diam.,bears N.44°W., 105 lks. dist.,marked T30S R24E S17 BT |
| | Land, level bottom land, on S. 23 chs.; rolling on the remainder, facing to SW. |
| | Soil, sandy and clay loam, few scattered rock; sandstone formation. |
| | Undergrowth, heavy greasewood in bottom land; scattered sagebrush and greasewood on rolling. |
| | Timber, scattering cedar and pinon, on N. 4 chs. |
| | Fair grazing land. |
| | N. 89°59' E., on random line, bet. secs. 16 and 21. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.04 | Intersect N. and S. line, 2 lks. N. of cor. secs. 15-16-21 and 22; thence, |
| | West, on true line, bet. secs. 16 and 21. |
| | Over rolling land, facing generally S., through scattering timber, and short undergrowth; desc. gradually. |
| 9.55 | Wire fence, bears N. and S. |
| 24.20 | Ravine; 50 ft. below sec. cor., course S.; asc. gradually. |
| 36.30 | Top of ridge; 100 ft. above ravine, bears N. and S. |
| | Descend. |
| 40.02 | Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in ground to bedrock, and in a mound of stone, for ¼ sec. cor., with brass cap marked |

Subdivision of T.30 S., R.24 E.

Chains

$\frac{1}{4}$ S16
S21
1919 from which

A pinon, 6 ins.diam., bears N.21¼°W., 51 lks. dist. marked ¼ S16 BT
A pinon, 10 ins.diam., bears S.59°E., 65 lks. dist., marked ¼ S21 BT

58.60 Ravine, 115 ft. below ridge, course SW.; asc. 140 ft. to

80.04 The cor. of secs. 16-17-20 and 21.

Land, rolling, having a general S. exposure and drainage.

Soil, sandy clay loam, with gravel and scattered outcrops of sandstone bedrock.

Timber, scattering scrub pinon and cedar on mile.

Undergrowth, scattered sagebrush and greasewood.

Fair grazing land.

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N. 0°03' W., bet. secs. 16 and 17.

Over rolling and broken land, through scattering timber; short undergrowth; asc. gradually 50 ft.

20.00 Ridge, bears NE. and SW.; desc. 55 ft. to

30.30 Draw, course SW.; asc. SE. slope 35 ft. to

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

¼
S17 | S16
1919 from which

A pinon, 8 ins.diam., bears S.86°E., 78 lks. dist., marked ¼ S16 BT
A pinon, 8 ins.diam., bears N.16¼°W., 13 lks. dist., marked ¼ S17 BT

Asc. gradual SE. slope, 95 ft. to

61.25 Ridge, bears NE. and SW.; E. end of solid sandstone ridge, bears S.35°W. about 12 chs. dist.; thence along W. slope.

69.70 Swale, 30 ft. below ridge, drains W.; asc. 30 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in ground to bedrock, and in a mound of stone, for cor. secs. 8-9-16 and 17, with brass cap marked

T30S | R24E
S8 | S9
S17 | S16
1919 from which

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | A pinon, 10 ins.diam.,bears N.17°E., 150 lks. dist.,marked T30S R24E S9 BT<br>A pinon, 8 ins.diam.,bears S.59½°E., 15 lks. dist., marked T30S R24E S16 BT<br>A pinon, 8 ins.diam.,bears S.54¼°W., 130 lks. dist.,marked T30 S.R24E S17 BT<br>A pinon, 12 ins.diam.,bears N.58°W., 58 lks. dist.,marked T30S R24E S8 BT |
| | Land, rolling and broken, having a general SW. exposure and drainage. |
| | Soil, shallow sandy clay loam, with outcrops of sandstone bedrock. |
| | Timber, scattering scrub pinon and cedar on mile. |
| | Undergrowth, medium growth of short sagebrush and greasewood. Good grazing. |
| | East, on random line, bet. secs. 9 and 16. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.06 | Intersect N. and S. line, 7 lks. S. of cor. secs. 9-10-15 and 16; thence |
| | S. 89°57' W., on true line, bet. secs. 9 and 16. |
| | Asc. rocky E. slope, through medium dense timber; short scattering undergewth. |
| 3.25 | Rim of canyon, 30 ft. above cor., bears nearly N. and S. thence desc. gradual W. slope. |
| 10.00 | Leave timber, enter open sagebrush land, bears N. and S. |
| 32.00 | Wash, 30 lks. wide, 5 ft. deep, in bottom of wide swale, 150 ft. below the 3.25 ch. point, course S.20°E.; asc. E. slope, 80 ft. to |
| 40.03 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼ S9 / S16<br>1919 |
| | dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. Continue gradual ascent over rolling E. and SE. slopes. |
| 68.00 | Ridge, 50 ft. above ¼ cor., bears N. and S.30°W;. enter scattering timber and rocky soil, bears same.; desc. 50 ft. to |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| 80.06 | The cor. of secs. 8-9-16 and 17. |
| | Land, rolling and broken, general S. exposure. |
| | Soil, fine sandy clay loam on clay and hardpan sub-soil; excepting on E. and W. ends of mile, which is rocky of sandstone formation. |
| | Timber, scrub pinon and cedar, on E. 10 and W. 12 chs. |
| | Undergrowth, short sagebrush, shadscale and greasewood. |
| | Good grazing land. |
| | --- |
| | N. 0°03' W., bet. secs. 8 and 9. |
| | Over rolling and broken land, through scattering timber and short undergrowth; asc. SW. slope. |
| 13.90 | Small draw, course W. |
| 22.50 | Top of flat ridge, 105 ft. above sec. cor., bears NW. and SE.; leave timber, enter sagebrush and gently rolling land facing E. and SE. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼<br>S8 \| S9<br>1919<br>dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. |
| 60.00 | Thence over slight W. slope, bears NE. and SW. |
| 80.00 | On a slight W. slope, 50 ft. above ¼ cor.<br>Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 4-5-8 and 9, with brass cap marked<br>T30S \| R24E<br>S5 \| S4<br>S8 \| S9<br>1919<br>dig pits. 18x18x12 ins.; in each sec., NE., SE., SW., and NW. of post, 3 ft. dist. |
| | Land, rolling and broken; exposure and drainage to SW. W., on the S. 22½ and N. 20 chs.; to SE., on remainder. |
| | Soil, sandy clay loam, with gravel and some rock. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | Timber, scattering pinon and cedar, on S. 22½ chs. |
| | Undergrowth, medium growth of short sagebrush and shadscale. Good grazing. |
| | --- |
| | N. 89°57' E., on random line, bet. secs. 4 and 9. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.20 | Intersect N. and S. line, 7 lks. N. of cor. secs. 3-4-9 and 10; thence, |
| | West, on true line, bet. secs. 4 and 9. |
| | Over broken land, through medium dense timber, and scattering undergrowth; asc. abruptly over ledges, 65 ft. to. |
| 1.00 | Top of ascent on W. side of canyon, bears NE. and SW.; desc. gradually W. slope, 135 ft. to |
| 31.00 | Base of descent in draw, course S.; asc. E. slope. |
| 40.10 | On E. slope, 45 ft. above draw. |
| | Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in ground, to bedrock, and in a mound of stone, for ¼ sec. cor., with brass cap marked<br>¼ S4 / S9 / 1919 from which<br>A pinon, 8 ins.diam.,bears S.85°W., 8 lks. dist., marked ¼ S9 BT.<br>A pinon, 8 ins.diam.,bears N.2°E., 63 lks. dist., marked ¼ S4 BT |
| 47.50 | Top of ascent on E. end of high table land, bears N. and S.; desc. gradual W. slope. |
| 72.00 | Leave timber and rocky land, bears N. and S.; slight descent W. slope. |
| 80.20 | The cor. of secs. 4-5-8 and 9, 185 ft. below top at 47½ chs. |
| | Land, broken, having a general S. to SW. exposure and dfainage. |
| | Soil, sandy and gravelly loams, mixed with rock, and outcrops of sandstone bedrock and ledges. |
| | Timber, medium dense scrub pinon and cedar, on E. 72 chs. |
| | Undergrowth, scattering sagebrush. Fair grazing land. |
| | --- |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | N. 0°02' E., on random line, bet. secs. 4 and 5. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.90 | Intersect N. bdy. of tp., 5 lks. W. of cor. secs. 4-5-32 and 33 hereinbefore described; thence, |
| | S. 0°04' W., on true line, bet. secs. 4 and 5. |
| | Over rough broken land, through medium dense timber, and scattering short undergrowth; asc. N. slope, 20 ft. to |
| 8.80 | Top of rocky Spur, projects W.; desc. abruptly over ledge. |
| 15.00 | Base of spur, 70 ft. below top, bears SE. and W.; thence over low broken land, facing about W. |
| 28.00 | Ravine, 125 ft. below spur, course W.; asc. 105 ft. to |
| 39.90 | On N. slope. |
| | Set an iron post, 3 ft. lomg, 1 in. dia., on bedrock, 26 ins. in a mound of stone, for ¼ sec. cor., with brass cap marked |
| | ¼<br>S5 \| S4<br>1919 |
| | from which |
| | A pinon, 10 ins.diam., bears S.6°E., 56 lks. dist.,marked ¼ S4 BT |
| | A pinon, 8 ins.diam.,bears S.46°W., 50 lks. dist.,marked ¼ S5 BT |
| 45.80 | Top of N. rim of flat spur, 25 ft. above ¼ cor., bears NE. and SW.; thence along flat top. |
| 67.00 | Leave top, desc. 115 ft. to |
| 75.00 | Gulch, course W.; water pockets in bottom, about 15 chs. down stream; asc. abruptly 120 ft. Leave timber. |
| 79.90 | The cor. of secs. 4-5-8 and 9. |
| | Land, rough and broken, general W. slope. |
| | Soil, rocky in form of ledges and bedrock, with shallow loose sandy loam and gravel. |
| | Timber, medium dense scrub pinon and cedar on N. 75 chs. |
| | Undergrowth, scattering short sagebrush and greasewood. |
| | Poor grazing land. |
| | --- |
| | From the standard cor. of secs. 31 and 32 on S. bdy. of tp., which is an iron post, 3 ins. dia., extending |

Subdivision of T.30 S., R.24 E.

Chains

12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

Thence /

N. 0°03' W., bet. secs. 31 and 32

Over level bottom land in Hatch Wash ( also known as East Canyon) through dense greasewood.

1.80 Road from Moab to Monticello, bears N.20°W. and S.20°E.; also center of old earth dam, about 6 ft. high, bearing N.70°E. and S.70°W.; is partly washed out.

18.00 Leave bottom land and greasewood, enter rolling bench land, with scattering timber and outcrops of sandstone bedrock, bearing NW. and SE.; asc. rough S. slope.

40.00 On S. slope, 120 ft. above sec. cor.

Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in mound of stone, for ¼ sec. cor., with brass cap marked

S31 | ¼ | S32

1919

from which

A pinon, 10 ins.diam.,bears S.80°E., 98 lks. dist.,marked ¼ S32 BT
A pinon, 20 ins.diam.,bears S.17½°W., 87 lks. dist.,marked ¼ S31 BT

40.80 Top of ascent, bears W. and SE.; also leave bedrock; thence over rolling bench, facing W., through less heavy timber.

70.10 Small wash, drains S.70°W.

80.00 On slight SE. slope.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 29-30-31 and 32, with brass cap marked

T30S | R24E
S30 | S29
S31 | S32

1919

from which

A pinon, 16 ins.diam.,bears S.87°E., 194 lks. dist.,marked T30S R24E S32 BT
A pinon, 12 ins.diam.,bears S.14°W., 343 lks. dist.,marked T30S R24E S31 BT

No trees within limits in remaining secs. and other

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | accessories not available. |
| | S. 18 chs. level bottom land, with dense greasewood; soil, deep, hard clay loam; remainder of mile rolling bench, with medium dense to scattering growth of scrub pinon and cedar timber, and short medium growth of sagebrush; soil, shallow, loose sandy loam, with considerable outcrops of sandstone bedrock bet. level land and top of bench on 22 chs. |
| | Good grazing land. |
| | East, on random line, bet. secs. 29 and 32. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.86 | Intersect N. and S. line, 5 lks. N. of cor. secs. 28-29-32 and 33; thence |
| | N. 89°58' W., on true line, bet. secs. 29 and 32. |
| | Over gently rolling land, slight N. slope, through short sagebrush. |
| 39.93 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼<br>S29<br>S32<br>1919<br>dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. |
| 48.00 | Thence over W. slope, gently descending. |
| 67.50 | Enter scattering timber, bears N. and S. |
| 79.86 | The cor. of secs. 29-30-31 and 32, 120 ft. below ¼ cor. |
| | Land, gently rolling bench; slight N. exposure on E. 48 chs., and to W. on remainder. |
| | Soil, fine sandy and clay loam, with some gravel in W. portion. |
| | Timber, scattering pinon and cedar on W. 12½ chs. |
| | Undergrowth, sagebrush. Good grazing land. |
| | West, on random line, bet. secs. 30 and 31. |
| 40.00 | Set temp. ½ sec. cor. |
| 79.78 | Intersect W. bdy. of tp., 12 lks. S. of cor. secs. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | 30 and 31, hereinbefore described. |
| | Thence |
| | S. 89°55' E., on true line, bet. secs. 30 and 31. |
| | Over rolling and broken bench land, through scattering timber and short undergrowth; asc. W. slope, 60 ft. to |
| 8.30 | Top of ascent, bears N. and SW.; desc. E. slope of bench. |
| 22.30 | Leave timber at base of bench, 180 ft. below top, enter level bottom land and dense greasewood, bearing N.20°E. and S.20°W. |
| 39.78 | In level bottom. |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked |
| | ¼ S30 / S31 1919 |
| | dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. |
| 47.40 | Hatch Wash, 40 lks. wide, 8 ft. deep, course N.30°W. |
| 49.30 | Road, Moab to Monticello, bears N.10°W. and S.20°E. |
| 51.50 | Leave bottom land and dense greasewood, enter broken slope of bench and scattering timber, bears N.20°W. and S.20°E.; asc. W. slope, 100 ft. to |
| 57.00 | Top of bench slope and leave timber, bears same as base; thence over gently rolling top. |
| 79.78 | The cor. of secs. 29-30-31 and 32. |
| | Land, rolling bench on W. 22.30 and E. 28.30 chs.; remainder level bottom land in Hatch Wash. |
| | Soil, on bench sandy, gravelly loam, with outcrops of sandstone on rims; in bottom land, deep clay loam. |
| | Timber, scattering pinon and cedar on 28 chs. |
| | Undergrowth, sagebrush on bench; greasewood on level. |
| | Good grazing land. |
| | N. 0°03' W., bet. secs. 29 and 30. |
| | Over rolling and low broken bench land, through short undergrowth; slightly ascending land facing W. |

Subdivision of T. 30 S., R.24 E.

| Chains | |
|---|---|
| 14.00 | Enter medium dense timber, and scattered sandstone outcrops, bearing SE. and SW. |
| 40.00 | On slight SW. slope, 65 ft. above sec. cor. Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in mound of stone, for ¼ sec. cor., with brass cap marked<br>¼<br>S30 \| S29<br>1919<br>from which<br>A pinon, 12 ins.diam., bears N.44°E., 15 lks. dist.,marked ¼ S29 BT<br>A pinon, 6 ins.diam., bears S.62°W., 89 lks. dist.,marked ¼ S30 BT |
| 57.40 | Top of slight raise, 30 ft. above ¼ cor., bears E. and W. thence over gentle NE. slope. |
| 70.00 | Leave timber, bears NE. and S.70°W. |
| 80.00 | On NE. slope,70 ft. below raise. Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 19-20-29 and 30, with brass cap marked<br>T30S \| R24E<br>S19 \| S20<br>S30 \| S29<br>1919<br>raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rolling and slightly broken bench; W. exposure on S. 57.40 chs. and to NE. on remainder. |
| | Soil, sandy and gravelly loam, with some clay, and scattered outcrops of sandstone bedrock. |
| | Timber, medium dense scrub pinon and cedar, on 56 chs. |
| | Undergrowth, scattering to medium growth of short sagebrush, some shadscale and greasewood. |
| | Fair grazing land. |
| | --- |
| | S. 89°58' E., on random line, bet. secs. 20 and 29. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.02 | Intersect N. and S. line, 9 lks. S. of true point for secs |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | 20-21-28 and 29; which is 1.37 chs. S. of the W.C.; thence S. 89°58' W., on true line, bet. secs. 20 and 29, from true point, in wash bottom. |
| | Along water course of Wash to |
| 2.15 | Leave Big Indian Wash, 50 lks. wide, 12 ft. deep, course N.70°W.; thence over level bottom land, through greasewood. |
| 20.70 | Leave bottom land, enter bench, bears N.70°W. and S.80°E. asc. NE. slope, 40 ft. to |
| 21.60 | Top of ascent on N. slope; desc. 65 ft. to |
| 32.00 | Leave bench, re-enter bottom land, bears N.70°E. and S.85°W. |
| 40.01 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼ S20. / S29 1919<br>dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. |
| 54.70 | Leave bottom land, enter bench, bears N.70°W. and S.80°E. Ascend along N. slope, 50 ft. to |
| 80.02 | The cor. of secs. 19-20-29 and 30. |
| | Land, level bottom land along Big Indian Wash, covered with dense high greasewood undergrowth; soil, heavy clay loam; and N. edge of bench land, with short sagebrush and scattering greasewood; soil, gravelly and clay loam; few scattered cedar trees. |
| | Good grazing land. |
| | --- |
| | N. 89°55' W., on random line, bet. secs. 19 and 30. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.73 | Intersect W. bdy. of tp., 2 lks. S. of true point for cor. of secs. 19 and 30, which is 1.83 chs. S. of the witness cor., hereinbefore described. |
| | Thence, from true point for cor. secs. 19 and 30 S. 89°54' E., on true line, bet. secs. 19 and 30. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | Up along wash. to |
| 4.00 | Leave Hatch or East Canyon Wash, from SE. to W., continue over level bottom land, through dense greasewood; bottom land cut by numerous small, deep washes, draining SW. |
| 21.00 | Road, Moab to Monticello, bears N. and S. |
| 26.35 | Big Indian Wash, 50 lks. wide, 20 ft. deep, course SW. |
| 39.73 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼ S19 / S30 1919<br>dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. |
| 49.50 | Leave bottom land and dense greasewood, enter bench land, bears NE. and SW; asc. abruptly 50 ft. to |
| 52.50 | Thence gently asc. along N. slope, 50 ft. |
| 69.70 | Top of ascent on N. slope, bears NW. and SE.; desc. 30 ft. |
| 79.73 | The cor. of secs. 19-20-29 and 30. |
| | Land, level bottom land and gently rolling N. edge of bench. |
| | Soil, deep clay loam on level; gravelly and sandy loam, with outcrops of sandstone bedrock on bench. |
| | Undergrowth, dense greasewood on level; sagebrush on the bench. No timber. |
| | Good grazing land. |
| | --- |
| | N. 0°03' W., bet. secs. 19 and 20. |
| | Desc. N. slope of bench, through short undergrowth. |
| 10.00 | Leave bench, enter level bottom land and dense grease-wood, 50 ft. below cor., bears S.70°E. and W. |
| 24.10 | Big Indian Wash, 60 lks. wide, 40 ft. deep, course S.70°W. |
| 40.00 | In bottom land. |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼ \| S19 \| S20 1919<br>dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. |

Subdivision of T. 30 S., R. 24 E.

| Chains | |
|---|---|
| 46.60 | Leave bottom land and dense greasewood, enter bench land, bears NE. and SW.; asc. rim of bench, 65 ft. to |
| 60.70 | Top of rim, thence over rolling general SW. slope, through scattering timber, bears NE. and SW. |
| 77.50 | Leave timber, bears E. and W. |
| 80.00 | On SW slope, 160 ft. above bottom land. Set an iron post, 3ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 17-18-19 and 20, with brass cap marked |

| T30S | R24E |
|---|---|
| S18 | S17 |
| S19 | S20 |

1919

from which

A pinon, 8 ins.diam.,bears N.77½°E., 281 lks. dist.,marked T30S R24E S17 BT
A pinon, 8 ins.diam.,bears S.2½°E., 290 lks. dist.,marked T30S R24E S20 BT

No trees within limits in remaining secs., therefore dig pits, 18x18x12 ins., in each sec., NE., SE., SW., and NW. of post, 3 ft. dist.

S. 10 and N. 33.40 chs. is rolling bench land, with short sagebrush and shadscale undergrowth; sandy and gravelly soil; some scattering pinon and cedar on northern portion; remainder of mile is level bottom land along Big Indian Wash, covered with dense high greasewood; soil, deep fine clay loam.

Good grazing land.

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N. 89°58' E., on random line, bet. secs. 17 and 20.

| | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |
| 79.96 | Intersect N. and S. line, 5 lks. N. of cor. secs. 16-17-20 and 21; thence, |

West, on true line, bet. secs. 17 and 20.

Over rolling and low broken land, having a general SW. exposure, through scattering scrub timber and short undergrowth, over considerable outcrops of sandstone bedrock.

| | |
|---|---|
| 1.65 | Small gully, 20 ft. deep, cut in bedrock, drains SW. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| 8.50 | Top of raise, 40 ft. above sec. cor., bears NE. and SW.; desc. 100 ft. to |
| 31.00 | Bottom of draw, course SW.; asc. |
| 39.98 | On E. slope, 50 ft. above draw. Set an iron post, 3 ft. long, 1 in. dia., 6 ins. in ground to bedrock, and in a mound of stone, for ¼ sec. cor., with brass cap marked<br>¼ S17 / S20 1919<br>and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. No trees within limits. |
| 44.60 | Top of raise, 45 ft. above ¼ cor., bears NE. and SW.; leave timber; desc. gradual W. slope. |
| 79.96 | The cor. of secs. 17-18-19 and 20. Land, rolling and low broken, general SW. exposure and drainage into Big Indian Wash. Soil, mostly sandstone bedrock, with shallow, loose sandy loam. Timber, scattering to medium dense growth of pinon and cedar, on E. 44.60 chs. Undergrowth, short, medium growth of sagebrush and shadscale, with some greasewood. Good grazing land. |
| | --- |
| | N. 89°54' W., on random line, bet. secs. 18 and 19. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.60 | Intersect W. bdy. of tp., 12 lks. S. of cor. secs. 18 and 19, hereinbefore described; thence, |
| | S. 89°49' E., on true line, bet. secs. 18 and 19. Over rolling land facing SW., through short undergrowth. |
| 27.00 | Small draw, 15 ft. deep, course SW.; enter scattering timber, bears NE. and SW. |
| 39.60 | Set an ironpost , 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked |

Subdivision of T.30 S., R.24 E.

Chains

$\frac{1}{4}$ S18 / S19
1919

from which

A cedar, 6 ins.diam., bears N.63°E., 72 lks. dist., marked $\frac{1}{4}$ S18 BT
A cedar, 5 ins.diam., bears S.64°W., 147 lks. dist., marked $\frac{1}{4}$ S19 BT

52.50 Leave timber, bears NW. and SE.

79.60 The cor. of secs. 17-18-19 and 20, 130 ft. above $\frac{1}{4}$ cor.

Land, rolling, having a general SW. exposure and drainage.

Soil, loose, shallow sandy and gravelly loam, with outcrops of sandstone bedrock on E. $\frac{1}{2}$ mile.

Timber, scattering pinon, few cedar on 25½ chs.

Undergrowth, medium growth of short sagebrush and shadscale, few greasewood.

Good grazing land, on most of mile.

---

N. 0°03' W., bet. secs. 17 and 18.

Over rolling land, facing SW., through short undergrowth.

24.00 Top of low flat ridge, 50 ft. above sec. cor., bears NE. and N.70°W.; thence over rolling general N. slope.

40.00 On N. slope, 35 ft. below ridge.

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

$\frac{1}{4}$
S18 | S17
1919

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.

74.50 Small wash, 10 lks. wide, 3 ft. deep, course N.20°W., and foot of slope, 115 ft. below $\frac{1}{4}$ cor., bears NW. and NE.

80.00 On level flat.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 7-8-17 and 18, with brass cap marked

T30S | R24E
S7 | S8
S18 | S17
1919

from which

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | A pinon, 16 ins.diam.,bears S.78°20'W., 434 lks. dist., marked T30S R24E S18 BT |
| | and dig pits, 18x18x12 ins., in each sec., NE., SE., SW., and NW., of post, 3 ft. dist. |
| | No trees within limits in secs. 7, 18, and 17. |
| | Land, rolling; general SW. exposure on S. 24 chs., and to N. on remainder of mile. |
| | Soil, sandy and gravelly loam, with some clay and few outcrops of sandstone bedrock. |
| | Undergrowth, medium growth of short sagebrush, shadscale and greasewood. No timber. |
| | Good grazing land. |
| | --- |
| | East, on random line, bet. secs. 8 and 17. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 80.06 | Intersect N. and S. line, 2 lks. N. of cor. secs. 8-9-16 and 17; thence, |
| | N. 89°59' W., on true line, bet. secs. 8 and 17. |
| | Over broken and rolling land, facing W., through scattering timber, and short undergrowth; desc. broken, rocky SW. slope. |
| 22.00 | Thence steeper descent on W. slope. |
| 30.00 | Draw, course NW.; thence over nearly N. slope. |
| 40.03 | 200 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked |
| | $\frac{1}{4}$ S8 / S17 1919 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. No trees within limits. |
| | Asc. 40 ft. to |
| 50.00 | Top of raise on N. slope, and leave timber, bearing NW. and SE.; gradually desc. NW. slope. |
| 72.00 | Enter flat, bears N. and S. |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| 80.06 | The cor. of secs. 7-8-17 and 18. |
| | Land, broken and rolling, having a general exposure to W. |
| | Soil, rocky, shallow sandy and gravelly loam, some clay; on rock subsoil. |
| | Timber, scattering pinon and cedar on E. 50 chs. |
| | Undergrowth, short medium growth of sagebrush, shadscale and greasewood. Good grazing land on W. portion. |
| | --- |
| | N. 89°49' W., on random line, bet. secs. 7 and 18. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 78.74 | Intersect W. bdy. of tp., 7 lks. S. of cor. secs. 7 and 18, hereinbefore described; thence, |
| | S. 89°46' E., on true line, bet. secs. 7 and 18. |
| | Over rolling land, through scattering timber and short undergrowth; slightly ascending NW. exposure. |
| 26.00 | Leave timber, bears NW. and S. |
| 38.74 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for $\frac{1}{4}$ sec. cor., with brass cap marked<br>$\frac{1}{4}$ S7 / S18<br>1919 |
| | dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. |
| 68.25 | Top of bench, enter medium dense timber, bearing NW. and S.; desc. E. slope, 65 ft. to |
| 73.00 | Base of bench, leave timber, and enter flat, bears N. and S. |
| 77.15 | Small wash, 20 lks. wide, 4 ft. deep, course N. |
| 78.74 | The cor. of secs. 7-8-17 and 18. |
| | Land, rolling, having a general NW. exposure and drainage. |
| | Soil, sandy and gravelly loam, mixed with some clay. |
| | Timber, pinon and cedar on 31 chs. |
| | Undergrowth, medium growth of short sagebrush, shadscale and greasewood. Good grazing land. |
| | --- |
| | N. 0°03' W., bet. secs. 7 and 8. |
| | Over level hollow bottom, slight NW. drainage, through |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | short scattering undergrowth. |
| 28.50 | Leave level hollow bottom, enter broken bench slope, mostly barren red sandstone rock, with scattering clumps of pinon and cedar, bearing NE., and SW. for 3 chs., thence to W.; asc. steep SE. slope 120 ft. to |
| 36.75 | Top of ascent on rocky E. slope, top bears W. of line, 1 ch. dist.; desc. along E. slope, 30 ft. to |
| 40.00 | On E. slope in depression, on barren rock. Set an iron post, 3 ft. long, 1 in. dia., on bedrock, over cross(X), 26 ins. in a mound of stone, for ¼ sec. cor., with brass cap marked<br>¼<br>S7 \| S8<br>1919 from which<br>A pinon, 7 ins.diam.,bears S.17°E., 89 lks. dist.,marked ¼ S8 BT<br>A pinon, 7 ins.diam.,bears S.44°W., 110 lks. dist., marked ¼ S7 BT |
| 45.00 | Top of bench, 25 ft. above ¼ cor., and leave bedrock, bearing NE. and SW.; thence over rolling top of bench sloping N., sandy loam soil. |
| 46.00 | Leave timber, bears NE. and SW. |
| 66.50 | Enter medium dense timber, bears E. and W.; thence along general W. rim of bench, rocky soil, bears NE. and S.80°W. |
| 70.85 | Small draw, course NW. for 5 chs. to hollow bottom, 80 ft. below top at 45 chs.; thence along steep W. face, rim of bench, over bedrock. |
| 79.50 | As the true point for sec. cor. falls on steep slope, where it is impracticable to set cor.,therefore at this point, Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in a large mound of stone, 5 ft. base, for witness cor. to secs. 5-6-7 and 8, with brass cap marked<br>WC<br>T30S \| R24E<br>S6 \| S5<br>S7 \| S8<br>1919 from which |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | A pinon, 8 ins.diam.,bears N.28¼°E., 121 lks. dist., marked WC T30S R24E S5 BT<br>A pinon, 12 ins.diam.,bears S.61°E., 63 lks. dist.,marked WC T30S R24E S8 BT<br>A cedar, 6 ins.diam.,bears S.36¾°W., 49 lks. dist.,marked WC T30S R24E S7 BT<br>A pinon, 10 ins.diam.,bears N.12½°W., 108 lks. dist.,marked WC T30S R24E S6 BT |
| 80.00 | True point for cor. secs. 5-6-7 and 8, on steep W. slope, on smooth sandstone bedrock, cut deep cross, 12 ins. dia. for exact cor. point. No cor. set. |
| | Land, on S. 28½ chs. is level hollow bottom, with short scattered greasewood and grass; deep, fine, brown sandy loam soil; hollow drains W.: remainder of mile is broken slopes and rolling top of bench, about 100 ft. about the hollow; slopes covered with scattering growth of scrub timber, cedar and pinon; top has medium dense growth of sagebrush; soil, mostly sandstone bedrock on slopes or rim of bench, while on top, loose sandy loam prevails. |
| | Good grazing on greater portion of mile. |
| | --- |
| | From true point for cor. secs. 5-6-7 and 8. |
| | S. 89°59' E., on random line, bet. secs. 5 and 8. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.12 | Intersect N. and S. line, 5 lks. S. of cor. secs. 4-5-8 and 9; thence, |
| | S. 89°59' W., on true line, bet. secs. 5 and 8. |
| | Over rolling and broken land, through short undergrowth; desc. gradual smooth W. slope. |
| 5.00 | Enter dense timber and rocky land, bears NE. and S. |
| 24.00 | E. rim of gulch, 200 ft. below sec. cor., bears N. and S. |
| 27.80 | Bottom of rocky gulch, 50 ft. deep, course nearly S. for 10 chs., thence to W. and SW.; asc. |
| 29.00 | W. rim of gulch, bears N. and S.; asc. gradually. |
| 34.50 | Top of ascent on bench, leave timber and rocky land, bearing N. and S.70°W.; thence over rolling top of bench. |
| 40.06 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | $\frac{1}{4}$ S5 / S8 1919 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. |
| 48.00 | Top of raise, bears NE. and S.30°W.; thence over W. |
| | exposure, descending, 75 ft. to |
| 78.35 | W. rim of bench, bears N.10°W. and S; desc. rocky W. |
| | slope, 30 ft. to |
| 80.12 | The true point for cor. secs. 5-6-7 and 8. |
| | Land, rolling and broken, having a general W. and SW. |
| | exposure and drainage. |
| | Soil, rocky in form of sandstone bedrock, and loose sandy |
| | loam. |
| | Timber, dense pinon and cedar, on 29½ chs. |
| | Undergrowth, considerable short sagebrush and shadscale. |
| | Fair grazing land on portions of mile. |
| | --- |
| | From true cor. point for cor. secs. 5, 6, 7, and 8, N. 89°46' W., on random line, bet. secs. 6 and 7. |
| 40.00 | Set temp. ½ sec. cor. |
| 78.54 | Intersect W. bdy. of tp., 12 lks. N. of cor. secs. 6 and |
| | 7, hereinbefore described; thence, |
| | S. 89°51' E., on true line, bet. secs. 6 and 7. |
| | Over rolling and broken land, having a general SW. exposure |
| | through scattering timber and short undergrowth; asc. |
| | gradual W. slope. |
| 2.50 | Leave timber, bears N. and S. |
| 11.00 | Top of ascent, 60 ft. above cor., bears N.20°E. and S.20°W. |
| | enter scattering timber; desc. gradual E. slope. |
| 31.00 | Gulch, 50 ft. deep, 105 ft. below top, course SW., has |
| | smooth sandstone walls; asc. W. slope, 65 ft. to |
| 37.00 | Top of ascent, bears NE. and S.20°W. |
| 38.54 | On slight E. slope and edge of bench, bears NE. and S.20°W. |
| | Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in |
| | ground, for bedrock, and in a mound of stone, for ¼ sec. |
| | cor., with brass cap marked |

Subdivision of T.30 S., R.24 E.

| Chains | |
|---|---|
| | $\frac{1}{4}$ $\frac{S6}{S7}$ 1919 from which |
| | A pinon, 8 ins.diam.,bears N.43°E., 46 lks. dist.,marked $\frac{1}{4}$ S6 BT |
| | No suitable tree within limits in sec. 7. No other accessories to cor. |
| | Descend rough, rocky SE. slope, rim of bench, 100 ft. to |
| 55.00 | Base of bench and leave timber and rocky land, enter open level hollow bottom, bears N.80°E. for 10 chs., thence NE., and SW. |
| 67.15 | Wash, 30 lks. wide, 8 ft. deep, in hollow, course SW. |
| 76.70 | Leave hollow, bears N.10°E. and S.50°W.; asc. rocky W. rim of bench through timber, 50 ft. to |
| 78.54 | The true point for cor. secs. 5-6-7 and 8. |
| | Land, rolling and broken benches, having a general SW. exposure and drainage. |
| | Soil, shallow sandy loam, and sandstone bedrock on slopes of benches and of gulches. |
| | Timber, scattering to medium dense growth of pinon and cedar, on 48.34chs. |
| | Undergrowth, short sagebrush, some greasewood. |
| | Fair grazing land. |
| | --- |
| | From true point for cor. of secs. 5, 6, 7, and 8, N. 0°04' E., on random line, bet. secs. 5 and 6. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 79.84 | Intersect N. bdy. of tp., 14 lks. W. of true point for cor. of secs. 5-6-31 and 32, which is 1.30 chs. W. of the W. C.; thence from true cor. point. |
| | S. 0°10' W., on true line, bet. secs. 5 and 6. |
| | Over mountainous land, rough and broken, through scattering timber, sparse short undergrowth, over mostly barren sandstone bedrock; along abrupt E. face of a sandstone rim; ascending. |
| 15.60 | Top of rim, 50 ft. above true cor. point, bears NW. and SE.; thence across point of bench to |

Subdivision of T. 30 S., R. 24 E.

| Chains | |
|---|---|
| 19.25 | Same rim of bench, bears NE. and SW.; desc. rough SE. to E. slopes, 215 ft. to |
| 39.84 | On an E. slope in depression. Set an iron post, 3 ft.long, 1 in. dia., on bedrock, 26 ins. in a large mound of stone, for ¼ sec. cor., with brass cap marked<br>¼<br>S6 \| S5<br>1919 from which<br>A pinon, 12 ins.diam.,bears S.38½°E., 82 lks. dist., marked ¼ S5 BT<br>A pinon, 16 ins.diam.,bears S.71½°W., 60 lks. dist.,marked ¼ S6 BT<br>Ascend steep NE. slope, 90 ft. to |
| 44.25 | Top of ascent on E. slope, ascends to W.; desc. steep SE. slope, 185 ft. to |
| 54.40 | Enter open hollow bottom, bears NE. and S.10°W. |
| 60.35 | Wash, 60 lks. wide, 10 ft. deep, in Hollow, course S.20°W. junction of two large washes, from N.20°E. and NE., bears up wash 2 chs. dist. |
| 70.00 | Leave level hollow bottom, bears N.20°E. and S.10°W.; asc. rocky NW. slope, rim of bench, 60 ft. to |
| 76.00 | Top of ascent on point of bench, bears NE. and S.20°E. thence along W. rim; desc. 25 ft. to |
| 79.84 | The true cor. point of secs. 5-6-7 and 8. |
| | Land, mountainous, rough and broken; mostly gray and red barren sandtone slopes, facing into large hollow which cuts through S. ½ mile, drains S.20°W. |
| | Soil, mostly sandstone bedrock, with shallow, loose sandy loam. |
| | Timber, scattering scrub pinon and cedar. |
| | Undergrowth, very sparse sagebrush and shadscale, except in hollow, where dense sagebrush and greasewood grow. |
| | Poor grazing land. |

Boundaries of T.30 S.,R.24 E.

Latitudes, departures, and closing errors.

| Line designated | True bearing | Distances. Chs. | Latitudes. N. Chs. | Latitudes. S. Chs. | Departures E. Chs. | Departures W. Chs. |
|---|---|---|---|---|---|---|
| S. bdy. of tp. | East | 480.00 | | | 480.00 | |
| E. bdy. of tp. | North | 400.00 | 400.00 | | | |
| " " " " | N.0°11'E. | 39.88 | 39.88 | | .13 | |
| " " " " | North | 40.12 | 40.12 | | | |
| N.bdy. of tp. | West | 478.75 | | | | 478.75 |
| W.bdy. of tp. | South | 158.28 | | 158.28 | | |
| " " " " | S.0°23'W. | 80.74 | | 80.74 | | .54 |
| " " " " | South | 240.63 | | 240.63 | | |
| Convergency | | | | | | .57 |
| | | | 480.00 | 479.65 | 480.13 | 479.86 |
| | | | 479.65 | | 479.86 | |
| Error in lat. | | | 0.35 | | | |
| Error in dep. | | | | | 0.27 | |

General Description of T.30 S., R.24 E.

This township contains serveral varieties of land, from broken mountainous to rolling valley. Along the east portion of S. boundary is the extreme NW. end of high mesa or mountain, which breaks off abruptly into Dry Valley, is rimmed with a sandstone wall, about 250 ft. high. A high, rough sandstone mountain extends through the east central portion of the township in a northerly and southerly direction, S. end terminating at Big Indian Wash; the east slope of the mountain is very short and abrupt, breaking off in series of red sandstone ledges into a narrow valley, draining S.20°E.; the west face of mountain slopes off gradually to the SW. to Dry Valley, is very broken by numerous deep, rocky gulches. Dry Valley occupies the greater part of the west and central portion of township.

General Description of T.30 S., R.24 E.

Chains

The greater portion of the township is drained by Big Indian Wash and tributaries, emptying into Hatch Wash in sec. 30. Hatch Wash, crosses secs. 30 and 31, drains nnrth-westerly.

The soil is principally a shallow, loose, reddish sandy loam, on sandstone bedrock, with considerable outcrops of bedrock and ledges on the rough portions; sandy clay loam on hardpan and rock in the valley.

The mountainous portions of the township is covered with a medium dense growth of scrub pinon and cedar timber, while in the valley timber occurs in scattered patches; undergrowth of sagebrush and greasewood prevail throughout, being heavier in the valley and benches.

The main road from Moab, via La Sal to Monticello traverses through the township, entering in sec. 2 and leaving in sec. 32; the Midland Telephone Co.'s line between same points, practically parallels this road.

The new Post road between Moab and Monticello extends in a northerly and southerly direction through secs. 19, 30 and 31.

The township is valuable only as grazing land, altho the soil in portions of the valley and bottom lands is suitable for agricultural purposes, but climatic conditions and lack of water make it impracticable for raising crops.

The only water found in the township is a small spring of good water in SW ¼ of SW ¼ of sec. 14.

In Secs. 35 and 36 there are several prospects of carnotite ore; considerable tunnel and pit work has been done.

No indications of coal, oil, or other mineral were found in this township.

Andrew Nelson
U.S. Surveyor

Chauncey D. Terry.

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BOOK A-444

# FIELD ASSISTANTS.

| NAMES. | CAPACITY. |
|---|---|
| Frank Romney | Head Chainman |
| Rex Roberts | Head Chainman |
| Philip Roberts | Rear Chainman |
| Elden Prows | Rear Chainman |
| John K. Davis | Axman |
| Paul Peterson | Flagman |
| Clyde Rasmussen | Flagman |
| James Hill | Cornerman |
| Ernest R.Brightom | Axman |
| Afton Decker | Cornerman |
| | |
| The above assistants were employed and assisted in the survey of T.30 S., R.24 E. | |
| | |
| | |
| | |
| | |
| | |
| | |

6—2764

# CERTIFICATE OF UNITED STATES SURVEYOR.
## AND TRANSITMAN.

We ~~K~~ Andrew Nelson, U.S. Surveyor and Chauncey J. Terry, U.S. Transitman ~~M. Surveyor~~, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 26th day of May, 1919, We have well, faithfully, and truly in ~~my~~ our proper persons and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Resurvey and survey of West boundary, retracement of part of East Boundary, survey of North Boundary and Subdivision of T. 30 S., R. 24 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~~ us on dates shown on date diagram on page one, and under ~~my~~ our 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.

Salt Lake City, Utah. March 23, 1920 Andrew Nelson
U. S. Surveyor

St George, Utah, Apr 3, 1920 C. Chauncey J. Terry
U. S. Transitman.

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Jan. 12, 1921

The foregoing field notes of the ~~survey of~~ resurvey and survey of the west boundary; retracement of part of east boundary; survey of north boundary and subdivisional lines of Township No. 30 South, Range No. 24 East of the Salt Lake Base and Meridian, Utah,

executed by Andrew Nelson and Chauncey J. Terry

under ~~his~~ special instructions dated May 26, 1919, having been 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 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

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BOOK A-444

U. S. Surveyor General's Office
MAY 19 1920
SALT LAKE CITY, UTAH

# FIELD NOTES

OF THE SURVEY OF THE

SURVEY OF EAST AND WEST BOUNDARIES,

RETRACEMENT AND ESTABLISHMENT OF CORNERS ON NORTH BOUNDARY

AND SURVEY OF THE

SUBDIVISION OF T. 29½ S., R. 24 E.

*Of the* Salt Lake Meridian *Meridian,*

*In the State of* UTAH

EXECUTED BY

ANDREW NELSON, U.S. SURVEYOR

and

CHAUNCEY J. TERRY, U.S. TRANSITMAN

*In the capacity of U.S. Surveyor, under instructions dated* MAY 26, *1919, issued by the United States Surveyor General to govern surveys included in Group No.* 83, *which were approved by the Commissioner of the General Land Office,* June 28, *1919*

Assignment Instructions dated June 23, 1919

*Survey commenced* September 16, *1919*

*Survey completed* October 4, *1919*

6—151

Examined and Platted

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

B Computations F.B.J.-V.I.F.

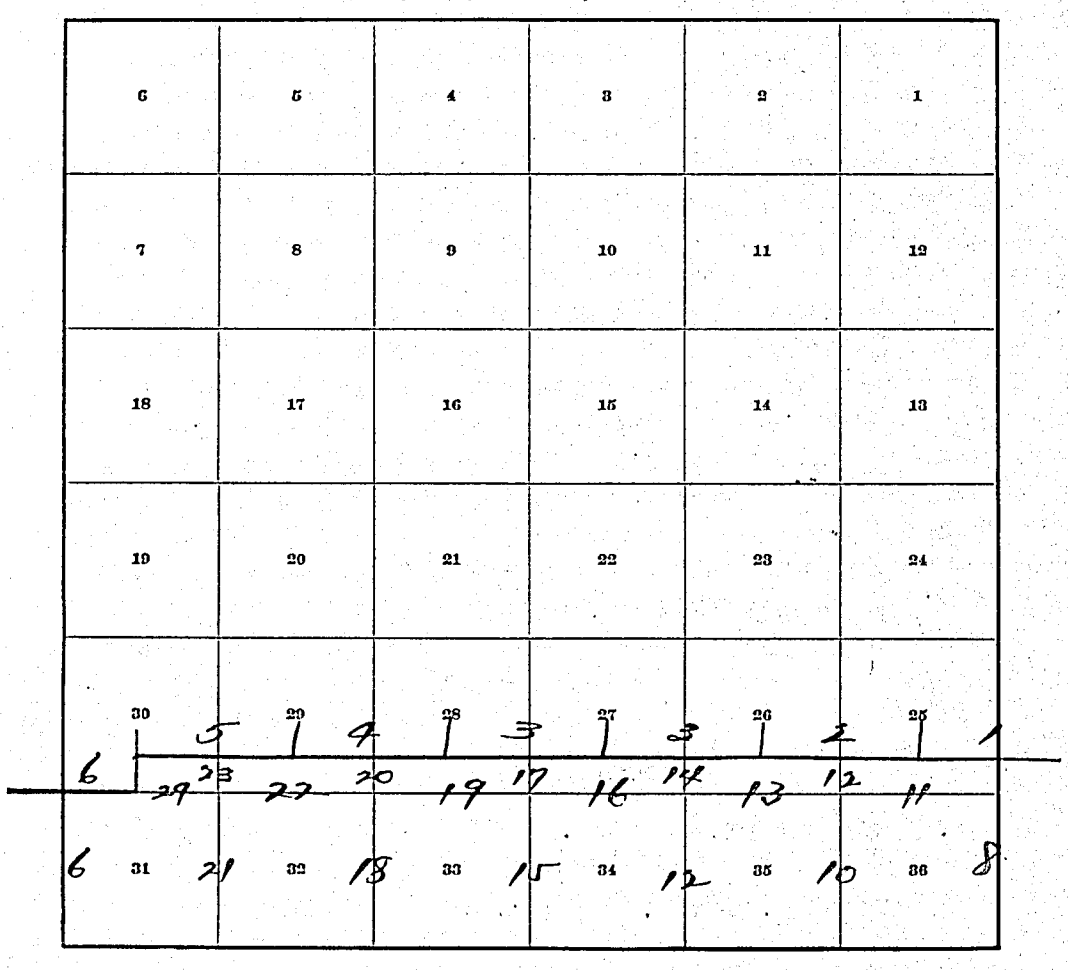
Comparing

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

BOOK A-444

# INDEX DIAGRAM.

Township 29½ South, Range 24 East



4-70 A

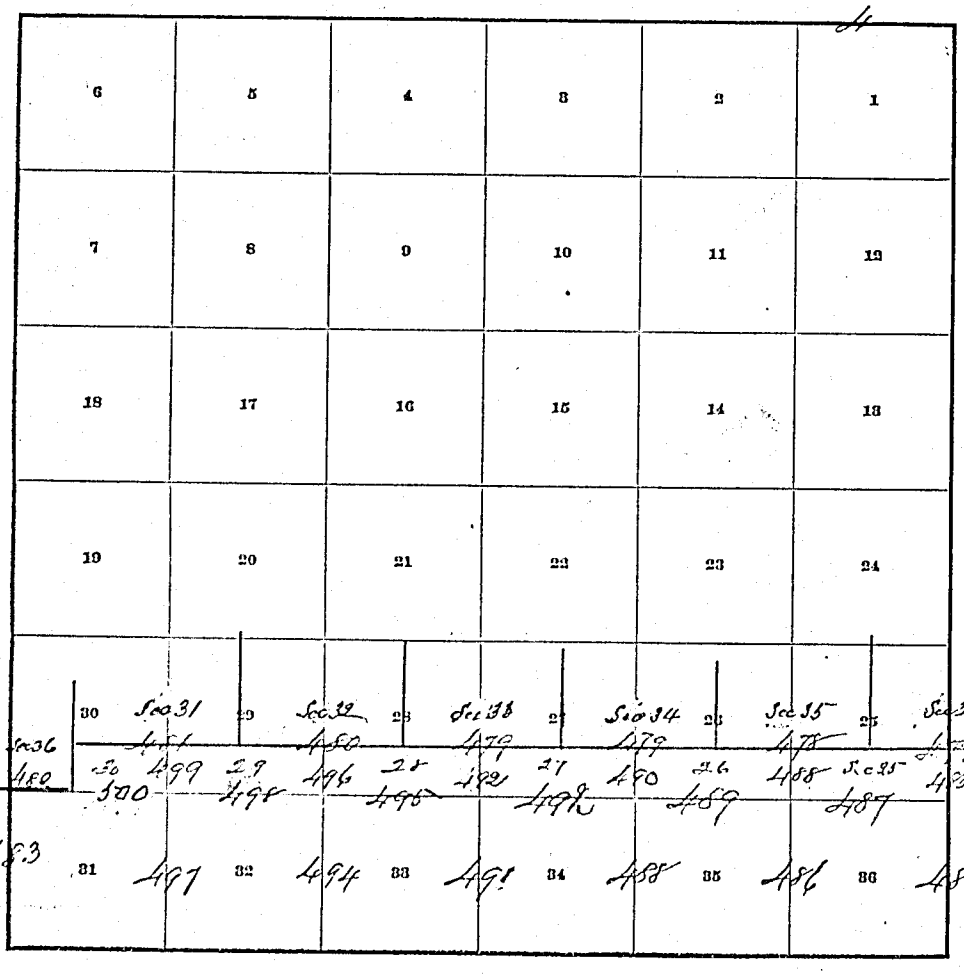
BOOK A-444

4—679 b

# INDEX DIAGRAM.

Township 29½ S, Range 24 E

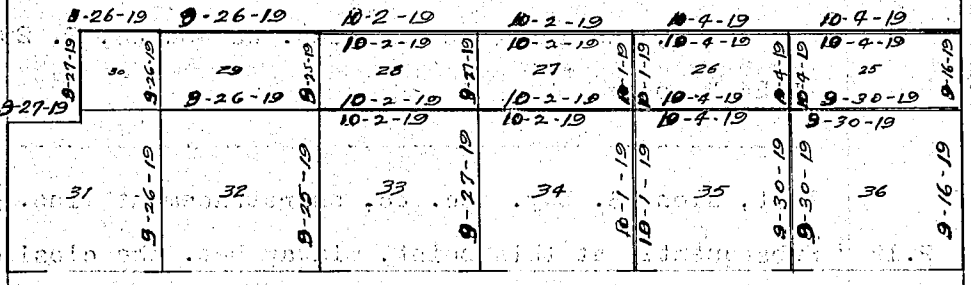
4




6—4817

Date Diagram of T. 29½ S., R.24 E.

Date Diagram of T. 29½ S., R. 24 E.




Lines colored and dated in black were surveyed by Andrew Nelson, U.S. Surveyor.

Lines colored and dated in red were surveyed by Chauncey J. Terry, U.S. Transitman.

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Survey commenced September 16, 1919 and executed with Young & Sons light mountain transits Nos. 8580 and 8496. For description, test and approval of instruments see survey of T.30 S., R.24 E., conjunction with which this township is surveyed.

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Retracement of South Boundary T. 29 S., R. 24 E., and establishment of ¼ sec. cors. on N. bdy. of T. 29½ S., R. 24 E.

From the ¼ sec. cor. of sec. 36 on S. bdy. of T. 29 S., R.24 E., which is an iron post, 1 in dia., firmly set, marked and witnessed as described by the surveyor general; thence

West, along S. bdy. of T.29 S., R.24 E., on retracement line, on S. bdy. sec. 36.

8.95 The closing cor. of T. 29½ S., R.24 E., and T.30 S., R.25 E.

Retracement of S. bdy. T.29 S., R.24 E., and establishment of ¼ sec. cors. on N. bdy. T.29½S.,R.24

| Chains | |
|---|---|
| 40.03 | The cor or. secs. 1-2-35 and 36, which is a 3 inch iron post, firmly set, marked and witnessed as described by the surveyor general. I destroy all marks on post and south bearing trees which were originally marked for T. 30 S., leaving same for secs. 35 and 36, T. 29 S., R.24 E. only. |
| | West, along S. bdy. sec. 35, on retracement line. |
| 9.12 | Subsequently at this point, midway bet. the closing cor. T. 29½ S. R. 24 E. and T. 30 S. R. 25 E. and the closing cor. of secs. 25 and 26, |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 25, T.29½ S., R.24 E. only, with brass cap marked |
| | ¼ / S25 / 1919 from which |
| | A pinon, 10 ins. diam., bears S.48½° E., 43 lks. dist., marked ¼ S25 BT |
| | A pinon, 10 ins. diam., bears S.46°W., 15 lks. dist., marked ¼ S25 BT |
| | Continue West, with continuous measurement. |
| 40.02 | The ¼ cor. of secs. 2 and 35, which is an iron post, 1 in. dia., firmly set, marked and witnessed as described by the surveyor general. I destroy all marks on post and bearing tree pertaining to T. 30 S., leaving same marked for ¼ sec 35, T.29 S., R.24 E. only. |
| 49.32 | Subsequently the closing cor. of secs. 25 and 26 is set at this point. |
| 80.31 | The W.C. of sec. secs. 2-3-34 and 35, which is 30 lks. W. of true point, is an iron post, 3 ins. dia., firmly set, marked and witnessed as described by the surveyor general. I destroy all marks on post and bearing tree, pertaining to T. 30 S., leave same for W. C. to secs. 34 and 35, T.29 S., R.24 E. only. |

Retracement of S. bdy. T. 29 S., R. 24 E., and
Establishment of ¼ sec. cors. on N. bdy. T.29½ S.,R.24 E.

| Chains | |
|---|---|
| | West, along S. bdy. of sec. 34, on retracement line; counting dist. from true point. |
| 0.30 | The witness cor. |
| 9.35 | Subsequently at this point, midway bet. closing cors. of secs. 25 and 26, and 26 and 27, |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 26, T.29½ S., R.24 E. only, with brass cap marked |
| | ¼ / S26 / 1919 from which |
| | A cedar, 8 ins. diam., bears S.10½°W., 470 lks. dist., marked ¼ S26 BT |
| | No other suitable tree within limits or other suitable accessory available. |
| 40.09 | The ¼ cor. of secs. 3 and 34, which is an iron post, 1 in. dia., firmly set, mkd. and witnessed as described by the surveyor general. I destroy all marks on post and bearing tree, pertaining to T.30 S., leave same for for ¼ sec. 34, T.29 S., R.24 E. only. |
| 49.39 | Point for closing cor. of secs. 26 and 27. |
| 80.07 | The cor. of secs. 3-4-33 and 34, which is an iron post, 3 ins. dia., firmly set, marked and witnessed as described by the surveyor general. I destroy all marks on post and S. bearing trees, pertaining to T.30 S., leave same marked for cor. secs. 33 and 34, T.29 S., R. 24 E. only, |
| | West, along S. bdy. sec. 33, on retracement line. |
| 9.31 | Subsequently at this point, midway bet. closing cors. of secs. 26 and 27, and 27 and 28, |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in large mound of stone, on bedrock, for ¼ cor. of secs 27, T.29½ S., R.24 E., with brass cap marked |
| | ¼ / S27 / 1919 from which |

Retracement of S. bdy. T. 29 S., R. 24 E., and
Establishment of ¼ sec. cors. on N. bdy. T.29½ S., R.24 E.

| Chains | |
|---|---|
| | A pinon, 7 ins.diam.,bears S.66°E., 24 lks. dist.,marked ¼ S27 BT<br>A pinon, 6 ins.diam.,bears S.51¼°W., 59 lks. dist.,marked ¼ S27 BT |
| 39.95 | The ¼ cor. of secs. 4 and 33, which is an iron post, 1 in. dia., firmly set, marked and witnessed as described by the surveyor gerneral. I destroy all marks on post and bearing tree, pertaining to T.30 S., leave same for ¼ cor. of sec. 33, T.29 S., R.24 E. only. |
| 49.30 | Point for closing cor. of secs. 27 and 28. |
| 79.82 | The cor. of secs. 4-5-32 and 33, which is an iron post, 3 ins. dia., firmly set, marked and witnessed as described by the surveyor general. I destroy all marks on post and S. bearing trees, pertaining to T.30 S., leave same for secs. 32 and 33, T.29 S., R.24 E. only. |
| | --- |
| | West, along S. bdy. of sec. 32, on retracement line. |
| 9.58 | Subsequently at this point, midway bet. the closing cors. of secs. 27 and 28, and 28 and 29, Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in large mound of stone, for ¼ cor. of sec. 28, T.29½ S., R.24 E. only, with brass cap marked<br>¼<br>S28<br>1919<br>from which |
| | A pinon, 6 ins.diam.,bears S.4°E., 50 lks. dist.,marked ¼ S28 BT<br>No other suitable tree within limits. |
| 40.08 | The ¼ cor. of secs. 5 and 32, which is an iron post, 1 in. dia., firmly set, marked and witnessed as described by the surveyor general. I destroy all marks on post and bearing trees, pertaining to T.30 S., leave same for ¼ cor. of sec. 32, T.29 S., R.24 E. only. |
| 49.68 | Point for closing cor. of secs. 28 and 29. |
| 80.08 | The cor. of secs. 5-6-31 and 32, which is an iron post, 3 ins. dia., firmly set, marked and witnessed as described by the surveyor general. I destroy all marks on post and bearing trees, pertaining to T.30 S., leave |

Retracement of S. bdy. T.29 S., R.24 E., and
Establishment of ¼ sec. cors. on N. bdy. of T.29½ S.,R.24 E.

| Chains | |
|---|---|
| | same for cor. secs. 31 and 32, T.29 S., R.24 E. only. |
| | --- |
| | West, along S. bdy. of sec. 31, on retracement line. |
| 9.58 | Subsequently at this point, midway bet. the closing cors. of secs. 28 and 29, and 29 and 30, Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in large mound of stone, for ¼ cor. of sec. 29, T.29½ S., R.24 E. only, with brass cap marked<br>¼<br>S29<br>1919 from which<br>A pinon, 6 ins.diam.,bears S.33½°E., 57 lks. dist.,marked ¼ S29 BT<br>A pinon, 8 ins.diam.,bears S.44½°W., 53 lks. dist.,marked ¼ S29 BT |
| 40.00 | The ¼ cor. of secs. 6 and 31, which is an iron post, 1 in. dia., firmly set, marked and witnessed as described by the surveyor general. I destroy all marks on post and bearing tree, pertaining to T.30 S., leave same for ¼ cor. sec. 31, T.29 S., R.24 E. only, |
| 49.56 | Point for closing cor. of secs. 29 and 30. |
| 89.56 | Subsequently at this point, westing of 40.00 chs. from closing cor. of secs. 29 and 30, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 30, T.29½ S., R.24 E., with brass cap marked<br>¼<br>S30<br>1919 from which<br>A pinon, 12 ins. diam.,bears S.66°E., 78 lks. marked ¼ S30 BT<br>A pinon, 6 ins.diam.,bears S.44½°W., 29 lks. marked ¼ S30 BT |
| 91.65 | The closing cor. of Ts. 29 and 30 S., R.24 E., which is a sandstone 16x16x4 ins,, firmly set in mound of stone, marked and witnessed as described by the surveyor general. As this cor now refers to the closing cor. of Ts. 29 and 29½ S., R.24 E., I change marks on cor. stone and B. Ts. |

Chains

to read as follows; stonedmarked with 6 grooves CC and R.24 E. on E. face; 2 grooves and T29½S on S. face, and 6 grooves and T29S on N. face, for closing cor. of Ts. 29 and 29½ S., R.24 E.; from which (original trees)

A pinon, 10 ins.diam.,bears N.73°E., 29 lks. dist.,marked CC T29S R24E S31 BT
A pinon, 5 ins.diam.,bears S.10°E., 55 lks. dist.,marked CC T29½S R24E S30 BT

From this closing tp. cor. the cor. of Ts. 29 and 30 S., R.23 E., bears S.0°31'E., 10.85 chs. dist., which is limestone, 7x14x4 ins., firmly set, marked and witnessed as described by the surveyor general. I destroy all marks on stone and SW. bearing tree pertaining to T.30 S., leave same for the SE. corcof T. 29 S., R.23 E. only.

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Retracement of S. bdy. of T.29 S., R.23 E.

From the SE. cor. of T.29 S., R.23 E. above described, West, on retracement line, along S. bdy. of sec. 36.

39.61 Fall 8 lks. N. of the original ¼ cor. for secs. 1 and 36, which is a cross + and ¼ S36 cub in solid sandstone bedrock, unwitnessed. I raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Impracticable to place mound to N. This ¼ cor. now refers to S 36 only.

True course and distance of this ½ mile is therefore S.89°53 'W., 39.61 chs.

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Survey West Bdy. T.29½ S., R. 24 E.

From the cor. of Ts. 29½ and 30 S., Rs. 23 and 24 E., heretofore described.

North, on W. bdy. of tp., bet: secs. 31 and 36.

Over mountainous land, through dense timber and scattering undergrowth; descending along top of high mesa top, NE slope.

3.75 Rim of mesa and top of sandstone wall, 70 ft. below cor.,

West Boundary of T. 29½ S., R. 24 E.

| Chains | |
|---|---|
| | bears S.70°W. and SE.; desc. abruptly N. face of wall. |
| 9.10 | Base of wall, 375 ft. below cor., bears same as top; thence gradually descending rolling N. slope, over considerable bedrock and loose sandy soil. |
| 29.65 | Begin more abrupt descent over barren rock, leave timber, bears N.70°W. and S.70°E. |
| 32.65 | Enter hollow bottom with dense greasewood undergrowth, bears N.70°W. and S.70°E. |
| 39.50 | As true point for ¼ cor. will fall in wash, where cor. cannot be perpetuated; therefore at this point, Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for witness ¼ sec. cor., with brass cap marked<br>¼<br>W C<br>S36 \| S31<br>1919<br>dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. Cor. stands in level hollow bottom, 520 ft. below the tp. cor. |
| 40.00 | True point for ¼ sec. cor. falls in bottom of wash, 40 lks. wide, 7 ft. deep, course N.70°W. No cor. set here. |
| 47.10 | Leave hollow bottom, enter low, broken, rocky land, with medium dense timber, bears W. and S.70°E.; asc. 65 ft. |
| 53.65 | Top of low spur, projects S.60°W.; desc. abruptly 75 ft. |
| 57.55 | Wash, 30 lks. wide, 12 ft. deep, in draw, course S.60°W. thence across open draw bottom |
| 68.60 | Leave open draw, bears E. and SW.; asc. rocky S. slope. |
| 71.25 | Top of low spur, 35 ft. above draw, projects SW about 30 chs. dist.; desc. gradual N. slope, 40 ft. to |
| 79.18 | Intersect S. bdy. of T.29 S., R.23 E., N. 89°53' E., 2.93 chs. from the ¼ cor. of sec. 36, heretofore described; at point of intersection Set an iron post, 3 ft. long, 3 ins. dia., on bedrock, 24 ins. in large mound of stone, for closing cor. of T. 29½ S., Rs. 23 and 24 E., with brass cap marked |

West Boundary T. 29½S., R. 24 E.

| Chains | |
|---|---|
| | T29S R23E<br>S36<br>S36 \| S31<br>R23E \| R24E<br>T29½S<br>CC<br>1919 from which |
| | A pinon, 10 ins.diam., bears S.26°E., 64 lks. dist., marked CC T29½S R24E S31 BT<br>A pinon, 8 ins.diam., bears S.53½W., 83 lks. dist., marked CC T29½S R23E S36 BT |
| | Cor. stands on gradual N. slope, about 3½ chs. E. of open hollow, draining south-westerly. |
| | Land, mountainous and broken; drainage W. |
| | Soil, rocky in form of sandstone bedrock, ledges and few scattered surface rock, with loose sandy loam on surface. |
| | Timber, medium dense cedar and pinon, on 50½ chs. |
| | Undergrowth, scattering short sagebrush and greasewood, except along hollow bottoms, where dense greasewood grow. |
| | --- |
| | Resurvey of W. bdy. of T. 30 S., R. 25 E. for establishment of cors. on E. bdy. of T.29½ S., R.24 E. |
| | From the cor. of Ts. 29½ and 30 S., R. 24 E., for establishment see survey of T.30 S., R.24 E. |
| | Note: SE cor. of J.T.Wise's house bears N.10½°W., about ¾ mile dist. |
| | Thence, |
| | North, on resurvey line, along E. bdy. of T.29½ S., on E. bdy. sec. 36. |
| | Descending gradual N. slope, over gently rolling open valley land, through sagebrush. |
| 12.00 | Wire fence, bears S.16°W., for 5 chs. dist. to cor., thence N.67°W., for about 25 chs., and N.16°E. |
| 23.50 | Base of slope in swale, 65 ft. below cor., drains NW.; thence gradually asc. SW. slope. |
| 35.90 | Wire fence, bears N.49°W., about 17½ chs. dist., and S.49°E., about 7¼ chs. to cor. |

Resurvey of W. bdy. of T.30 S., R.25 E. for
Establishment of cors. on E. bdy. of T.29½ S., R.24 E.

| Chains | |
|---|---|
| 36.80 | Road, La Sal to Lisbon Valley, bears N.50°W. and S.50°E. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ cor. of sec. 36 only, with brass cap marked<br>¼<br>S36<br>1919<br>from which<br>A pinon, 12 ins.diam.,bears N.15°W., 309 lks. dist., marked ¼ S36 BT<br>No other accessories.<br>SE cor. of J.T. Wise's house bears N.39¼°W., |
| 43.00 | Enter dense cedar and pinon timber, bears NW. and SE. |
| 46.00 | Leave valley, enter mountainous land, bears N.70°W. and SE. |
| | Asc. rocky,general SW. slope, |
| 80.00 | On S. slope, 190 ft. above ¼ cor. |
| | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. secs. 25 and 36, T.29½ S., R.24 E. only, with brass cap marked<br>T29½S \| T30S<br>S25 \| S6<br>S36 \| R25E<br>R24E<br>1919<br>from which<br>A pinon, 12 ins.diam.,bears S.62°W., 74 lks. dist.,marked T29½S R24E S36 BT<br>A pinon, 5 ins.diam.,bears N52°W., 86 lks. dist.,marked T29½S R24E S25 BT |
| | Land, rolling valley on S. 46 chs.; mountainous on remainder; general N. and S. exposures, drainage to W. |
| | Soil, sandy and gravelly loams, mixed with clay on valley; rocky and clay loam, sandstone formation on rough portion. |
| | Timber, dense cedar and pinon, on N. 34 chs. |
| | Undergrowth, medium growth of sagebrush. |
| | Dry farm land in valley. |
| | --- |
| | North, on resurvey line, on E. bdy. sec. 25. |
| | Asc. S. slope, through dense timber, 60 ft. to |
| 10.09 | Intersect S. bdy. of T.29 S., R.24 E., at the closing cor. of T. 30 S., Rs. 24 & 25 E., which is an iron post, |

Subdivision of T.29½ S., R.24 E.

Chains

3 ins. dia., firmly set, marked and witnessed as described by the surveyor general. As this cor. now refers to the closing cor. of T.29½ S., R.24 E., and T.30 S., R. 25 E., I change marks on post to read as follows:

T29S R24E
S36
S25 | S6
T29½S | T30S
R24E | R25E
CC
1916

Also change marks on SW. bearing tree to refer to changed tp.

Land, mountainous; S. slope.

Soil, rocky and clay loam.

Timber, dense cedar and pinon: Undergrowth, sagebrush.

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Subdivision of T. 29½ S., R. 24 E.

From the cor. of secs. 1-2-35 and 36 on S. bdy. of tp., described in survey of T.30 S.,R.24 E.

N. 0°01' W., bet. secs. 35 and 36.

Over rolling land, facing SW., through dense timber and scattered undergrowth.

33.40 Ravine, course SW.

37.70 Dim wood-road, bears NW. and SE.

40.00 On a slight W. slope, 55 ft. above sec. cor.

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

¼
S35 | S36
1919

from which

A pinon, 12 ins.diam.,bears S.23°E., 43 lks. dist.,marked ¼ S36 BT
A pinon, 8 ins.diam.,bears S.9°W., 56 lks. dist.,marked ¼ S35 BT

80.00 On A W. slope, 100 ft. above ¼ cor.

Set an iron post, 3 ft. long, 2 ins. dia., 8 ins. in ground, to bedrock, and in a mound of stone, for cor. secs. 25-26-35 and 36, with brass cap marked

Subdivision of T. 29 ½ S., R. 24 E.

| Chains | |
|---|---|
| | T29½S \| R24E<br>S26 \| S25<br>S35 \| S36<br><br>1919 from which |
| | A pinon, 10 ins.diam.,bears N.52½°E., 38 lks. dist.,marked T29½S R24E S25 BT<br>A pinon, 12 ins.diam.,bears S.32½°E., 49 lks. dist., marked T29½S R24E S36 BT<br>A pinon, 14 ins.diam.,bears S.35¾°W., 5 lks. dist.,marked T29½ S R24E S35 BT<br>A cedar, 6 ins.diam.,bears N.65½°W.; 22 lks. dist.,marked T29½S R24E S26 BT |
| | Land, rolling, having a SW. exposure and drainage. |
| | Soil, gravelly, rocky and clay loam; sandstone formation. |
| | Timber, dense cedar and pinon. |
| | Undergrowth, scattered sagebrush. |
| | --- |
| | East, on random line, bet. secs. 25 and 36. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.40 | Intersect E. bdy. tp., 16 lks. N. of cor. secs. 25 and 36, heretofore described; thence, |
| | N. 89°53' W., on true line, bet. secs. 25 and 36. |
| | Over rolling mountainous land, through dense timber, and scattering undergrowth; along S. slope to |
| 6.70 | Begin gentle descent along S. slope. |
| 21.00 | Steeper descent SW. slope. |
| 40.20 | At base of steep descent, 250 ft. below cor. |
| | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked |
| | S25<br>¼ ———<br>S36 |
| | 1919 from which |
| | A pinon, 10 ins.diam.,bears S.22¾°E., 21 lks. dist., marked ¼ S36 BT<br>A pinon, 10 ins.diam.,bears N.83½°W., 29 lks. dist.,marked ¼ S25 BT |
| 42.00 | Leave timber, bears NW. and SE.; thence across NW. end of small valley, extending to SE. |
| 54.95 | Road, La Sal to Lisbon Valley, bears NW. and SE.; thence gentle ascent E. slope. |
| 65.40 | Ridge, 65 ft. above road, bears N.20°W. and S.20°E.; |

Chains

re-enter dense timber, bears NE. and S.; desc. steep, rough W. slope, 130 ft. to

80.40 The cor. of secs. 25-26-35 and 36.

Land, rolling mountainous and rolling; general SW. slope and drainage.

Soil, rocky, gravelly, mixed with clay and sandy loam.

Timber, dense cedar and pinon, on 58.40 chs.

Undergrowth, short, scattering sagebrush.

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

Ascend rough SW. slope, 115 ft. through dense timber and scattering undergrowth.

9.89 Intersect S. bdy. of T.29 S., R.24 E., West, 9.30 chs. of ¼ cor. of sec. 35, heretofore described; at point of intersection,

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for closing cor. of secs. 25 and 26, T.29½ S., R.24 E., with brass cap marked

T29S R24E
S35
S26 | S25
T29½S | R24E
CC
1919

from which

A cedar, 8 ins.diam.,bears S.29½°E., 110 lks. dist.,marked CC T29½ SR24E S25 BT
A pinon, 8 ins.diam.,bears S.78½°W., 24 lks. dist.,marked CC T29½S R24E S26 BT

Land, rolling mountainous; SW exposure and drainage.

Soil, rocky and clay.

Timber, dense cedar and pinon.

Undergrowth, scattering sagebrush.

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From cor. of secs. 2-3-34 and 35 on S. bdy. of tp., heretofor described.

N. 0°01' W., bet. secs. 34 and 35.

Over mountainous land, through dense timber and very scattering undergrowth; along land having slight E. slope.

10.00 Leave timber, enter heavier undergrowth, bears N.30°W. and S.30°E.

Subdivision of T. 29½ S., R. 24 E.

Chains

40.00 In N. edge of opening, bears NW. and SE.

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

¼

S34 | S35

1919 from which

A cedar, 10 ins.diam., bears N.84°E., 30 lks. dist., marked ¼ S35 BT
A pinon, 10 ins.diam., bears S.42°W., 15 lks. dist., marked ¼ S34 BT

Thence through dense timber.

52.00 Rim of mountain, bears N.30°W. and S.30°E.; desc. over general E. face, 175 ft. to

80.00 On E. slope.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 26-27-34 and 35, with brass cap marked

T29½S | R24E
S27 | S26
S34 | S35

1919 from which

A pinon, 10 ins.diam., bears N.59°E., 81 lks. dist., marked T29½S R24E S26 BT
A pinon, 8 ins.diam., bears S.59½°E., 68 lks. dist., marked T29½S R24E S35 BT
A pinon, 8 ins.diam., bears S.10½°W., 18 lks. dist., marked T29½S R24E S34 BT
A pinon, 10 ins.diam., bears N.28½°W., 27 lks. dist., marked T29½S R24E S27 BT

Land, rolling and broken mountainous; general exposure and drainage E.

Soil, rocky, with sandy and clay loams; red sandstone formation.

Timber, dense scrub cedar and pinon, on 50 chs.

Undergrowth, scattering to medium growth of sagebrush.

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

40.00 Set temp. ¼ sec. cor.

80.06 Intersect N. and S. line, 16 lks. S. of cor. secs. 25-26-35 and 36; thence

S. 89°53' W., on true line, bet. secs. 26 and 35.

Over rolling land, facing SW., through dense timber,

Subdivision of T. 29½ S., R. 24 E.

| Chains | |
|---|---|
| | and very scattered undergrowth; gradually descending. |
| 18.50 | Wash, 20 lks. wide, 4 ft. deep, 70 ft. below cor., course SW. |
| 19.00 | Leave timber, enter heavier sagebrush, bears N. and S.; thence across open Big Indian Valley, drains S. |
| 34.00 | Wash, 20 lks. wide, 5 ft. deep, in bottom of valley, course S.; thence over slight SE. slope. |
| 36.60 | Road, Moab to Monticello, via La Sal, bears N.10°W. and S.10°E.; enter dense timber, bears same. |
| 40.03 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>S26<br>¼ ———<br>S35<br>1919 from which<br>A pinon, 10 ins.diam., bears South, 34 lks. dist., marked ¼ S35 BT<br>A pinon, 10 ins.diam.,bears N.47¾°W., 5 lks. dist.,marked ¼ S26 BT |
| 43.90 | Telephone line, Moab to Monticello, bears nearly N. and S.; leave timber, bears N. and S. |
| 57.50 | Re-enter timber, bears N. and S.; leave valley, begin ascent E. slope, bears N. and S. |
| 64.00 | Low ridge, 75 ft. above ¼ cor., bears N. and S.; desc. 50 ft. |
| 69.70 | Wash, 30 lks. wide, 4 ft. deep, course SE.; asc. 65 ft. to |
| 80.06 | The cor. of secs. 26-27-34 and 35. |
| | Land, rolling and broken, having a general SE. and SW. exposures; drainage S. |
| | Soil, sandy and gravelly loams, with scattered rock on E. and W. ends of mile. |
| | Timber, dense cedar and pinon, on 48.85 chs. |
| | Undergrowth, scattered to medium dense sagebrush. |
| | ---------- |
| | N. 0°01' W., on true line, bet. secs. 26 and 27. |
| | Over broken land, facing E., through dense timber and scattering undergrowth. |

Subdivision of T.29½ S., R.24 E.

| Chains | |
|---|---|
| 10.02 | Intersect S. bdy. of T.29 S., R.24 E., West, 9.30 chs. from the ¼ cor. of sec. 34, heretofofe described. At point of intersection, |
| | Set an iron post, 3 ft. long, 2 ins. dia., 20 ins. in ground to bedrock, and in a mound of stone, for closing cor. of secs. 26 and 27, with brass cap marked |
| | T29S R24E<br>S34<br>S27 \| S26<br>T29½S \| R24E<br>CC<br>1919 from which |
| | A pinon, 10 ins.diam.,bears S.45½°E., 47 lks. dist.,marked CC T29½S R24E S26 BT<br>A pinon, 14 ins.diam.,bears S.2¼°W., 40 lks. dist.,marked CC T29½S R24E S27 BT |
| | Land, broken, general E. slope and drainage. |
| | Soil, rocky, with heavy clay; red sandstone formation. |
| | Timber, dense cedar and pinon. |
| | Undergrowth, scattered sagebrush. |
| | --- |
| | From true point for cor. secs. 3-4-33 and 34 on S. bdy. of tp:, which is East, 1.43 chs. dist. of the W.C.: thence from true cor. point in bottom of gulch, |
| | N. 0°02' W., bet. secs. 33 and 34. |
| | Over broken mountainous land, through dense timber and scattered undergrowth; asc. from gulch over rocky, ledgy SW. slope; 155 ft. |
| 13.25 | Spur, projects SW.; desc. rocky N. slope, 60 ft. |
| 22.45 | Gulch, course SW.; asc. 100 ft. |
| 31.35 | Spur bet. gulches, projects SW.; desc. 70 ft. |
| 36.00 | Gulch, course S.10°W.; asc. 115 ft. to |
| 40.00 | On gentle S. slope, |
| | Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in ground to underlying rock, and in a mound of stone, for ¼ sec. cor., with brass cap marked |
| | ¼<br>S33 \| S34<br>1919 .from which |

Subdivision of T.29½ S., R.24 E.

| Chains | |
|---|---|
| | A pinon, 5 ins.diam.,bears S.75°E., 16 lks. dist.,marked ¼ S34 BT<br>A pinon, 6 ins.diam.,bears N.29½°W., 46 lks. dist.,marked ¼ S33 BT |
| | Gradually asc. S. slope, 85 ft. |
| 57.50 | Top of flat ridge, bears E. and W.; desc. N. slope 80 ft. |
| 80.00 | On N. slope. |
| | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground, for cor. of secs. 27-28-33 and 34, with brass cap marked<br>T29½S \| R24E<br>S28 \| S27<br>S33 \| S34<br>1919 from which<br>A pinon, 10 ins.diam.,bears N.24°E., 70 lks. dist.,marked T29½S R24E S27 BT<br>A pinon, 14 ins.diam.,bears S.0½°E., 29 lks. dist.,marked T29½S R24E S34 BT<br>A pinon, 10 ins.diam.,bears S.53¼°W., 24 lks. dist.,marked T29½S R24E S33 BT<br>A cedar, 8 ins.diam.,bears N.26½°W., 66 lks. dist.,marked T29½S R24E S28 BT |
| | Land, broken mountainous, general SW. exposure and drainage. |
| | Soil, rocky in form of ledges and bedrock, with shallow, loose sandy loam. |
| | Timber, dense scrub pinon and cedar, on mile. |
| | Undergrowth, scattered, short sagebrush. |
| | --- |
| | East, on random line, bet. secs. 27 and 34. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.98 | Intersect N. and S. line, 2 lks. N. of cor. secs. 26-27-34 and 35; thence, |
| | N. 89°59' W., on true line, bet. secs. 27 and 34. |
| | Over mountainous land, through scattering timber and short undergrowth; asc. abruptly E. face of break, over broken sandstone ledges, 175 ft, to |
| 8.00 | Top of break, bears N.20°W. and S.20°E.; thence slight ascent over bench top. |
| 13.00 | Top of ascent and divide, bears N.20°W. and S.20°E. |
| | Gently desc. general W. slope. |

Subdivision of T.29½ S., R.24 E.

| Chains | |
|---|---|
| 26.00 | Leave timber, enter sagebrush flat, bears N. and S. |
| 36.00 | Leave sagebrush flat, re-enter timber, bears N. and S. |
| 39.99 | On a S. slope, 50 ft. below divide. |
| | Set an iron post, 3 ft. long, 1 in. dia., 18 ins. in ground to bedrock, and in a mound of stone, for ¼ sec. cor., with brass cap marked |
| | S27 |
| | ¼ ——— |
| | S34 |
| | 1919 from which |
| | A pinon, 6 ins.diam., bears N.59½°E., 37 lks. dist., marked ¼ S27 BT |
| | A pinon, 7 ins.diam., bears S.37°E., 59 lks. dist., marked ¼ S34 BT |
| | Asc. along nearly S. slope, 50 ft. to |
| 49.50 | Top of ascent on S. slope, bears NE.; desc. 220 ft. to |
| 79.98 | The cor. of secs. 27-28-33 and 34. |
| | Land, rolling and broken mountainous; E. face and drainage on the E. 13 chs., and to W. on remainder. |
| | Soil, rocky, gravelly and shallow sandy loam; red sandstone formation. |
| | Timber, dense pinon and cedar, on 70 chs. |
| | Undergrowth, scattering to medium growth of sagebrush. |
| | ---------- |
| | N. 0°02' W., on true line, bet. secs. 27 and 28. |
| | Over broken mountainous land, through dense timber; |
| 1.80 | Gulch, 10 ft. below cor., course NW., from E.; asc. 50 ft. |
| 10.00 | Intersect S. bdy. T.29 S., R.24 E., West, 9.35 chs. of ¼ cor. of sec. 33, heretofore described. At point of intersection, |
| | Set an iron post, 3 ft. long, 2 ins. dia., 10 ins. in ground to bedrock, and in a mound of stone, for closing cor. of secs. 27 and 28, T.29½S., R24 E., with brass cap marked |
| | T29S R24E |
| | S33 |
| | S28 \| S27 |
| | T29½S \| R24E |
| | CC |
| | 1919 from which |

Subdivision of T. 29½ S., R. 24 E.

| Chains | |
|---|---|
| | A pinon, 7 ins.diam.,bears S.16°E., 26 lks. dist.,marked CC T29½S R24E S27 BT<br>A pinon, 10 ins.diam.,bears S.41½°W., 24 lks. dist.,marked CC T29½S R24E S28 BT |
| | Land, mountainous; SW. exposure and drainage. |
| | Soil, rocky, with shallow sandy, clay loam. |
| | Timber, dense pinon and cedar. Undergrowth scattered sagebrush. |
| | From cor. of secs. 4-5-32 and 33 on S. bdy. of tp., heretofore described. |
| | N. 0°03' W., bet. secs. 32 and 33. |
| | Over broken mountainous land, through medium dense timber, very scattered undergrowth; along broken land facing W. |
| 5.00 | Drain, course W. |
| 15.85 | Gulch, 100 ft. deep, course S.60°W.; asc. |
| 21.35 | Spur, 150 ft. above gulch, projects SW. 8 chs. dist. to end; desc. |
| 22.35 | S. rim of gulch, bears S.20°W. and N.10°E.; desc. |
| 33.25 | Gulch, 50 ft. below S. rim, course S.10°W.; asc. 115 ft. |
| 36.40 | N. rim of the gulch, bears N.5°E. and S.10°W.; asc. 25 ft. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in large mound of stone, on bedrock, for ¼ sec. cor., with brass cap marked<br>¼<br>S32 \| S33<br>1919<br>from which<br>A pinon, 5 ins.,diam.,bears S.30°E., 66 lks. dist.,marked ¼ S33 BT<br>A pinon, 6 ins.diam.,bears N.58°W., 36 lks. dist.,marked ¼ S32 BT |
| 43.60 | Right rim of gulch last crossed, bears N.10°E. and S.10°W. Gradually asc. along E. slope, 100 ft. |
| 66.00 | Top of ascent on E. slope of sandstone butte, top of which bears W. of line 2 chs. dist.; desc. along E. slope. |
| 73.85 | Right rim of same gulch, bears N.5°W. and S.10°E.; desc. abruptly along E. slope, 80 ft. to |
| 80.00 | On rocky E. slope,<br>Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in |

Subdivision of T. 29½ S., R. 24 E.

| Chains | |
|---|---|
| | large mound of stone, on bedrock, for cor. secs. 28-29-32 and 33, with brass cap marked |
| | T29½S \| R24E<br>S29 \| S28<br>S32 \| S33<br>1919 from which |
| | A pinon, 8 ins.diam.,bears S.64½°E., 46 lks. dist.,marked T29½S R24E S33 BT<br>A pinon, 6 ins.diam.,bears S.9°W., 56 lks. dist.,marked T29½S R24E S32 BT |
| | No other suitable trees within limits. |
| | Land, broken mountainous, having a general SW. exposure and drainage. |
| | Soil, rocky, in form of ledges and bedrock, with shallow sandy loam, and clay; gray and red sandstone formation. |
| | Timber, medium dense cedar and pinon. |
| | Undergrowth, scattered sagebrush and greasewood. |
| | East, on random line, bet. secs. 28 and 33. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.20 | Intersect N. and S. line, 9 lks. N. of cor. secs. 27-28-33 and 34; thence, |
| | N. 89°56' W., on true line, bet. secs. 28 and 33. |
| | Over broken mountainous land, through dense timber and scattering undergrowth. |
| 6.35 | Small gully, course NW.; asc. 55 ft. to |
| 8.50 | Top of a high sandstone rim, bears NW. and SE.; desc. gradual W. slope, 150 ft. to |
| 26.70 | E. rim of gulch, bears N.10°W. and S.; desc. abruptly. |
| 30.80 | Gulch, 85 ft. deep, course N.10°W.; asc. |
| 34.70 | W. rim of gulch, bears N.10°W. and S.10°E.; desc. gradual W. slope. |
| 40.10 | Set an iron post, 3 ft. long, 1 in. dia., on bedrock, 26 ins. in ground, for ¼ sec. cor., with brass cap marked<br>¼ S28<br>S33<br>1919 from which |

Subdivision of T.29½ S., R.24 E.

| Chains | |
|---|---|
| | A pinon, 12 ins.diam., bears S.30¾°W., 48 lks. dist., marked ¼ S33 BT<br>A pinon, 10 ins.diam., bears N.60°W., 26 lks. dist., marked ¼ S28 BT |
| 75.30 | E. rim of gulch, bears NE. and SE.; desc. abruptly W. face, 100 ft. to |
| 78.65 | Bottom of gulch, 400 ft. below ¼ cor., course S.10°E.; asc. 30 ft. to |
| 80.20 | The cor. of secs. 28-29-32 and 33. |
| | Land, broken mountainous; general SW. exposure and drainage. |
| | Soil, rocky of sandstone formation, with shallow sandy and clay loam. |
| | Timber, dense cedar and pinon, on mile. |
| | Undergrowth, scattering sagebrush. |
| | N. 0°03' W., on true line, bet. secs. 28 and 29. |
| | Over broken mountainous land, through dense timber and scattering undergrowth; ascending along E. slope, |
| | rim of gulch, 80 ft. to |
| 6.15 | Rim of gulch, bears S. and N.80°E. |
| 9.98 | Intersect S. bdy. of T. 29 S., R. 24 E., west, 9.60 chs. dist. of the ¼ cor. of sec. 32, heretofore described; at point of intersection, |
| | Set an iron post, 3 ft. long, 2 ins. dia., on bedrock, 24 ins. in large mound of stone, for closing cor. of secs. 28 and 29, T.29½ S., R.24 E., with brass cap marked |

T29S R24E
S32
S29 | S28
T29½S | R24E
CC
1919

from which

A pinon, 8 ins.diam., bears S.77¼°E., 47 lks. dist., marked CC T29½S R24E S28 BT
A pinon, 12 ins.diam., bears S.46½°W., 66 lks. dist., marked CC T29½S R24E S29 BT

Land, mountainous.

Soil, rocky of sandstone formation, with shallow sandy loam.

Timber, dense cedar & pinon; undergrowth, sagebrush.

Subdivision of T.29½ S.,R.24 E.

| Chains | |
|---|---|
| | From the witness cor. to secs. 5-6-31 and 32 on S. bdy. of tp., which is E. 1.30 chs. from true point on E. face of sandstone wall or rim. |
| | Thence, |
| | N. 0°03' W., on offset line, bet. secs. 31 and 32. |
| | Over broken mountainous land, medium timber and scattered undergrowth; from base of sandstone rim, asc. along very abrupt E. face. 7.00 chs. to |
| | Top of rim, 80 ft. above the W.C., bears NE. and about S.; at this point, offset, West, 1.30 chs. to true line, at |
| 7.00 | Thence, N.0°03'-W.- |
| | Along nearly flat top of ridge, bearing NE. and S.10°W. |
| 18.20 | N. edge of ridge, bears E. and W.; desc. abruptly N. slope, over bedrock, 185 ft. to |
| 26.15 | Gulch, course W.; asc. 85 ft. |
| 32.00 | Sandstone spur, projects SW.; desc. N. slope, 110. ft. to |
| 40.00 | In S. edge of bottom gulch. |
| | Set an iron post, 3 ft. long, 1 in. dia., 20 ins. in ground to bedrock, and in a mound of stone, for ¼ sec. cor., with brass cap marked |
| | ¼<br>S31 \| S32<br>1919 |
| | from which |
| | A cedar, 10 ins.diam., bears N.83°E., 29 lks. dist.,marked ¼ S32 BT<br>A pinon, 6.ins.diam.,bears S.39°W., 37 lks. dist.,marked ¼ S31 BT |
| 40.40 | Bottom of small gulch, course S.60°W.; asc. 200 ft. to |
| 48.10 | Sandstone spur, projects S.80°W.; desc 75 ft. |
| 55.50 | Gulch, course SW.; asc. 60 ft. |
| 63.00 | Spur, projects S.70°W.; desc. 210 ft. |
| 72.20 | Deep gulch, course S.80°W.; asc. over ledges, 135 ft. |
| 77.00 | Top of 100 ft. cliff and N. rim of gulch, bears N.70°E. and S.70°W.; thence along top. |
| 79.70 | As true point for sec. cor. will fall on point where cor. cannot be perpetuated; therefore at this point. |
| | Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground for witness cor. of secs. 29-30-31 and 32, with brass cap |

Subdivision of T.29½ S., R.24 E.

Chains

marked

WC
T29½S R24E
S30 | S29
S31 | S32

1919

from which

A pinon, 9 ins.diam., bears N.53½°E., 11 lks. dist., marked WC T29½S R24E S32 BT
A pinon, 6 ins.diam., bears S.2°E., 66 lks. dist., marked WC T29½S R24E S32 BT

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. No suitable trees within limits in remaining secs.

80.00 True point for cor. secs. 29-30-31 and 32, falls on an steep slope, on bedrock, where cor. cannot be perpetuated; cut cross X for exact cor point.

Land, broken mountainous; broken by numerous deep, rocky gulches, draining about W.

Soil, rocky of grey sandstone formation, in form of ledges and bedrock, with shallow, loose sandy covering.

Timber, medium dense cedar and pinon.

Undergrowth, scattering sagebrush.

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

40.00 Set temp. ¼ sec. cor.

79.96 Intersect N. and S. line, 14 lks. S. of cor. secs. 28-29-32 and 33; thence

S. 89°54' W., on true line, bet. secs. 29 and 32

Over broken mountainous land, through medium dense timber and scattering undergrowth; asc. abruptly E. slope over ledges, 75 ft. to

1.75 W. rim of gulch, bears N. and S.; thence slight ascent.

5.50 Ridge, 115 ft. above cor., bears N. and S.: desc.

6.35 Left rim of gulch, bears N. and S.; desc. abruptly.

17.50 Gulch, 170 ft. below ridge, course S.10°W.; asc. 85 ft.

24.25 Right rim of gulch, bears N.10°E. and S.10°W.

25.85 Desc. abruptly to gulch.

29.40 Gulch, 50 ft. deep, course S.20°W.; asc. 65 ft. to

Subdivision of T. 29½ S., R. 24 E.

| Chains | |
|---|---|
| 39.98 | On top of ridge, bearing nearly N. and S. Set an iron post, 3 ft. long, 1 in. dia., 12 ins. in ground to underlying rock, and in a mound of stone, for ¼ sec. cor., with brass cap marked<br>S29<br>¼<br>S32<br>1919<br>from which<br>A pinon, 7 ins.diam.,bears N.13¼°W., 44 lks. dist., marked ¼ S29 BT<br>A pinon, 12 ins.diam.,bears S.16°W., 47 lks. dist.,marked ¼ S32 BT<br>Descend gradual W. slope. |
| 59.35 | Rim ledge, 50 ft. high, bears NW. and SW.; desc. more abruptly SW. slope. |
| 68.40 | Deep gulch, 360 ft. below ¼ cor., course S.70°W.; asc. |
| 73.45 | Top of 100 ft. perpendicular ledge and rim of gulch, 125 ft. above bottom, bears N.70°E. and S.80°W.; thence along top. |
| 77.45 | Cross head of short gully, 100 ft. deep, very small seep in bottom, course SW. |
| 79.96 | The true point for cor. secs. 29-30-31 and 32. Land, broken mountainous, having a general SW. exposure and drainage; broken by numerous narrow, rocky gulches. Soil, rocky of sandstone formation, in form of bedrock and broken ledges, with shallow sandy loam on surface. Timber, medium dense scrub cedar and pinon, on mile. Undergrowth, scattering sagebrush. |
| | From true cor. point.<br>N. 0°03' W., on true line, bet. secs. 29 and 30. Over mountainous land, through scattering timber and undergrowth; gradually asc. |
| 7.00 | Top of ascent, 25 ft. above cor. point, bears N.E. and SW. gradually desc. 25 ft. to |
| 10.20 | Intersect S. bdy. of T.29 S., R.24 E., West, 9.56 chs. dist. of the ¼ cor. of sec. 31, heretofore described; at point of intersection, |

Subdivision of T. 29½ S., R. 24 E.

Chains

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in mound of stone, on bedrock, for closing cor. of secs. 29 and 30, T. 29½ S., R. 24 E., with brass cap marked

T29S R24E
S31
S30 | S29
T29½S | R24E
CC
1919

from which

A pinon, 8 ins.diam., bears S.60°E., 65 lks. dist., marked CC T29½S R24E S29 BT

No suitable tree within limits in sec. 30.

Land, mountainous.

Soil, rocky, with shallow sandy loam.

Timber, scattering cedar and pinon.

Undergrowth, scattering sagebrush

---

From true point for cor. of secs. 29-30-31 and 32.

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

Over broken mountainous land, facing SW., through scattering timber and undergrowth.

7.00 Low, flat raise, bears NE. and SW.; gently desc. 70 ft.

26.00 Drain, course SW.; gently asc. 35 ft. to

40.00 On nearly level ground.

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

S30
¼ ———
S31
1919

raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. No suitable trees within limits.

42.00 Intersect E. bdy. of T. 29 S., R.23 E., M. 0°31' W., 64 lks. dist. of SE. cor. of T. 29 S., R. 23 E., heretofore described. At point of intersection,

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in ground for closing cor. of secs. 30 and 31, with brass cap marked

Boundaries of T. 29½ S., R. 24 E.

Chains

T29S | T29½S
S36 | S30 CC
S31
R23E | R24E

1919

raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. No suitbale trees within limits.

Land, rolling and broken mountainous, having a general SW. exposure and drainage.

Soil, rocky of sandstone formation in form of bedrock and low ledges, with shallow sandy loam.

Timber, scattering cedar and pinon.

Undergrowth, scattering sagebrush.

---

Boundaries of T. 29½ S., R. 24 E.

Latitudes, departures, and closing errors.

| Line designated | True bearing | Distances Chs. | Latitudes N. Chs. | Latitudes S. Chs. | Departures E. Chs. | Departures W. Chs. |
|---|---|---|---|---|---|---|
| E. bdy. of tp. | North | 90.09 | 90.09 | | | |
| S. bdy of T.29 S R.24E. | West | 42.71 | | | | 42.71 |
| E. bdy. of T.29S. R.23E. | S.0°31'E | 10.85 | | 10.85 | .10 | |
| S. bdy. of T.29S. R.23E | S.89°53'W | 36.68 | | .07 | | 36.68 |
| W.bdy of tp. | South | 79.18 | | 79.18 | | |
| S. bdy. of tp. | East | 478.75 | | | 478.75 | |
| Convergency | | | | | | .11 |
| Totals | -------- | | 90.09 | 90.10 | 478.85 | 479.50 |
| | | | | 90.09 | | 478.85 |
| Error in lat. | ------- | | | 0.01 | | 0.65 |
| Error in dep. | ---------- | | | | | |

General Description of T. 29½ S., R. 24 E.

This fractional township is principally broken and mountainous, with the exception of a small, open valley in sec. 36, and Big Indian Valley, which occupies parts of secs. 26 and 35. The eastern portion is drained by Big Indian Wash, course nearly south; the remainder drains south-westerly into Hatch Wash. The township is covered mainly with a medium growth of scrub cedar and pinon timber, and scattering sagebrush. The soil is mostly rocky of sandstone formation, in form of bedrock and broken ledges, with shallow; loose sandy loam; in the valleys the soil is a deep sandy clay loam, on clay subsoil.

The only water found in this township is a very small seep near cor. of secs. 29-30-31 and 32.

Jos. T. Wise, the only settler living in this township, is located in E. ½ of sec. 36; has approximately 15 acres under cultivation; 475 rods of wire fence; frame house, 14x18 ft.; cellar and corrals; total value of improvements approximately $2000. Fair crops of corn, potatoes and beans has been raised here by dry farming. Water for culinary use is hauled from the Big Indian Mine, about 3 miles dist. north-westerly.

The road and telephone line, between Moab and Monticello, via La Sal, passes through secs. 26 and 35. And the road to Lisbon Valley, which takes off from the above road at the Big Indian Mine, passes through secs. 25 and 36.

We noticed no indications of coal, oil or mineral in the township.

Andrew Nelson
U.S. Surveyor

Chauncey J. Terry
U.S. Transitman

1—680

BOOK A-444

# FIELD ASSISTANTS.

| NAMES. | CAPACITY. |
|---|---|
| Frank Romney | Head- Chainman |
| Philip Roberts | Rear- Chainman |
| Paul Peterson | Flagman |
| Afton Decker | Corner man |
| | |
| Assistants employed during survey of | |
| T. 29½ S., R. 24 E. | |
| | |
| | Andrew J. Nelson |
| | U.S. Surveyor |

6—2764

# CERTIFICATE OF UNITED STATES SURVEYOR.
## AND TRANSITMAN.

We Andrew Nelson, U.S.Surveyor and Chauncey J.Terry, U.S.Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 26th day of May, 1919, We have well, faithfully, and truly in our own proper persons and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of East and West Boundaries; retracement and establishment of corners on North boundary; and the subdivision of T. 29½ S., R. 24 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 us, and under our direction/ and that all the corners of and date diagram on page 1 on date as shown on date diagram 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.

Salt Lake City, May 9, 1920 Andrew Nelson
U. S. Surveyor.
Panguitch, Ut., May, 15 1920 Chauncey J. Terry
U.S. Transitman

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 23, 1920.

The foregoing field notes of the survey of the east and west boundaries and subdivisional lines; and the retracement and establishment of corners on the north boundary, of Township No. 29½ South, Range No. 24 East of the Salt Lake Base and Meridian, Utah,

executed by Andrew Nelson and Chauncey J. Terry

under ~~his~~ special instructions dated May 26, 1919, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys and retracements 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.