Volume

#

R0421

Resurvey of south boundary of T.19 S., R.2 E.

chains

Survey commenced June 12,1915 and executed with Young and Sons light mountain transits Nos. 8297 and 8582, with Smiths solar attachment. The horizontal limbs are provided with two double verniers, placed opposite to each other and reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instruments were approved for use in this survey by the Assistant Supervisor of Surveys for Utah.

I examine the adjustments of the transits and find no errors, then, to test the solar apparatus by comparing their indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

September 22,1915:

At my camp which is situated in the NE.¼ of sec. 1, T.20 S. R.2 E., approximate latitude 39°07' N., longitude 111°.40'W.; I set off 39°07' on the lat. arc; 0°28'N., on the decl. arc; and at 4h. 30m.p.m. apparent time determine a meridian with the solar (transit No.8582) and note that a tree about 7 miles distant, bears N.60° 32'E. With the same lat. and decl. set off on the arcs of transit No.8297, I determine a meridian with the solar and find that the same tree bears N.60°31'E.

At 6h.18m.p.m.l.m.t., I observe Polaris in accordance with the Manual of Instructions and note than an angle to the tree at time of observation is 59°08'E.

| | |
|---|---|
| L.M.T.of obsn.Sept.22,1915 --------- | 6h. 18m.p.m. |
| U.C.Polaris Sept 22,1915---------- | 1h. 31m.a.m. |
| Corrected for long. of station, | 1.2m. |
| U.C.Pol. at station Sept.22,1915 ---- | 1h. 29.8m.a.m.l.m.t. |
| Time elapsed between U.C.Polaris and time of obsn. ---------- | 16h. 48.2m. |
| Subtract from ---------- | 23h. 56.1m. |
| Hour angle of Pol. at obsn.------ | 7h. 07.9m. |
| Azimuth of Pol. at obsn.-------- | 1° 24'E. |

1° 24' + 59°08' = 60°32' or N.60° 32'E is the true bearing of the tree.

September 22,1915.

September 23: At 8h. a.m. apparent time, I set off 39°07'

chains

on the lat, arc; 0°13'N., on the decl. arc; and determine a meridian with the solar(transit No.8582) and find that the tree bears N.60°32'E. With the same latitude and decl. set off on the arcs. of transit No.8297, I determine a meridian with the solar and find that the tree bears N.60°31'E. The solar meridians of the instruments by a.m. and p.m. observations do not vary more than 1' from the meridian established by observations on Polaris, I therefore conclude that the instruments are in good adjustment.

No magnetic decl. is taken on account of defective needles.

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In the decl. arc settings, .80 of the tabulated refractions for computing declinations is used, due to the altitude of the country.

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Measurements

Steel tapes, 5 chs. long were used by both parties in the field together with clinometers for determining slope angles and the reduced horizontal distances appear in the field notes.

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I begin at the cor. of Tps. 19 and 20 S., Rs. 2 and 3 E. heretofore described, approximate latitude 39°07' N., longitude 111°40'W.

June 12: At the above cor.; at 8h. 30m.a.m. apparent time I set off 39°07' on the lat. arc; 23° 08'N., on the decl. arc; and determine a meridian with the solar.

Thence I run

West, bet. secs. 1 and 36

Over rough mounatinous land along S. slope, on N. side of Twelve Mile canyon, through scrub cedar and pinon timber and undergrowth of scattering buck brush.

Gradually ascend along very steep rocky slope.

Resurvey of south boundary of T.19 S.,R.2 E.

| chains | |
|---|---|
| 2.25 | Spur, 10 ft. above Tp. cor., projects SW. |
| | Descend abruptly. |
| 5.80 | Bottom of ravine, 80 ft. below spur, drains SW. |
| | Thence in **ravine.** |
| 9.95 | Wash, stream in same, 2 lks. wide, 1 in. deep, good water, course S. Ascend abruptly over rocky E. slope. |
| 17.30 | Top of spur, 300 ft. above ravine, projects SW. |
| | Descend abruptly through dense timber. |
| 22.05 | Ravine, 130 ft. below spur, course SW. Leave dense timber, ascend abruptly over rocky SE. slope. |
| 31.85 | Top of ascent, 130 ft. above ravine, bears NE. and SW. |
| | Thence over rocky S. slope over series of small spurs and ravines. |
| 38.89 | 25 ft. below top of ascent. |
| | Fall 4½ lks. N. of the ¼ sec. cor. which is a sandstone, 10 x 8 x 4 ins. above ground, firmly set, 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 |
| | S 36 ¼ / S 1 1915 |
| | from which, |
| | A cedar, 20 ins. diam., bears S.38°E., 14 lks. dist., marked ¼ S 1 B T |
| | A cedar, 16 ins. diam., bears N.50°W., 53 lks. dist., marked ¼ S 36 B T |
| | The bearing of this ½ mile is S.89° 56'W., and the distance is 38.89 chs. |
| | From point 4½ lks. N. of the ¼ sec. cor., I continue West |
| 42.20 | Top of spur, projects SW. |
| | June 12: Walking on line at noon, observation for latitude not taken. |

Resurvey of south boundary of T.19 S.,R.2 E.

| chains | |
|---|---|
| | Descend. |
| 44.25 | Gully, 45 ft. below spur, drains SW. |
| | Ascend. |
| 47.65 | Spur, 40 ft. above gully, projects SW. |
| | Descend through dense timber and undergrowth. |
| 52.10 | Stream, 2 lks. wide, 1 in. deep, good water, course SW. |
| 56.15 | Bottom of ravine and stream, 1 lk. wide, 2 ins. deep, clear water, 145 ft. below spur, course SW. |
| | Ascend abruptly over rocky SE. slope |
| 69.25 | Top of spur, 275 ft. above ravine, projects S. |
| | Thence along broken S. slope. |
| 79.12 | Fall 17 lks. N. of the center of a dilapidated mound of stone which I recognize to be the cor. of secs. 1,2, 35 and 36. A small gully has washed along the east side of the mound and it is probable that cor. is washed away. I reestablish cor. as follows: |

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of stone and earth on solid rock at center of old stone mound, for cor. of secs. 1,2,35 and 36, with brass cap marked

T 19 S R 2 E

| | |
|---|---|
| S 35 | S 36 |
| S 2 | S 1 |

T 20 S
1915

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

The bearing of this ½ mile is S.89°49'W., and the distance is 40.23 chs.

Land, mountainous, rough and broken; slopes and drains S. into Twelve Mile Canyon.

Soil, rocky and some shallow sand on rocky sub-soil. Sandstone and limestone formation.

Timber, scrub cedar, pinon and mahogany.

Undergrowth, buck, sage, oak and manzanita.

June 12,1915.

| chains | |
|---|---|
| | Isaac Hayes<br>U. S. Transitman. |

Resurvey of North bdy. of T.19 S.,R.2 E.

September 29: At 9h. a.m. apparent time, I set off 39°12' on the lat. arc; 2° 09'S., on the decl. arc; and determine a meridian with the solar at the cor. of T.18 S.,Rs. 2 and 3 E. heretofore described.

Thence I run

West, retracing on S. bdy. sec. 36, T.18 S.,R.2 E.

38.11 Fall 39 lks. N. of the ¼ sec. cor. which is a limestone, 11 x 8 x 6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

The bearing of this ½ mile is S.89°25'W., and the distance is 38.11 chs.

From ¼ sec. cor., I continue

West

14.25 September 29: At this station, I set off 2° 12'S., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°12'

20.65 No trace of the closing cor. of secs. 1 and 2, T.19 S., R.2 E. can be found.

38.87 Fall 61 lks. N. of the cor. of secs. 35 and 36, which is a limestone, 10 x 8 x 4 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

The bearing of this ½ mile is S.89°06'W. and the distance is 38.87 chs.

Thence from cor. of T.18 S.,Rs. 2 and 3 E.

S.89°25'W., resurveying S. bdy. sec.36, T.18 S.,R.2 E.

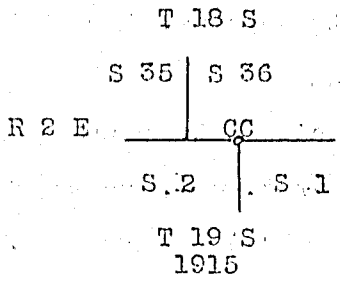
Over rough mountainous land draining NW., through dense undergrowth of oak, service, mahogany, buck brush, weeds and grass and scattering pinon timber.

Gradually ascend 30 ft. to

450 Top of ascent, bears NE. and SW.

| chains | |
|---|---|
| | Descend abruptly over NW. slope. Timber becomes larger and more dense. |
| 18.15 | Thence along steep N. slope. |
| 26.05 | Descend abruptly over NW. slope. Leave mahogany and oak brush, enter dense cedar and pinon timber, bears N. and S. |
| 34.60 | Base of descent, 500 ft. below Tp. cor., bears N. and S. Gradually ascend. |
| 38.11 | The ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for ¼ sec. cor. on the S. bdy. of sec. 36, with brass cap marked |
| | S 36 / ¼ / 1915 |
| | from which |
| | A pinon, 10 ins. diam., bears N.18½°E., 28 lks. dist., marked ¼ S 36 B T |
| | A cedar, 14 ins. diam., bears N. 36¾°W., 28 lks. dist., marked ¼ S 36 B T |
| | Thence |
| | S.89°06'W., with continuous chaining |
| | Continue gradual ascent. |
| 45.50 | Top of ridge and divide between Six Mile canyon and Funk's Cove, bears W. and S.80°E. |
| | Thence on top of ridge. |
| 50.00 | Begin steep descent on SW. slope of ridge. |
| 52.35 | Cross main top of ridge, bears N.85°E. and S.80°W. |
| | Descend abruptly over N. slope. |
| 56.35 | Begin descent over sandstone ledges, bears N. and SW. |
| 58.18 | Proportionate measurement |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for restored closing cor. of secs. 1 and 2, T.19 S.,R.2 E., with brass cap marked |

chains




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

59.15 Ravine, 390 ft. below divide, course NW.

Ascend over broken NE. slope.

67.30 Limestone ledge, 25 ft. high, bears NW. and SE.

69.75 Spur, 40 ft. above top of ledge, projects NW.

Descend abruptly over nearly W. slope.

75.00 Ravine, 215 ft. below spur, drains NW. Ascend.

76.85 Point of spur, falls NW. Descend.

76.90 The cor. of secs. 35 and 36.

Land, rough mountainous with general W. exposure. Line practically follows along top of high ridge.

Soil, rocky of sandstone formation with some rich black loam on E. ½ mile , red sandy clay and rock on W. ½ mile, subsoil rocky.

Timber, cedar, pinon and mahogany.

Undergrowth, oak, sage, service, buck, chaparral and weeds.

Some grass but land is too steep for grazing.

September 29,1915.

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Resurvey of subdivision of T.19 S.,R.2 E.

September 25: Storm of rain prevents field work until 9 a.m.

At 9h.30m.a.m. apparent time, I set off 39°07' on the lat. arc; 0° 36'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1,2,35 and 36 on the S. bdy. of the Tp. heretofore described.

Knowing from previous surveys in this Tp. that the course

| chains | |
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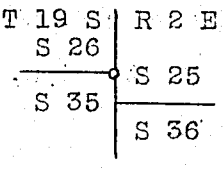
| | of the line between secs. 35 and 36 will be approximately N.3°E., I run |
| | N.3° 00'E., retracing bet. secs. 35 and 36. |
| 40.00 | No trace of the ¼ sec. cor. can be found. |
| | September 25: The sky is overcast at noon, observations for latitude impossible. |
| 80.93 | Fall 30 lks. W. of the cor. of secs. 25,26,35 and 36, which is a limestone, 6 x 5 x 4 ins. above ground, firmly set and marked and witnessed as described by the surveyor general. |
| | The bearing of this mile is N.3°13'E. and the distance is 80.95 chs. |
| | Thence from cor. of secs. 1,2,35 and 36 |
| | N.3°13'E., resurveying bet. secs. 35 and 36 |
| | Over mountainous land , ascend abruptly over precipitous S. slope through scrub cedar, pinon and mahogany timber and undergrowth of buck and chaparral brush. |
| 6.45 | Top of ledge, 75 ft. high, 350 ft. above sec. cor., bears N.60°E. and S.60°W. Continue ascent. |
| 8.80 | Top of ridge, divide between Twelve Mile canyon and North Hollow, 425 ft. above sec. cor., bears NE. and SW. Descend over NW. slope. |
| 14.50 | Thence along nearly W. slope. |
| 29.90 | Descend abruptly over NW. slope. |
| 32.90 | Ravine, 255 ft. below divide, drains NW. Ascend. |
| 36.70 | Spur, 50 ft. above ravine, projects W. about 3 chs. |
| | Gradually descend. |
| 40.25 | Ravine, 10 ft. below spur, drains SW. |
| | Ascend abruptly over rocky SE. slope. |
| 40.47½ | Proportionate measurement |
| | 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 and earth for ¼ sec. cor., with brass cap marked |
| | S 35 ¼ \| S·36 |

| chains | |
|---|---|
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | No suitable trees within limits. |
| 48.30 | Spur, 240 ft. above ravine, projects SW. |
| | Gradually descend along W. slope. |
| 52.00 | Descend abruptly over NW. slope. Leave timber, bears E. and W. |
| 68.50 | Enter pinon, cedar and mahogany timber, bears E. and W. |
| 69.70 | Ravine, 275 ft. below spur, drains SW. |
| | Ascend abruptly over S. slope. |
| 77.00 | Spur, 180 ft. above ravine, projects SW. |
| | Leave timber, bears NE. and SW. |
| 80.95 | The cor. of secs. 25,26,35 and 36. Knowing that a closing cor. will be necessary for secs. 25 and 36, I reestablish this cor. for secs. 26 and 35 as follows; |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground on solid rock and 8 ins. in a mound of stone for cor. of secs. 26 and 35, with brass cap marked |




1915

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

Land, rough mountains, slopes and drains S. into Twelve Mile canyon on S. 8.80 chs.; general W. exposure and drainage on N. 72.15 chs.

Soil, rocky of limestone and sandstone formation mixed with some shallow dry clay on rocky sub-soil.

Timber, scrub cedar, pinon and mahogany.

Undergrowth, oak, service, buck brush and chaparral.

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From cor. of secs. 26 and 35, I run

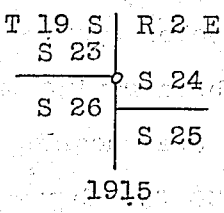
North, retracing bet. secs. 25 and 26.

Resurvey of subdivision of T.19 S., R.2 E.

| chains | |
|---|---|
| 31.00 | Cease work. |
| | September 25,1915. |
| | Sept. 27: At 7h. 30 a.m. apparent time, I set off 39°08' on the lat. arc; 1°20'S., on the decl. arc; and determine a meridian with the solar. |
| | Thence I continue |
| | North |
| 40.00 | No trace of the ¼ sec. cor. can be found. |
| 81.46 | Fall 31 lks. E. of the cor. of secs. 23,24,25 and 26 which is a sandstone, 15 x 6 x 2 ins., lying on the ground, marked with 2 notches on one edge and 1 notch on cornering edge. No accessories to cor. |
| | The bearing of this line is N.0°13'W., and the distance is 81.46 chs. |
| | Thence from cor. of secs. 26 and 35 |
| | N.0°13'W., resurveying E. bdy. of sec. 26 |
| | Over mountainous land draining W., descend through dense undergrowth of oak, service, buck brush and chaparral. |
| 24.90 | Bottom of rocky gulch, 295 ft. below ridge, course SW. |
| | Ascend abruptly over S. slope over limestone ledge. |
| 25.25 | Top of ledge, 40 ft. high, bears NE. and SW. |
| | Continue ascent. |
| 31.00 | Spur, 190 ft. above gulch, projects S.75°W. |
| | Gradually descend. |
| 37.25 | Top of steep descent, bears E. and W. Descend abruptly over N. slope through dense undergrowth. |
| 40.73 | Proportionate measurement. On N. slope, 130 ft. below top of spur. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the E. bdy. of sec. 26, with brass cap marked |
| | S 26 ½ \| |
| | 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |

Resurvey of subdivision of T.19 S.,R.2 E.

| chains | |
|---|---|
| 55.10 | Bottom of canyon, 230 ft. below ¼ sec. cor., course W. |
| | Leave dense undergrowth, enter cedar and pinon timber, bears E. and W. |
| | Ascend abruptly |
| 66.75 | Spur, 340 ft. above canyon, projects S.50°W., about 20 chs. |
| | Gradually ascend, nearly W. slope across head of ravine. |
| 76.45 | Top of ascent and spur, 10 ft. above last spur, projects SW. about 30 chs. |
| | Gradually descend through dense oak and buck brush. |
| 81.46 | The cor. of secs. 23,24,25 and 26. At exact position of old cor., reset stone, 10 ins. in the ground, marked with 1 notches on E. and 2 notch on S. edge. Knowing that a closing cor. will be necessary for secs. 24 and 25, I reestablish cor. for secs. 23 and 26 as follows: Set an iron post,3 ft. long, 2 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 23 and 26, with brass cap marked |




from which

A pinon, 8 ins. diam., bears S.85¼°W., 35 lks. dist., marked T 19 S R 2 E S 26 B T

No other tree within limits.

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

Land, mountainous with steep N. and S. slopes of spurs into ravines draining W.

Soil, gravelly and rocky with some shallow sandy loam on gravelly and rocky sub-soil.

Timber, some scattering pinon and cedar.

Undergrowth, oak, sage, service and buck brush.

Fair grazing.

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Resurvey of subdivision of T.19 S., R.2 E.

| chains | |
|---|---|
| | From cor. of secs. 23 and 26, I run |
| | North, retracing bet. secs. 23 and 24 |
| 40.00 | No trace of the ¼ sec. cor. can be found. |
| 57.00 | September 27: At this station, I set off 1° 25'S., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°09'. |
| 82.07 | Fall 58 lks. E. of the cor. of secs. 13,14,23 and 24 which is a limestone, 14 x 6 x 10 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. |
| | The bearing of this mile is N.0°24'W., and the distance is 82.07 chs. |
| | Thence from cor. of secs. 23 and 26 |
| | N.0°24'W., resurveying on the E. bdy. sec. 23 |
| | Over rolling mountainous land facing W., drains W. 30 chs. thence S., through dense undergrowth of oak, sage, buck and service brush. |
| 21.90 | Spur, 20 ft. above sec. cor., projects W. Descend. |
| 28.15 | Ravine, 85 ft. below spur, drains S.60°W. Ascend. |
| 32.00 | Spur, 120 ft. above ravine projects S.80°W. |
| | Continue ascent over nearly W. slope |
| 37.00 | Top of ascent, 30 ft. above spur, bears E. and W. |
| | Descend over NW. slope. |
| 41.03½ | Proportionate measurement. On NW. slope 40 ft. below top of ascent. |
| | 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. on the E. bdy. of sec. 23, with brass cap marked |

S 23 ¼ | /

1915

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

42.00 Ravine, 10 ft. below cor., drains S.30°W.

Ascend abruptly

chains

57.00 Top of spur, 290 ft. above ravine, projects S.60°W.

Gradually ascend over W. slope of mountain.

61.60 Head of ravine, 10 ft. above spur, drains W. Ascend.

77.20 Top of spur, 135 ft. above head of ravine, projects W.

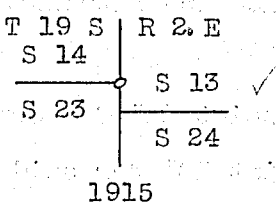
Descend.

79.20 Swale, 40 ft. below spur, drains N.70°W.

Gradually ascend.

82.07 The cor. of secs. 13,14,23 and 24. Knowing that a closing cor. will be necessary for secs. 13 and 24, I reestablish this cor. for secs. 14 and 23 as follows:

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




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

Land, mountainous, general W. exposure, drains W. 30 chs. to N. Hollow, thence S. into Twelve Mile canyon.

Soil, gravelly and rocky with some shallow brown clay, sub-soil, rocky and hard, dry clay.

No timber.

Undergrowth, sage, oak, service and buck brush.

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From cor. of secs. 14 and 23, I run

North, retracing bet. secs. 13 and 14.

39.85 Fall 40 lks. W. of the ¼ sec. cor. which is a limestone, 12 x 8 x 8 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

The bearing of this ½ mile is N.0° 34'E., and the distance is 39.85 chs.

From ¼ sec. cor., I run

North

40.00 No trace of the cor. of secs. 11,12,13 and 14 can be

chains

found. Set temp. point for cor. of secs. 11,12,13 and 14 which I designate "A".

Cease work.

September 27,1915.

September 28: At 7h. 45m.a.m. apparent time, I set off 39°11' on the lat. arc; 1° 43'S., on the decl. arc; and determine a meridian with the solar at point "A" for cor. of secs. 11,12,13 and 14.

Thence I run

North, retracing bet. secs. 11 and 12.

40.00 No trace of the ½ sec. cor. can be found.

81.90 Fall 2.67 chs. E. of the cor. of secs. 1,2,11 and 12 which is a limestone, 9 x 9 x 8 ins. above ground, firmly set an marked and witnessed as described by the surveyor general.

I return to point "A" for cor. of secs. 11,12,13 and 14 and set point "B" for said cor. 1.90 chs. N. and 2.67 chs. W. From point "A" point "B" bears N.54° 34'W., 3.27½ chs. distant.

September 28,1915

Howard W. Miller

U. S. Surveyor.

September 28:

From point "A" for cor. of secs. 11,12,13 and 14, I run West, retracing bet. secs. 11 and 14

40.36 Fall 20 lks. S. of the ¼ sec. cor.

I return to point "A" for cor. of secs. 11,12,13 and 14 and set point "C" for said cor. 39 lks. W. and 17 lks. N. From point "C", point "A" bears S.66° 27'E., 42½ lks. distant, point "B" bears N.52°48'W., 2.86 chs. distant. I restore cor. of secs. 11,12,13 and 14, 71 lks. W. and 47 lks. N. of point "A". For description of said cor. see line bet. secs. 13 and 14.

The bearing of the N.½ mile bet. secs. 13 and 14 is N.1°00'W., and the distance is 40.48 chs.

The bearing of the E.½ mile bet. secs. 11 and 14 is

Resurvey of subdivision of T.19 S.,R.2 E.

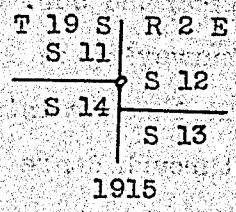
| chains | |
|---|---|
| | S.89°37'W. and the distance is 39.65 chs. |
| | The bearing of the line bet. secs. 11 and 12 is N.1°23'W. and the distance is 81.44 chs. |
| | September 28,1915 |
| | Isaac Hayes<br>U.S.Transitman. |
| | --- |
| | September 27: From the cor. of secs. 14 and 23, I run N.0° 34'E., resurveying on E. bdy. sec.14 |
| | Over mountainous land draining W., ascend over W. slope of mountain through dense undergrowth of oak, sage, service and buck brush. |
| 2.90 | Spur, 15 ft. above sec. cor., projects NW. |
| | Descend. |
| 10.80 | Bottom of ravine and stream, 2 lks. wide, 1 in. deep, good water, 130 ft. below spur, course N.75° W. |
| | Ascend. |
| 21.30 | Top of E. side of rocky knoll, 175 ft. above ravine bears E. and W. A low saddle bears E. about 2½ chs. |
| | Descend. |
| 24.35 | Swale, near head, 65 ft. below knoll, drains NW. |
| | Thence along W. slope mountain. |
| 39.85 | The ¼ sec. cor. Knowing that this cor. will refer to sec. 14 only, I reestablish same as follows: |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone and earth on solid rock for ¼ sec. cor. on E. bdy. of sec. 14, with brass cap marked |
| | S 14 ¼ \| 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | September 27,1915 |
| | September 28: Thence N.1°00'W. from ¼ sec. cor. with continuous chaining. |
| | Continue along broken W. slope through dense undergrowth. |

chains

80.33 The restored point for. cor. of secs. 11,12,13 and 14.

Knowing that a closing cor. will be necessary for secs. 12 and 13, I establish cor. for secs. 11 and 14 as follows:

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 11 and 14, with brass cap marked




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

Land, mountainous, general W. exposure and drainage.

Soil, gravelly and rocky mixed with shallow brown clay on hard, dry clay and rock sub-soil.

No timber.

Undergrowth, oak, sage, service and buck brush.

Fair grazing.

September 28,1915.

Howard W. Meier
U. S. Surveyor.

---

September 28

From cor. of secs. 11 and 14, I run

S.89°37'W., resurveying bet. secs. 11 and 14.

Over mountainous land draining W., through dense undergrowth of oak, buck and service brush.

Gradually descend over W. slope of mountain.

38.30 Enter dense cedar timber, bears N. and S.

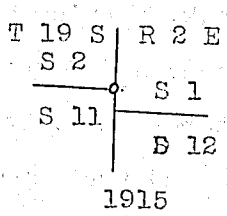
39.65 On W. slope, 610 ft. below sec. cor. and 110 ft. above canyon to the W. The ¼ sec. cor. which is a limestone 8 x 12 x 8 ins. above ground, firmly set, marked ¼ on N. face. No accessories to cor. I mark bearing trees as follows:

A pinon, 16 ins. diam., bears N.24½°E., 34 lks.

| chains | |
|---|---|
| | dist., marked ¼ S 11 B T |
| | A pinon, 12 ins. diam., bears S.5½°E., 63 lks. |
| | dist., marked ¼ S 14 B T |
| | Land, mountainous, slopes and drains W. to North Hollow, thence S. |
| | Soil, gravelly and rocky with some shallow sandy clay on gravelly and rocky sub-soil. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, oak, sage, service and buck brush. |
| | September 28,1915. |
| | Isaac Hayes<br>U. S. Transitman. |
| | --- |
| | September 28: |
| | From the cor. of secs. 11 and 14, I run |
| | N.1° 23'W., resurveying on E. bdy. of sec. 11. |
| | Over mountainous land draining W., through dense undergrowth of oak, service and buck brush. |
| | Gradually ascend and descend along W. slope of mountain. |
| 9.50 | Limestone outcroppings, bear E. and W. |
| 35.40 | Leave service and buck brush, enter scattering sage and dense oak, bears E. and W. |
| | Begin gradual descent over NW. slope. |
| 38.50 | Begin abrupt descent over N. slope. |
| 40.72 | Proportionate measurement; on steep N. slope, 50 ft. below top of steep descent. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the E. bdy. of sec. 11, with brass cap marked |
| | S ¼ 11 \| ✓<br>1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Continue steep descent into canyon. |

| chains | |
|---|---|
| 45.45 | Enter scattering pinon timber, bears E. and W. |
| 46.10 | Limestone ledge, 40 ft. high, bears NE. and SW. |
| 49.40 | Bottom of canyon, 270 ft. below ¼ sec. cor., drains SW. Ascend abruptly over rocky SE. slope. |
| 51.40 | Leave dense oak and sage brush, bears E. and W. |
| 58.20 | Enter scattering cedar timber, bears E. and W. |
| 59.40 | Top of N. brink of canyon, 310 ft. above bottom, bears NE. and SW. |
| | Thence along W. slope of mountain. |
| 60.00 | Leave timber, enter dense oak, sage, service and buck brush, bears E. and W. |
| 78.00 | Small ravine, drains W. |
| 81.44 | The cor. of secs. 1,2,11 and 12. Knowing that a closing cor. will be necessary for secs. 1 and 12, I reestablish this cor. for secs. 2 and 11 as follows: |

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




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

Land, mountainous, rough in parts, general W. exposure and drainage.

Soil, gravelly and rocky with some sandy clay loam on gravelly and hard clay sub-soil.

Timber, scattering scrub pinon and cedar.

Undergrowth, sage, oak, service and buck brush.

Fair grazing.

---

From the cor. of secs. 2 and 11, I run

North, retracing bet. secs. 1 and 2

| | |
|---|---|
| 11.00 | September 28: At this station, I set off 1° 48½' S., on |

| chains | |
|---|---|
| | the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°11'. |
| 40.00 | No trace of the old ¼ sec. cor. can be found. |
| 100.00 | Set temp. point. Cease work. |
| | September 28,1915. |
| | September 29: |
| 100.34 | Intersect N. bdy. of the Tp. 5.82 chs. N.89°06'E. of the restored closing cor. of secs. 1 and 2 |
| | The bearing of this mile is therefore N.3°19'W. and the distance is 100.42 chs. |
| | Thence from cor. of secs. 2 and 11 |
| | N.3°19'W., resurveying bet. secs. 1 and 2 |
| | Over rolling mountainous land draining W., through dense undergrowth of oak, service and buck brush. |
| | Ascend and descend along W. slope of mountain. |
| 23.15 | Enter dense sage brush, bears E. and W. |
| 33.00 | Begin precipitous descent over N. slope into Funks Cove, bears E. and W. |
| 37. 95 | Descend abruptly over broken limestone ledge, bears NW. and SE. |
| 39.45 | At base of ledge, 330 ft. below top of steep descent. |
| | Proportionate measurement |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the E. bdy. of sec. 2, with brass cap marked |
| | S 2 / ¼ / 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Continue steep descent. |
| 54.25 | Bottom of canyon, 385 ft. below ¼ sec. cor., drains W. |
| | Wood road in canyon, bears E. and W. |
| | Gradually ascend. |
| 58.60 | Top of ascent, bears E. and W. Thence over W. slope. |

Resurvey of subdivision of T.19 S.,R.2 E.

| chains | |
|---|---|
| 59.60 | Leave dense undergrowth, enter scattering pinon and cedar timber, bears E. and W. |
| 65.50 | Descend abruptly |
| 82.45 | Bottom of canyon and stream, 6 lks. wide, 4 ins. deep, good water, 425 ft. below top of steep descent, course W. |
| | Ascend abruptly over precipitous S. slope over series of red and yellow conglomerate sandstone ledges. |
| 97.00 | Top of ridge and divide between Six mile canyon and ~~Funk's~~ Tarbusher's cove, 590 ft. above creek, bears E. and W. |
| | Descend abruptly over ledges and boulders. |
| 100.42 | The closing cor. of secs. 1 and 2. |
| | Land, rough broken mountains, general W. exposure and drainage. |
| | Soil, gravelly and rocky with some shallow sandy soil on gravelly and rocky sub-soil. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, oak, sage, service and buck brush. |

September 29,1915.

Howard W. Miller.
U. S. Surveyor.

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Subdivision of T.19 S.,R.2 E.

September 24: At 7h. 30m.a.m. apparent time, I set off 39°08' on the lat. arc; 0°10'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25,30,31 and 36 on the E. bdy. of the Tp. heretofore described

(Knowing that closing cors. will be necessary upon the 1st. Meridional line West for the first range of secs. I run the lines bet. secs. 25 and 36, 24 and 25, 13 and 24, 12 and 13 and 1 and 12, S.89°53'W. on true lines as follows:)

Subdivision of T.19 S.,R.2,E.

| chains | |
|---|---|
| | Thence I run |
| | S.89°53'W., bet. secs. 25 and 36 |
| | Over rough mountainous land draining SE. through dense undergrowth of oak, choke cherry and buck brush and scrub mahogany timber. |
| | Ascend abruptly over SE. slope of mountain. |
| 13.50 | Leave oak brush, enter exceptionally dense mahogany and scattering pinon and cedar timber, bears N. and S. |
| 18.20 | Top of ridge and divide between Twelve Mile canyon and North Hollow, 480 ft. above sec. cor., bears NE. and SW. Leave choke cherry, enter dense undergrowth of manzanita bears N. and S. |
| | Descend abruptly over SW. slope |
| 31.70 | Swale, 255 ft. below ridge, drains NW. |
| | Gradually ascend across point of small spur, thence descend |
| 34.72 | September 27:I return to this point which is 40.00 chs. East of the closing cor. of secs. 25 and 36 and to protect an old area in sec. 36 set a ¼ sec. cor. as follows: |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the N. bdy. of sec. 36, with brass cap marked |
| | S 36<br>¼<br>1915 |
| | from which |
| | A mahogany, 5 ins. diam., bears S.35½°E., 31 lks. dist., marked ¼ S 36 B T |
| | A mahogany, 4 ins. diam., bears S.36°W., 47 lks. dist., marked ¼ S 36 BT |
| | September 27,1915 |
| 40.00 | Point falls on gradual NW. slope, 120 ft. below swale |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the S. bdy. of sec. 25, with brass cap marked |

chains

S 25
¼
1915

from which

A mahogany, 4 ins. diam., bears N.40°E., 20 lks. dist., marked ¼ S 25 B T

A mahogany,4 ins. diam., bears N.43°W., 21 lks. dist., marked ¼ S 25 B T

43.70 Leave timber, enter dense undergrowth of sage brush, bears N. and S.

55.55 Ravine, 305 ft. below ¼ sec. cor., projects SW

Ascend over nearly E. slope.

58.85 Spur, 50 ft. above ravine, projects SW.

Gradually descend over SW. slope through scattering timber and dense undergrowth.

74.72 Set point.

September 24: Raining at noon, obsn. for lat. impossible.

September 24,1915.

September 27:

74.72 Intersect E.bdy.sec. 35 , 1.20 chs. S.3°35'W. of the cor. of secs. 26 and 35. At intersection

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 25 and 36, with brass cap marked

T 19 S | R 2 E
S 26 | S 25
CC
S 35 | S 36
1915

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

Land, rough mountainous. E. 18.20 chs. slopes and drains SE. into Twelve Mile canyon. W. 56.52 chs. general W. exposure and drainage.

Soil, gravelly and rocky with some shallow sandy soil on gravelly and rocky sub-soil.

Timber, mahogany, pinon and cedar.

Subdivision of T.19 S.,R.2 E.

| chains | |
|---|---|
| | Undergrowth, oak, service, sage, choke cherry and buck brush. Fair grazing. |
| | --- |
| | September 27: At 8h. 40m.a.m. apparent time, I set off 39°09' on the lat. arc; 1° 22'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19,24,25 and 30 on the E. bdy. of the Tp. heretofore described |
| | Thence I run |
| | S.89°53'W., on true line bet. secs. 24 and 25. |
| | Over mountainous land draining W., through pine and fir timber and undergrowth of sage, manzanita and service brush. Gradually descend along N. slope of ridge. |
| 6.65 | Leave pine and fir timber, enter rather dense mohogany timber, bears N. and S. |
| 13.30 | Descend abruptly over NW. slope. Timber and undergrowth exceptionally dense. |
| 18.90 | Leave mahogany, enter dense pinon and cedar timber with undergrowth of manzanita and buck brush, bears N. and S. |
| 31.80 | Base of descent, 730 ft. below sec. cor., leave sage brush, bears N. and S. |
| | Gradually ascend over rocky S. slope. |
| 35.25 | Low spur, projects NE. Enter dense mahogany timber, bears N. and S. Descend abruptly over W. slope. |
| 40.00 | On steep W. slope, 155 ft. below spur. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

S 24
¼
———
S 25
1915

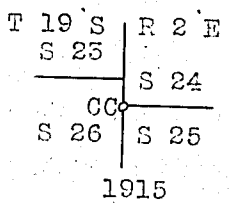
from which

A pinon, 10 ins. diam., bears N.22°E., 11 lks. dist., marked ¼ S 24 B T

A mahogany, 10 ins.diam.,bears S.12½°W., 39 lks. dist., marked ¼ S 25 B T

Subdivision of T.19 S.,R.2 E.

| chains | |
|---|---|
| | Continue steep descent. |
| 48.60 | Ravine, 220 ft. below ¼ sec. cor., drains NE. |
| | Thence alongNE. slope of spur. |
| 54.00 | Descend abruptly over NW. slope. |
| 60.30 | Enter dense oak and scattering maple undergrowth, bears N. and S. |
| 61.15 | Bottom of canyon, 320 ft. below top of steep descent, drains SW. |
| | Ascend abruptly over E. slope over small limestone ledges, timber and undergrowth more scattering, bears N. and S. |
| 67.50 | Top of ascent, 110 ft. above canyon, bears NE. and SW. |
| | Descend abruptly over W. slope through dense undergrowth. |
| 72.15 | Enter scattering pinon and cedar timber, bears N. and S. |
| 75.12 | On. W. slope, 185 ft. below top of ascent. |
| | Intersect E. bdy. sec. 26, 2.87 chs. S.0°13'E. of the cor. of secs. 23 and 26. At intersection |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 24 and 25, with brass cap marked |




from which

A cedar, 8 ins. diam., bears N.16°E., 10 lks. dist., marked T 19 S R 2 E S 24 B T

No other tree within limits.

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

Land, rough broken mountainous, general W. exposure and drainage.

Soil, gravelly and rocky on rocky sub-soil.

Timber, pine, fir, pinon, cedar and mahogany.

Undergrowth, oak, service, sage and buck brush.

Subdivision of T.19 S.,R.2 E.

| chains | |
|---|---|
| | Fair grazing. |
| | September 27: At this cor., I set off 1° 25'S., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°09' |
| | September 27,1915. |
| | --- |
| | September 28: At 8h.a.m. apparent time., I set off 39°10' on the lat. arc; 1° 44'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13,18,19 and 24 on the E. bdy. of the Tp. heretofore described. |
| | Thence I run |
| | S.89°53'W., ontrue line bet. secs. 13 and 24. |
| | Over mountainous land draining W., through dense undergrowth of sage. |
| | Gradually descend over W. slope. |
| 13.35 | Ravine, 215 ft. below sec. cor., drains SW. |
| | Ascend. |
| 16.25 | Spur, 30 ft. above ravine, projects SW. about 20 chs. |
| | Enter dense undergrowth of oak, service, buck brush and sage, bears E. and S. |
| | Descend. |
| 40.00 | On W. slope, 270 ft. below spur. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 13 / ¼ / S 24 / 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Continue descent |
| 62.45 | Ravine, 220 ft. below ¼ sec. cor., drains S. |
| | Gradually ascend |
| 68.25 | Spur, 30 ft. above ravine, projects S. about 18 chs. |
| | Descend over W. slope 105 ft.to |

Subdivision of T.19 S.,R.2 E.

| chains | |
|---|---|
| 75.47 | Intersect E.bdy. sec.23, 5.27 chs. S.0°24'E. of the cor. of secs. 14 and 23. At intersection, |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 13 and 24, with brass cap marked |

T 19 S | R 2 E
S 14 | S 13
CC
S 23 | S 24
1915

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

Land, mountainous, general W. exposure and drainage.

Soil, gravelly, rocky and shallow sandy loam on gravelly and rocky sub-soil.

Timber, a few scattering pinon on both sides of line.

Undergrowth, oak, sage, service and buck brush.

Fair grazing.

---

From the cor. of secs. 7,12,13 and 18 on the E. bdy. of the Tp. heretofore described, I run

S.89°53'W., on a true line bet. secs. 12 and 13.

Over mountainous land draining NW., through dense undergrowth of maple, oak, service and buck brush.

Descend abruptly.

4.85 Ravine, 85 ft. below cor., drains NW.

Gradually ascend.

10.10 Spur, 20 ft. above ravine, projects NW. about 10 chs.

Leave dense undergrowth, enter medium growth of sage brush, bears NW. and S.

Descend.

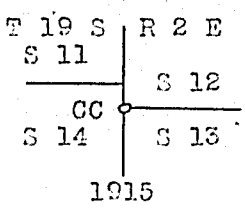
40.00 On W. slope of mountain, 680 ft. below top, of spur.

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., with brass cap marked

S 12
¼
S 13
1915

Subdivision of T.19 S.,R.2 E.

| chains | |
|---|---|
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | September 28: At this cor., I set off 1° 49'S., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°10' |
| | Continue descent. |
| 54.25 | Ravine, 100 ft. below ¼ sec. cor., drains N. |
| | Ascend over E. slope of spur. |
| 62.50 | Spur, 40 ft. above ravine, projects N. about 20 chs. |
| | Descend abruptly over W. slope. Land strewn with large boulders. |
| 75.88 | On W. slope 440 ft. below spur. |
| | Intersect E. bdy. sec.14, 5.66 chs. S.1°00'E., of the cor. of secs. 11 and 14. At intersection |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 12 and 13, with brass cap marked |




| | |
|---|---|
| | raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| | Land, mountainous, general W. exposure, drains NW. |
| | Soil, stony and rocky mixed with some shallow sandy and clay loam on gravelly and rocky sub-soil. |
| | Timber, scattering pine, N. of line on W.½ mile. |
| | Undergrowth, oak, sage, service, maple and buck brush. |
| | Fair grazing. |
| | September 28,1915. |
| | --- |
| | September 29: At 9h. a.m. apparent time, I set off 39°11' on the lat. arc; 2° 09'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1,6,7 and 12 on the E. bdy. of the Tp. heretofore described. |

Subdivision of T.19 S.,R.2 E.

| chains | |
|---|---|
| | Thence I run |
| | S.89°53'W., on true line bet. secs. 1 and 12 |
| | Over rolling mountainous land facing and draining NW., through dense undergrowth of sage and choke cherry brush. |
| | Gradually descend over nearly W. slope of mountain. |
| 1.90 | Base of descent, 10 ft. below sec. cor. |
| | Gradually ascend over nearly E.slope. |
| 6.45 | Ridge, 50 ft. above base of descent, bears N. and S. |
| | Gradually descend over W. slope. |
| 21.50 | Enter scattering oak and buck brush, bears N. and S. |
| 40.00 | On W. slope, 485 ft. below ridge. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

S 1
¼
S 12
1915

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

From this cor. a sheep corral bears S.22°W., about 60.00 chs.

| | |
|---|---|
| 55.85 | Enter dense oak brush, bears N. and S, |
| 77.74 | On W. slope, 615 ft. below ¼ sec. cor. |
| | Intersect E.bdy. sec.11, 6.92 chs. S.1°23'E. of the cor. of secs. 2 and 11. At intersection |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 1 and 12, with brass cap marked |

T 19 S | R 2 E
S 2 | S 1
CC
S 11 | S 12
1915

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

Land mountainous, general W. exposure and drainage.

Soil, black loam mixed with white limestone and gravel

General Description

chains

on gravelly and rocky sub-soil.

No timber.

Undergrowth, oak, buck, sage and choke cherry. Fair grazing.

11:30 a.m.

September 29,1915.

Isaac Hayes
U. S. Transitman.

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General description

This fractional township consists of mountainous land, the S.½ of sec. 36 lying on the SE. slope, the remaining part on the W. slope of a high mountain ridge which bears in a northerly and southerly direction. The elevation is approximately 7000 ft. The S.½ mile of the township drains S. into Twelve Mile Canyon, the next 3½ miles drains W. into North Hollow which is about ½ mile W. of the W. bdy. of the present survey and the N. 2 miles drians NW. into Funks Cove. The soil is generally rocky of limestone formation with some shallow sandy loam soil on the surface. The sub-soil is gravelly and rocky.

Dense mahogany, pinon and cedar timber is found in the southeastern part of the township. With this timber considerable pine and fir timber is found. The township in general is covered with a dense undergrowth of oak sage, service, buck, maple and choke cherry undergrowth and in places is very dense. The land supports a fair growth of bunch grass which is good for grazing.

The township is watered by serveral small streams of good water which apparently flow the entire year.

There are no settlers in the township, nor do I find any indications of mineral.

The lands are used for the grazing of sheep and cattle .

General Description

Howard W. Keller
U. S. Surveyor

Isaac Hayes
U. S. Deputy.

# FINAL OATH OF UNITED STATES SURVEYOR.

I, Howard W. Miller, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 14 day of May, 1915, 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 north and south boundaries and subdivision and survey of subdivision of T.19 S., R.2 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Howard W. Miller
*U. S. Surveyor.*

Subscribed by said Howard W. Miller, and sworn to before me this 11 day of April, 1916

SEAL

A. C. Thoresen
U. S. Surveyor General for Utah

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 191

The foregoing field notes of the survey of

executed by

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

*U. S. Surveyor General.*

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

6—2761

*U. S. Surveyor General.*

# CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Isaac Hayes, U.S. Transitman Howard W. Miller, U. S. Surveyor &, ~~U.S. Surveyor~~, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of resurvey of the north and south boundaries and subdivision and survey of the subdivision of T.19 S., R.2 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 him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

| NAME. | PERIOD OF SERVICE. | | CAPACITY. |
|---|---|---|---|
| | BEGUN. | ENDED. | |
| Hyrum Whittock | Sept. 24, 1915 | Sept. 30, 1915 | axman |
| Angus Christianson | Sept. 24, 1915 | Sept. 30, 1915 | axman |
| Melvin Jensen | Sept. 24, 1915 | Sept. 30, 1915 | flagman and cornerman |
| Carl Ray | June 12, 1915 | Sept. 30, 1915 | chainman |
| William Fredrickson | June 12, 1915 | Sept. 30, 1915 | chainman |
| Rutan W. Riley | Sept. 24, 1915 | Sept. 30, 1915 | chainman |
| Edward Jones | Sept. 24, 1915 | Sept. 30, 1915 | chainman |
| Edward Oliver | June 12, 1915 | Sept. 30, 1915 | flagman |
| [illegible] | Sept. 24, 1915 | Sept. 30, 1915 | cornerman. |
| Harry Fox | June 12, 1915 | Sept. 30, 1915 | cornerman. |
| Leslie [illegible] | Sept. 24, 1915 | Sept. 30, 1915 | flagman |
| | | | |
| | | | |
| | | | |
| | | | |

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

Howard W. Miller
U. S. Surveyor.

6—2764

# FINAL OATH OF UNITED STATES SURVEYOR.

I, Isaac Hayes, U.S. Transitman, ~~U.S. Surveyor~~, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 15 day of May, 1915, 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 north and south boundaries and subdivision and survey of the subdivision of T.19 S., R.2 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear 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 ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Isaac Hayes
U. S. Transitman ~~U.S. Surveyor~~.

Subscribed by said Isaac Hayes, and sworn to before me this 15th day of May, 1916

Frank Brockbank
Clerk of Court

SEAL

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 191

The foregoing field notes of the survey of .....

executed by .....

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

.....
*U. S. Surveyor General.*

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

.....
*U. S. Surveyor General.*

6—2761

# FINAL OATH OF UNITED STATES SURVEYOR.

I, ....., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , 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 .....

..... of the .....

..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

.....

*U. S. Surveyor.*

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

SEAL

.....

.....

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 2, 1915

The foregoing field notes of the re/survey of the north and south boundaries and subdivision and survey of the subdivision of T. 19 S. R. 2 E.

executed by Howard W. Miller and Isaac Hayes, under his special instructions dated May 14, 1915, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

C. O. Thorsen

*U. S. Surveyor General.*

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

6--2761

.....

*U. S. Surveyor General.*

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BOOK A-421

E

U. S. Surveyor General's Office
MAY 31 1916
SALT LAKE CITY, UTAH.

# FIELD NOTES

OF THE ~~SURVEY OF THE~~

RESURVEY OF THE NORTH BOUNDARY

AND

SURVEY OF THE SUBDIVISION OF

T. 19 S., R. 3 E.

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

*in the State of* UTAH

EXECUTED BY

Howard W. Miller, U. S. Surveyor

and

Isaac Hayes, U. S. Transitman

~~in the capacity of U. S. Surveyor~~, *under instructions dated* May 14, *1915,*

*issued by the United States Surveyor General to govern surveys included in*

*Group No.* 39, *which were approved by the Commissioner of the General Land*

*Office,* June 5, *1915*

*Survey commenced* June 20, *1915*

*Survey completed* July 27, *1915*

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BOOK A-421

# INDEX DIAGRAM.

Township 19 South, Range 3 East

| | | | | | |
|---|---|---|---|---|---|
| 6 106 105 | 5 103 | 4 81 80 | 3 63 61 | 2 44 42 | 1 25 24 |
| 7 102 101 | 8 99 | 9 78 77 | 10 60 58 | 11 40 39 | 12 21 20 |
| 18 98 96 | 17 95 | 16 75 74 | 15 56 54 | 14 37 35 | 13 18 16 |
| 19 92 | 20 93 90 | 21 72 70 | 22 53 51 | 23 34 32 | 24 14 12 |
| 30 88 87 | 29 85 | 28 69 67 | 27 49 47 | 26 31 29 | 25 11 9 |
| 31 83 | 32 | 33 66 | 34 45 | 35 27 | 36 7 |

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Resurvey of N. bdy. of T.19 S.,R.3 E.

chains

Survey commenced June 20,1915 and executed with Young and Sons' light mountain transits Nos. 8538 and 8582, with Smith solar attachment. The horizontal limbs are provided with two double verniers, placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were approved for use in this survey by the Assistant Supervisor of Surveys for Utah.

I examine the adjustments of the transits and find no errors, then, to test the solar apparatus by comparing their indications, resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At my camp, which is situated near the cor. of secs. 22, 23,26 and 27, T.19 S.,R.3 E., approximate latitude 39°09' N., longitude 111° 36'W., I set off 39°09' on the lat. arc; 23°27'N., on the decl. arc; and at 8h. 30m.a.m. apparent time, determine a meridian with the solar ( transit No. 8582) and note that the West edge of a large rock about 20 chs. distant, bears North

At 4h.p.m. apparent time, with this same instrument, I set off 39°09' on the lat. arc; 23°27'N., on the decl. arc; and determine a meridian with the solar and find that the rock again bears North

Transit No. 8538

At 8h. 45m.a.m. apparent time, I set off 39°09' on the lat. arc; 23°27'N., on the decl. arc; and determine a meridian with the solar and find that the West edge of the rock bears North.

At 4h.15mp.m. apparent time, I set off 39°09' on the lat. arc; 23° 27'N., on the decl. arc; and determine a meridian with the solar and find that the rock again bears North.

At 8h. 17m.p.m. by my watch which is 26 minutes fast of

Resurvey of N. bdy. of T.19 S.,R.3 E.

chains

l.m.t., I observe Polaris in accordance with the Manual of Instructions, and note that an angle to a tree at time of observation is 52° 20' to the E.

| | | |
|---|---|---|
| Watch time of obsn. June 20,1915 ------ | 8h. | 17m.p.m. |
| Corrected for long.111°36'W., subtract-- | | 26m. |
| Correct L.M.T.of obsn. June 20,1915----- | 7h. | 51m.p.m. |
| U.C. Polaris June 20,1915 ---------- | 7h. | 39m.a.m. |
| Corrected for long.111°36'W., subtract-- | | 1.2m. |
| L.M.T.of U.C.Polaris at station,June20 - | 7h. | 37.8m.a.m. |
| Time from U.C.Polaris and time of obsn. | 12h. | 13.2m. |
| Subtract from ---------- | 23h. | 56.1m. |
| Hour angle of Pol. at obsn.---------- | 11h. | 42.9m. |

Azimuth of Polaris at obsn.----------0° 06'E.

52° 20' + 0°06' = 52° 26'. The true bearing of the tree is therefore N.52° 26'E.

June 20,1915.

---

June 21: At 7h.a.m., I lay off the azimuth of Polaris 52°26' to the west from the tree and find that meridian established by observations on Polaris falls on the West side of the rock. The solar meridians determined by a.m. and p.m. observations therefore agree with the meridian established by observations on Polaris and I conclude that the adjustments of the transits are correct.

No magnetic declination is taken on account of defective needles.

June 21,1915.

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In the decl. arc settings, .80 of the tabulated refraction for computing declinations is used, due to the altitude of the country.

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Measurements

Steel tapes, 5 chs. long, together with clinometers for determining slope angles were used by both parties in the field and the reduced horizontal distances only appear in the field notes. The tapes were tested, comparison being made with a standard tape, 1 ch. long,

| chains | |
|---|---|
| | kept and used for that purpose only. |
| | --- |
| | July 15: For solar obsn. see N.½ mile bet. secs. 5 and 6. |
| | I begin at the cor. of secs. 4,5,32 and 33 on the N. bdy. of the Tp. 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. |
| | Knowing that closing cors. will be necessary upon this Tp. bdy. for subdivisions in T.19 S.I destroy all marks on this cor. referring to T.19 S. |
| | Thence I run |
| | West, retracing S. bdy. of sec. 32, T.18 S.,R.3 E. |
| 40.61 | Fall 19 lks. N. of the ¼ sec. cor. which is a limestone, 14 x 10 x 3 ins. above ground, firmly set, marked ¼ on N. face. No accessories to cor. |
| | The bearing of this ½ mile is S.89° 44'W., and the distance is 40.61 chs. |
| | From ¼ sec. cor., I continue |
| | West |
| 80.90 | Fall 8 lks. N. of the cor. of secs. 5,6,31 and 32 which is a limestone, 3 x 8 x 9 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | The bearing of this ½ mile is S.89°53'W., and the distance is 40.29 chs. |
| | Thence from cor. of secs. 32 and 33 |
| | S.89° 44'W., resurveying S. side of sec. 32, T.18 S.,R.3 E. |
| | Over rough mountainous land draining N. into Six Mile Canyon, through dense undergrowth of oak, service, rose brush and chaparral. |
| | Gradually descend across bench. |
| 4.20 | Edge of bench, 5 ft. below sec. cor., bears N. and S. |
| | Descend abruptly. |
| 6.00 | Enter dense aspen timber, bears N. and S. |
| 6.65 | Stream, 2 lks. wide, 3 ins. deep, good water, 55 ft. below |

Resurvey of N. bdy. of T.19 S.,R.3 E.

| chains | |
|---|---|
| | edge of bench, course N. |
| | Thence over broken land sloping N. |
| 10.15 | Old wood road, bears NW. and SE. |
| 15.60 | Leave oak brush, enter dense willows, bears N. and S. |
| 16.00 | Stream, 4 lks. wide, 4 ins. deep, good water, course at bend from S. to SW. |
| 21.05 | Same stream, course N., 195 ft. below sec. cor. |
| | Gradually ascend. |
| 28.75 | Stream, 1 lk. wide, 1 in. deep, good water, course N. |
| | Enter dense maple undergrowth, ascend abruptly over NE. slope. |
| 33.70 | Leave willows and maple undergrowth and aspen timber, enter dense pine and fir timber, bears N. and S. |
| 35.85 | Top of steep ascent, 135 ft. above stream, bears N. and S. Thence along broken N. slope through dense timber. |
| 40.61 | The ¼ sec. cor. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for ¼ sec. cor. on the S. bdy. of sec. 32, T.18 S.,R.3 E., with brass cap marked |
| | S. 32 ¼ / 1915 |
| | from which |
| | A red pine, 7 ins. diam., bears N.40½°E., 15½ lks. dist., marked ¼ S 32 B T |
| | A red pine, 7 ins. diam., bears N.59°W., 14 lks. dist., marked ¼ S 32 B T |
| | Thence |
| | S.89°53'W., with continuous chaining |
| 59.70 | Leave pine and fir timber, enter aspen timber and dense undergrowth of maple, oak, service, sage and chaparral, bears N. and S. |
| 66.15 | Stream, 7 lks. wide, 2 ins. deep, good water, course NW. |
| 67.00 | Stream, 4 lks. wide, 1 in. deep, good water, course NW. |
| 74.85 | Stream, 1 lk. wide, 1 in. deep, good water, course N. |
| 75.35 | Stream, 5 lks. wide, 4 ins. deep, good water, course N. |

Resurvey of N. bdy. of T.19 S.,R.3 E.

| chains | |
|---|---|
| 77.00 | Leave aspen timber, bears N. and S. Continue through dense undergrowth. |
| 80.60 | Stream, 3 lks. wide, 2 ins. deep, good water, course NW. |
| 80.90 | The cor. of secs. 5,6,31 and 32. Knowing that a closing cor. will be necessary for secs. 5 and 6, I re-establish this cor. for secs. 31 and 32 as follows: |
| | Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 31 and 32, T.18 S.,R.3 E., with brass cap marked |
| | T 18 S \| R 3 E<br>S 31 \| S 32<br>1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, mountainous, slopes and drains N. into Six Mile canyon. |
| | Soil, moist black loam mixed with gravel on sub-soil of moist, sticky clay and rock. |
| | Timber, patches of pine, fir and aspen. |
| | Undergrowth, willow, maple, oak, service, sage, buck, rose brush and chaparral. |
| | Fair grazing. |
| | July 15,1915. |
| | --- |
| | July 9: For solar obsn. see line bet. secs. 1 and 6, W. bdy. of this Tp. |
| | From the cor. of secs. 31 and 32, I run |
| | West, retracing S. side of sec. 31, T.18 S.,R.3 E |
| 39.94 | Fall 20 lks. N. of the ¼ sec. cor. which is a limestone, 4 x 8 x 12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. |
| | The bearing of this ½ mile is S.89°43'W., and the distance is 39.94 chs. |
| | From ¼ sec. cor., I run |
| | West |

Resurvey of N. bdy. of T.19 S.,R.3 E.

| chains | |
|---|---|
| 80.26 | Fall 6 lks. N. of the cor. of Tps, 18 and 19 S.,Rs. 2 and 3 E. which is a limestone, 5 x 8 x 12 ins. above ground, firmly set, properly marked. No accessories to cor. |
| | The bearing of this ½ mile is S.89°55'W., and the distance is 40.32 chs. |
| | Thence from cor. of secs. 31 and 32 |
| | S.89°43'W., resurveying S. bdy. sec. 31, T.18 S.,R.3 E. |
| | Over rough mountainous land draining N., through dense undergrowth of oak, service, buck brush and chaparral. Scattering pine timber on both sides of line. Asc. |
| 7.60 | Small resevoir bears N. about 8 chs. |
| 14.95 | Spur, 95 ft. above sec. cor., projects NW. |
| | Descend. |
| 17.00 | Swale, 30 ft. below spur, drains N. |
| | Ascend abruptly over nearly N. slope of mountain. |
| 39.94 | On top of flat topped ridge, bears N. and S., 360 ft. above swale. The ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground alongside old cor. for ¼ sec. cor. on the S. bdy. of sec. 31, T.18 S.,R.3 E., with brass cap marked |
| | S 31 ½ / 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No suitable trees within limits. |
| | Thence |
| | S.89°55'W., with continuous chaining. |
| 40.75 | Leave dense undergrowth, enter dense pine timber, bears N. and S. Gradually descend. |
| 65.25 | Ravine, 270 ft. below ¼ sec. cor., drains N. |
| | Ascend. |
| 74.35 | Spur, 75 ft. above ravine, projects N. Leave timber, enter dense undergrowth, bears N. and S. |
| | Gradually descend. |

| chains | |
|---|---|
| 80.26 | The cor. of Tps. 18 and 19 S.,Rs. 2 and 3 E., 105 ft. below spur. I destroy all marks on old cor. pertaining to T.19 S.,Rs. 2 and 3 E. and raise a mound of stone 2 ft. base, 1½ ft. high; N. of cor. |
| | Land, rough N. slope mf mountain. Drains N. into Six Mile canyon. |
| | Soil, light, dry black mountain loam and gravel on sub-soil of hard clay, very moist and mixed with rock. |
| | Timber, pine and fir. |
| | Undergrowth, oak, service, sage, buck brush and chaparral. |
| | Fair grazing. |
| | July 9,1915. |
| | Isaac Hayes<br>U. S. Transitman |

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Subdivision of T.19 S.,R.3 E.

| | |
|---|---|
| | June 23: At 8h. a.m. apparent time, I set off 39°07' on the lat. arc; 23° 27'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2,35 and 36 on the S. bdy. of the Tp. heretofore described. |
| | Thence I run |
| | N.0°01'W., bet. secs. 35 and 36 |
| | Over rough mountainous land facing and draining SW. into S. fork of Twelve Mile canyon, through dense young aspen timber and exceptionally dense undergrowth of choke cherry, willow, chaparral and grass. |
| | Gradually ascend. |
| 4.10 | Stream, 1½ lks. wide, 1 in. deep, good water, course W. |
| 14.45 | Stream, 6 lks. wide, 4 ins. deep, good water, course SW. |
| 25.15 | Creek, 7 lks. wide, 3 ins. deep, good water, course W. |
| 28.85 | Leave dense choke cherry and willow undergrowth, bears |

Subdivision of T.19 S.,R.3 E.

chains

NE. and SW. Begin ascent over series of small benches.

40.00 At base of steep ascent, 215 ft. above sec. cor.

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

| | |
|---|---|
| S 35 ¼ | S 36 |

1915

from which

An aspen, 8 ins. diam., bears S.24½°E., 53 lks. dist., marked ¼ S 36 B T

An aspen, 9 ins. diam., bears S.63½°W., 69 lks. dist., marked ¼ S 35 B T

40.30 Enter scattering pine and fir timber, bears E. and W.

Ascend abruptly.

42.00 Ascend more gradually.

50.00 Enter choke cherry and willow undergrowth, bears E. and W.

53.65 Leave dense choke cherry and willow undergrowth, bears E. and W.

73.50 Top of ascent, 275 ft. above ¼ sec. cor., bears E. and W.

Gradually descend over NW. slope

80.00 On W. slope near top of divide between N. and S. forks of Twelve Mile canyon.

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

| | |
|---|---|
| T 19 S<br>S 26 | R 3 E<br>S 25 |
| S 35 | S 36 |

1915

from which

An aspen, 10 ins. diam., bears N.15½°E., 25 lks. dist., marked T 19 S R 3 E S 25 B T

A balsam, 24 ins. diam., bears S.41½°E., 54 lks. dist., marked T 19 S R 3 E S 36 B T

A spruce, 17 ins. diam., bears S.19½°W., 49 lks. dist., marked T 19 S R 3 E S 35 B T

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | An aspen, 11 ins. diam., bears N.37½°W., 44 lks. dist., marked T 19 S R 3 E S 26 B T |
| | Land, mountainous, general SW. exposure and drainage. |
| | Soil, rich black mountain loam mixed with rock on sub-soil of moist brown sticky clay, packed hard and mixed with rock. |
| | Timber, dense aspen and scattering pine and fir. |
| | Undergrowth, choke cherry, willows, chaparral and grass. |
| | Good grazing. |
| | June 23: At this cor., I set off 23° 27'N., on the decl. arc; and at apparent noon obs. the sun on the meridian the resulting lat. is 39°08'. |
| | East, on a random line bet. secs. 25 and 36 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Intersect E. bdy. of the Tp. 5 lks. S. of the cor. of secs. 25,30,31 and 36 heretofore described. |
| | Thence |
| | S.89°58'W., on a true line bet. secs. 25 and 36 |
| | Over mountainous land draining SW., through dense aspen and scattering pine and fir timber and undergrowth of chaparral, weeds and grass. |
| | Ascend abruptly over SE. slope. |
| 1.80 | Top of ascent, 15 ft. above sec. cor., bears NE. and SW. |
| | Gradually descend over rolling W. slope. |
| 40.00 | 255 ft. below top of ascent on W. slope of small flat. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 25 / ¼ / S 36 / 1915 |
| | from which |
| | An aspen, 6 ins. diam., bears S.82½°E.,38 lks. dist., marked ¼ S 36 B T |
| | An aspen, 4 ins. diam., bears N.60°W.,11 lks. dist., marked ¼ S 25 B T |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 48.70 | A pond, 2 x 1 chs. bears N. about 1.75 chs. |
| 52.00 | Head of spring, 1 ft. in. dia., stream flows NW. |
| | Enter dense willow undergrowth, bears N. and S. |
| 54.00 | Leave willow undergrowth and aspen timber, enter small opening, bears N. and S. |
| 57.00 | Leave opening, enter dense aspen timber, bears N. and S. |
| 80.00 | The cor. of secs. 25,26,35 and 36, 260 ft. below ¼ sec. cor. |
| | Land, mountainous; general W. exposure; drains SW. |
| | Soil, rich black loam and decayed vegetation mixed with gravel on sub-soil of moist clay, packed hard and mixed with rock. |
| | Timber, aspen and scattering pine and fir. |
| | Undergrowth, chaparral, weeds, willow and grass. |
| | Good grazing. |
| | June 23,1915. |
| | --- |
| | June 24: At 8h. a.m. apparent time, I set off 39°08' on the lat. arc; 23° 27'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25,26,35 and 36 |
| | Thence I run |
| | N.0°01'W., bet. secs. 25 and 26 |
| | Gradually descend over mountainous land facing nearly W. and draining SW., through dense aspen and scattering pine and fir timber and undergrowth of chaparral, choke cherry, weeds and grass. |
| 1.50 | Enter dense willow undergrowth, bears E. and W. |
| 3.05 | Stream, 6 lks. wide, 3 ins. deep, good water, course W. |
| | Leave willow undergrowth, bears E. and W. |
| 11.70 | Stream, 20 lks. wide, 1 in. deep, good water, course W. |
| 14.75 | From this point a small pond or lake bears W. about 5 chs. |
| 17.25 | Leave timber and undergrowth, bears E. and W. Gradually ascend through sage brush opening. |
| 21.46 | From this station the S. side of an old log cabin bears |

Subdivision of T.19 S., R.3 E.

| chains | |
|---|---|
| | S.84° 22'W. The center of a small lake bears S.82°W. and is about 15 chs. distant from the cabin. |
| 21.50 | Top of divide between N. and S. Forks of Twelve Mile canyon, 40 ft. above sec. cor., bears E. and W. to cabin, thence NW. |
| | Gradually descend over NW. slope. |
| 27.25 | Wash, 30 lks. wide, 12 ft. deep, drains W. |
| 30.15 | Leave sage brush, enter aspen timber and undergrowth of chaparral, weeds and grass, bears E. and W. |
| 38.35 | Old road, bears NE. and SW. |
| 40.00 | On N. slope, 100 ft. below divide |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 26 ¼ \| S 25<br>1915 |
| | from which |
| | An aspen, 6 ins. diam., bears S.82½°E., 38 lks. dist., marked ¼ S 25 B T |
| | An aspen, 4 ins. diam., bears S.60°W., 11 lks. dist., marked ¼ S 26 B T |
| 43.50 | Stream, 4 lks. wide, 3 ins. deep, good water, course W. |
| | Gradually ascend. |
| 51.50 | Top of ascent, 60 ft. above ¼ sec. cor., bears E. and W. |
| | Enter scattering pine timber, gradually descend over N. slope. |
| 65.70 | Leave pine, timber, bears E. and W. |
| 74.50 | Road, Mayfield to Ferron and Emery, Utah, bears NE. and and SW. |
| 76.05 | Branch of same road, bears NE. and SW. |
| 80.00 | On N. slope, 60 ft. below top of ascent. |
| | 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 |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | T 19 S \| R 3 E<br>S 23 \| S 24<br>S 26 \| S 25 |
| | 1915 |
| | from which |
| | An aspen, 10 ins. diam., bears N.40½°E., 33 lks. dist., marked T 19 S R 3 E S 24 B T |
| | An aspen, 12 ins. diam., bears S.73°E., 36 lks. dist., marked T 19 S R 3 E S 25 B T |
| | An aspen, 10 ins. diam., bears S.15°W., 22 lks. dist., marked T 19 S R 3 E S 26 B T |
| | An aspen, 12 ins. diam., bears N. 31½°W., 50 lks. dist., marked T 19 S R 3 E S 23 B T |
| | Land, mountainous SW. exposure and drainage on S.21.50 chs., general N. exposure and drainage on N. 58.50 chs. |
| | Soil, rich black mountain loam and decayed vegetation mixed with gravel and rocks on sub-soil of moist clay loam, packed hard and mixed with rock. |
| | Timber, aspen, scattering pine and fir. |
| | Undergrowth, chaparral, weeds, sage brush and willow. |
| | Good grazing. |
| | June 24: At this cor., I set off 23° 27'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°09'. |
| | --- |
| | N.89°58'E., on a random line bet. secs. 24 and 25 |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.94 | Intersect E. bdy. of the Tp., 5 lks. N. of the cor. of secs. 19,24,25 and 30 heretofore described. |
| | Thence |
| | West, on a true line bet. secs. 24 and 25 |
| | Over rough mountainous land draining NW., through dense aspen and scattering pine timber and undergrowth of willows, chaparral, weeds and grass. |
| | Descend abruptly. |
| 4.60 | Bottom of swale and marsh, stream in same, 2 lks. wide |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | 3 ins. deep, 80 ft. below sec. cor., course NW. |
| | Gradually ascend across small bench. |
| 7.20 | Stream, 4 lks. wide, 3 ins. deep, good water, course NW. |
| | Leave timber, enter opening, bears N. and S. |
| 13.00 | Leave bench and enter aspen and scattering pine timber, bears N. and S., 20 ft. above swale. |
| | Descend. |
| 23.55 | Stream, 2 lks. wide, 1½ ins. deep, good water, course NW. |
| | Leave pine timber, bears NW. and SE. |
| 32.00 | Bottom of swale and stream, 2 lks. wide, 2 ins. deep, good water, 180 ft. below edge of bench, course N. |
| | Gradually ascend. |
| 36.00 | Spur, 35 ft. above swale, projects NE. |
| | Descend. |
| 39.97 | On NW. slope 50 ft. below spur. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 24 / ¼ / S 25 / 1915 |
| | from which |
| | An aspen, 5 ins. diam., bears N.47°E., 16 lks. dist., marked ¼ S 24 B T |
| | An aspen, 6 ins. diam., bears S.78°W., 9 lks. dist., marked ¼ S 25 B T |
| 43.50 | Leave dense aspen enter pine and fir timber, bears N. and S. |
| 49.40 | Leave pine, enter dense aspen timber, bears N. and S. |
| 51.35 | Stream, 2 lks. wide, 1 in. deep, good water, course NE. |
| 57.35 | Stream, 3 lks. wide, 3 ins. deep, good water, course NW |
| 61.00 | Stream, 2 lks. wide, 3 ins. deep, good water, in center of small marsh, course NE. |
| 68.75 | Road, Mayfield to Ferron and Emery, Utah, bears NE. and SW. |
| 77.00 | Swale, 220 ft. below ¼ sec. cor., drains N. |
| | Ascend 15 ft. to |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 79.94 | The cor. of secs. 23,24,25 and 26 |
| | Land, mountainous, general N. exposure and drainage. |
| | Soil, rich black mountain loam and decayed vegetation mixed with gravel on sub-soil of moist sticky brown clay, packed hard and mixed with rock. |
| | Timber, dense aspen and scattering pine and fir. |
| | Undergrowth, willow, chaparral, weeds and grass. |
| | Good grazing. |
| | June 24,1915. |
| | --- |
| | June 25: At 8h. a.m. apparent time I set off 39°09' on the lat. arc; 23°26'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23,24, 25 and 26. |
| | Thence I run |
| | N.0°01'W., bet. secs. 23 and 24. |
| | Over rough mountainous land draining N. through dense aspen and scattering pine timber and undergrowth of chaparral, deer brush, weeds and grass. |
| | Descend over nearly N. slope. |
| 20.10 | Stream, 3 lks. wide, 4 ins. deep, good water, 210 ft. below sec. cor., course W. |
| | Thence over nearly W. slope. |
| 22.60 | Descend over NW. slope. |
| 23.00 | U.S.Forest Service Telephone line from Mayfield to Emery, Utah, bears E. and W. |
| 25.60 | Head of ravine, drains W. Ascend. |
| 29.80 | Top of ascent, bears E. and W. Descend abruptly |
| 32.65 | Bottom of canyon and N. Fork of Twelve Mile Cr., 25 lks. wide, 1 ft. deep, good water, swift current, 25 ft. below top of ascent, course W. |
| | Ascend abruptly, enter scattering choke cherry undergrowth bears E. and W. |
| 40.00 | On S. slope, 110 ft. above canyon. |
| | 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 |
| | S 23 ¼ \| S 24<br>1915 |
| | from which |
| | An aspen, 4 ins. diam., bears N.32¾°E., 20 lks. dist., marked ¼ S 24 B T |
| | An aspen, 6 ins. diam., bears N.72°W., 28 lks. dist., marked ¼ S 23 B T |
| | June 25: At this station, I set off 23° 25'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 09'. |
| 41.70 | Top of ascent, 10 ft. above ¼ sec. cor., bears E. and W. Gradually descend across nearly level bench. |
| 43.30 | Pond, stagnant water, 3 chs. long, 70 lks. wide, bears E. and W. Enter dense willow undergrowth. |
| 44.00 | N. bank of pond, bears E. and W. Ascend abruptly. |
| 50.60 | Top of ascent, 180 ft. above pond, bears NE. and SW. Gradually descend over NW. slope. |
| 53.95 | Ravine, 5 ft. below top of ascent, drains NW. Ascend. |
| 57.15 | Leave willow undergrowth, bears NW. and SE. Enter spruce and balsam fir timber. |
| 62.15 | Leave spruce and balsam fir timber, bears E. and W. |
| 70.00 | Thence over nearly W. slope. |
| 73.25 | Top of ascent and point of small spur, 255 ft. above ravine, projects W. |
| | Gradually descend over NW. slope 25 ft. to |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 13,14,23 and 24, with brass cap marked |
| | T 19 S \| R 3 E<br>S 14 \| S 13<br>S 23 \| S 24<br>1915 |
| | from which |
| | An aspen, 8 ins. diam., bears N.27½°E., 38 lks. |

| chains | |
|---|---|
| | dist., marked T 19 S R 3 E S 13 B T |
| | An aspen, 8 ins. diam., bears S.35½°E., 14 lks. dist., marked T 19 S R 3 E S 24 B T |
| | An aspen, 6 ins. diam., bears S.21½°W., 45 lks. dist., marked T 19 S R 3 E S 23 B T |
| | An aspen, 9 ins. diam., bears N.48½°W., 32½ lks. dist., marked T 19 S R 3 E S 14 B T |
| | Land, rough mountainous, slopes and drains S. into N. fork of Twelve mile canyon which drains W. |
| | Soil, rich black mountain loam and decayed vegetation on sub-soil of rich black clay loam, moist and packed hard. Portions of mile streaked with rock. |
| | Timber, dense aspen and scattering patches of pine and fir. |
| | Undergrowth, willow, choke cherry, chaparral, deer brush, weeds and grass. |
| | Good grazing. |
| | June 25,1915. |
| | --- |
| | June 26: At 7h. a.m. apparent time, I set off 39° 10' on the lat. arc; 23° 25'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14,23 and 24. |
| | Thence I run |
| | East, on a random line bet. secs. 13 and 24. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.03 | Intersect E. bdy. of the Tp. 4½ lks. N.of the cor. of secs. 13,18,19 and 24 heretofore described. |
| | June 26: At this cor., I set off 23° 24'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°10' |
| | Thence |
| | N.89°58'W., on a true line bet. secs. 13 and 24 |
| | Over rolling mountainous bench land draining S., through exceptionally dense undergrowth of willows. |
| | Gradually descend. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 3.40 | Leave willow undergrowth, bears N. and S. Thence over bench strewn with large boulders. |
| 11.75 | Enter scattering patches of aspen timber, bears N. and S. |
| 26.15 | Edge of bench and leave timber, bears N. and S. Descend abruptly over W. slope. |
| 29.35 | Base of steep descent and enter dense aspen timber and undergrowth of chaparral, grass and weeds, bears N. and S. Thence along nearly S. slope; gradually descend. |
| 40.01½ | On brokem steep S. slope, 360 ft. below sec. cor. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked<br>S 13<br>¼<br>S 24<br>1915<br>from which<br>An aspen, 5 ins. diam., bears S.50½°E., 16½ lks. dist., marked ¼ S 24 B T<br>An aspen, 5 ins. diam., bears N.51½°W., 46 lks. dist., marked ¼ S 13 B T |
| 41.55 | Descend abruptly over W. slope. |
| 43.40 | Base of steep descent and enter very dense willow undergrowth, bears N. and S. Gradually descend over rolling S. slope. |
| 47.90 | Stream, 2 lks. wide, 1 in. deep, good water, course S. |
| 49.55 | Leave dense willow undergrowth, bears N. and S. |
| 59.55 | Bottom of swale and stream, 2 lks. wide, 2 ins. deep, good water, 150 ft. below ¼ sec. cor., course SE. An old corral bears S. about 10 chs. Gradually ascend. |
| 61.75 | Old road, bears NW. and SE. |
| 74.75 | Top of ascent and bench, 15 ft. above swale, bears N. and S. Descend abruptly over W. slope. |
| 77.75 | Base of steep descent, bears N. and S. Gradually descend over W. slope. |
| 80.03 | The cor. of secs. 13,14,23 and 24, 95 ft. below top of bench. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Land, rough mountainous and rolling benches, general S. exposure and drainage. |
| | Soil, rich black mountain loam and decayed vegetation mixed with gravel and streaked with large rock on sub-soil of moist, sticky clay loam, packed hard and mixed with gravel and rock. |
| | Timber, aspen. A few scattering pine and fir on both sides of line. |
| | Undergrowth, willow, chaparral, weeds and grass. |
| | Good grazing. |
| | --- |
| | N.0°01'W., bet. secs. 13 and 14. |
| | Over mountainous land facing W., drains SW., through dense aspen and scattering pine and fir timber and undergrowth of chaparral, weeds and grass. |
| | Gradually ascend. |
| 1.30 | Top of ascent, 15 ft. above sec. cor., bears E. and W. |
| | Descend over N. and NW. slopes. |
| 6.85 | Stream, 2 lks. wide, 1 in. deep, good water, 40 ft. below top of ascent, course SW. |
| | Ascend. |
| 8.25 | Old road, bears E. and W. Enter choke cherry undergrowth, bears E. and W. |
| 22.85 | Small stream of good water, flows W. |
| 26.25 | Enter dense willow undergrowth, bears E. and W. |
| 28.85 | Leave willow, bears E. and W. |
| 36.30 | Leave aspen timber, bears E. and W. |
| 36.85 | Top of open bench, 430 ft. above sec. cor., bears E. and W. Thence across bench. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

S 14 ¼ | S 13

1915

from which

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | An aspen, 10 ins. diam ., bears S.32½°E., 267 lks. dist., marked ¼ S 13 B T |
| | An aspen, 10 ins. diam., bears N. 49¼°W., 298 lks. dist., marked ¼ S 14 B T |
| 43.00 | Leave bench and enter dense deer and choke cherry undergrowth, bears NW. and SE. |
| | Ascend abruptly. |
| 58.00 | Top of high point of mountain, 350 ft. above ¼ sec. cor., falls W. |
| | Gradually descend over NW. slope. |
| 67.40 | Bottom of ravine and stream, 6 lks. wide, 4 ins. deep, good clear water, 15 ft. below point, course SW. |
| | Ascend abruptly over S. slope. |
| 80.00 | On Steep S. slope, 380 ft. above ravine. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 11,12,13 and 14, with brass cap marked |

| T 19 S | R 3 E |
|---|---|
| S 11 | S 12 |
| S 14 | S 13 |

1915

from which

A balsam, 10 ins. diam., bears N.30¼°E., 230 lks. dist., marked T 19 S R 3 E S 12 B T

A pine, 12 ins. diam., bears S. 82°E., 178 lks. dist., marked T 19 S R 3 E S 13 B T

No tree in sec. 14

A balsam, 14 ins. diam., bears N.17½°W., 221 lks. dist., marked T 19 S R 3 E S 11 B T

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

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

Soil, rich black loam and decayed vegetation in the S. ½ mile gravelly and rocky with shallow mountain loam in the N.½ mile. Sub-soil, generally a rich, brown clay,

chains

very moist, packed hard and mixed with rock.

Timber, aspen. Some scattering pine and fir on both sides of line.

Undergrowth, chaparral, weeds, choke cherry, deer brush and grass.

Good grazing.

June 26,1915.

Howard W. Miller
U. S. Surveyor.

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July 17: At 9h.a.m. apparent time, I set off 39°10' on the lat. arc; 21° 20'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 11,12,13 and 14.

Thence I run

S.89°58'E., on a random line bet. secs. 12 and 13.

40.00 Set temp. ¼ sec. cor.

July 17: Walking on line at noon, obsn. for lat. not taken.

80.10 Intersect E. bdy. of the Tp. 21 lks. S. of the cor. of secs. 7,12,13 and 18 heretofore described.

Thence

S.89°53'W., on a true line bet. secs. 12 and 13

Over mountainous land draining NE. into S. Fork of Six Mile canyon. Gradually ascend over rolling bench land strewn with large boulders and through pine and fir timber. Considerable dead and fallen timber.

23.00 Base of steep ascent, bears NW. and SE. Ascend abruptly.

27.60 Top of high ridge and divide between S. Fork Of Six Mile canyon and Twelve Mile canyon, 420 ft. above sec. cor., bears NW. and SE.

Descend abruptly over steep rocky W. slope.

40.05 At foot of steep rocky W. slope, 340 ft. below top of divide.

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

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | the ground for ¼ sec. cor., with brass cap marked |
| | S 12 / ¼ / S 13 / 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No suitable trees within reasonable distance. |
| | Continue descent over W. and NW. slopes. |
| 56.00 | Swale, 230 ft. below ¼ sec. cor., drains SW. |
| | Thence along broken S. slope gradually ascending. |
| 80.10 | The cor. of secs. 11,12,13 and 14. |
| | Land, rough mountainous, slopes and drains E. and SW. from divide at 27.80 chs. |
| | Soil, gravelly and rocky of limestone formation with some shallow mountain loam on gravelly and hard, moist sticky clay sub-soil. |
| | Timber, pine and fir. |
| | Undergrowth, chaparral, grass and weeds. |
| | Fair grazing. |
| | July 17,1915. |
| | Isaac Hayes<br>U. S. Transitman. |
| | --- |
| | July 1: At 9h. a.m. apparent time, I set off 39°11' on the lat. arc; 23° 10'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 11,12,13 and 14. |
| | Thence I run |
| | N.0°01'W., bet. secs. 11 and 12. |
| | Over rough mountainous land draining S., through pine and aspen timber and undergrowth of chaparral and weeds. |
| | Ascend abruptly over SE. slope to divide between Six Mile and Twelve Mile canyons. |
| 10.00 | Leave timber, bears N.80°E. and S.80°W. |
| | Thence over barren slope. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 14.00 | Top of S. brink of divide between Six Mile and Twelve Mile canyons, 350 ft. above sec. cor., bears N.80°E. and S.80°W. |
| | Thence over rolling mountain top. |
| 18.95 | Enter balsam fir timber; bears E. and W. |
| 24.95 | Leave timber, enter flat, bears E. and W. |
| 30.00 | Leave flat, enter timber, bears E. and W. |
| 36.35 | Leave timber, bears E. and 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 |

S 11 ¼ | S 12

1915

from which

A balsam, 10 ins. diam., bears N.48½°E., 168 lks. dist., marked ¼ S 12 B T

A balsam, 10 ins. diam., bears S.49½°W., 224 lks. dist., marked ¼ S 11 B T

Thence over rolling mountain top through scattering timber.

54.07 N. brink of mountain top, bears E. and W. The line passes over series of high ledges and breaks, down which I cannot chain. Set flag at this point.

July 1,1915.

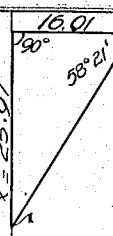
Howard W. Miller.
U. S. Surveyor.

July 22: At 9 h.a.m. apparent time, I set off 39°12' on the lat. arc; 20° 25'N., on the decl. arc; and determine a meridian with the solar at a point at base of ledges, N.0°01'W. of the flag set at 54.07 chs. To determine the distance down ledges I triangulate as follows:

I direct the telescope to the flag on top of ledges and turn an angle of 90° to the east and measure a base line 16.01 chs. to a point where the base subtends an

Subdivision of T.19 S.,R.3 E.

chains




angle of 58° 21' to the flag. Therefore tan. x base or 1.62230 x 16.01 gives 25.97 chs. which added to 54.07 chs. =

80.04 To point of triangulation. I now measure S. 4 lks. to

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground to solid rock and 8 ins. in a mound of stone for cor. of secs. 1,2, 11 and 12, with brass cap marked

| | |
|---|---|
| T 19 S<br>S 2 | R 2 E<br>S 1 |
| S 11 | S 12 |

1915

from which

A pine, 16 ins. diam., bears N.47°E., 48 lks. dist., marked T 19 S R 3 E S 1 B T

A pine, 8 ins. diam., bears S.47°E., 47 lks. dist., marked T 19 S R 3 E S 12 B T.

No trees in secs. 2 and 11

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

Land, very rough mountainous and rolling mountain top. S.14.00 chs. steep S. and SE. slopes of divide, drains S. into Twelve mile canyon. Next 40.07 chs. rolling mountain top on divide between Six Mile and Twelve Mile canyons. N. 25.93 chs. N. slope of mountain drains into Six Mile canyon.

Soil of N. 25.93 chs. and S.14.00 chs. rocky of limestone formation on rocky sub-soil. Soil of mountain top, shallow brown mountain loam mixed with gravel and rock on moist sticky clay and rock sub-soil.

Timber, balsam fir and pine.

Undergrowth, chaparral, weeds and grass.

July 22: At this cor. I set off 20° 24'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 12'.

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Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | July 21: At 10h. a.m. apparent time, I set off 39°12' on the lat. arc; 20° 36'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1,6,7 and 12 on the E. bdy. of the Tp. heretofore described. |
| | Thence I run |
| | S.89°53'W., on a random line bet. secs. 1 and 12. |
| 40.00 | Set temp. ¼ sec. cor. |
| | Walking on line at noon, obsn. for lat. not taken. |
| 60.00 | Set point. |
| | July 21,1915 |
| | July 22,1915: |
| | From the cor. of secs. 1,2,11 and 12, I run |
| | N.89°53'E., on a random line bet. secs. 1 and 12. |
| 20.10 | Fall 12 lks. N. of the temp. point set July 21. |
| | The bearing of the line bet. secs. 1 and 12 is S.89°58'W. and the distance is 80.10 chs. |
| | Thence from cor. of secs. 1,6,7 and 12 on the E. bdy. of the Tp., I run |
| | S.89°58'W. on true line bet. secs. 1 and 12. |
| | Over rough mountainous land draining NE., through dense undergrowth of chaparral, weeds and grass. |
| | Gradually desc'd along base of steep N. slope of mountain. |
| 7.00 | Log road, bears NE. and SW. |
| 14.50 | Enter dense aspen, pine and fir timber, bears N. and S. |
| 15.20 | Stream, 3 lks. wide, 3 ins. deep, good water, course NE. |
| | Ascend to base of mountain. |
| 18.00 | Base of mountain, bears NW. and SE. Leave dense timber, bears NW. and SE. Dense timber S. of line. |
| | Ascend abruptly |
| 30.15 | Stream, 2 lks. wide, 2 ins. deep, good water, course NE. |
| 40.05 | On steep NE. slope of mountain, 575 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 1 / ¼ |
| | S 12 / 1915 |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | from which |
| | A pine, 30 ins. diam., bears N.64°E., 35 lks. dist., marked ¼ S 1 B T |
| | A pine, 10 ins. diam., bears S.61°E., 32 lks. dist., marked ¼ S 12 B T |
| | Continue ascent. |
| 49.30 | Top of high spur, 300 ft. above ¼ sec. cor., projects NE. |
| | Gradually descend along steep N. slope. |
| 63.10 | Descend abruptly over rocky land slide. |
| 66.10 | Stream, 3 lks. wide, 1 in. deep, good water, course NW. |
| 80.10 | On steep N. slope 460 ft. below spur. |
| | The cor. of secs. 1,2,11 and 12. |
| | Land, rough broken mountains, general N. exposure and drainage into Six Mile canyon. |
| | Soil, rocky of limestone formation with some shallow clay loam on sub-soil of moist, sticky clay, packed hard and mixed with rock. |
| | Timber, pine, fir and aspen. |
| | Undergrowth, chaparral, weeds and grass. |
| | Fair grazing on portions of mile. |
| | July 22,1915. |
| | --- |
| | July 22: For solar obsn. see line bet. secs. 11 and 12. |
| | Knowing that closing cors. will be necessary upon the N. bdy. of the Tp., I run from cor. of secs. 1,2,11 and 12 N.0°01'W., on a true line bet. secs. 1 and 2 |
| | Over rough mountainous land draining N., descend through dense pine and fir timber and undergrowth of choke cherry, chaparral, weeds and grass. |
| 13.25 | Enter young pine timber and willow undergrowth, bears E. and W. |
| 23.05 | Leave young pine timber, enter dense pine and fir with scattering aspen, bears E. and W. |
| 39.70 | Stream, 1 lk. wide, 1 in. deep, good water, course NW. |
| 40.00 | On gradual N. slope, 765 ft. below sec. cor. |

Subdivision of T.19 S.,R.3 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 |
| | S ¼ 2 \| S 1<br>1915 |
| | from which |
| | A fir, 12 ins. diam., bears S.53½°E., 67 lks. dist., marked ¼ S 1 B T |
| | A fir, 16 ins. diam., bears S.74°W., 41 lks. dist., marked ¼ S 2 B T |
| | July 22,1915. |
| | July 23; Storm of rain prevents field work until 2 P.M. |
| | At 2h. p.m. apparent time, I set off 39°12' on the lat. arc; 20°11'N., on the decl. arc; and determine a meridian with the solar at the ¼ sec. cor. |
| | Thence I run |
| | N.0°01'W. |
| 41.10 | Stream, 2 lks. wide, 3 ins. deep, good water, course W. |
| 42.50 | Log road, bears NE. and SW. |
| 43.30 | Stream, 4 lks. wide, 5 ins. deep, good water, course NW. |
| 48.30 | Stream, 5 lks. wide, 4 ins. deep, good water, course NE. |
| 54.30 | Leave dense timber, bears E. and W. |
| 59.30 | Enter dense aspen and scattering pine timber, bears E. and W. |
| 71.25 | Wood road, bears NW. and SE. |
| 83.45 | Bottom of canyon and S. Fork of Six mile Cr., 30 lks. wide, 6 to 12 ins. deep, good water, swift current, 250 ft. below ¼ sec. cor., course NW. Dense pine and fir timber along creek. |
| | Ascend over S. and SW. slope of canyon 60 ft. to |
| 107.85 | Intersect N. bdy. of the Tp. 15.66 chs. West of the ¼ sec. cor. bet. secs. 1 and 36 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. At intersection |

Subdivision of T.19 S.,R.3 E.

chains

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

T 18 S R 3 E
S 35 | S 36
C | C
S 2 | S 1
T 19 S R 3 E
1915

from which

An aspen, 14 ins. diam., bears S.65°E., 45 lks. dist., marked T 19 S R 3 E S 1 B T

An aspen, 16 ins. diam., bears S.84°W., 45 lks. dist., marked T 19 S R 3 E S 2 B T

Note: I destroy all marks on the ¼ sec. cor. pertaining to sec. 1 and also return to the cor. of secs. 1,2, 35 and 36 and destroy marks on that post pertaining to secs. 1 and 2 and deface bearing trees.

Land, rough mountainous, slopes and drains N. and S. into S. Fork of Six Mile canyon which drains NW.

Soil, black mountain loam mixed with gravel on sub-soil of moist, sticky clay loam, packed hard and mixed with rock.

Timber, aspen, pine and fir.

Undergrowth, chaparral, choke cherry, willows, weeds and grass.

Good grazing.

July 23,1915.

---

June 23: At 8h. 30m.a.m. apparent time, I set off 39°07' on the lat. arc; 23° 27'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2,3,34 and 35 on the S. bdy. of the Tp. heretofore described.

Thence I run

N.0°01'W., bet. secs. 34 and 35

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Over rough mountainous land ascending along E. slope of mountain ridge through dense undergrowth of oak, service choke cherry, deer brush, weeds and grass. |
| 10.55 | Leave oak, choke cherry and service brush, enter dense aspen timber, bears E. and W. |
| 13.75 | Leave aspen timber, enter exceptionally dense service and oak brush, bears E. and W. |
| | Ascend abruptly. |
| 36.00 | Enter patch of dense aspen timber with willow undergrowth bears E. and W. |
| 40.00 | On SE. slope 325ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 34 ¼ \| S 35<br>1915 |
| | from which |
| | An aspen, 7 ins. diam., bears N.73½°E., 58 lks. dist., marked ¼ S 35 B T |
| | An aspen, 12 ins. diam., bears S.12°W., 58 lks. dist., marked ¼ S 34 B T |
| | June 23: At this ¼ sec. cor., I set off 23° 27'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°07'. |
| 42.05 | Enter dense aspen timber, bears E. and W. |
| 48.20 | Leave dense aspen timber, enter scattering oak and choke cherry undergrowth, bears NE. and SW. |
| 59.45 | Enter dense aspen timber and choke cherry undergrowth, bears E. and W. |
| 66.95 | Leave aspen, bears NE. and SW. |
| 75.25 | Enter dense aspen and choke cherry undergrowth, bears NE. and SW. |
| 80.00 | In edge of aspen timber on E. slope 305 ft. above ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | the ground for cor. of secs. 26,27,34 and 35, with brass cap marked |

| T 19 S | R 3 E |
|---|---|
| S 27 | S 26 |
| S 34 | S 35 |

1915

from which

An aspen, 6 ins. diam., bears N.52°E., 23 lks. dist., marked T 19 S R 3 E S 26 B T

An aspen, 5 ins. diam., bears S.76°E., 16 lks. dist., marked T 19 S R 3 E S 35 B T

An aspen, 4 ins. diam., bears S. 38½°W., 20 lks. dist., marked T 19 S R 3 E S 34 B T

An aspen, 8 ins. diam., bears N.3½°W., 351 lks. dist., marked T 19 S R 3 E S 27 B T

Land, mountains, slope generally E. and drain S.

Soil, rich black loam and decayed vegetation mixed with gravel on sub-soil of moist, sticky clay loam, packed hard and mixed with gravel and rock.

Timber, aspen.

Undergrowth, dense oak, service, choke cherry, willows, chaparral, weeds and grass.

Good grazing.

June 23,1915.

---

June 24; At 7h. a.m. apparent time, I set off 39°08' on the lat. arc; 23° 27'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 26,27,34 and 35.

Thence I run

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

40.00 Set temp. ¼ sec. cor.

79.88 Intersect N. and S. line 5 lks. S. of the cor. of secs. 25,26,35 and 36

Thence

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

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Over mountainous land draining S., through dense aspen and scattering pine and fir timber and undergrowth of deer and choke cherry brush. |
| 22.45 | Leave dense undergrowth, bears N. and S. |
| 27.40 | Stream, 3 lks. wide, 3 ins. deep, good water, course SW. |
| 30.60 | Stream, 2 lks. wide, 3 ins. deep, good water, course S. |
| 33.20 | Small marsh, 30 lks. wide , 310 ft. below sec. cor., bears N. and S. |
| | Thence over nearly S. slope , gradually ascending. |
| 39.94 | 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>S 26<br>¼<br>S 35<br>1915<br>from which<br>An aspen, 8 ins. diam., bears N.39°E., 66 lks. dist., marked ¼ S 26 B T<br>An aspen, 10 ins. diam., bears S.47¾°E., 46 lks. dist., marked ¼ S 35 B T |
| | June 24: At this cor., I set off 23° 27'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°08'. |
| 59.60 | Stream, 2 lks. wide, 3 ins. deep, good water, course SW. |
| 61.20 | Leave aspen, enter sage brush flat, bears N. and S. |
| 65.10 | Leave sagebrush flat, enter dense aspen timber, bears N. and S. |
| 68.40 | Stream, 1 lk. wide, 1 in. deep, good water, in bottom of swale, course S. |
| | Ascend. |
| 69.10 | Leave timber, enter opening, bears N. and S. |
| 75.30 | Leave opening, enter dense aspen timber and choke cherry undergrowth, bears N. and S. |
| 79.88 | The cor. of secs. 26,27,34 and 35, 205 ft. above ½ sec. cor. |
| | Land, mountainous, general S. exposure and drainage. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Soil, rich, heavy black clay loam mixed with gravel on sub-soil of moist sticky clay and gravel. |
| | Timber, aspen and very scattering pine and fir. |
| | Undergrowth, chaparral, deer brush, choke cherry, sage-brush, weeds and grass. Good grazing. |
| | --- |
| | N.0°01'W., bet. secs. 26 and 27 |
| | Over mountainous land draining SE., gradually ascend along E. slope of ridge in opening in timber covered with scattering choke cherry, sagebrush, weeds and grass. |
| 6.70 | Leave opening, enter dense aspen timber and undergrowth of service, choke cherry brush and grass. |
| 18.75 | Leave dense aspen timber, enter dense undergrowth of sage brush and scattering choke cherry. |
| 20.61 | Top of ridge and divide between N. and S. Forks of Twelve Mile canyon, 65 ft. above sec. cor., bears N.30°E. and S.30°W. From this station an old log cabin bears S.88°15'E. |
| | Descend abruptly over NW. slope |
| 26.50 | Enter dense willow undergrowth, bears E. and W. |
| 40.00 | On edge of small bench, 160 ft. below top of divide. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S ¼ 27 \| S 26<br>1915 |
| | from which |
| | An aspen, 8 ins. diam., bears N.69°E., 10 lks. dist., marked ¼ S 26 B T |
| | An aspen, 12 ins. diam., bears S.23°W., 9 lks. dist., marked ¼ S 27 B T |
| | Continue descent. |
| 71.85 | Stream, 6 lks. wide, 6 ins. deep, good water, course NW. |
| 74.95 | Road, Mayfield to Ferron and Emery, Utah, bears NE. and SW. |

chains

77.15 Stream, 3 lks. wide, 3 ins. deep, good water, course W.

80.00 On gentle N. slope 555 ft. below ¼ sec. cor.

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

| | |
|---|---|
| T 19 S<br>S 22 | R 3 E<br>S 23 |
| S 27 | S 26 |

1915

from which

An aspen, 5 ins. diam., bears N. 51½°E., 22 lks. dist., marked T 19 S R 3 E S 23 B T

An aspen, 5 ins. diam., bears S.37½°E., 10 lks. dist., marked T 19 S R 3 E S 26 B T

An aspen, 5 ins. diam., bears S.51°W., 3 lks. dist., marked T 19 S R 3 E S 27 B T

An aspen, 5 ins. diam., bears N.53°W., 29 lks. dist., marked T 19 S R 3 E S 22 B T

Land, broken mountainous, slopes E. and drains S. on S. 20.61 chs. and general N. exposure and drainage on N. 59.39 chs.

Soil, heavy black clay loam mixed with gravel on subsoil of moist, sticky clay, packed hard and mixed with rock.

Timber, aspen.

Undergrowth, choke cherry, service, willow, sagebrush, weeds and grass. Good grazing.

June 24,1915.

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June 25: At 8h. a.m. apparent time, I set off 39°09' on the lat. arc; 23° 26'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 22,23,26 and 27

Thence I run

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

40.00 Set temp. ¼ sec. cor.

Subdivision of T.19 S., R.3 E.

| chains | |
|---|---|
| 79.94 | Intersect N. and S. line 14 lks. N. of the cor. of secs. 23,24,25 and 26. |
| | Thence |
| | N.89°56'W., on a true line bet. secs. 23 and 26 |
| | Over mountainous land draining N., through aspen and scattering pine and fir timber and undergrowth of choke cherry, chaparral, weeds and grass. |
| | Gradually descend along N. slope. |
| 24.45 | Pond of stagnant water, extends N. and S. 5 chs. and E. and W. 2 chs. |
| 39.97 | 285 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 23<br>¼<br>———<br>S 26<br>1915 |
| | from which |
| | An aspen, 6 ins. diam., bears N.34°E., 19 lks. dist., marked ¼ S 23 B T |
| | An aspen, 7 ins. diam., bears S.64°E., 22 lks. dist., marked ¼ S 26 B T |
| | Continue descent. |
| 51.65 | Leave aspen timber, enter dense undergrowth of oak, service and choke cherry, bears NE. and SW. |
| 63.65 | Leave dense undergrowth, enter aspen timber with scattering undergrowth of choke cherry, bears N. and S. |
| 79.94 | The cor. of secs. 22,23,26 and 27, 365 ft. below ¼ sec. cor. |
| | Land, mountainous, slopes and drains N. into N. Fork of Twelve Mile canyon. |
| | Soil, heavy black clay loam and decayed vegetation mixed with gravel and rock on sub-soil of moist, sticky clay, packed hard and mixed with rock. |
| | Timber, aspen with some scattering pine and fir on both sides of line. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Undergrowth, choke cherry, service, oak, chaparral, weeds and grass. Good grazing. |
| | June 25: At this cor., I set off 23° 25'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°09'. |
| | --- |
| | N.0°01'W., bet. secs. 22 and 23 |
| | Over mountainous land sloping NW. and draining N. into N. Fork of Twelve Mile canyon, through dense aspen timber and undergrowth of choke cherry, chaparral, grass and weeds. |
| | Gradually descend. |
| 2.10 | Descend abruptly over N. slope. |
| 11.80 | Old canyon road, bears NE. and W. |
| 12.00 | U. S. Forest Service telephone line from Mayfield to Emery, Utah, bears NE. and W. Enter canyon bottom and exceptionally dense undergrowth of willows, bears NE. and W. |
| 12.90 | Stream, 4 lks. wide, 3 ins. deep, good water, course NW. |
| 18.85 | Bottom of N. Fork of Twelve Mile canyon and creek, 20 lks. wide 1 ft. deep, good water, swift current, 140 ft. below sec. cor., course W. |
| | Leave dense willow undergrowth and canyon bottom, bears E. and W. Ascend abruptly over S. slope. |
| 26.00 | Top of steep ascent, 200 ft. above creek, bears E. and W. |
| | Gradually ascend over series of small benches sloping S. |
| 40.00 | 145 ft. above top of steep ascent. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 22 ½ \| S 23 |
| | 1915 |
| | from which |
| | An aspen, 6 ins. diam., bears N.24¾°E., 11 lks. dist., marked ¼ S 23 B T |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | An aspen, 8 ins. diam., bears N.68°W., 16 lks. dist., marked ¼ S 22 B T |
| | June 25,1915. |
| | June 26: At 7h. a.m. apparent time, I set off 39°09' on the lat. arc; 23° 25'N., on the decl. arc; and determine a meridian with the solar at the ¼ sec. cor. |
| | Thence I run |
| | N.0°01'W. |
| 43.90 | A pond, 2 chs. long, 1 ch. wide, bears W. 75 lks. |
| 77.90 | The S. bank of a lake of good clear water, 1 to 5 ft. deep, bears SE. 2 chs. to outlet and W. 5 chs. |
| 80.00 | N. bank of lake, bears NW. and SE. Point for cor. of secs. 14,15,22 and 23 falls on unsafe ground, I therefore perpetuate cor. on safe ground 75 lks. N.0°01'W. on line bet. secs. 14 and 15. For description of same see line bet. secs. 14 and 15. |
| | Cor. point falls 375 ft. above ¼ sec. cor. |
| | Land, mountainous, slopes and drains N. and S. into N. Fork of Twelve Mile canyon. |
| | Soil, rich black loam and decayed vegetation on sub-soil of moist, sticky clay, packed hard. |
| | Timber, aspen. |
| | Undergrowth, choke cherry, willows, chaparral, weeds and grass. |
| | Good grazing. |
| | June 26: At true cor. point for secs. 14,15,22 and 23, I set off 23° 24'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 10'. |
| | --- |
| | S.89° 56'E., on a random line bet. secs. 14 and 23 |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.88 | Intersect N. and S. line, 26 lks. N. of the cor. of secs. 13,14,23 and 24 |
| | Thence |
| | N.89°45'W., on true line bet. secs. 14 and 23 |

| chains | |
|---|---|
| | Over rolling mountainous land draining S., through aspen and scattering pine and fir timber and undergrowth of choke cherry, willows, chaparral, weeds and grass. |
| 1.75 | Spring, at head, flows NW. |
| 6.40 | Center of marsh, 1 ch. wide, bears N. and S. |
| 14.45 | Stream, 2 lks. wide, 3 ins. deep, good water, course SW. |
| 15.90 | Stream, 3 lks. wide, 3 ins. deep, good water, course SW. |
| 17.00 | Stream, 1 lk. wide, 1 in. deep, good water, course SW. |
| 31.50 | Bottom of swale and stream, 5 lks. wide, 4 ins. deep, good water, 200 ft. below sec. cor., course SW. |
| 35.40 | Stream, 4 lks. wide, 3 ins. deep, good water, course SW. |
| 39.94 | 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>S 14<br>¼<br>———<br>S 23<br>1915<br>from which<br>An aspen, 12 ins. diam., bears N.12°E., 29 lks. dist., marked ¼ S 14 B T<br>An aspen, 8 ins. diam., bears S.22°E., 29 lks. dist., marked ¼ S 23 B T |
| 44.00 | Spur, 35 ft. above ¼ sec. cor., projects SW. Descend. |
| 51.35 | Stream in edge of small marsh, 3 lks. wide, 1 to 2 ins. deep, good water, course S. |
| 52.05 | Stream, 2 lks. wide, 2 ins. deep, good water, course SE. |
| 52.55 | Stream 2 lks. wide, 2 ins. deep, good water, course SE. |
| 65.25 | Stream, 3 lks. wide, 4 ins. deep, good water, course SE. |
| 69.20 | Stream, 2 lks. wide, 3 ins. deep, good water, course S. |
| 79.70 | Stream, 2 lks. wide, 2 ins. deep, good water, course S. |
| 79.88 | The true cor. point for cor. of secs. 14,15,22 and 23. |
| | Land, rolling mountainous, general S. exposure and drainage. |
| | Soil, rich black mountain loam mixed with gravel on subsoil of moist sticky clay, packed hard and mixed with rock. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Timber, aspen with some scattering pine and fir on both sides of line. |
| | Undergrowth, chaparral, willows, choke cherry, weeds and grass. Good grazing. |
| | June 26,1915. |
| | --- |
| | July 1: At 8h. a.m. apparent time, I set off 39°10' on the lat. arc; 23° 11'N., on the decl. arc; and determine a meridian with the solar at the true cor. point of secs. 14,15,22 and 23. |
| | Thence I run |
| | N.0°01'W., bet. secs. 14 and 15. |
| | Over rough mountainous land through dense aspen timber and undergrowth of chaparral, choke cherry, weeds and grass. Ascend towards base of high mountain ridge. |
| .75 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for the witness cor. to cor. of secs. 14, 15, 22, and 23, with brass cap marked |

T 19 S | R 3 E
S 15 | S 14
WC
S 22 | S 23
1915

from which

An aspen, 6 ins. diam., bears N.70°E., 22 lks. dist., marked W C T 19 S R 3 E S 14 B T

An aspen, 14 ins. diam., bears S.53½°E., 15 lks. dist., marked W C T 19 S R 3 E S 23 B T

An aspen, 10 ins. diam., bears S.10½°W., 28 lks. dist., marked W C T 19 S R 3 E S 22 B T

An aspen, 8 ins. diam., bears N.45°W., 16 lks. dist., marked W C T 19 S R 3 E S 15 B T

| | |
|---|---|
| 5.85 | Stream, 5 lks. wide, 3 ins. deep, good water, course SE. |
| 9.85 | Edge of rolling bench, 175 ft. above sec. cor., bears NEE and SW. Thence over rolling bench. |
| 20.00 | Old road, bears N.60°W. and S.60°E. |
| 21.25 | Ascend abruptly. |
| 40.00 | On rolling bench, 520 ft. above sec. cor. |

Subdivision of T.19 S.,R.3 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>S 15 ¼ \| S 14<br>1915<br>from which<br>An aspen, 7 ins. diam., bears S.57°E., 18 lks. dist., marked ¼ S 14 B T<br>An aspen, 10 ins. diam., bears S.59°W., 26 lks. dist., marked ¼ S 15 B T |
| 43.70 | Begin steep ascent over S. slope of mountain. |
| 57.35 | Leave aspen timber, enter service and deer brush, bears E. and W. |
| 74.10 | Enter scattering pine and scrub aspen timber, bears E. and W. |
| 79.00 | Thence over series of broken limestone ledges, 5 to 10 ft. high. |
| 80.00 | On steep S. slope amongst broken ledges, 1120 ft. above ¼ sec. cor.<br>Set an iron post, 3 ft. long, 2 ins. in dia., 6 ins. in the ground on solid rock and 20 ins. in a mound of stone for cor. of secs. 2, 3, 10 and 11, with brass cap marked<br>T 19 S R 3 E<br>S 10 \| S 11<br>S 15 \| S 14<br>1915<br>from which<br>A pine, 4 ins. diam., bears N.68½°E., 13 lks. dist., marked T 19 S R 3 E S 11 B T T<br>A pine, 4 ins. diam., bears S. 32½°E., 38 lks. dist., marked T 19 S R 3 E S 14 B T<br>A pine, 20 ins. diam., bears S.50°W., 108 lks. dist., marked T 19 S R 3 E S 15 B T<br>A pine, 6 ins. diam., bears N. 87°W., 99 lks. dist., marked T 19 S R 3 E S 10 B T |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Land, mountainous, rolling in the S.½, rough and steep in the N.½ mile. |
| | Soil, rich black loam and decayed vegetation mixed with gravel and rock on sub-soil of moist sticky clay and rock. Shallow in the N.½ mile. |
| | Timber, aspen with a few scattering pines. |
| | Undergrowth, choke cherry; chaparral, deer, service brush, weeds and grass. |
| | Fair grazing. |
| | July 1: At this cor., I set off 23°09'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°11'. |
| | --- |
| | S.89°45'E., on a random line bet. secs. 11 and 14. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.80 | Intersect N. and S. line 9 lks. S. of the cor. of secs. 1,2,11 and 12. |
| | Thence |
| | N.89° 49'W., on a true line bet. secs. 11 and 14. |
| | Over rough broken mountainous land draining S., through scattering pine, fir and aspen timber and undergrowth of chaparral and weeds. |
| | Ascend over broken SE. slope of divide between Six Mile and Twelve Mile canyons. |
| 29.80 | E. edge of divide between Six and Twelve Mile canyons, 250 ft. above sec. cor., bears NE. and SW. |
| | Thence over nearly level mountain top. |
| 34.60 | W. edge of top, bears NW. and SE. |
| | Descend over broken S. slope of mountain over rock slides and series of small broken limestone ledges, through very scattering timber. |
| 39.90 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone and earth on solid rock for ¼ sec. cor., with brass cap marked |

S 11
¼
---
S 14
1915

Subdivision of T.19 S.,R 3 E.

| chains | |
|---|---|
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Continue over broken slope. |
| 53.50 | Begin ascent towards top of mountain over ledges. |
| 79.80 | The cor. of secs. 10,11, 14 and 15. |
| | Land mountainous, very rough and broken, general S. exposure and drainage. |
| | Soil, rocky of limestone formation on rocky sub-soil. |
| | Timber, some scattering pine, fir and scrub aspen. |
| | Undergrowth, chaparral and weeds. Land too steep for grazing. |
| | July 1,1915. |
| | Isaac Hayes<br>U. S. Transitman. |
| | July 1: For solar obsm. see line bet. secs. 11 and 12. |
| | Walking on line at noon, obsn. for lat. not taken. |
| | N.0°01'W., bet. secs. 10 and 11 |
| | Over rough broken mountains draining S., through scattering pine and scrub aspen timber and undergrowth of chaparral and weeds. |
| | Ascend abruptly over S. slope. |
| 6.50 | Top of S. brink of mountain, divide between Six and Twelve Mile canyons, 260 ft. above sec. cor., bears N.80°E. and SW. |
| | Gradually ascend over rolling mountain top. |
| 7.50 | Leave timber, bears E. and W. Thence over open country. |
| 21.50 | Enter scattering scrub pine and fir timber, bears E. and W. |
| 26.50 | Top of ascent on divide, 50 ft. above brink of S. side of mountain, bears E. and W. |
| | Descend gradually. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

S 10 ¼ | S 11
1915

Subdivision of T.19 S., R.3 E.

chains

from which

A balsam, 16 ins. diam., bears S.69¾°E., 84 lks. dist., marked ¼ S 11 B T

A balsam, 12 ins. diam., bears S.70¼°W., 106 lks. dist., marked ¼ S 10 B T

52.60 N. brink of mountain, 123 ft. below top of ascent on divide, bears E. and W. Precipitous descent over N. slope of mountain, series of ledges and slides down which I cannot chain. Erect a flag at this point for triangulation.

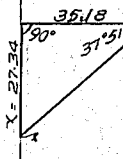
July 1,1915.

Howard W. Miller

U. S. Surveyor.

July 24: At 8h. a.m. apparent time, I set off 39°12' on the lat. arc; 20°02'N., on the decl. arc; and determine a meridian with the solar at a point on line bet secs. 10 and 11 at base of ledges, N.0°01'W. of the flag at 52.60 chs. and proceed to triangulate the distance as follows:

I direct the telescope to the flag on top of ledges and deflect an angle of 90°00' to the east and measure a base, 35.18 chs. to a point whence base subtends an angle of 37°51' to the flag, therefore tan. x base or .77708 x 35.18 chs. = 27.34 chs., which added to 52.60 chs. gives




79.94 To base of ledges.

Descend through exceptionally dense undergrowth of willows and scattering young pine timber.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 2,3,10 and 11, with brass cap marked

| T 19 S | R 3 E |
|---|---|
| S 3 | S 2 |
| S 10 | S 11 |

1915

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

| chains | |
|---|---|
| | Cor. stands in dense willow patch about 700 ft. below top of divide. |
| | Land, S. 6.50 chs. rough broken S. slope of mountain, drains S. into Twelve mile canyon; next 46.10 chs. rolling mountain top; N. 27.40 chs. rough N. slope of mountain, drains N. into Six Mile canyon. |
| | Soil, shallow brown clay and rock on sub-soil of moist sticky clay, packed hard and mixed with rock. |
| | Timber, scrub pine and fir. |
| | Undergrowth, chaparral, weeds and willows. |
| | Fair grazing on mountain top. |
| | July 24: At this cor., I set off 20°00'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°12'. |
| | --- |
| | S.89°49'E., on a random line bet. secs. 2 and 11 |
| 40.00 | Set temp. ¼ sec. cor. |
| 48.83 | High ledge and precipitous descent down which I cannot chain. I trianulate as follows: |
| | The cor. of secs. 1,2,11 and 12 is plainly visible and I offset N.29 lks. from this point so as to be S.89° 59'W. of said cor. A flag set on line bet. secs. 1 and 2, 77.53 chs. N.0°01'W. of the cor. of secs. 1,2,11 and 12 bears N.21° 51'E., therefore cotan. 68°08' x base or .40132 x 77.53 chs. = 31.11 chs. which added to 48.83 chs. gives |
| 79.94 | To the cor. of secs. 1,2,11 and 12. The falling of the random line bet. secs. 2 and 11 is 30 lks. S. |
| | Thence |
| | S.89°58'W., on true line bet. secs. 2 and 11 |
| | Over rough mountainous land draining N., through pine and fir timber and undergrowth of chaparral and weeds. |
| | Over high ledges bearing NW. and SE. |
| 31.11 | To point of triangulation and top of spur, projects N. |
| | Descend abruptly over W. slope. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 38.95 | Descend over series of limestone ledges, 10 to 50 ft. high, bears N. and S. |
| 39.97 | Point for cor. falls on ledges and slide rock where cor. cannot be set. No cor. set at this point. |
| 41.50 | Base of ledges, bears N. and S. |
| 41.85 | 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 witness cor. to the ¼ sec. cor., with brass cap marked<br>T 19 S R 3 E<br>S 2<br>¼ W C<br>S 11<br>1915<br>from which<br>A pine, 24 ins. diam., bears N.18°E., 31 lks. dist., marked W C ¼ S 2 B T<br>A fir, 12 ins. diam., bears S.12°W., 51 lks. dist., marked W C ¼ S 11 B T<br>Cor stands on steep W. slope 500 ft. below spur.<br>Continue descent. |
| 49.60 | Base of descent bears N. and S.<br>Thence over gentle N. and NW. slopes through aspen timber and dense undergrowth. |
| 62.45 | A series of small streams, 1 to 2 lks. wide and about 1 in. deep, good water, flow N., 235 ft. below ¼ sec. cor.<br>Thence along base of steep N. slope of mountain. Gradually ascend. |
| 76.35 | Leave timber, enter exceptionally dense undergrowth of willows and maple, bears N. and S. |
| 79.94 | The cor. of secs. 2,3,10 and 11, 130 ft. above streams.<br>Land, rough broken mountains, general N. exposure and drainage.<br>Soil, rocky clay loam on rocky sub-soil.<br>Timber, pine, fir and aspen.<br>Undergrowth, chaparral, willows, weeds and maple. |

Subdivision of T 19 S.,R.3 E.

| chains | |
|---|---|
| | Fair grazing. |
| | --- |
| | N.0°01'W., on a true line bet. secs. 2 and 3 |
| | Over mountainous land draining N., through dense undergrowth of willow, maple and chaparral. |
| | Gradually descend. |
| 4.80 | Leave willow and maple undergrowth, enter dense pine, fir and aspen timber, bears E. and W. |
| 30.75 | Leave dense pine and fir, enter dense aspen timber, bears E. and W. |
| 40.00 | 435 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S ¼ 3 \| S 2 |
| | 1915 |
| | from which |
| | An aspen, 8 ins. diam., bears N.9°E., 133 lks. dist., marked ¼ S 2 B T |
| | An aspen, 6 ins. diam., bears N.1½°W., 120 lks. dist., marked ¼ S 3 B T |
| | July 24,1915. |
| | July 27: Storm of rain in a.m. prevents field work. |
| | At 2H.p.m. apparent time, I set off 39°12' on the lat. arc; 19° 21'N., on the decl. arc; and determine a meridian with the solar at the ¼ sec. cor. |
| | Thence I run |
| | N.0°01'W. |
| 55.10 | Stream, 8 lks. wide, 4 ins. deep, good water, course W. |
| 56.30 | Stream, 1 lk. wide, 2 ins. deep, good water, course W. |
| 61.30 | Stream, 10 lks. wide, 8 ins. deep, good water, course NW. |
| 67.15 | Wood road, bears NW. and SE. Enter dense sage brush in small opening in timber, bears E. and W. |
| 107.83 | 290 ft. below ¼ sec. cor. |
| | Intersect N. bdy. of the Tp. 15.58 chs. W. of the cor. |

Subdivision of T.19 S.,R.3 E.

chains

$\frac{1}{4}$ sec. cor. bet. secs. 2 and 35 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. 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

T 18 S R 3 E

S 34 | S 35

C | C

S 3 S 2

T 19 S R 3 E

1915

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

No suitable trees within limits.

Note: I return to the $\frac{1}{4}$ sec. cor. bet. secs. 2 and 35 and the cor. of secs. 2,3,34 and 35 and destroy all marks on posts and bearing trees that refer to T.19 S.

Land, mountainous, general N. exposure and drainage.

Soil, rich black mountain loam and decayed vegetation mixed with gravel on sub-spil on heavy moist clay, packed hard and containing rocks.

Timber, aspen and pine and fir.

Undergrowth, chaparral, willows, sagebrush and grass.

Good grazing.

July 27,1915.

Isaac Hayes

U. S. Transitman.

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June 28: At 8h.a.m. apparent time, I set off 39°07' on the lat. arc; 23° 20'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3,4,33 and 34 on the S. bdy. of the Tp. heretofore described

Thence I run

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | N.0°02'W., bet. secs. 33 and 34 |
| | Over rough mountainous land draining S., through dense cedar, pinon and mahogany timber and undergrowth of oak, service, buck, maple and chaparral. |
| | Gradually descend. |
| .80 | Wash in ravine, 10 lks. wide, 4 ft. deep, course SW. |
| | Ascend abruptly over S. and SE. slope of ridge. |
| 2.50 | Leave dense oak and maple brush, bears E. and W. |
| 18.00 | Leave cedar and pinon timber, enter dense oak brush, bears E. and W. |
| 32.30 | Top of high ridge spur, 920 ft. above sec. cor., bears NE. and SW., also divide between N. and S. Forks of Twelve Mile canyon. |
| | Gradually descend over NW. slope through dense undergrowth. |
| 38.50 | Enter dense maple and jungle, bears E. and W. |
| 40.00 | 100 ft. below ridge, on NW. slope and in dense jungle. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec.cor., with brass cap marked |
| | S 33 ¼ \| S 34<br>1915 |
| | from which |
| | A maple, 3 ins. diam., bears N.38½°E., 54 lks. dist., marked ¼ S 34 B T |
| | An oak, 4 ins. diam., bears N.71½°W., 26½ lks. dist., marked ¼ S 33 B T |
| | June 28: At this cor., I set off 23°19'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 07' |
| 43.15 | Leave dense maple, enter exceptionally dense choke cherry undergrowth, bears E. and W. |
| 48.15 | Head of ravine, 55 ft. below ¼ sec. cor., drains NW. |
| | Gradually ascend. |
| 55.30 | Point, 10 ft. above ravine, falls W. Leave dense choke cherry undergrowth, bears E. and W. |

Subdivision of T.19 S., R.3 E.

chains

Descend abruptly over NW. slope.

56.60 Enter maple undergrowth and dense young aspen timber, bears NE. and SW.

63.25 Leave maple undergrowth and aspen timber, enter dense choke cherry undergrowth, bears NE. and SW.

Descend more gradually over nearly W. slope.

66.25 Leave choke cherry undergrowth, enter aspen timber, bears E. and W.

80.00 175 ft. below point.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 27,28,33 and 34, with brass cap marked

| | |
|---|---|
| T 19 S<br>S 28 | R 3 E<br>S 27 |
| S 33 | S 34 |

1915

from which

An aspen, 9 ins. diam., bears N.57¾°E., 51 lks. dist., marked T 19 S R 3 E S 27 B T

An aspen, 10 ins. diam., bears S.42¾°E., 41 lks. dist., marked T 19 S R 3 E S 34 B T

An aspen, 8 ins. diam., bears S.48¾°W., 21 lks. dist., marked T 19 S R 3 E S 33 B T

An aspen, 10 ins. diam., bears N.66¼°W., 22 lks. dist., marked T 19 S R 3 E S 28 B T

Land, rough mountainous slopes and drains NW. and S. from divide at 32.30 chs.

Soil, gravelly and shallow mountain loam mixed with rock on sub-soil of moist clay, packed hard and mixed with rock.

Timber, aspem, cedar, pinon and mahogany.

Undergrowth, oak, service, choke cherry, maple, buck, sage brush, weeds and grass.

Fair grazing.

---

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

40.00 Set temp. ¼ sec. cor.

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | June 28,1915. |
| | June 29: At 7h. a.m. apparent time, I set off 39°08' on the lat. arc; 23°18'N., on the decl. arc; and determine a meridian with the solar at the temp. ¼ sec. cor. |
| | Thence I continue |
| | East, on random line. |
| 80.03 | Intersect N. and S. line 23 lks. N. of the cor. of secs. 26,27,34 and 35 |
| | Thence |
| | N.89°50'W., on true line bet. secs. 27 and 34 |
| | Over mountainous land draining S., gradually ascend over E. slope through dense undergrowth of choke cherry chaparral, weeds and grass. |
| 5.30 | Top of spur, 90 ft. above sec. cor., projects S. |
| | Enter scattering oak brush and aspen timber, bears N. and S. Gradually descend along S. slope. |
| 14.45 | Swale, 115 ft. below spur, drains S. |
| | Gradually ascend. |
| 21.05 | Top of ridge and divide between N. and S. Forks of Twelve mile canyon, 30 ft. above swale, bears NE. and SW. |
| | Descend abruptly over N. slope. |
| 23.85 | Leave oak, enter dense aspen timber, bears N. and S. |
| 40.01½ | On N. slope, 160 ft. below divide. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 27<br>¼<br>———<br>S 34<br>1915 |
| | from which |
| | An aspen, 6 ins. diam., bears N.77°E., 33 lks. dist., marked ¼ S 27 B T |
| | An aspen, 8 ins. diam., bears S.5°E., 26 lks. dist., marked ¼ S 34 B T |
| 58.30 | Enter opening, bears N. and S. |
| 64.60 | Leave opening, bears N. and S. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 80.03 | The cor. of secs. 27,28,33 and 34, 606 ft. below the ¼ sec. cor. |
| | Land, rough mountainous, slopes and drains S. and N. from divide at 21.05 chs. |
| | Soil, rich mountain loam mixed with gravel on hard, moist clay and rock sub-soil. |
| | Timber, aspen with some pine and fir on both sides of line. |
| | Undergrowth, choke cherry, oak, service buck brush, chaparral, weeds and grass. Fair grazing. |
| | --- |
| | N.0°02'W., bet. secs. 27 and 28 |
| | Over mountainous land draining NW., through aspen timber and undergrowth of chaparral, service brush, weeds and grass. |
| | Gradually descend.over NW. slope of small bench. |
| 6.90 | Leave bench, bears E. and W. |
| 10.95 | Enter dense choke cherry and scattering willow undergrowth bears E. and W. |
| 12.00 | Leave choke cherry undergrowth, enter pine and maple timber, bears E. and W. |
| 13.40 | Descend abruptly over NW. slope through dense timber. |
| 14.60 | Leave pine timber, bears E. and W. |
| 18.95 | Stream, 1 lk. wide, 2 ins. deep, good water, course W. |
| | Thence over nearly W. slope. |
| 23.60 | Enter dense oak and willow undergrowth, bears E. and W. |
| 28.60 | Leave willow undergrowth, bears E. and W. |
| 35.00 | Stream, 1 lk. wide, 1 in. deep, good water, course W. |
| | Enter pine and cedar timber, bears E. and W. |
| 37.00 | Leave pine and cedar, bears E. and W. |
| 39.70 | Point for ¼ sec. cor. will fall in center of canyon road, therefore perpetuate cor. at this point 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 |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | T 19 S R 3 E<br>W C ¼<br>S 28 \| S 27<br>1915 |
| | from which |
| | An aspen, 6 ins. diam., bears S.59°E., 16 lks. dist., marked W C ¼ S 27 B T |
| | An aspen, 7 ins. diam., bears S.54°W., 25 lks. dist., marked W C ¼ S 28 B T |
| | Cor established 460 ft. below sec. cor. |
| | June 29: At this cor., I set off 23°16'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°09'. |
| 39.92 | Telephone line from Mayfield to Emery, Utah, bears NE. and SW. |
| 40.00 | Center of road from Mayfield to Ferron and Emery, Utah, bears NE. and SW. Point for ½ sec. cor. in road. |
| 43.10 | Bottom of canyon and N. Fork of Twelve Mile creek, 30 lks. wide, 1 ft. deep, swift current, good water, 20 ft. below ½ sec. cor., course W. |
| | Leave aspen timber, enter dense undergrowth of oak, service and buck brush. Ascend abruptly. |
| 51.85 | Top of steep ascent, 220 ft. above canyon, bears NE. and W. Gradually ascend over rolling SE. slope. |
| 69.80 | Enter scattering aspen timber, bears E. and W. |
| 75.25 | Leave oak, service and buck brush, enter dense aspen timber and undergrowth of choke cherry brush, bears E. and W. |
| 78.85 | Stream, 6 lks. wide, 3 ins. deep, good water, course SE. Ascend abruptly. |
| 80.00 | 205 ft. above top of steep ascent. |
| | 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 |

Subdivision of T.19 S.,R.3 E.

chains

| T 19 S | R 3 E |
|---|---|
| S 21 | S 22 |
| S 28 | S 27 |

1915

from which

An aspen, 8 ins. diam., bears N.41½°E., 22 lks. dist., marked T 19 S R 3 E S 22 B T

An aspen, 6 ins. diam., bears S.64½°E., 17 lks. dist., marked T 19 S R 3 E S 27 B T

An aspen, 3 ins. diam., bears S.69¼°W., 65 lks. dist., marked T 19 S R 3 E S 28 B T

An aspen, 8 ins. diam., bears N.60°W., 22 lks. dist., marked T 19 S R 3 E S 21 B T

Land, mountainous, slopes and drains NW. and S. into N. Fork of Twelve Mile canyon.

Soil, rich, black mountain loam mixed with gravel and rock on sub-soil of moist clay and rock.

Timber, aspen, cedar and maple.

Undergrowth, choke cherry, oak, service, buck, maple, willow, chaparral, weeds and grass.

Good grazing.

June 29,1915.

---

June 30: At 8h. a.m. apparent time, I set off 39° 09' on the lat. arc; 23° 14'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 21, 22,27 and 28.

Thence I run

S.89°50'E., on a random line bet. secs. 22 and 27

40.00 Set temp. ¼ sec. cor.

79.96 Intersect N. and S. line, 21 lks. S. of the cor. of secs. 22,23,26 and 27.

Thence

N.89°59'W., on true line bet. secs. 22 and 27

Over mountainous land draining N., through dense aspen timber and undergrowth of choke cherry, chaparral,

Subdivision of T.19 S., R.3 E.

| chains | |
|---|---|
| | weeds and grass. |
| | Gradually descend over N. and NW. slope. |
| 6.05 | Stream, 1 lk. wide, 1 in. deep, good water, course NW. |
| 7.35 | Road, Mayfield to Ferron and Emery, Utah, bears NW. and SE. |
| 11.00 | Creek, 7 lks. wide, 4 ins. deep, good water, course N. |
| 32.85 | Road, Mayfield to Ferron and Emery, Utah, bears N.70°E. and S.70°W. |
| 34.65 | Same road, bears NW. and SE. |
| 36.15 | Same road, bears NE. and SW. |
| 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>S 22<br>¼<br>S 27<br>1915<br>from which<br>An oak, 5 ins. diam., bears N.20°E., 17 lks. dist., marked ¼ S 22 B T<br>An oak, 4 ins. diam., bears S.13°E., 11 lks. dist., marked ¼ S 27 B T |
| 43.20 | Old road, bears NE. and SW. |
| | Begin steep descent into canyon. |
| 49.15 | U. S. Forest Service telephone line from Mayfield to Emery, Utah, bears NE. and SW. Leave aspen timber, bears NE. and SW. |
| 50.30 | Bottom of canyon and N. Fork of Twelve Mile Creek, 30 lks. wide, 1 ft. deep, good water, swift current, 360 ft. below sec. cor., course SW. |
| | Ascend abruptly over SE. slope through dense undergrowth. |
| 66.80 | Spur, 260 ft. above creek, projects S. Enter aspen timber bears N. and S. Descend. |
| 76.15 | Stream, 2 lks. wide, 2 ins. deep, good water, course S. |
| | Gradually ascend. |
| 79.96 | The cor. of secs. 21, 22, 27 and 28. |
| | Land, rough mountainous, NW. and SE. exposures and drainage into canyon. |

Subdivision of T.19 S., R.3 E.

| chains | |
|---|---|
| | Soil, rich black mountain loam and decayed vegetation mixed with gravel and rock on sub-soil of moist clay, packed hard and streaked with rock. |
| | Timber, aspen. |
| | Undergrowth, choke cherry, oak, service, buck, chaparral weeds and grass. Good grazing. |
| | June 30: At this cor., I set off 23° 13'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°09'. |
| | --- |
| | N.0°02'W., bet. secs. 21 and 22. |
| | Over broken mountainous land draining SE. and subject to land slides, through aspen timber and dense undergrowth of service, choke cherry, rose brush, chaparral, weeds and grass. |
| | Ascend over S. slope. |
| 20.90 | Stream, 3 lks. wide, 3 ins. deep, good water, course SW. |
| 22.10 | Same stream, course SE. |
| 26.75 | Enter dense oak and willow undergrowth, bears E. and W. |
| 36.60 | Leave willows, bears E. and W. |
| 40.00 | 545 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

S 21 ¼ | S 22

1915

from which

An aspen, 7 ins. diam., bears N.56°E., 63 lks. dist., marked ¼ S 22 B T

A jack pine, 15 ins. diam., bears N.53¾°W., 140 lks. dist., marked ¼ S 21 B T

June 30,1915.

July 2: At 7h. a.m. apparent time, I set off 39°09' on the lat. arc; 23°07'N., on the decl. arc; and determine a meridian with the solar at the ¼ sec cor.,

Thence I run

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | N.0°02'W. |
| | Continue ascent. |
| 58.35 | Enter scattering pine and spruce timber, bears E. and W. |
| 73.50 | Edge of bench and leave timber, 415 ft. above ¼ sec. cor. bears NE. and SW. Thence over nearly level bench. |
| 79.78 | Old road, bears NE. and SW. |
| 80.00 | In edge of aspen timber, bears NE. and SW. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 15,16,21 and 22, with brass cap marked |

| T 19 S | R 3 E |
|---|---|
| S 16 | S 15 |
| S 21 | S 22 |

1915

from which

An aspen, 8 ins. diam., bears N.42°EE., 46 lks. dist., marked T 19 S R 3 E S 15 B T

An aspen, 8 ins. diam., bears S.63½°E., 139 lks. dist., marked T 19 S R 3 E S 22 B T

An aspen, 7 ins. diam., bears S.70°W., 84 lks. dist., marked T 19 S R 3 E S 21 B T

An aspen, 6 ins. diam., bears N.56°W., 26 lks. dist., marked T 19 S R 3 E S 16 B T

Land, mountainous, general S. exposure and drainage.

Soil, rich, black mountain loam, mixed with gravel and rock on moist brown clay and rock sub-soil.

Timber, aspen with a few scattering pines.

Undergrowth, oak, choke cherry, service, willow, buck, chaparral, weeds and grass.

Good grazing land.

July 2: At this cor., I set off 23°06'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 10'.

---

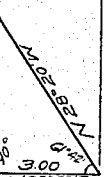
S.89°59'E., on a random line bet. secs. 15 and 22

40.00 Set temp. ¼ sec. cor.

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 77.08 | West edge of lake bears N.50 lks. and S. 2.00 chs. To pass same, I offset as follows: |
| | North, 75 lks. Thence S.89°59'E., on offset line 2.88 chs. to |
| 79.96 | Intersect N. and S. line, 5 lks. S. of the witness cor. to secs. 14,15,22 and 23 which is 75 lks. N.0°01'W. of true cor. point for said cor. |
| | Thence from witness cor., |
| | S.89°59'W., on offset and true line bet. secs. 14 and 23. |
| | Over mountainous land draining S., along N. edge of lake through aspen and scattering pine timber and undergrowth of willow, chaparral, weeds and grass. |
| 2.88 | Ofset S.75 lks. to true line. |
| | Thence |
| | S.89°59'W. on true line |
| | Ascend over S. and SE. slopes of bench. |
| 6.60 | Leave willow undergrowth, bears N. and S. |
| 18.40 | Leave scattering pine timber, bears N. and S. |
| 23.50 | Enter dense choke cherry undergrowth, bears N. and S. |
| 33.40 | Leave dense choke cherry undergrowth, bears N. and S |
| 39.98 | On SE. slope of bench, 300 ft. above witness cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 15 ¼ / S 22 1915 |
| | from which |
| | An aspen, 8 ins. diam., bears S.27°E., 17½ lks. dist., marked ¼ S 22 B T |
| | An aspen, 6 ins. diam., bears N.56°W., 91 lks. dist., marked ¼ S 15 B T |
| 44.30 | Top of ascent and S. edge of bench, 20 ft. above ¼ sec. cor., bears N. and S. Leave timber. |
| | Descend over SW. slope |
| 47.00 | Enter aspen timber, bears N. and S. |

| chains | |
|---|---|
| 62.10 | Enter bench, bears NE. and SW. |
| 79.50 | Old road, bears NE. and SW. |
| 79.96 | The cor. of secs. 15,16, 21 and 22, 85 ft. below top of ascent on bench. |
| | Land, rough and rolling mountainous, general S. exposure and drainage. |
| | Soil, rich black mountain loam mixed with gravel on subsoil of moist clay, packed hard. |
| | Timber, aspen and a few scattering pine. |
| | Undergrowth, willow, choke cherry, chaparral, weeds and grass. |
| | Good grazing land. |
| | July 2,1915 |
| | --- |
| | July 3: At 8h. a.m. apparent time, I set off 39°10' on the lat. arc; 23°02'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 15,16,21 and 22 |
| | Thence I run |
| | N.0°02'W., bet. secs. 15 and 16 |
| | Gradually descend over rolling mountainous bench land through aspen timber and undergrowth of chaparral, weeds and grass. |
| 6.62 | S. edge of a lake, bears E. about 5 and W. 2 chs. Water clear and from 2 to 10 ft. deep. To determine distance across lake, I set a flag on N. bank and measure a base line N.89°58'E., 3 chs. to a point where flag bears N. 28° 20'W. From the flag the E. end of the base bears S.28°20'E., therefore tan. 61° 42' X base or 1.85720 x 3 chs. = 5.57 chs. which added to 6.62 chs. gives |
| 12.19 | To N. bank of lake bears E. and W. about 4 chs. |
| | Lake is fed by streams 2 to 4 chs. W. of this point and its outlet is in the SW. side of lake. |
| | Enter dense willow and service brush. Ascend abruptly over S. slope. |



Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 21.75 | Leave willow undergrowth, bears E. and W. |
| 29.02 | Top of steep ascent and enter dense choke cherry undergrowth, bears E. and W. |
| | Ascend more gradually. |
| 32.10 | Leave timber and base of high mountain, bears E. and W. |
| | Ascend abruptly |
| 40.00 | On steep S. slope, 550 ft. above lake. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 16 ¼ \| S 15<br>1915 |
| | from which |
| | An aspen, 6 ins. diam., bears S.37¾°E.,226 lks. dist., marked ¼ S 15 B T |
| | An aspen, 5 ins. diam., bears S.77¾°W., 117 lks dist., marked ¼ S 16 B T |
| | Scattering patches of aspen timber are on both sides of line. Ascend abruptly through dense deer and buck brush. |
| 42.00 | Enter sagebrush, leave all other undergrowth, bears E. and W. |
| 46.65 | Enter patch of jack pine timber, bears E. and W. |
| 48.00 | Top of steep ascent and leave timber, bears NE. and SW. |
| | Gradually ascend over W. slope of top of mountain and divide between Six and Twelve Mile canyons. |
| 63.80 | Top of ridge and divide between Six and Twelve Mile canyons, 410 ft. above ¼ sec. cor., bears E. and W. |
| | Gradually descend over rocky NW. slope. |
| 70.30 | Enter dense aspen, pine and fir timber, bears E. and W. |
| 80.00 | On NW. slope in dense timber 55 ft. below top of divide. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 9,10,15 and 16, with brass cap marked |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | T 19 S \| R 3 E<br>S 9 \| S 10<br>S 16 \| S 15<br>1915 |
| | from which |
| | A spruce, 12 ins. diam., bears N.50¼°E., 28 lks. dist., marked T 19 S R 3 E S 10 B T |
| | A spruce, 10 ins. diam., bears S.35½°E., 51 lks. dist., marked T 19 S R 3 E S 15 B T |
| | A spruce, 12 ins. diam., bears S.34¾°W., 36 lks. dist., marked T 19 S R 3 E S 16 B T |
| | A spruce, 6 ins. diam., bears N.58½°W.,32½ lks. dist., marked T 19 S R 3 E S 9 B T |
| | Land, rough mountainous, general S. exposure and drainage on S. 63.80 chs., NW. exposure and draiange on N. 16.20 chs. N. 16.20 chs. eventually drains S. into Twelve Mile canyon. |
| | Soil, Rich black mountain loam and gravel on hard clay sub-soil on S.63.80 chs. Rocky of limestone formation on rocky sub-soil on N. 16.20 chs. |
| | Timber, aspen, pine and fir. |
| | Undergrowth, choke cherry, willows, service, buck, sage-brush, chaparral, weeds and grass. Good grazing. |
| | July 3: At this cor., I set off 23°01'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 11'. |
| | --- |
| | N.89°59'E., on a random line bet. secs. 10 and 15. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.86 | Intersect N. and S. line, 5 lks. N. of the cor. of secs. 10,11,14 and 15 |
| | Thence |
| | N.89°59'W., on a true line bet. secs. 10 and 15. |
| | Ascend over rough, broken SE. slope of divide between Six and Twelve Mile canyons, through scrub aspen, pine and fir timber and scattering undergrowth of chaparral and weeds. |

Subdivision of T.19 S.,R.3 E.

| CHAINS | |
|---|---|
| 10.40 | Edge of divide between Six and Twelve Mile canyons and leave timber, 180 ft. above sec. cor., bears NE. and SW. |
| | Gradually ascend on top of divide. |
| 13.90 | Top of ascent on divide and enter pine and fir timber, bears NE. and SW. |
| | Gradually descend over rolling NW. slope. |
| 39.93 | On NW. slope on S. side of head of ravine, 135 ft. below top of divide. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 10 / ¼ / S 15 / 1915 |
| | from which |
| | A spruce, 24 ins. diam., bears S.10°E., 24 lks. dist., marked ¼ S 15 B T |
| | A spruce, 12 ins. diam., bears N.33°E., 38 lks. dist., marked ¼ S 10 B T |
| | Descend abruptly |
| 61.15 | Small swale, drains NW. |
| | Gradually ascend. |
| 62.85 | Top of ascent, 10 ft. above swale, bears N. and S. |
| | Descend abruptly over NW. slope on top of mountain. |
| 68.85 | Enter aspen timber, bears N. and S. |
| 79.86 | The cor. of secs. 9,10,15 and 16, 580 ft. below ¼ sec. cor. |
| | Land, rough mountainous and with exception of E.10.40 chs. lies on top of mountain dividing Six and Twelve Mile canyons. Drainage, S. into Twelve Mile canyon. |
| | Soil, shallow black loam and rocky on gravelly, rocky and moist clay sub-soil. |
| | Timber, pine, fir and aspen. |
| | Undergrowth, chaparral, weeds and grass. |
| | Fair grazing land. |
| | July 3,1915. |

| chains | |
|---|---|
| | July 12: At 8h. a.m. apparent time, I set off 39° 11' on the lat. arc; 22°05'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9 10,15 and 16. |
| | Thence I run |
| | N.0°02'W., bet. secs. 9 and 10. |
| | Over mountainous land on top of divide draining W., through dense aspen, pine and fir timber and undergrowth of chaparral, weeds and grass. |
| | Descend over NW. slope. |
| 10.35 | Leave timber, bears E. and W. |
| 13.80 | Base of descent, 100 ft. below sec. cor., bears E. and W. |
| | Gradually ascend over open SW. slope. |
| 14.25 | Small stream, 1 lk. wide, 1 in. deep, good water, course W. |
| 35.40 | Enter aspen timber, bears E. and W. |
| 37.80 | Top of ascent and leave timber, 80 ft. above stream, bears E. and W. |
| | Thence along nearly W. 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 |
| | S ¼ 9 \| S 10<br>1915 |
| | from which |
| | An aspen, 12 ins. diam., bears S.7⅝°E., 197 lks. dist., marked ¼ S 10 B T |
| | An aspen, 11 ins. diam., bears S.59½°W., 140 lks. dist., marked ¼ S 9 B T |
| 54.40 | Enter aspen timber, bears E. and W. |
| 63.55 | Leave timber, bears E. and W. |
| 65.90 | Draw, 100 ft. below ¼ sec. cor., drains SW. |
| | Gradually ascend. |
| 75.45 | Low spur, 15 ft. above draw, projects W. |
| | Descend 25 ft. to |
| 80.00 | On N. slope |

chains

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

| T 19 S | R 3 E |
|---|---|
| S 4 | S 3 |
| S 9 | S 10 |

1915

from which

A lone aspen, 10 ins. diam., bears N.53°20'E., 341 lks. dist., marked T 19 S R 3 E S 3 B T

No other trees in secs. 4,9 or 10

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

Land, mountainous on top of high mountain, slopes and drains W.

Soil, shallow mountain loam streaked with rock on hard moist clay and rock sub-soil.

Timber, scattering patches of aspen, some pine and fir.

Undergrowth, chaparral, weeds and grass.

Fair grazing.

July 12: At this cor., I set off 22°04'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 12'

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S.89° 59'E., on a random line bet. secs. 3 and 10

40.00 Set temp. ¼ sec. cor.

56.37 To brink of mountain, bears NW. and SE. The line E. passes over a series of perpendicular limestone ledges, down which I cannot chain. Set flag at this point for triangulation.

July 12,1915.

Howard W. Miller

U. S. Surveyor.

July 24: From a point 12.1lks. N. of the cor. of secs. 2,3,10 and 11, the flag on top of ledges to the west bears N.89°59'W. I deflect an angle of 90°00' to the

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | north from the flag and measure a base line N.0°01'E. 38.86 chs. to a point from which the flag bears S. 31° 04'W., therefore tan. 31°03' x base or .60205 x 38.86 chs = 23.40 chs. which added to 56.37 chs. gives |
| 79.77 | Intersect N. and S. line 12 lks. N. of the cor. of secs. 2,3,10 and 11. |
| | Thence |
| | N.89°54'W., on a true line bet. secs. 3 and 10 |
| | Over rough mountainous land draining N. into Six Mile canyon, over precipitous NE. slope of mountain, limestone ledges and slides. |
| 23.40 | Top of ledges and point of triangulation on brink of mountain top dividing Six and Twelve Mile canyons, about 600 ft. above sec. cor., bears NW. and SE. |
| | Thence over broken N. slope, through dense pine and fir timber and undergrowth of chaparral, weeds and grass. |
| 25.75 | Spur, projects N. |
| | Descend abrupt rocky slope. |
| 29.80 | Stream, 1 lk. wide, 1 in. deep, good water, course NW. |
| 34.60 | Stream, 2 lks. wide, 3 ins. deep, good water, 150 ft. below spur, course N. |
| | Gradually ascend. |
| 36.80 | Low spur, projects N. Gradually descend. |
| 39.88½ | In small swale draining 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 |

S 3
¼
———
S 10
1915

from which

A pine, 18 ins. diam., bears S.66°E., 78 lks. dist., marked ¼ S 10 B T

A pine, 20 ins. diam., bears N.71°W., 94 lks. dist., marked ¼ S 3 B T

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Gradually ascend. |
| 42.25 | Spur, 35 ft. above ¼ sec. cor., projects N. |
| | Gradually descend 10 ft. to |
| 44.65 | Base of descent, bears N. and S. |
| | Ascend abruptly |
| 47.40 | Spur, 40 ft. above base of descent, projects N. |
| | Descend abruptly over NW. slope. |
| 48.95 | Base of descent, 30 ft. below spur, bears N. and S. |
| | Ascend 40 ft. to |
| 50 05 | Top of ascent, bears NW. and SE. |
| | Gradually descend over rolling bench. |
| 63.50 | Leave pine and fir timber, bears N. and S. |
| 68.80 | Leave aspen timber, bears N. and S. |
| 75.00 | Descend into draw, bears NE. and SW. |
| 79.77 | The cor. of secs. 3,4,9 and 10, 110 ft. below top of ascent. |

Land, rolling and rough mountainous land, general N. exposure and drainage on E. 50.05 chs., W. exposure and drainage on W. 29.72 chs.

Soil, gravelly, rocky and shallow mountain loam on gravelly and moist, sticky clay sub-soil.

Timber, pine, fir and aspen.

Undergrowth, chaparral, weeds and grass. Fair grazing land.

July 24,1915.

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July 26: At 9h. a.m. apparent time, I set off 39°12' on the lat. arc; 19°36'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3,4,9 and 10

Thence I run

N.0°02'W., on a true line bet. secs. 3 and 4

Over rolling mountain top draining SW., through dense undergrowth of sage brush.

Gradually descend.

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| .95 | Draw, 5 ft. below sec. cor., drains SW. |
| | Ascend. |
| 10.65 | Ridge, 70 ft. above draw; bears E. and W. |
| | Descend over N. slope towards Six Mile canyon. |
| 17.00 | Descend abruptly. |
| 23.85 | Base of steep descent 350 ft. below ridge, bears E. and W |
| | Descend more gradually. |
| 26.90 | Enter dense aspen, pine and fir timber, bears E. and W. |
| 40.00 | On N. slope of small bench, 175 ft. below base of steep descent. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S ¼ 4 \| S 3<br>1915 |
| | from which |
| | An aspen, 4 ins. diam., bears N.72°E., 5 lks. dist., marked ¼ S 3 B T |
| | An aspen, 4 ins. diam., bears N.86°W., 6 lks. dist., marked ¼ S 4 B T |
| 60.70 | Head of spring, 5 lks. wide, 3 to 4 ins. deep, good water, course N. about 50 lks., thence NW. |
| | July 26: Walking on line at noon, obsn. for lat. not taken. |
| 68.36 | Ravine and stream, 5 lks. wide, 1 to 3 ins. deep, good water, course NW. |
| 72.50 | Top of series of lime and red sandstone ledge, approximately 100 ft. high, down which I cannot chain. To determine the distance, I triangulate as follows: |
| | Set a point on line N.0°02'W. and being unable to obtain a base at this point erect a flag, then from point on line N., I direct the telescope to flag on top of ledges and deflect an angle of 31° 00' to the east and measure a base line S.31° 02'E., 5 chs. ( Owing to the peculiar lay of the land in this vicinity, I am unable to obtain a longer base on account of timber or |

chains

secure another shaped triangle.) From end of base, flag on top of ledges bears S. 14° 10'W. From the flag the E. end of the base bears N.14°10'E. By separate measurement of each angle they are found to be respectively, 14° 12' , 134° 48' and 31°00'.

| | | |
|---|---|---|
| Log 5.00 chs. | = | 0.698970 |
| Log sin 134° 48' | = | 9.850996 |
| Cologsin 14°12' | = | 0.610289 |
| Log 14.46 chs. | = | 1.160255 |

72.50 chs. added to 14.46 chs. gives

86.96 To point of triangulation

Continue descent through dense timber and exceptionally dense undergrowth

107.78 Intersect N. bdy. of the Tp. 15.38 chs. West of the ¼ sec. cor., bet. secs. 3 and 34 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.

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

T 18 S R 3 E

S 33 | S 34

C | C

S 4 | S 3

T 19 S R 3 E

1915

from which

An aspen, 12 ins. diam., bears S.59°E., 41 lks. dist., marked T 19 S R 3 E S 3 B T

An aspen, 5 ins. diam., bears S.44½°W., 21 lks. dist., marked T 19 S R 3 E S 4 B T.

I return to the ¼ sec. cor. bet. secs. 3 and 34 and the cor. of secs. 3,4,33 and 34 and deface cors. and bearing trees of all marks pertaining to secs. 3 and 4, T.19 S.

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Cor. established 920 ft. below ½ sec. cor. |
| | Land, mountainous, general N. exposure and drainage. |
| | Soil, black mountain loam mixed with rock on gravelly and rocky sub-soil. |
| | Timber, aspen, pine and fir. |
| | Undergrowth, choke cherry, service, chaparral weeds and grass. Good grazingland. |
| | July 26,1915. |
| | --- |
| | June 28: At 8h. a.m. apparent time, I set off 39°07' on the lat. arc; 23°20'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5,32 and 33 on the S. bdy. of the Tp. heretofore described |
| | Thence I run |
| | N.0°03'W., bet. secs. 32 and 33 |
| | Over rough mountainous land draining N., through dense sage and scattering oak brush and scattering cedar and pinon timber. |
| | Descend over N. and NE. slopes into S. Fork of Twelve Mile canyon. |
| 11.10 | Bottom of S. Fork of Twelve Mile canyon and creek, 30 lks. wide, 1 ft. deep, good water, 305 ft. below sec. cor., course W. Dense cottonwood timber and willow undergrowth along creek. |
| | Ascend. |
| 18.00 | Old road, bears E. and W. |
| 24.70 | Spur, divides N. and S. Forks of Twelve Mile creeks, 205 ft. above S. fork of canyon, projects W. |
| | Gradually descend along NW. 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 |
| | S 32 ¼ \| S 33 |
| | 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 45.80 | Road, Mayfield to Ferron and Emery, Utah, bears E. and W. |
| 56.20 | U. S. Forest Service telephone line from Mayfield to Emery, Utah, bears E. and W. |
| 57.60 | Bottom of N. Fork of Twelve Mile canyon and creek, 20 lks. wide, 1 to 2 ft. deep, good water, 65 ft. below ¼ sec. cor., course W. |
| | Ascend abruptly over S. slope of canyon through dense scrub timber and undergrowth. |
| 78.50 | Top of steep ascent, 525 ft. above creek, bears E. and W. Leave dense cedar and pinon, enter oak, sagebrush and rabbit brush. |
| | Gradually 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 |

| T 19 S | R 3 E |
|---|---|
| S 29 | S 28 |
| S 32 | S 33 |

1915

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

Land, rough mountainous with steep N. and S. slopes of ridges and spurs into N. and S. Forks of Twelve Mile canyons which drain W.

Soil, shallow sandy loam and rocky on sub-soil of moist sticky clay loam mixed with gravel and rock and packed hard.

Timber, scrub cedar and pinon. Cottonwood in canyons.

Undergrowth, oak, service, sage, chaparral and grass.

Fair grazing land.

June 28: At this cor., I set off 23°19'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°08'.

---

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

| | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |

| chains | |
|---|---|
| | June 28,1915. |
| | June 29: At the temp. ¼ sec. cor., at 8h. a.m. apparent time, I set off 39°08' on the Lat. arc; 23°17'N., on the decl. arc; and determine a meridian with the solar |
| | Thence I continue |
| | East on random line. |
| 80.00 | Intersect N. and S. line, 30 lks. N. of the cor. of secs. 27,28,33 and 34. |
| | Thence |
| | N.89°47'W., on a true line bet. secs. 28 and 33 |
| | Over rough mountainous land through dense aspen timber and dense undergrowth of choke cherry, service oak, buck, chaparral, weeds and grass. |
| | Descend over W. and NW. slopes into N. Fork of Twelve Mile canyon. |
| 8.00 | Leave aspen timber, bears N. and S. |
| | Thence through very dense undergrowth. |
| 40.00 | 625 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 28 / ¼ / S 33 / 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Continue descent. |
| 43.05 | Road, Mayfield to Ferron and Emery, Utah, bears N.30°E. and S.30°W. |
| 44.00 | U. S. Forest Service Telephone line from Mayfield to Emery, Utah, bears N.30°E. and S.30°W. |
| 46.50 | Bottom of N. Fork of Twelve Mile canyon and creek, 20 lks. wide, 1 to 2 ft. deep, good water, 150 ft. below ¼ sec. cor., course SW. |
| | Ascend abruptly from canyon through dense undergrowth and scrub cedar, pinon and mahogany timber. |

Subdivision of T.19 S., R.3 E.

| chains | |
|---|---|
| 62.75 | Thence over more gradual S. slope. |
| 65.95 | Leave timber, bears N. and S. |
| 80.00 | The cor. of secs. 28,29,32 and 33, 300 ft. above creek. |
| | Land, rough mountainous, slopes and drains NW. and SE. into canyon draining SW. |
| | Soil, dark brown mountain loam mixed with gravel and rock on sub-soil of moist clay loam and rock. |
| | Timber, aspen and scrub cedar and pinon. |
| | Undergrowth, oak, service, choke cherry, buck, sagebrush, chaparral, weeds and grass. Fair grazing land. |
| | June 29: At this cor., I set off 23°16'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 08'. |
| | ---------- |
| | N.0°03'W., bet. secs. 28 and 29 |
| | Over mountainous land draining S., gradually ascending through dense undergrowth of oak, choke cherry, service, sagebrush, weeds and grass. A few scattering cedars. |
| 28.70 | Old road, bears N.20°E. and S.20°W. |
| 40.00 | 510 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 29 ¼ \| S 28 |
| | 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 77.20 | Leave dense oak brush, enter pine and fir timber, bears E. and W. |
| 79.40 | Top of saddle in ridge, 200 ft. above ¼ sec. cor., bears E. and W. |
| | Descend. |
| 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 |

Subdivision of T.19 S.,R.3 E.

chains

| T 19 S | R 3 E |
|---|---|
| S 20 | S 21 |
| S 29 | S 28 |

1915

from which

A fir, 26 ins. diam., bears N.54°E., 40 lks. dist., marked T 19 S R 3 E S 21 B T

A fir, 5 ins. diam., bears S.27½°E., 39 lks. dist., marked T 19 S R 3 E S 28 B T

A fir, 6 ins. diam., bears S,14°W., 16 lks. dist., marked T 19 S R 3 E S 29 B T

A fir, 8 ins. diam., bears N.71°W., 51 lks. dist., marked T 19 S R 3 E S 20 B T

Land, mountainous, general S. exposure and drainage.

Soil, shallow black loam and decayed vegetation mixed with rock on sub-soil of moist clay, packed hard and rocky.

Timber, pine and fir. Some scattering scrub cedar on both sides of line.

Undergrowth, dense oak, service, buck , sagebrush, chaparral and grass. Good grazing land.

June 29,1915.

---

June 30: At 7h. a.m. apparent time, I set off 39°09' on the lat. arc; 23°14'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 20,21, 28 and 29..

Thence I run

S.89°47'E., on a random line bet. secs. 21 and 28

40.00 Set temp. ¼ sec. cor.

80.08 Intersect N. and S. line 30 lks. S. of the cor. of secs. 21,22,27 and 28

Thence

West, on a true line bet. secs. 21 and 28

Over rough mountainous land draining SE., through dense aspen timber and undergrowth of choke cherry, service,

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | deer brush, chaparral, weeds and grass. |
| .53 | Stream, 7 lks. wide, 6 ins. deep, good water, course SE. |
| | Ascend abruptly over E. slope. |
| 13.85 | Enter dense oak brush, bears N. and S. |
| 31.90 | Ridge, 410 ft. above stream, bears N. and S. |
| | Descend abruptly |
| 36.60 | Ravine, 135 ft. below ridge, course SW. |
| | Gradually ascend along N. slope. |
| 40.04 | Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground on solid rock and 10 ins. in a mound of stone, for ¼ sec. cor., with brass cap marked |
| | S 21 / ¼ / S 28 / 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No suitable trees within limits. |
| 43.95 | Leave dense oak brush, enter dense aspen timber, bears N. and S. |
| 50.85 | Old road, bears NE. and SW., 50 ft. below ¼ sec. cor. |
| 55.85 | Leave aspen timber, enter dense tall undergrowth, bears N. and S. |
| 68.60 | Spur, 180 ft. above road, projects S. |
| | Descend abruptly |
| 79.70 | Leave dense undergrowth, enter dense pine and fir timber, bears N. and S. |
| 80.08 | The cor. of secs. 20,21,28 and 29, 215 ft. below spur. |
| | Land, mountainous with steep E. and W. slopes of ridges into ravines draining S. |
| | Soil, shallow brown loam and decayed vegetation mixed with rock on sub-soil of moist brown clay, packed hard and quite rocky. |
| | Timber, aspen, pine and fir. |
| | Undergrowth, oak, service, choke cherry, buck, deer, sage brush, maple, chaparral, weeds and grass. |
| | Good grazing land. |

Subdivision of T.19 S.,R.3 E

| chains | |
|---|---|
| | June 30: At this cor., I set off 23°13'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 09'. |
| | N.0°03'W., bet. secs. 20 and 21 |
| | Over rough mountainous land draining S., through pine fir and scattering aspen timber and undergrowth of maple and deer brush. Gradually descend. |
| 5.40 | S. bank of pond of stagnant water, 75 ft. below sec. cor. bears E. and W. Leave pine and fir timber, bears E. and W. |
| 10.00 | N. bank of pond, enter aspen timber and dense undergrowth of choke cherry, scattering oak and maple undergrowth, bears E. and W. Ascend abruptly. |
| 11.62 | Stream, 2 lks. wide, 2 ins. deep, good water, course S.10°W. |
| 14.00 | Same stream, course SE. |
| 17.90 | Same stream, course SW. |
| 18.65 | Leave aspen timber, bears E. and W. Enter dense maple, oak and scattering choke cherry undergrowth, bears E. and W. |
| 24.65 | Enter scattering mahogany and cedar timber, bears E. and W. |
| 30.05 | Spur, 465 ft. above pond, projects W. Thence along steep rocky SW. slope of mountain over series of broken limestone ledges bearing NW. and SE |
| 36.75 | Enter scattering pine and fir timber, bears E. and W. |
| 40.00 | On steep W. slope, 150 ft. above spur. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

S 20 ¼ | S 21

1915

from which

A pine, 10 ins. diam., bears N.36°E., 21 lks. dist., marked ½ S 21 B T

Subdivision of T.19 S.,R.3 E.

chains

A pine, 10 ins. diam., bears S.21½°W., 3 lks. dist., marked ¼ S 20 B T

42.80 Gully, 30 lks. wide, 8 ft. deep, course SW.

Ascend abruptly over steep S. slope.

57.50 Edge of flat top mountain, 660 ft. above ¼ sec. cor., bears E. and W. Thence over rolling mountain top through dense undergrowth of sage brush and scattering pine timber.

79.65 Enter aspen timber, bears NE. and SW.

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

| | |
|---|---|
| T 19 S<br>S 17 | R 3 E<br>S 16 |
| S 20 | S 21 |

1915

from which

An aspen, 8 ins. diam., bears N.24¾°E., 37 lks. dist., marked T 19 S R 3 E S 16 B T

No trees in sec. 21

An aspen, 8 ins. diam., bears S.46½°W., 13½ lks. dist., marked T 19 S R 3 E S 20 B T

An aspen, 10 ins. diam., bears N.30°W., 65 lks. dist., marked T 19 S R 3 E S 17 B T

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

Land, S. 57.50 chs. rough broken mountains, general S. exposure and drainage. N. 22.50 chs. rolling mountain top, drains S.

Soil, rocky, gravelly and shallow clay loam on gravelly rocky and clay sub-soil.

Timber, aspen, pine, fir, cedar and mahogany.

Undergrowth, sage brush, choke cherry, service, buck, chaparral, weeds and grass. Fair grazing land.

June 30,1915.

Isaac Hayes

U. S. Transitman.

Subdivision of T 19 S.,R.3 E.

| chains | |
|---|---|
| | July 9: At 8h.a.m. apparent time, I set off 39°10' on the lat. arc; 22° 28'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16,17,20 and 21. |
| | Thence I run |
| | East, on a random line bet. secs. 16 and 21 |
| 40.00 | Set temp. ¼ sec. cor. |
| 69.38 | W. side of lake, bears N. about 5 and S. about 6 chs., clear water, 2 to 15 ft. deep. Outlet at S. end of lake. |
| | To determine the distance across lake, I set a flag on line on E. side, then measure a base line south 2 chs. to a point from which flag bears N.61°05'E. From the flag the S. end of the base bears S.61°05'W., therefore tan. 61°05' X base or 1.81025 x 2 chs. = 3.62 chs. which added to 69.38 chs. gives |
| 73.00 | To east. side of lake. |
| 80.08 | Intersect N. and S. line at the cor. of secs. 15,16,21 and 22. |
| | Thence |
| | West, on a true line bet. secs. 16 and 21 |
| | Over rolling mountainous bench land, gradually descend through aspen and scattering pine timber and undergrowth of chaparral, weeds and grass. |
| 7.08 | E. side of lake. 60 ft. below sec. cor., bears N. and S. |
| 10.70 | W. side of lake, bears N. and S. |
| | Ascend abruptly over broken E. and SE. slopes through dense timber and undergrowth. |
| 31.15 | Broken limestone ledge, 20 ft. high, bears N. and S. |
| | Leave dense aspen, enter pine and fir timber, bears N. and S. |
| 38.00 | Top of steep ascent, 595 ft. above lake, bears N. and S. |
| | Gradually ascend. |
| 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 |

S 16
¼

S 21
1915

| chains | |
|---|---|
| | from which |
| | A pine, 20 ins. diam., bears S.50°W., 49 lks. dist., marked 1/4 S 21 B T |
| | A pine, 24 ins. diam., bears N.26°W., 60 lks. dist., marked 1/4 S 16 B T |
| 43.40 | Top of ascent and edge of rolling mountain top bears N. and S. Enter dense aspen and scattering pine and fir timber and sagebrush undergrowth, bears N. and S. |
| | Gradually descend. |
| 59.60 | Leave timber, enter opening, bears N. and S. |
| 64.60 | Leave opening, enter dense aspen timber, bears N. and S. |
| 64.65 | Bottom of swale, 260 ft. below top of ascent, drains N. |
| | Gradually ascend. |
| 75.00 | Leave dense aspen timber, bears N. and S. |
| 80.08 | The cor. of secs. 16,17,20 and 21, 45 ft. above swale. |
| | Land, E. 43.40 chs. rough mountainous, general SE. exposure and drainage . W. 36.68 chs. rolling mountain top. |
| | Soil, shallow black loam mixed with gravel and rock on sub-soil of moist sticky clay, packed hard and mixed with rock. |
| | Timber, aspen, pine and fir. |
| | Undergrowth, sagebrush, chaparral, weeds and grass. |
| | Good grazing land. |
| | July 9: The sky is overcast at noon, observation for lat. is impossible. |
| | July 9,1915. |
| | --- |
| | July 10: At 8h. a.m. apparent time, I set off 39°10' on the lat. arc; 20° 21'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16,17,20 and 21. |
| | Thence I run |
| | N.0°03'W., bet. secs. 16 and 17. |
| | Gradually ascend over rolling mountain top through dense aspen and scattering pine timber and undergrowth of chaparral, weeds and grass. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 9.60 | Leave dense aspen, enter dense pine and fir timber, bears E. and W. |
| 13.30 | Leave dense timber, enter flat, bears E. and W. |
| 20.00 | Leave flat, enter dense timber, bears E. and W. |
| 27.00 | Top of ascent, 25 ft. above sec. cor., bears E. and W. Gradually descend over N. and NW. slopes. |
| 40.00 | On N. slope 95 ft. below top of ascent. 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>S 17 ¼ \| S 16<br>1915<br>from which<br>A fir, 12 ins. diam., bears N.38°E., 39½ lks. dist., marked ¼ S 16 B T<br>A fir, 10 ins. diam., bears N.35¼°W., 75 lks. dist., marked ¼ S 17 B T |
| 42.95 | Bottom of canyon, 40 ft. below ¼ sec. cor., course W. Ascend abruptly. |
| 54.95 | Top of ridge, 235 ft. above canyon, bears E. and W. Leave dense pine and fir timber, gradually descend over W. and NW. slopes through aspen and scattering pine timber. |
| 80.00 | In large aspen timber, 150 ft. below ridge. 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<br>T 19 S \| R 3 E<br>S 8 \| S 9<br>S 17 \| S 16<br>1915<br>from which<br>An aspen, 8 ins. diam., bears N.9¼°E., 32 lks. dist., marked T 19 S R 3 E S 9 B T<br>An aspen, 10 ins. diam., bears S.17½°E., 54 lks. dist., marked T 19 S R 3 E S 16 B T |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | An aspen, 10 ins. diam., bears S.73°W., 53 lks. dist., marked T 19 S R 3 E S 17 B T |
| | An aspen, 10 ins. diam., bears N.46½°W., 28 lks. dist., marked T 19 S R 3 E S 8 B T |
| | Land, rolling mountain top draining SW. |
| | Soil, black mountain loam mixed with gravel and rock on sub-soil of moist, sticky clay, packed hard and mixed with rock. |
| | Timber, aspen and pine and fir. |
| | Undergrowth, chaparral, weeds and grass. |
| | Good grazing land. |
| | July 10: At this cor., I set off 22° 19'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°11' |
| | East, on a random line bet. secs. 9 and 16 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.12 | Intersect N. and S. line 12 lks. S. of the cor. of secs. 9,10,15 and 16. |
| | Thence |
| | S.89°55'W., on a true line bet. secs. 9 and 16 |
| | Gradually descend over rolling mountain top sloping NW., through dense pine, fir and aspen timber and under-growth of chaparral, weeds and grass. |
| 3.80 | Leave timber, bears N. and S. |
| 8.40 | Enter dense aspen timber, bears N. and S. |
| 13.15 | Leave timber, enter opening, bears N. and S. |
| 23.50 | Leave opening, enter dense aspen timber, bears N. and S |
| 35.50 | Head of spring in small marsh, spring 1 ft. in dia., good water and flows W., bears N. 50 lks. |
| 37.20 | Stream, 2 lks. wide, 1 in. in dia., good water, course SW |
| 38.85 | Stream, 1 lk. wide, 1 in. deep, good water, course SW. |
| 40.06 | Near edge of aspen timber, about 50 lks. SE. of an old corral and 475 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | the ground for ¼ sec. cor., with brass cap marked |
| | S 9 / ¼ / S 16 / 1915 |
| | from which |
| | An aspen, 8 ins. diam., bears N.9¾°E., 89 lks. dist., marked ¼ S 9 B T |
| | An aspen, 13 ins. diam., bears S.2½°W., 72 lks. dist., marked ¼ S 16 B T |
| | Continue descent. |
| 41.95 | Leave aspen timber, enter large sage brush opening, bears N. and S. |
| 54.65 | Bottom of large draw and stream, 3 lks. wide, 2 ins. deep, good water, 45 ft. below ¼ sec. cor., course SW. |
| | Ascend. |
| 63.50 | Leave opening, enter aspen and fir timber, bears N. and S. |
| 70.55 | Top of ridge, 160 ft. above stream, bears N. and S. |
| | Descend over W. slope. |
| 76.50 | Leave fir timber, bears N. and S. |
| 80.12 | The cor. of secs. 8,9,16 and 17, 180 ft. below ridge. |
| | Land, rolling mountain top, drains SW. |
| | Soil, rich black mountain loam and gravel on sub-soil of rich brown clay, streaked with rock. |
| | Timber, aspen and scattering pine and fir. |
| | Undergrowth, sagebrush, chaparral, weeds and grass. |
| | Good grazing. |
| | July 10,1915. |
| | --- |
| | July 13: At 7h. 30m.a.m. apparent time, I set off 39°11' on the lat. arc; 21° 57'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 8, 9,16 and 17. |
| | Thence I run |
| | N.0°03'W., bet. secs. 8 and 9 |
| | Over rolling mountain top sloping and draining W., through dense aspen timber and undergrowth of chaparral, weeds |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | and grass. |
| | Gradually descend. |
| 9.60 | Leave timber, enter large sagebrush opening, bears NE. and SW. |
| 23.30 | Bottom of draw and stream, 3 lks. wide, 3 ins. deep, good water, 45 ft. below sec. cor., course SW. |
| 33.98 | Old road, bears NE. and SW. |
| | Ascend abruptly over SE. slope. |
| 26.25 | The west edge of a patch of aspen timber bearing N. and S., bears E. 50 lks. |
| 35.60 | Enter aspen timber, bears E. and W. |
| 38.00 | Top of bench or rim, 180 ft. above creek, bears NE. and SW. |
| | Gradually ascend over land sloping SW. and W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked |

S 8 | S 9
$\frac{1}{4}$
1915

from which

An aspen, 8 ins. diam., bears S.24$\frac{1}{2}$°E., 74 lks. dist., marked $\frac{1}{4}$ S 9 B T

An aspen, 8 ins. diam., bears S.26$\frac{1}{4}$°W., 90 lks. dist., marked $\frac{1}{4}$ S 8 B T

| | |
|---|---|
| 58.90 | Old road, bears E. and W. |
| 66.00 | Enter scattering jack pine timber, bears E. and W. |
| 70.70 | Leave timber, enter dense sage brush, bears E. and W. |
| | Thence gradually ascend over nearly W. slope. |
| 80.00 | On W. slope, 200 ft. above $\frac{1}{4}$ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 4,5,8 and 9, with brass cap marked |

T 19 S | R 3 E
S 5 | S 4
S 8 | S 9
1915

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

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Land, mountainous, general S. and SW. exposures, drains S. |
| | Soil, shallow black and brown loam mixed with gravel and rock on sub-soil of moist clay and rock. |
| | Timber, aspen and some scattering jack pine. |
| | Undergrowth, sagebrush, chaparral, weeds and grass. |
| | Good grazing land. |
| | July 13: At this cor., I set off 21°55'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°12'. |
| | --- |
| | N.89°55'E., on a random line bet. secs. 4 and 9 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.13 | Intersect N. and S. line 5 lks. N. of the cor. of secs. 3,4,9 and 10 |
| | Thence |
| | S.89°57'W., on a true line bet. secs. 4 and 9 |
| | Over rolling mountainous land draining SW., through short undergrowth of sagebrush, chaparral, weeds and grass. |
| | Gradually descend over NW. slope. |
| 1.95 | Draw, 15 ft. below sec. cor., drains SW. |
| | Gradually ascend over SE. slope. |
| 21.60 | Ridge, 25 ft. above draw, bears NE. and SW. |
| | Descend over W. slope. |
| 27.65 | Enter scattering patches of aspen timber, bears N. and S. |
| 40.06½ | On NW. slope , 280 ft. below ridge. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

S 4
¼
---
S 9
1915

from which

An aspen, 7 ins. diam., bears S.1°W., 39 lks. dist., marked ¼ S 9 B T

An aspen, 10 ins. diam., bears N.57½°W., 48 lks. dist., marked ¼ S 4 B T

| chains | |
|---|---|
| 44.85 | Leave scattering patches of aspen timber, bears N. and S. |
| 49.60 | Draw, 55 ft. below ¼ sec. cor., course S. |
| | Gradually ascend over SE. slope. |
| 54.40 | Enter dense aspen timber, bears N. and S. |
| 75.70 | Ridge, 205 ft. above draw, bears N. and S. Leave aspen timber, bears N. and S. Gradually descend. |
| 80.13 | The cor. of secs. 4,5,8 and 9, 40 ft. below ridge. |
| | Land, mountainous, general S. exposure and drainage. |
| | Soil, shallow brown loam and gravel on sub-soil of moist clay, packed hard and mixed with rock. |
| | Timber, scattering patches of aspen. |
| | Undergrowth, sagebrush, chaparral, weeds and grass. |
| | Good grazing. |
| | July 13,1915. |

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July 14: At 8h.a.m. apparent time, I set off 39°12' on the lat. arc; 21° 48'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4,5,8 and 9.

Thence I run

N.0°03'W., on a true line bet. secs. 4 and 5.

Over mountainous land draining W., through dense undergrowth of sagebrush, weeds and grass.

Gradually ascend along W. slope of ridge.

| | |
|---|---|
| 32.10 | Top of ascent and edge of mountain top dividing Six and Twelve Mile canyons, bears E. and W. |
| | Leave sagebrush and enter scattering pine and fir timber bears E. and W. Descend abruptly over N. slope over series of broken limestone ledges. |
| 40.00 | At foot of ledges, 410 ft. below edge of mountain. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

S ¼ 5 | S 4

1915

from which

Subdivision of T.19 S., R.3 E

| chains | |
|---|---|
| | A fir, 6 ins. diam., bears N.85¾°E., 59 lks. dist., marked ¼ S 4 B T |
| | A fir, 6 ins. diam., bears N.15°W., 34 lks. dist., marked ¼ S 5 B T |
| | Enter scattering aspen timber, bears E. and W. |
| | Descend more gradually. |
| 56.10 | Leave timber, bears E. and W. Descend abruptly. |
| 70.25 | Base of steep descent and enter aspen and pine timber and dense undergrowth of choke cherry, bears E. and W. |
| | Gradually descend over rolling bench land. |
| 80.70 | Enter scattering patches of oak brush, bears E. and W. |
| 82.50 | Enter sagebrush and scattering service, bears E. and W. |
| 90.45 | Descend abruptly over N. slope. |
| 92.85 | Base of steep descent, bears E. and W. Descend more gradaully. |
| 106.20 | Enter scattering red cedar timber, bears E. and W. |
| 107.95 | Intersect N. bdy. of the Tp. 15.68 chs. West of the ¼ sec. cor. bet. secs. 4 and 33 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. |
| | 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 |

T 18 S R 3 E

S 32 | S 33

C | C

S 5 | S 4

T 19 S R 3 E

1915

from which

A pine, 8 ins. diam., bears S.63½°E., 45 lks. dist., marked T 19 S R 3 E S 4 B T

A fir, 8 ins. diam., bears S.44°W., 18½ lks. dist., marked T 19 S R 3 E S 5 B T

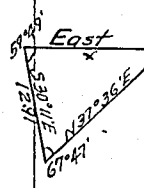
Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Cor. established 1025 ft. below ¼ sec. cor. |
| | Note: I return to the ¼ sec. cor. and the cor. of secs. 4,5,32 and 33 and destroy all marks on posts and bearing trees that refer to T.19 S. |
| | Land, mountainous, S, 32.10 chs. slopes W. and drains S. into Twelve Mile canyon; N.75.85 chs. slopes and drains N. into Six Mile canyon. |
| | Soil, shallow mountain loam and decayed vegetation mixed with gravel and rock on sub-soil of moist clay, packed hard and rocky. |
| | Timber, aspen, pine, fir and red cedar. |
| | Undergrowth, sage brush, choke cherry, service, willow, chaparral, weeds and grass. |
| | Good grazing. |
| | July 14: Walking on line at noon, obsn. for lat. not taken. |
| | July 14,1915. |
| | Howard W. Miller |
| | U. S. Surveyor |
| | --- |
| | July 2: For solar obsm. this date, see line bet. secs. 5 and 32, S. bdy. of the Tp. |
| | From the cor. of secs. 5,6,31 and 32 on the S. bdy. of the Tp. heretofore described, I run |
| | N.0°03'W., bet. secs. 31 and 32 |
| | Over rough mountainous land draining W., through dense undergrowth of oak and buck brush and scattering pinon and cedar timber. |
| | Descend abruptly over N. slope into Twelve Mile canyon. |
| 7.65 | Bottom of Twelve Mile canyon and creek, 30 lks. wide, 2 ft. deep, good water, 145 ft. below sec. cor., course W. |
| | Ascend abruptly from canyon through dense scrub timber and scattering undergrowth. |
| 10.45 | Road, Mayfield to Ferron and Emery, Utah, bears NW. and SE. U. S. Forest Service Telephone line, from Mayfield to Emery, Utah, over road, bears NW. and SE. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 28.55 | Ridge, 435 ft. above creek, bears NE. and SW. |
| | Thence along broken W. slope. |
| 40.00 | On W. slope, 60 ft. above top of ridge. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 31 ¼ \| S 32<br>1915 |
| | from which |
| | A cedar, 7 ins. diam., bears S.23°E., 26 lks. dist., marked ¼ S 32 B T |
| | A cedar limb, 5 ins. diam., bears N.76½°W.,9 lks. dist., marked ¼ S 31 B T |
| | July 2: At this cor., I set off 23° 06' N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 07'. |
| 42.20 | Leave cedar and pinon timber, enter dense oak, service and buck brush, bears E. and W. |
| 56.00 | Wash, 12 lks. wide, 10 ft. deep, course W. |
| 80.00 | On W. slope of Birch creek canyon, 75 ft. above ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 29,30,31 and 32, with brass cap marked |
| | T 19 S \| R 3 E<br>S 30 \| S 29<br>S 31 \| S 32<br>1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rough broken mountains, general N. and S. exposures and drainage into Twelve Mile canyon. |
| | Soil, gravelly, rocky and sandy loam on sub-soil of moist clay, packed hard and rocky. |
| | Timber, scrub cedar, pinon and mohogany. |
| | Undergrowth, oak, service, buck , sagebrush and grass. |

| chains | |
|---|---|
| | Good grazing. |
| | July 2,1915 |
| | --- |
| | July 3: At 8h.30m.a.m. apparent time, I set off 39°08' on the lat. arc; 23°02'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29,30,31 and 32. |
| | Thence I run |
| | East, on a random line bet. secs. 29 and 32 |
| 13.89 | The line east passes over the north end of a small lake; to obtain distance across same I triangulate as follows: |
| | Set a flag on line on a spur east of lake and measure a base line S.30°11'E., 12.91 chs. to a point from which flag on spur, bears N.37° 36'E. From flag the south end of the base bears S.37° 36'W. By separate measurement of each angle they are found to be 59°49', 67° 47' and 52° 24'. |




| | |
|---|---|
| Log. 12.91 chs. | 1.110926 |
| Log sin 67° 47' | 9.966499 |
| Cologsin 52° 24' | 0.101116 |
| Log 15.08 chs. | 1.178541 |

| | |
|---|---|
| | 15.08 chs. added to 13.89 chs. gives |
| 28.97 | To point of triangulation. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.99 | Intersect N. and S. line 2 lks. S. of the cor. of secs. 28,29,32 and 33. |
| | Thence |
| | S.89°59'W., on a true line bet. secs. 29 and 32 |
| | Over rough mountainous land draining S., through dense undergrowth of oak, service, buck, sagebrush and grass. |
| | Ascend abruptly over SE. slope. |
| 12.05 | Ridge, 105 ft. above sec. cor., bears NE. and SW. Old road on ridge, bears NE. and SW. |
| | Descend abruptly through dense undergrowth. |
| 28.00 | Wash, 50 lks. wide, 9 ft. deep, course SW. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 29.30 | Wash, 80 lks. wide, 10 ft. deep, 255 ft. below ridge, course S. |
| | Thence over rolling bench lands. |
| 38.05 | Stream, 4 lks. wide, 8 ins. deep, good water, course SE. |
| 39.99½ | 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>S 29<br>¼<br>S 32<br>1915<br>from which<br>A cedar, 5 ins. diam., bears N.37°E., 218 lks. dist., marked ¼ S 29 B T<br>An oak, 5 ins. diam., bears S.15°E., 75 lks. dist., marked ¼ S 32 B T |
| | Walking on line at noon, obsn. for lat. not taken this date. |
| 43.00 | Ditch for feed to lake, 5 lks. wide, 3 ft. deep, course S. |
| | Gradually ascend. |
| 51.02 | Top of low spur and point of triangulation, projects S. |
| | Descend. |
| 55.00 | E. side of lake or large resevoir, clear water, 2 to 50 ft. deep, bears N. and S. |
| 63.00 | W. edge of lake, bears N. and S. |
| 66.10 | Top of low ridge and point of triangulation, bears N. and S. |
| | Descend over W. slope, 160 ft. to |
| 79.99 | The cor. of secs. 29,30,31 and 32. |
| | Land, rough and rolling mountainous, general S. exposure and drainage. |
| | Soil, sandy loam and gravelly on gravelly and rocky sub-soil. |
| | Timber, a few scattering cedar and pinon. |
| | Undergrowth, oak, service, buck, sagebrush, weeds and grass. |
| | Good grazing land. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | July 3,1915. |
| | July 6: At 9h.a.m. apparent time, I set off 39°08' on the lat. arc; 22° 47'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29,30,31 and 32. |
| | Thence I run |
| | West, on a random line bet. secs. 30 and 31. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.96 | Intersect W. bdy. of the Tp. 16 lks. N. of the cor. of secs. 25,30,31 and 36 heretofore described |
| | Thence |
| | N.89°53'E., ontrue line bet. secs. 30 and 31 |
| | Over rough mountainous land draining S., through dense undergrowth of oak, service, buck, mahogany, chaparral, weeds and grass. A few scattering cedar and pinon on both sides of line. |
| | Descend abruptly over steep E. and SE. slopes of mountain. |
| 21.35 | Draw, 285 ft. below sec. cor., drains SW. |
| | Ascend. |
| 28.35 | Spur, 65 ft. above draw, projects SW. |
| | Descend abruptly 300 ft. to |
| 40.96 | 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>S 30<br>¼<br>S 31<br>1915<br>raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Continue descent. |
| 50.85 | Draw, 180 ft. below ¼ sec. cor., projects S. |
| | Gradaully ascend. |
| 55.85 | Low spur, projects S. |
| | Descend abruptly |
| 66.05 | Small rocky knoll. |
| 71.75 | Stream, 5 lks. wide, 3 ins. deep, good watern course SE. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 72.95 | Bottom of Birch Creek canyon and stream, 8 lks. wide, 3 to 6 ins. deep, good water, 135 ft. below spur, course SW. |
| | Ascend 70 ft. to |
| 80.96 | The cor. of secs. 29,30,31 and 32. |
| | Land, rough mountainous, general E. exposure, drains S. |
| | Soil, gravelly and rocky with some shallow sandy loam on gravelly and rocky sub-soil. |
| | Timber, scattering scrub cedar and pinon and some aspen in bottom of canyon. |
| | Undergrowth, oak, service, buck, chaparral, mahogany, weeds and grass. |
| | Fair grazing land. |
| | July 6: Walking on line at noon, obsn. for lat. not taken. |
| | July 3,1915 |
| | Isaac Hayes |
| | U. S. Transitman. |
| | --- |
| | July 6: At 8h.a.m. apparent time, I set off 39°08' on the lat. arc; 22° 47'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29,30,31 and 32. |
| | Thence I run |
| | N.0°03'W., bet. secs. 29 and 30 |
| | Over rolling mountainous land sloping W., on E. side of Birch Cr. canyon, through dense undergrowth of oak, service, buck, sage brush, rose and brier. |
| | Gradually ascend. |
| 14.90 | E. bank of Birch Cr. wash in canyon, bears NE. and SW. |
| | Thence in wash. |
| 17.20 | Birch Cr., 10 lks. wide, 18 ins. deep, good water, course SW. |
| 18.30 | W. bank of Birch Cr. wash, bears NE. and SW. |
| | Ascend over E. and SE. slopes. |
| 40.00 | On top of low rim on W. side of Birch Cr. canyon, 270 ft. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | above sec. cor. |
| | 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 |
| | S 30 ¼ \| S 29<br>1915 |
| | from which |
| | A cedar, 5 ins. diam., bears S.58½°E., 49 lks. dist., marked ¼ S 29 B T |
| | An oak, 4 ins. diam., bears N.73½°W., 49 lks. dist., marked ¼ S 30 B T |
| | Gradually ascend. |
| 52.10 | Old road, bears NE. and SW. |
| 76.00 | Top of slide, 15 ft. high, 350 ft.above ¼ sec. cor., bears NE. and SW. |
| | Gradually descend. |
| 80.00 | 10 ft. below top of slide. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock and 14 ins. in a mound of stone for cor. of secs. 19,20,29 and 30, with brass cap marked |
| | T 19 S \| R 3 E<br>S 19 \| S 20<br>S 30 \| S 29<br>1915 |
| | from which |
| | An oak, 4 ins. diam., bears N.84½°E., 99 lks. dist., marked T 19 S R 3 E S 20 B T |
| | An oak, 4 ins. diam., bears S.65½°E., 79 lks. dist., marked T 19 S R 3 E S 29 B T |
| | An oak, 4 ins. diam., bears S.40½°W., 129 lks. dist., marked T 19 S R 3 E S 30 B T |
| | An oak, 3 ins. diam., bears N.9½°W., 25 lks. dist., marked T 19 S R 3 E S 19 B T. |
| | Land, mountainous, general S. exposure and drainage. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Soil, shallow sandy loam and rocky on sub-soil of moist clay, packed hard and mixed with rock. |
| | Timber, scrub cedar and pinon. Very scattering. |
| | Undergrowth, dense oak, service, buck, sagebrush, weeds and grass. |
| | Fair grazing land. |
| | July 6: At this cor., I set off 22°46'N., on the decl. arc; and at apparent noon obs the sun on the meridian; the resulting lat. is 39°09'. |
| | --- |
| | N.89°59'E., on a random line bet. secs. 20 and 29 |
| 40.00 | Set temp. ¼ sec. cor. |
| | July 6,1915. |
| | July 7: At 8 h.a.m. apparent time, I set off 39°09' on the lat. arc; 22° 41'N., on the decl.arc; and determine a meridian with the solar at the temp. ¼ sec. cor. |
| | Thence I continue |
| | N.89°59'E., on random line. |
| 79.86 | Intersect N. and S. line at the cor. of secs. 20,21,28 and 29. |
| | Thence |
| | S.89°59'W., on true line bet. secs. 20 and 29 |
| | Over mountainous land draining SW., through dense pine and fir timber and undergrowth of scattering maple, oak and service brush. |
| 1.60 | Leave pine and fir timber, enter dense aspen timber, bears N. and S. |
| 10.15 | Ridge, 35 ft. below sec. cor., bears N. and S. |
| | Thence over rolling land. |
| 20.50 | Leave dense timber; enter dense undergrowth, bears N. and S. |
| 26.60 | Stream, 10 lks. wide, 4 to 5 ins. deep, good water, course SW. |
| 29.10 | Leave dense undergrowth, enter dense aspen timber, bears N. and S. |
| 39.93 | In W.edge of small sagebrush opening, 200 ft. below ridge. |

Subdivision of T.19 S.,R.3 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 |
| | S 20 / ¼ / S 29 / 1915 |
| | from which |
| | A maple, 4 ins. diam., bears S.11½°W., 28 lks. dist., marked ¼ S 29 B T |
| | An aspen, 8 ins. diam., bears N.12½°W., 15 lks. dist., marked ¼ S 20 B T |
| 49.85 | Old road, bears NE. and SW. |
| 56.60 | Swale, 90 ft. below ¼ sec. cor., drains N. |
| | Gradually ascend. |
| 58.60 | A resevoir covering about 10 acres of land, water 1 to 30 ft. deep, bears N. about 1 chs. |
| 62.30 | Ridge, 25 ft. above swale, bears N. and S. |
| | Leave aspen timber, descend through dense maple and scrub cedar timber, bears N. and S. |
| 67.10 | Stream, 10 lks. wide, 4 to 6 ins. deep, good water, course SW. Leave dense maple undergrowth, bears N. and S. |
| 70.60 | Bottom of Birch Cr. canyon and stream, 20 lks. wide, 3 to 4 ins. deep, good water, 120 ft. below ridge, course S. for about 1 chs. thence SE. |
| | Gradually ascend. |
| 72.40 | Old road, bears N. and S. |
| 79.86 | The cor. of secs. 19,20,29 and 30. |
| | Land, mountainous, general SW. exposure, drains S. |
| | Soil, rich brown and black loam and gravel on sub-soil of moist, sticky brown clay, packed hard and mixed with rock. |
| | Timber, aspen, pine, fir and cedar. |
| | Undergrowth, oak, service, maple, buck, sagebrush, weeds and grass. |
| | Good grazing. |
| | July 7: Walking on line at noon, obsn. for lat. not |

| chains | |
|---|---|
| | taken. |
| | S.89°53'W., on a random line bet. secs. 19 and 30 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.90 | Intersect W. bdy. of the Tp. at the cor. of secs. 19,24, 25 and 30, heretofore described |
| | Thence |
| | N.89°53'E., on a true line bet. secs. 19 and 30 |
| | Gradually ascend over mountainous land draining W., through pine and fir timber and undergrowth of sage brush, weeds and grass. |
| 21.60 | Top of high ridge and divide between North Hollow and Twelve Mile canyon, 430 ft. above sec. cor., bears N. and S. Enter dense mahogany timber, bears N. and S. |
| | Descend abruptly over E. slope of mountain. |
| 25.40 | Leave dense mahogany, enter dense oak and service brush, bears N. and S. |
| 40.00 | Leave mahogany and dense service brush, enter dense oak maple and scattering aspen timber, bears N. and S. |
| 40.90 | On E. slope of mountain on E. side of large stationary boulder, 845 ft. below top of mountain. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 19 / ¼ / S 30 / 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No suitable trees within reasonable distance. |
| | Continue descent. |
| 65.30 | Leave aspen timber, bears N. and S. |
| 72.40 | Top of steep descent, 225 ft. below ¼ sec. cor., bears N. and S. |
| | Descend abruptly 350 ft. to |
| 80.90 | The cor. of secs. 19,20,29 and 30 |
| | Land, rough mountainous, W. exposure and drainage on W. 21.60 chs., E. exposure and S. drainage on E. 59.30 chs. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Soil, rocky and shallow brown clay on sub-soil of moist clay, packed hard and mixed with rock. |
| | Timber, aspen, pine, fir and scrub mohogany. |
| | Undergrowth, oak, service, maple, buck, sagebrush, weeds and grass. |
| | Fair grazing land. |
| | July 7,1915. |
| | --- |
| | July 8; At 8h. a. m. apparent time, I set off 39°09' on the lat. arc; 22°34'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19,20,29 and 30. |
| | Thence I run |
| | N.0°03'W., bet. secs. 19 and 20 |
| | Over mountainous land, ascend over bench on W. side of Birch Cr., through dense undergrowth of oak, service and deer brush, scattering red cedar timber. |
| 30.60 | Top of knoll, 410 ft. above sec. cor., bears NE. and SW. |
| | Enter scattering pine and mahogany timber, bears E. and W. Leave dense oak and service brush and scattering cedar timber. |
| | Gradually descend. |
| 31.80 | Swale, 20 ft. below knoll, drains E. Ascend. |
| 33.80 | Leave pine and mahogany timber, enter dense maple, scattering aspen timber and service brush, bears E. and W. |
| 40.00 | 35 ft. above swale. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 19 ¼ \| S 20 |
| | 1915 |
| | from which |
| | A maple, 3 ins. diam., bears S.87°E., 18 lks. dist., marked ¼ S 20 B T |
| | A maple, 3 ins. diam., bears N.25¾°W., 8 lks. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | dist., marked ¼ S 19 B T |
| 40.30 | Leave dense maple and aspen timber, enter dense service, oak, mahogany and scattering cedar timber, bears E. and W. Ascend abruptly over SE. slope of mountain. |
| 48.15 | Leave dense oak and service brush, bears E. and W. |
| 60.54 | Enter scattering pine and fir timber, bears E. and W. |
| 71.05 | Leave dense mahogany and cedar timber, enter aspen, bears E. and W. Some scattering choke cherry undergrowth. |
| 72.00 | Top of steep ascent, bears E. and W. Thence over E. slope of mountain. |
| 80.00 | On E. slope of mountain in dense timber, 945 ft. above ¼ sec. cor. |

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

| T 19 S | R 3 E |
|---|---|
| S 18 | S 17 |
| S 19 | S 20 |

1915

from which

An aspen, 8 ins. diam., bears N.67°E., 39 lks. dist., marked T 19 S R 3 E S 17 B T

An aspen, 8 ins. diam., bears S.70¼°E., 56 lks. dist., marked T 19 S R 3 E S 20 B T

A fir, 8 ins. diam., bears S.29°W., 27 lks. dist., marked T 19 S R 3 E S 19 B T

A fir, 11 ins. diam., bears N.40¾°W., 65 lks. dist., mabked T 19 S R 3 E S 18 B T

Land, rough mountainous, general S. exposure and draiange.

Soil, gravelly, rocky and shallow black loam on hard, moist clay and rock sub-soil.

Timber, aspen, maple, mahogany, cedar, pine and fir.

Undergrowth, oak, service, buck, sagebrush, chaparral, weeds and grass. Fair grazing land.

July 8: At this cor., I set off 22° 33' N., on the decl. arc; and at apparent noon obs. the sun on the meridian;

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | the resulting lat. is 39°10'. |
| | July 8,1915. |
| | --- |
| | July 9: For solar obsm. see line bet. secs. 16 and 21. |
| | N.89°59'E., on a random line bet. secs. 17 and 20 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.02 | Intersect N. and S. line 2 lks. N. of the cor. of secs. 16,17,20 and 21 |
| | Thence |
| | West, on a true line bet. secs. 17 and 20 |
| | Over mountainous land draining SW. through aspen timber and undergrowth of sagebrush, chaparral, weeds and grass |
| | Gradually descend over W. and NW. slope. |
| 20.50 | Bottom of ravine and stream, 1 lks wide, 2 ins. deep, good water, 390 ft. below sec. cor., course SW. |
| | Ascend. |
| 24.00 | Enter scattering pine timber, bears NE. and SW. |
| 28.15 | Leave pine timber, enter mahogany and cedar, bears NE. and SW. |
| 35.20 | Leave mahogany and cedar , enter pine timber, bears NE. and SW. |
| 37.60 | Spur, 150 ft. above ravine, projects SW. |
| | Gradually descend. |
| 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 |
| | S 17 / ¼ / S 20 / 1915 |
| | from which |
| | A pine, 30 ins. diam., bears N.40¾°E.,10 lks. dist., marked ¼ S 17 B T |
| | A pine, 10 ins. diam., bears S.12°W., 64 lks. dist., marked ¼ S 20 B T |
| 41.70 | Leave aspen timber, bears N. and S. |
| | Descend abruptly over W. slope. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 47.40 | Limestone ledge, 15 ft. high, bears NE. and SW. Leave pine enter aspen timber, bears NE. and SW. |
| 54.25 | Leave aspen, enter pine and fir timber, bears N. and S. |
| 57.20 | Bottom of Birch Cr. canyon and stream, 6 lks. wide. 3 to 4 ins. deep, good water, 400 ft. below ¼ sec. cor. course S. |
| | Ascend abruptly. |
| 62.50 | Spur, 110 ft. above creek, projects SE. |
| | Gradually descend. |
| 63.85 | Leave pine timber, enter dense choke cherry undergrowth bears N. and S. |
| 66.60 | Bottom of ravine and stream, 1 lks wide, 1 in. deep, good water, 50 ft. below spur; course SE. |
| | Ascend abruptly through dense choke cherry undergrowth and scattering aspen timber. |
| 80.02 | The cor. of secs. 17,18,19 and 20, 265 ft. above ravine. |
| | Land, mountainous with steep E. and W. slopes of ridges and spurs into ravines draining S. |
| | Soil, rich brown and black loam on gravelly and moist, sticky black clay sub-soil. |
| | Timber, aspen, pine, fir, cedar and mahogany. |
| | Undergrowth, choke cherry, chaparral, weeds and grass. |
| | Good grazing land. |
| | July 9,1915. |
| | Howard W. Miller |
| | U. S. Surveyor. |

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July 10: At 9h. a.m. apparent time, I set off 39°10' on the lat. arc; 22° 20'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs.17, 18,19 and 20

Thence I run

S.89°53'W., on a random line bet. secs. 18 and 19.

| | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |
| 80.83 | Intersect W. bdy. of the Tp. at the cor. of secs. 13,18, 19 and 24 heretofore described. |

| chains | |
|---|---|
| | Thence |
| | N.89°53'E., on a true line bet. secs. 18 and 19 |
| | Over mountainous land sloping and draining W., through dense undergrowth of sagebrush and very scattering pine and fir timber. |
| | Gradually ascend. |
| 14.50 | Top of high ridge, 240 ft. above sec. cor., bears N. and S. Descend. |
| 15.95 | Leave pine and fir, enter aspen timber, bears N. and S. |
| 24.70 | Leave aspen timber, bears N. and S. |
| 29.20 | Bottom of swale and stream, 2 lks. wide, 2 to 3 ins. deep, good water, 250 ft. below ridges, course S. |
| | Ascend. |
| 36.00 | Enter dense aspen timber, bears N. and S. |
| 40.83 | On W. slope, 165 ft. above stream. |
| | 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 |
| | S 18 / ¼ / S 19 / 1915 |
| | from which |
| | An aspen, 5 ins. diam., bears N. 83½°E. 215 lks. dist., marked ¼ S 18 B T |
| | An aspen, 6 ins. diam., bears South 80 lks. dist., marked ¼ S 19 B T. |
| | July 10: At this cor., I set off 22° 19'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°10'. |
| 48.45 | Leave aspen timber, enter dense sagebrush undergrowth, bears N. and S. |
| 52.55 | Leave sagebrush, enter dense aspen and choke cherry, bears N. and S. |
| 62.85 | Leave aspen timber and choke cherry undergrowth, enter dense sage brush, bears N. and S. |
| 66.00 | Top of ridge, 375 ft. above ¼ sec. cor., bears N. and S. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | Descend. |
| 72.20 | Leave dense sagebrush, enter dense aspen timber, bears N. and S. |
| 80.83 | The cor. of secs. 17,18,19 and 20, 195 ft. below ridge. |
| | Land, mountainous with steep E. and W. slopes of ridges into ravines draining S. |
| | Soil, shallow sandy and black loam mixed with gravel and rock on sub-soil of moist clay loam, gravel and rock. |
| | Timber, aspen and scattering pine and fir. |
| | Undergrowth, sagebrush, choke cherry, service, buck brush, chaparral, weeds and grass. |
| | Fair grazing. |
| | July 10,1915. |
| | Isaac Hayes |
| | U. S. Transitman. |
| | --- |
| | July 8: For solar obsn. see line bet. secs. 19 and 20 N.0°03'W., bet. secs. 17 and 18 |
| | Over mountainous land draining S., gradually ascend along E. slope of mountain through aspen, pine and fir timber and undergrowth of choke cherry, sagebrush, chaparral, weeds and grass. |
| 15.00 | Ravine, 110 ft. above sec. cor., drains SE. |
| | Leave aspen and choke cherry, bears E. and W. |
| 17.95 | Leave pine and fir timber, bears E. and W. |
| 28.95 | Enter dense aspen timber, bears E. and W. |
| 40.00 | On E. slope of mountain, 115 ft. above ravine |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S ¼ 18 \| S 17 |
| | 1915 |
| | from which |
| | An aspen, 10 ins. diam., bears S.86½°E., 74 lks. dist., marked ¼ S 17 B T |

chains

An aspen, 3 ins. diam., bears N.50¼°W., 33 lks. dist., marked ¼ S 18 B T

Continue along E. slope.

80.00 75 ft. below ¼ sec. cor.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 7,8,17 and 18, with brass cap marked

| | |
|---|---|
| T 19 S<br>S 7 | R 3 E<br>S 8 |
| S 18 | S 17 |

1915

from which

An aspen, 9 ins. diam., bears N.31½°E., 31 lks. dist., marked T 19 S R 3 E S 8 B T

An aspen, 9 ins. diam., bears S.36½°E., 25 lks. dist., marked T 19 S R 3 E S 17 B T

An aspen, 8 ins. diam., bears S.63¼°W., 34 lks. dist., marked T 19 S R 3 E S 18 B T

An aspen, 8 ins. diam., bears N.22¼°W., 30 lks. dist., marked T 19 S R 3 E S 7 B T

Land, mountainous, general E. exposure, drains S.

Soil, light, mountain loam and gravel on moist clay, gravel and rocky sub-soil.

Timber, aspen, pine and fir.

Undergrowth, chaparral, choke cherry, sagebrush, weeds and grass.

Good grazing.

July 8,1915.

Howard W. Keller

U. S. Surveyor.

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July 12: At 7h. 30m.a.m. apparent time, I set off 39°11' on the lat. arc; 22° 05'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7,8,17 and 18

Thence I run

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | East, on a random line bet. secs. 8 and 17 |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.84 | Intersect N. and S. line 2 lks. N. of the cor. of secs. 8,9,16 and 17. |
| | Thence |
| | N.89°59'W., on a true line bet. secs. 8 and 17 |
| | Over mountainous land draining S., through dense aspen timber and undergrowth of weeds and grass. |
| | Gradually descend over W. slope. |
| 5.25 | Leave aspen timber, enter dense undergrowth of sagebrush, bears N. and S. |
| 13.00 | Draw, stream in same, 2 lks. wide 3 to 4 ins. deep, good water, 155 ft. below sec. cor., course SW. |
| | Ascend. |
| 14.60 | Small ledge, bears N. and S. Enter dense aspen timber, bears N. and S. |
| 24.45 | Ridge, 290 ft. above draw, bears N. and S. |
| | Descend. |
| 31.10 | Leave aspen timber, bears N. and S. |
| 34.15 | Draw, 65 ft. below ridge, drains S. Ascend. |
| 38.70 | Enter dense aspen timber, bears N. and S. |
| 39.92 | On E. slope 25 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 |
| | S 8 / ¼ / S 17 / 1915 |
| | from which |
| | An aspen, 12 ins. diam., bears N.31°E., 32 lks. dist., marked ¼ S 8 B T |
| | An aspen, 12 ins. diam., bears S.46°E., 59 lks. dist., marked ¼ S 17 B T |
| 47.50 | Leave aspen timber, bears N. and S. |
| 50.70 | Top of ridge, 145 ft. above ¼ sec. cor., bears N. and S. |
| | Descend. |

| chains | |
|---|---|
| 55.65 | Enter dense aspen timber, bears N. and S. |
| 62.05 | Leave aspen, enter dense sage brush, bears N. and S. |
| 68.50 | Draw, 190 ft. below ridge, course SE. |
| | Ascend. |
| 74.40 | Leave sage brush, enter dense aspen timber, bears N. and S. |
| 79.84 | The cor. of secs. 7,8,17 and 18, 75 ft. above draw. |
| | Land, mountainous, E. and W. slopes of ridges into draws draining S. |
| | Soil, dark brown loam and gravel on sub-soil of moist sticky clay, packed hard and mixed with rock. |
| | Timber, patches of aspen. |
| | Undergrowth, sage brush, chaparral, weeds and grass. |
| | Good grazing. |
| | July 12: At this cor., I set off 22°04'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°11'. |
| | --- |
| | S. 89° 53'W., on a random line bet. secs. 7 and 18 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.83 | Intersect W. bdy. of the Tp. 14 lks. N. of the cor. of secs. 7,12,13 and 18 heretofore described. |
| | Thence |
| | N.89°47'E., on a true line bet. secs. 7 and 18 |
| | Over mountainous land draining W., through dense undergrowth of sage and deer brush. |
| | Gradually ascend over W. slope. |
| 16.75 | Ridge, 300 ft. above sec. cor., bears N. and S. |
| | Gradually descend. |
| 19.65 | Leave sagebrush, enter dense aspen timber and choke cherry undergrowth, bears N. and S. |
| 24.95 | Leave aspen timber and choke cherry undergrowth, bears N. and S. Enter grassy opening. |
| 39.90 | Bottom of swale, 205 ft. below ridge, drains N. |
| | Ascend. |
| 40.83 | About 1 ch. SE. of an aspen grove. |

Subdivision of T.19 S.,R.3 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 |
| | S 7 / ¼ / S 18 / 1915 |
| | from which |
| | An aspen, 8 ins. diam., bears N.80°W., 60 lks dist., marked ¼ S 7 B T |
| | An aspen, 4 ins. diam., bears S.84°W., 88 lks. dist., marked ¼ S 18 B T |
| 53.35 | Enter dense aspen timber and choke cherry undergrowth, bears N. and S. |
| 73.15 | Leave aspen timber and choke cherry undergrowth, enter dense dead sagebrush opening, bears N. and S. |
| 78.00 | Top of ridge, 500 ft. above swale, bears N. and S. |
| | Enter dense aspen timber, bears N. and S. |
| | Descend. |
| 80.83 | The cor. of secs. 7,8,17 and 18, 25 ft. below ridge. |
| | Land, mountainous, E. and W. slopes of ridges into ravines draining N. and S. |
| | Soil, brown loam, mixed with gravel and rocks on gravelly and brown clay sub-soil. |
| | Timber, aspen. |
| | Undergrowth, sagebrush, choke cherry, chaparral, weeds and grass. |
| | Good grazing. |
| | --- |
| | N.0°03'W., bet. secs. 7 and 8 |
| | Over mountainous land draining S, through dense aspen and scattering pine timber and undergrowth of chaparral weeds and grass. |
| | Gradually ascend along E. slope of ridge. |
| 6.95 | Leave pine timber, bears E. and W. |
| 27.95 | Leave aspen, enter dense sage brush, bears E. and W. |
| 40.00 | Near top of ridge, in dense sage brush. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | 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 |
| | S 7 \| S 8<br>1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | July 12,1915. |
| | July 13: At 9h. a.m. apparent time, I set off 39°11' on the lat. arc; 11°57'N., on the decl. arc; and determine a meridian with the solar at the ¼ sec. cor. |
| | Thence I run |
| | N.8°03'W. |
| | Continue along top of ridge. |
| 30.00 | On gradual W. slope of wide ridge. |
| | Set an iron post, 3 ft. long, 1 ins. in dia., 24 ins. in the ground for cor. of secs. 5,6,7 and 8, with brass cap marked |
| | T 19 S R 3 E<br>S 6 \| S 5<br>S 7 \| S 8<br>1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, mountainous, N. exposure, drains S. |
| | Soil, shallow brown loam, gravelly and rocky on sub-soil of moist clay, packed hard and mixed with gravel and rock. |
| | Timber, aspen and some scattering pine. |
| | Undergrowth, sagebrush, chaparral, weeds and grass. |
| | Good grazing. |
| | --- |
| | S.89°59'E., on a random line bet. secs. 5 and 8. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.99 | Intersect N. and S. line 7 lks. S. of the cor. of secs. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | 4,5,8 and 9 |
| | Thence |
| | S.89°58'W., on a true line bet. secs. 5 and 8 |
| | Over rough mountainous land facing and draining W., through dense undergrowth of sagebrush, chaparral and grass. |
| | Descend over W. slope of ridge. |
| 4.85 | Enter S. edge of aspen timber, bears N. and S. |
| 14.60 | Leave aspen timber, bears N. and S. |
| 23.15 | Base of descent and swale, 280 ft. below sec. cor., drains S. |
| | Gradually ascend. |
| 31.95 | Enter pine, fir and aspen timber, bears N. and S. |
| 38.15 | Ridge,100 ft. above swale, bears N. and S. A low saddle in ridge, bears S. about 5 chs. |
| | Gradually descend along S. slope. |
| 39.99½ | 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<br>S 5<br>¼<br>S 8<br>1915<br>from which<br>A pine, 12 ins. diam., bears S.71¾°E., 37 lks. dist., marked ¼ S 8 B T<br>An aspen, 4 ins. diam., bears N.12½°W., 17 lks. dist., marked ¼ S 5 B T |
| 55.25 | Leave timber, bears NW. and SE. |
| 57.60 | Bottom of draw and wash, 20 lks. wide, 5 ft. deep, 170 ft. below ridge, course NW. |
| | Gradually ascend. |
| 59.00 | Old road, bears NW. and SE. |
| 61.70 | Leave opening, bears N. and S. Enter dense young aspen timber. |
| 76.05 | Leave aspen timber, enter dense sage brush, bears N. and S. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 77.45 | Ridge, 255 ft. above draw, bears N. and S. |
| | Gradually descend |
| 79.99 | The cor. of secs. 5,6,7 and 8. |
| | Land, mountainous with E. and W. slopes of ridges into draws draining S. on E.38.15 chs. and NW on W. 41.84 chs. |
| | Soil, shallow mountain loam mixed with gravel and rock on sub-soil of gravel and brown clay, moist and packed hard. |
| | Timber, aspen and some scattering pine and fir. |
| | Undergrowth, sagebrush, weeds and grass. |
| | Good grazing land. |
| | July 13: At this sec. cor., I set off 21° 55'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°12'. |
| | --- |
| | S.89°47'W., on a random line bet. secs. 6 and 7 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.61 | Intersect W. bdy. of the Tp. 2 lks. S. of the cor. of secs. 1,6,7 and 12 heretofore described |
| | Thence |
| | N.89°48'E., on true line bet. secs. 6 and 7 |
| | Over rough mountainous land draining NW., through dense undergrowth of sage and service brush. |
| | Ascend. |
| 6.55 | Spur, 65 ft. above sec. cor., projects N. |
| | Gradually descend. |
| 14.40 | Ravine, 65 ft. below spur, drains NW. Enter scattering pine and fir timber, bears N. and S. Ascend. |
| 19.35 | Leave pine and fir timber, bears N. and S. |
| 28.70 | Enter aspen timber, bears N. and S. |
| 31.75 | Leave aspen timber, enter dense sage brush, bears N. and S. |
| 40.61 | On W. slope 500 ft. above ravine. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

| chains | |
|---|---|
| | S 6 / 1/4 |
| | S 7 / 1915 |
| | dig pits, 18 x 18 x 12 ins., E. and W. of cor. 3 ft. dist.; raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. |
| | Continue ascent. |
| 55.30 | Ridge, 120 ft. above ¼ sec. cor., bears N. and S. |
| | Gradually descend. |
| 61.95 | Swale, 10 ft. below ridge, drains N. |
| | Ascend. |
| 68.75 | Enter aspen timber, bears N. and S. |
| 78.50 | Leave aspen timber, bears N. and S. |
| 80.61 | The cor. of secs. 5,6,7 and 8, 155 ft. above swale. |
| | Land, mountainous, general W. exposure, drains NW. |
| | Soil, shallow mountain loam and gravel on clay and gravel sub-soil. |
| | Timber, scattering patches of aspen, pine and fir. |
| | Undergrowth, sagebrush, service, weeds and grass. |
| | Fair grazingland. |
| | July 13,1915. |
| | --- |
| | July 14: No instrument work performed in a.m. |
| | At 2h. p.m. apparent time, I set off 39°12' on the lat. arc; 21° 45'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5,6,7 and 8. |
| | Thence I run |
| | N.0°03'W., on true line bet. secs. 5 and 6 |
| | Over mountainous land draining NW., gradually descend through dense undergrowth of sage brush. |
| 7.55 | Leave sagebrush, enter dense aspen and scattering pine and fir timber, bears E. and W. |
| | Descend abruptly. |
| 17.65 | Leave aspen timber, bears E. and W. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 18.25 | Old road, bears NW. and SE. |
| 19.40 | Bottom of canyon, wash in same, 10 lks. wide, 4 ft. deep, course W. |
| | Ascend abruptly over S. slope. |
| 27.55 | Top of ridge, 150 ft. above canyon, bears NW. and SE. |
| | Descend abruptly over N. slope towards Six Mile canyon. |
| 36.20 | Enter dense pine and aspen timber, bears E. and W. |
| 40.00 | At foot of ridge, 200 ft. below top. |
| | 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 |
| | S 6 ¼ \| S 5<br>1915 |
| | from which |
| | An aspen, 13 ins. diam., bears N.34°E., 31 lks. dist., marked ¼ S 5 B T |
| | A fir, 10 ins. diam., bears N.32°W., 17 lks. dist., marked ¼ S 6 B T |
| | July 14, 1915 |
| | July 15: At 9h. a.m. apparent time, I set off 39°12' on the lat. arc; 21° 39'N., on the decl. arc; and determine a meridian with the solar at the ¼ sec. cor. |
| | Thence I run |
| | N.0°03'W. |
| 50.50 | Leave pine and fir timber, enter dense undergrowth of choke cherry and deer brush, bears E. and W. |
| 54.25 | Stream, 1 lk. wide, 1 in. deep, good water, course N.15°W. |
| 59.30 | Stream, 5 lks. wide, 1 to 2 ins. deep, good water, course NW. |
| 64.60 | A small pond of stagnant water, bears W. about 7 chs. |
| 69.90 | Leave dense aspen timber and choke cherry undergrowth, enter dense sage and oak brush, bears E. and W. |
| 82.80 | Leave sagebrush and oak, enter dense aspen timber, bears E. and W. |

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| 86.90 | Leave aspen timber, enter dense undergrowth, bears E. and W. |
| 91.90 | Enter dense aspen timber, bears E. and W. |
| 93.35 | Stream, 7 lks. wide, 4 to 5 ins. deep, good water, course NW. |
| 104.00 | Leave dense aspen, enter pine timber with scattering undergrowth of oak, choke cherry and deer brush, bears E. and W. |
| 107.62 | Intersect N. bdy. of the Tp. 14.02 chs. S.89°53'W. of the ¼ sec. cor. on the S. bdy. of sec. 32, T.18 S.,R.3 E., heretofore described. |

At intersection

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

T 18 S R 3 E
S 31 | S 32
C | C
S 6 | S 5
T 19 S R 3 E
1915

from which

A fir, 4 ins. diam., bears S.30°E., 26 lks. dist., marked T 19 S R 3 E S 5 B T

A fir, 6 ins. diam., bears S.49½°W., 40 lks. dist., marked T 19 S R 3 E S 6 B T

Cor. established 760 ft. below ¼ sec. cor.

Land, rough mountainous, general N. exposure and drainage

Soil, gravelly, rocky and shallow mountain loam on gravelly and moist clay sub-soil.

Timber, aspen, pine and fir.

Undergrowth, oak, sage, choke cherry, maple, chaparral, weeds and grass. Good grazing land.

July 15: Walking on line at noon, obsn. for lat. not taken.

General Description

July 15,1915.

Isaac Hayes
U. S. Transitman.

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GENERAL DESCRIPTION

This township is rough and mountainous and is situated on the west slope of high spur of the Wasatch mountains. Deep canyons traverse the township in an easterly and westerly direction and dividing the canyons are high spurs or flat topped ridges which have steep rocky slopes near the top and become rolling as they approach the canyon bottoms. The country being very high is generally exposed to the west with many N. and S. slopes into the canyons which drain W. The township reaches its highest elevation in the eastern portion where the land is more rolling. In the western part the elevation is considerable lower than in the east and the land is rougher. The soil is generally a rich, black mountain loam and decayed vegetation mixed with gravel, rock and loose shales of limestone formation; the sub-soil is a hard, moist sticky brown and black clay, gravelly and rocky. On the tops of the ridges the soil is a shallow loam and on the high slopes of these ridges it is quite rocky.

Considerable aspen, pine and fir timber is found on the township, the greater amount being found in the eastern part. The aspen grows abundantly on all slopes while the pine and fir is chiefly confined to the N. slopes. This timber is of commercial value and as it is situated **on Manti Nat'l Forest Reserve,** will in time develop into a valuable tract. A rank growth of oak, choke cherry, service, maple, buck, sagebrush, chaparral, weeds and grass is found on the W.$\frac{1}{2}$ or the lower part of the township while in the E.$\frac{1}{2}$ or on the higher elevations

General Description

it becomes more scattering, the choke cherry predominating.

The township is well watered by Six and Twelve Mile Creeks with their tributaries which flow through the township in a westerly direction to San Pete Valley where the water is used for irrigation purposes. The streams are fed by springs of good pure water and apparently flow throughout the year. Some of the water is held in reservoirs and small ponds, and in the summer months when the main streams are low the water is turned into the main canyon stream, thus enabling the farmers to have an ample supply of water during the irrigating season.

There are no settlers in the township. A small dilapidated cabin is situated in sec. 26. Owner's name unknown.

I do not find any indication of mineral in the township.

The township is valuable for summer grazing of sheep and cattle.

Howard W. Miller
U. S. Surveyor

Isaac Hayes
U. S. Transitman.

For certificate of assistants and final oath of U. S. Surveyor and Transitman see subdivision of T.20 S., R.3 E.

Howard W. Miller
U S. Surveyor.

BOOK A-421

# CERTIFICATE OF ASSISTANTS.

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

.....

.....

.....

.....

.....

.....

of the ..... Meridian, in the State of .....

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

| NAME. | PERIOD OF SERVICE. | | CAPACITY. |
|---|---|---|---|
| | BEGUN. | ENDED. | |
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Subscribed and certified to before me on the dates of the final service as shown above.

.....

4—680 *U. S. Surveyor.*

# FINAL OATH OF UNITED STATES SURVEYOR.

I, ....., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , 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 .....

..... of the ..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

.....

*U. S. Surveyor.*

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

SEAL

.....

.....

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 2, 1917

The foregoing field notes of the re survey of the north boundary and survey of the subdivision of T. 19 S. R. 3 E.

executed by Howard W. Miller and Isaac Hayes

under his special instructions dated May 14, 1915, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

M. Thoreson

*U. S. Surveyor General.*

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

6—2761

.....

*U. S. Surveyor General.*

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U. S. Surveyor General's Office
MAY 31 1916
SALT LAKE CITY, UTAH.

4—679

BOOK A-421

F

# FIELD NOTES

OF ~~THE SURVEY OF THE~~

RETRACEMENT AND SURVEY OF THE EAST BOUNDARY

AND

SURVEY OF THE SUBDIVISION OF

T.19 S., R.4 E.

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

*In the State of* UTAH

EXECUTED BY

Howard W. Miller, U. S. Surveyor

and

Isaac Hayes, U. S. Transitman

~~In the capacity of U.S. Surveyor,~~ *under instructions dated* May 14, *1915*

*issued by the United States Surveyor General to govern surveys included in*

*Group No.* 39, *which were approved by the Commissioner of the General Land*

*Office,* June 5, *1915*

*Survey commenced* July 16, *1915*

*Survey completed* August 12, *1915*

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BOOK A-421

# INDEX DIAGRAM.

Township 19 South ; Range 4 East

| | | | | | |
|---|---|---|---|---|---|
| 6 113 5 90 4 74 3 58 2 40 1 8 19<br>112 111 89 72 56 38 | | | | | |
| 7 109 8 87 9 71 10 54 11 35 12 7 17<br>108 107 86 69 53 34 | | | | | |
| 18 105 17 85 16 68 15 51 14 37 13 6 15<br>104 102 83 67 50 30 | | | | | |
| 19 100 20 82 21 65 22 48 23 28 24 5 13<br>99 98 81 64 47 26 | | | | | |
| 30 96 29 79 28 62 27 46 26 25 25 11<br>95 93 78 61 44 23 | | | | | |
| 31 92 32 77 33 60 34 42 35 21 36 9 | | | | | |

4

6—151

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

chains

Survey commenced July 16,1915 and executed with Young and Sons light mountain transits Nos. 8297, 8537 and 8582, with Smiths solar attachments. The horizontal limbs are provided with two double verniers, placed opposite to each other and reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instruments were approved for use in this survey by G.D.D.Kirkpatrick, Assistant Supervisor of Surveys for Utah.

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

At my camp which is situated near the ¼ sec. cor., bet. secs. 22 and 23 in approximate latitude 39° 09'N., longitude 111° 29'W.; July 16, 1915, at 10h. 13m.p.m.l. m.t. I observe Polaris in accordance with the Manual of Instructions and mark the direction of the line thus determined by a nail, driven in a wooden peg, set firmly in the ground about 7 chs. N. of my station.

| | |
|---|---|
| L.M.T. of obsn. July 16,1915 ---------- | 10 h. 13 m.p.m. |
| L.M.T. of U.C.Pol. July 16,1915 ---------- | 5 h. 57.3m.a.m. |
| Corrected for long. 111° 29'W., subtract---- | 1.2m. |
| Correct L.M.T. of U.C.Pol. July 16, 1915 for lon. 111° 29'W.---------- | 5 h. 56.1m.a.m. |
| Time elapsed from U. C. Pol. and obsn.------- | 16h. 16.9m. |
| Subtract from ---------- | 23h. 56.1m. |
| Hour angle of Pol. at obsn.---------- | 7h. 39.2m. |

Azimuth of Pol.at obsn.----------1° 20'E.

July 16,1915.

---

Test of transit No. 8582

July 18,1915: At 8h. a.m. apparent time I lay off the azimuth of Polaris, 1° 20' to the west and note that a

Retracement and survey of the E. Bdy. of T.19 S.,R.4 E.

chains

tree about 1½ miles distant bears N.

At 8h. 15m.a.m. apparent time, I set off 39° 09' on the lat. arc; 21° 10'N., on the decl. arc; and determine a meridian with the solar and find that the tree bears north.

With the instrument in the meridian, I set off 21° 08'N., on the decl. arc; and at apparent noon observe the sun on the meridian; the resulting lat. is 39° 09'.

At 3h. 30m.p.m.apparent time, I set off 39° 09' on the lat. arc; 21° 07'N., on the decl. arc; and determine a meridian with the solar and find that the tree bears north. I conclude that the adjustments of this transit are satisfactory.

---

Test of transit No.8537

With this instrument in the meridian; at 8h. 15m.a.m. apparent time, I set off 39° 09' on the lat. arc; 21°10' N. on the decl. arc; and determine a meridian with the solar and find that the tree bears about N.0°01½'W.

With the instrument again in the meridian; I set off 21° 08'N. on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 09'.

At 3h. 30m.p.m. apparent time, I set off 39° 09' on the lat. arc; 21° 07'N., on the decl. arc; and determine a meridian with the solar and find that the tree bears N.0°01'W. As this instrument does not vary more than 1½' from the true meridian at any time of the day I therefore conclude that its adjustments are satisfactory.

July 18,1915.

---

Test of transit No. 8297

This instrument is used in this survey in place of transit No.8537 after August 8,1915.

I test the instrument on a meridian determined by observations on Polaris as follows:

At my camp which is situated near the center of sec. 29,

Retracement and survey of the E.bdy. of T.19 S.,R.4 E.

chains

T.19 S.,R.4 E., in approximate latitude 39°08'N., longitude 111° 33'W., August 7,1915 , at 7h. 35m.p.m. by my watch which is 26 minutes fast of l.m.t., I observe Polaris in accordance with the Manual of Instructions and note that an angle to a tree at time of observation is 24° 35' to the west.

| | |
|---|---|
| Watch time of obsn. Aug.7,1915-------- | 7 h. 35 m. p.m. |
| Corrected for long. 111°33'W., subtract- | 26 m. |
| Correct L.M.T. of obsn. Aug 7,1915 ----- | 7 h. 09 m. |
| U.C.Pol. August 7, 1915 ---------- | 4h. 31.2.m.a.m. |
| Corrected for Long. 111° 33'W.--------- | 1.2 m. |
| Correct L.M.T. U.C.Pol. August 7,1915 corrected for long. 111° 33'W. | 4h. 30 m. a.m. |
| Time elapsed from U. C. Pol. and obsn. | 14 h. 39 m. |
| Subtract from ---------- | 23 h. 56.1m. |
| Hour angle of Pol. at obsn. -------- | 9 h. 17.1m. |
| Azimuth of Pol. at obsn.---------- | 0° 57'E. |

24° 35' - 0° 57' = 23° 38' or N.23° 38'W. is the true bearing of the tree.

August 7,1915.

---

August 8: At 8h. a.m. apparent time, I set off 39° 08' on the lat. arc; 16° 21'N., on the decl. arc; and determine a meridian with the solar and find that the tree bears N.23° 38'W.

With the instrument in the meridian; I set off 16° 18'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 08'.

At 4h. p.m. apparent time, I set off 39° 08' on the lat. arc; 16° 16'N., on the decl. arc; and determine a meridian with the solar and find that the tree bears N.23° 38'W. The solar meridians by a.m. and p.m. observations agree with the Polaris meridian; I therefore conclude that the instrument is in adjustment.

No magnetic decl. is taken on account of defective needles.

August 8,1915.

---

In the decl. arc settings, .75 of the tabulated refraction

Retracement and survey of the E.bdy. of T.19 S.,R.4 E.

chains

for computing declinations is used, due to the altitude of the country.

---

Measurements.

Steel tapes, 5 chs. long, together with clinometers for determing slope angles were used by both parties in the field and the reduced horizontal distances only appear in the official field notes. The tapes were tested, comparison being made with a standard tape, 1 ch. long, kept and used for that purpose only.

---

In order to ascertain the positions of the old cors. on the E. bdy. of this Tp. so that regular corners for the E. bdy. of T.19 S.,R.4 E. can be set on line between the old cors., I make retracements as follows:

I begin at the cor. of Tps. 19 and 20 S., R.5 E. heretofore described.

July 19: For solar observation see random line on S. bdy. of T.19 S.,R.4 E.

Thence I run

North, retracing W. bdy. sec. 36, T.19 S.,R.5 E.

40.16 Intersect the ¼ sec. cor., bet. secs. 31 and 36 which is an iron post, 3 ft. long, 1 in. in dia., firmly set in a mound of stone, and marked and witnessed as described by the surveyor general. I destroy all marks on post pertaining to R.4 E. and deface bearing tree.

The bearing of this ½ mile is North and the distance is 40.16 chs.

July 19,1915.

July 20: At 8h. a.m. apparent time, I set off 39° 08' on the lat. arc; 20° 49'N., on the decl. arc; and determine a meridian with the solar at the ¼ sec. cor. on W. bdy. of sec. 36.

Thence I run

North, with continuous chaining.

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

| chains | |
|---|---|
| 79.60 | Fall 6 lks. E. of the closing cor. of secs. 30 and 31, T.19 S.,R.5 E., which is an iron post, 2 ins. in dia., extending 12 ins. above ground, firmly set, marked on brass cap |

T 19 S
R 4 E | R 5 E
S 25 | S 30
CC
S 36 | S 31

1910

and witnessed as described by the surveyor general.
This cor. is reported to be a 3 inch iron post.
The bearing of this ½ mile is N.0° 05'W., and the distance is 39.44 chs.

---

From point 6 lks. E. of the closing cor, I continue North, retracing

| | |
|---|---|
| 18.52 | Fall 14 lks. E. of the old cor. of secs. 19,24,25 and 30 which is a limestone, 9 x 11 x 7 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. I deface stone of all marks and destroy all marks on bearing trees with the exception of B T and leave same standing for angle corner. |

The bearing of this fractional mile is N.0°15'W., and the distance is 18.52 chs.

---

From point 14 lks. E. of the old cor. of secs. 19,24,25 and 30, I run
North, retracing bet. secs. 19 and 24

| | |
|---|---|
| 40.11 | Fall 25 lks. E. of the ¼ sec. cor., which is a sandstone 10 x 12 x 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. I destroy all marks on cor. and deface marks on bearing trees with the exception of B T and leave the same standing for angle cor. |

The bearing of this ½ mile is N.0° 09'W., and the distance is 40.11 chs.
July 20: At this station, I set off 20° 47'N., on the

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

| chains | |
|---|---|
| | decl. arc; and at apparent noon observe the sun on the meridian; the resulting lat. is 39° 09'. |
| | From point 25 lks. E. of the old ½ sec. cor., I continue North |
| 61.94 | Fall 40 lks. E. of the closing cor. of secs. 19 and 30, T.19 S.,R.5 E. 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. |
| | From point 40 lks. E. of the closing cor., I continue North. |
| 80.07 | Fall 30 lks. E. of the cor. of secs. 13,18,19 and 24 which is a limestone, 16 x 16 x 12 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | I destroy all marks on cor. stone and deface markings on bearing trees with the exception of B T and leave same standing for angle point cor. |
| | The bearing of this ½ mile is N.0°04'W., and the distance is 39.96 chs. |
| | --- |
| | From point 30 lks. E. of the old cor. of secs. 13,18,19 and 24, I continue |
| | North, retracing bet. secs. 13 and 18 |
| 39.46 | Fall 16 lks. E. of the ¼ sec. cor., which is a sandstone, 14 x 12 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | I destroy all marks on cor. stone and deface markings on bearing trees with the exception of B T and leave same standing for angle point cor. |
| | The bearing of this ½ mile is N.0°12'E., and the distance is 39.46 chs. |
| | From point 16 lks. E. of the ½ sec. cor., I continue North |
| 61.64 | Fall 47 lks. E. of the closing cor. of secs. 18 and 19, T.19 S.,R.5 E., which is an iron post, 2 ins. in dia., extending 12 ins. above ground, firmly set, marked and |

| chains | |
|---|---|
| | witnessed as described by the surveyor general. |
| | From point 47 lks. E. of cor., I continue |
| | North |
| 79.48 | Fall 54 lks. E. of the cor. of secs. 7,12,13 and 18, which is a limestone, 12 x 15 x 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | I destroy all marks on cor. stone and deface markings on bearing trees with the exception of B T and leave same standing for angle cor. |
| | The bearing of this ½ mile is N. 0° 33'W., and the distance is 40.02 chs. |
| | July 20,1915. |
| | July 21: At 8 h. a.m. apparent time, I set off 39° 10' on the lat. arc; 20° 38'N., on the decl. arc; and determine a meridian with the solar at my point 54 lks. E. of the old cor. of secs. 7,12,13 and 18. |
| | Thence I run |
| | North, retracing bet. secs. 7 and 12 |
| 40.30 | Fall 11 lks. W. of the ¼ sec. cor., which is a limestone, 8 x 8 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | I destroy all marks on cor. stone and deface markings on bearing trees with the exception of B T and leave same standing for angle cor. |
| | The bearing of this ½ mile is N.0°55'E., and the distance is 40.31 chs. |
| | From point 11 lks. W of the ¼ sec. cor., I continue |
| | North |
| 62.08 | Fall 13 lks. E. of the closing cor. of secs. 7 and 18, T.19 S.,R.5 E., 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. |
| | From point 13 lks. E. of cor., I continue |
| | North |

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

| chains | |
|---|---|
| 81.04 | Fall 23 lks. W. of the cor. of secs. 1,6,7 and 12, which is a limestone, 10 x 12 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | I destroy all marks on cor. stone and deface markings on bearing trees with the exception of B T and leave same standing for angle cor. |
| | The bearing of this ½ mile is N.0°10'E., and the distance is 40.74 chs. |
| | --- |
| | From point 23 lks. W. of the old cor. of secs. 1,6,7 and 12, I run |
| | North, retracing bet. secs. 1 and 6 |
| 40.00 | Point for ¼ sec. cor. falls on a very rocky slope, subject to slides and floods at high water. No trace of the old cor. can be found. |
| 48.00 | July 21: At this station, I set off 20° 35'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 12'. |
| 59.92 | Fall 35 lks. E. of the closing cor. of secs. 6 and 7, T.19 S.,R.5 E., 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. |
| | From point 35 lks. E. of cor., I continue |
| | North |
| 104.38 | Fall 84 lks. E. of the old cor. point for Tps. 18 and 19 S., R.4 E. The cor. stone was destroyed by me in 1913 in accordance with instructions for Group No.25 during the survey of the S. bdy. of T.18 S.,R.4 E. I can clearly identify the point where cor. stood and reestablish same at exact position of old cor. for angle cor. as follows: |
| | Set a limestone, 17 x 10 x 3 ins., 11 ins. in the ground for angle cor., marked A P on W. face and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

| chains | |
|---|---|
| | The bearing of this line is N.0° 35'W., and the distance is 104.38 chs. |
| | --- |
| | From angle point cor. or old cor. of Tps. 18 and 19 S.,R. 4 E., I run |
| | North |
| .90 | Intersect the closing cor. of Tps. 18 and 19 S., R.4 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. |
| | The bearing of this line is North and the distance is .90 chs. |
| | July 21,1915. |
| | --- |
| | I return to the cor. of Tps. 19 and 20 S., R.4 E., heretofore described and survey this Tp. bdy., setting ¼ sec. and sec. cors. at intervals of 40.00 chs. for R.4 E. as follows: |
| | July 22: For solar obsn. see line bet. secs. 2 and 35, S. bdy. of T.19 S.,R.4 E. |
| | From cor. of Tps. 19 and 20 S.,R.4 E., I run |
| | North, on E. bdy. sec. 36, T.19 S.,R.4 E. |
| | Over rough mountainous land draining SE., through scattering patches of aspen timber and dense undergrowth of sage brush and grass. |
| | Ascend over SE. slope of high mountain. |
| 10.75 | Leave aspen, enter scattering jack pine timber, bears E. and W. |
| 17.85 | Top of steep ascent and leave timber, 235 ft. above Tp., cor., bears E. and W. |
| | Gradually ascend across bench. |
| 24.20 | Leave bench and sage brush undergrowth, enter dense aspen timber, bears SE. and W. |
| | Ascend abruptly over S. slope of Ferron mountain. |
| 27.85 | Leave aspen timber, enter chaparral undergrowth, bears E. and W. |

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

| chains | |
|---|---|
| 40.00 | On steep S. slope of mountain, 770 ft. above Tp. cor. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on E. bdy. sec. 36, with brass cap marked<br>S 36¼ \| 1915<br>raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 49.10 | Top of S. brink of Ferron mountain, 245 ft. above ¼ sec. cor. bears E. and W. |
| | Thence across rolling top of mountain. |
| 59.05 | N. brink of mountain, bears E. and W. |
| | Descend abruptly over N. slope. |
| 63.00 | Enter dense pine timber, bears E. and W. |
| 63.08 | The cor. of Tps. 19 and 20 S., R.5 E. heretofore described. |
| | Continue North with continuous chaining. |
| 71.35 | Leave dense timber, bears E. and W. |
| 74.55 | Bottom of ravine and leave timber, 200 ft. below top of mountain, drains E. |
| | Ascend over open S. slope 35 ft. to |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 25 and 36, with brass cap marked<br>T 19 S.<br>R 4 E \| R 5 E<br>S 30<br>S 25 — S 31<br>S 36<br>1915<br>raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rough mountainous with N. and S. exposure and drainage from divide. |
| | Soil, gravelly and rocky with rich black loam on moist sticky clay and gravel sub-soil. |

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Timber, scattering dense patches of aspen and pine. |
| | Undergrowth, sage brush and chaparral. |
| | Considerable grass, good for grazing. |
| | July 22,1915. |
| | --- |
| | July 26: At 8h. a.m. apparent time, I set off 39° 08' on the lat. arc; 19° 37'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25 and 36 |
| | Thence I run |
| | North, on E. bdy. of sec. 25 |
| | Over mountainous land, through undergrowth of grass and weeds. Scattering timber on both sides of line. |
| | Gradually ascend over open S. slope. |
| 23.24 | The ¼ sec. cor. on W. bdy. sec. 31, T.19 S.,R.5 E. |
| | Thence |
| | N.0° 05'W., with continuous chaining. |
| 28.00 | Point of spur on top of mountain, 430 ft. above sec. cor., falls E. |
| | Gradually descend over rolling N. slope. |
| 31.45 | Enter pine timber, bears E. and W. |
| 33.80 | Leave timber, bears NW. and E. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on E. bdy. of secs 25, with brass cap marked<br>S 25 ¼ \| 1915 |
| | from which |
| | A spruce, 8 ins. diam.,bears S.37½°W., 212 lks. dist., marked ¼ S 25 B T |
| | A spruce, 8 ins. diam., bears S.53°W., 226 lks. dist., marked ¼ S 25 B T |
| 41.25 | Brink of Ferron mountain, bears E. and W. |
| | Descend abruptly N. slope over series of blue limestone ledges and shale rock. |
| 50.60 | Base of ledges, bears E. and W. A stream, 2 lks. wide, |

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

chains

1 in. deep, good water, flows NE.

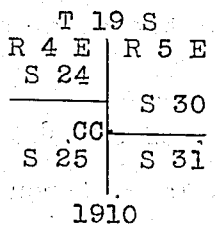
Enter dense pine and spruce timber, bears E. and W.

Thence across small bench.

54.50 Leave bench, bears E. and W.

Descend abruptly over N. slope.

62.68 The closing cor. of secs. 30 and 31, T.19 S.,R.5 E. heretofore described. I remark post to read as follows:




Thence

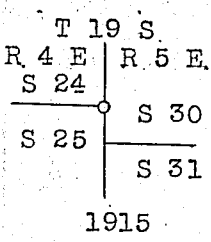
N.0° 15'W., with continuous chaining.

Continue descent.

74.65 Base of steep descent, descend more gradually through dead timber and dense undergrowth, bears E. and W.

80.00 1015 ft. below ½ sec. cor. on N. slope, soft and boggy ground.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 24 and 25, with brass cap marked




from which

A spruce, 9 ins. diam., bears N.60½°W., 44 lks. dist., marked T 19 S R 4 E S 24 B T

A spruce, 8 ins. diam., bears S.27°W., 35 lks. dist., marked T 19 S R 4 E S 25 B T

Land, mountainous, S.½ mile rolling mountain top. N.½ mile very rough. General N. exposure and drainage.

Soil, rich, black mountain loam mixed with loose shales

Retracement and survey of the E. bdy. of T.19 S., R.4 E.

| chains | |
|---|---|
| | and rock on mois t, sticky clay and rocky sub-soil. |
| | Timber, pine and spruce. |
| | Undergrowth, willows, chaparral and weeds. |
| | Considerable grass, good for grazing. |
| | --- |
| | N.0°15'W., on E. bdy. of sec. 24. |
| | Over mountainous land sloping and draining N., through dense spruce and pine timber and undergrowth of weeds, chaparral and scattering willows. |
| | Descend over soft boggy ground. |
| .72 | Base of descent and stream, 8 lks. wide, 4 ins. deep, good clear water, flows NE. |
| | Descend very gradually. |
| 1.20 | The angle point cor. heretofore described. |
| | Thence |
| | N.0°09'W., with continuous chaining. |
| 2.15 | Leave boggy ground, bears NE. and SW. |
| 3.05 | Leave pine and spruce timber, enter scattering aspen groves bear E. and W. |
| 22.20 | Enter dense aspen and scattering pine timber, bears E. and W. |
| 26.25 | Wagon road, Ferron to Mayfield, Utah, bears E. and SW. |
| 36.71 | S. edge of small pond 1½ x 1 chs., bears E. and W. |
| | Enter dense willow undergrowth, bears E. and W. |
| 38.00 | N. edge of pond and leave willow undergrowth, bears E. and W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on E. bdy. sec. 24, with brass cap marked |
| | S 24¼ \| 1915 |
| | from which |
| | An aspen, 14 ins. diam., bears S.81½°W., 22 lks. dist., marked ¼ S 24 B T |
| | An aspen, 16 ins. diam., bears N.61°W., 18 lks. |

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

chains

dist., marked ¼ S 24 B T

Cor. stands on gentle N. slope 210 ft. below sec. cor.

41.31 The angle point cor. or old ¼ sec. cor., bet. sec. 19 and 24.

Thence

N.0°04'W., with continuous chaining.

43.10 Leave aspen timber, enter open flat, bears E. and W.

49.60 Leave flat and enter dense aspen timber, bears E. and W.

53.35 Base of descent, 70 ft. below ¼ sec. cor., gradually ascend over S. slope.

56.45 Small spur, 9 ft. above base of descent , projects E.

Descend abruptly over rocky N. slope.

63.14 The closing cor. of secs. 19 and 30, T.19 S.,R.5 E., bears W. 14 lks. I remark post to read as follows:

T 19 S
R 4 E | R 5 E
S 13 | S 19
S 24 | S 30
CC

1910

71.50 Small pond, 1 ch. wide at base of descent, 240 ft. below spur, bears E. and W.

Thence over nearly level bench.

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

T 19 S
R 4 E | R 5 E
S 13 | S 19
S 24 | S 30

1915

from which

An aspen, 12 ins. diam., bears S.21°W., 49 lks. dist., marked T 19 S R 4 E S 24 B T

An aspen, 8 ins. diam., bears N.23½°W., 19 lks. dist., marked T 19 S R 4 E S 13 B T

Retracement and survey of the E. bdy. of T.19 S., R.4 E.

| chains | |
|---|---|
| | Land, mountainous, general N. exposure and drainage. |
| | Soil, rich, moist, black mountain loam mixed with shales and lime rocks on very moist, clay, packed hard and mixed with gravel. |
| | Timber, aspen, pine and spruce. |
| | Undergrowth, weeds, chaparral and willows. |
| | Considerable grass, good for grazing. |
| | July 26: At this cor. I set off 19° 34'N., on the decl. arc; and at apparent noon observe the sun on the meridian; the resulting lat. is 39° 10'. |
| | --- |
| | N.0° 04'W., on E. bdy. of sec. 13. |
| | Over mountainous bench land, sloping and draining N., through aspen, pine and spruce timber and undergrowth of weeds, chaparral and grass. |
| | Gradually descend. |
| 1.27 | The angle point cor., originally the cor. of secs. 13,18, 19 and 24. |
| | Thence |
| | N.0°12'E., with continuous chaining. |
| 6.85 | Begin abrupt descent over N. slope into Indian Cr. canyon. |
| | Enter scattering willow undergrowth and land subject to slides, bears E. and W. |
| 17.05 | Leave land subject to slides, bears NW. and SE. |
| 32.40 | Bottom of Indian Cr. canyon and stream, 50 lks. wide, 8 ins. deep, good clear water, 555 ft. below sec. cor., flows NE. |
| | Gradually ascend over SE. slope. |
| 40.00 | On SE. slope, 15 ft. above creek. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., on E. bdy. sec. 13, with brass cap marked |
| | S 13¼ \| |
| | 1915 |
| | from which |

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

chains

An aspen, 8 ins. diam., bears S.26½°W., 7 lks. dist., marked ¼ S 13 B T

An aspen, 7 ins. diam., bears N.51½°W., 6 lks. dist., marked ¼ S 13 B T

Continue gradual ascent.

40.73 The angle point cor. originally the ¼ sec. cor. bet. secs. 13 and 18

Thence

N.0°33'W., with continuous chaining.

44.05 Enter sage brush undergrowth, bears E. and W.

56.00 Leave timber, bears E. and W.

61.35 Leave sage brush, enter dense aspen and scattering pine timber, bears E. and W.

62.91 The closing cor. of secs. 18 and 19, T.19 S.,R.5 E., bears W. 28 lks. I remark cor. to read as follows:

T 19 S
R 4 E | R 5 E
S 12 | S 18
CC
S 13 | S 19
1915

70.50 Leave timber, enter sage brush flat, bears E. and W.

76.05 Leave flat, enter dense aspen and scattering pine timber and undergrowth of choke cherry and chaparral.

Ascend.

80.00 On SE. slope, 395 ft. above ¼ sec. cor.

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

T 19 S
R 4 E | R 5 E
S 12 |
S 13 | S 18
S 19
1915

from which

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

| chains | |
|---|---|
| | An aspen, 7 ins. diam.,bears N.44½°W., 30 lks. dist., marked T 19 S R 4 E S 12 B T |
| | An aspen, 8 ins. diam., bears S.60¾°W., 11 lks. dist., marked T 19 S R 4 E S 13 B T |
| | Land, rough mountainous, slopes and drains N. and SE. into Indian Cr. canyon. |
| | Soil, rich black mountain loam and sticky clay mixed with gravel and loose shale rocks on moist, wet clay sub-soil. |
| | Timber, aspen pine and spruce. |
| | Undergrowth, willows, sage, weeds and choke cherry. |
| | Considerable grass, good for grazing. |
| | --- |
| | N.0° 33'W., on E. bdy. sec. 12. |
| | Gradually ascend over mountainous land sloping and draining nearly E., through aspen, scattering pine and spruce timber and undergrowth of grass, weeds and choke cherry brush. |
| .75 | The angle point cor., originally the cor. of secs. 7,12,13 and 18. |
| | Thence |
| | N.0°55'E., with continuous chaining. |
| 5.00 | Enter dense willow undergrowth, bears E. and W. |
| 22.20 | Stream, 1 lk. wide, 1 in. deep, good water, flows E. |
| | Base of steep ascent, bears E. and W. |
| | Ascend abruptly over S. slope. |
| 24.35 | Leave timber and willow undergrowth, bears E. and W. |
| 33.75 | Top of ascent and edge of large bench, 300 ft. above sec. cor., bears NE. and SW. |
| | Thence across nearly level bench through scattering patches of aspen timber and dense undergrowth of sage brush. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on E. bdy. sec. 12, with brass cap marked |
| | S 12 ¼ |

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

chains

from which

An aspen, 8 ins. dia, bears S.12°W., 218 lks. dist., marked ¼ S 12 B T.

No other tree within reasonable distance; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

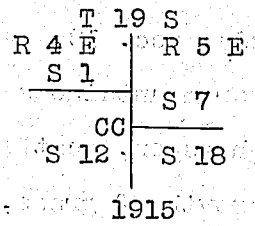
41.05 The angle point cor.,originally the ¼ sec. cor., bet. secs. 7 and 12

Thence

N.0°10'E., with continuous chaining.

Across open sage brush bench.

62.83 The closing cor. of secs. 7 and 18, T.19 S.,R.5 E., bears W. 18 lks. dist.. I remark post to read as follows:




63.75 Edge of bench, bears NW. and SE.

Descend abruptly over N. slope into Ferron Cr. canyon.

65.62 Head of small spring flows NE.

Enter scattering willow undergrowth and dense pine timber, bears NW. and SE.

69.90 Base of steep descent and leave pine timber, enter dense willows and boggy bench land, bears E. and W.

Gradually descend.

72.90 Leave dense willows and boggy land, enter dense aspen timber, choke cherry undergrowth and scattering willows, bears E. and W. Descend abruptly.

75.05 Base of steep descent and leave aspen timber and choke cherry undergrowth, bears E. and W. Enter dense willow undergrowth and boggy land.

77.00 Leave boggy land and dense willow undergrowth, bears E. and W. Descend over N. slope through dense aspen timber and undergrowth of choke cherry, willows and chaparral.

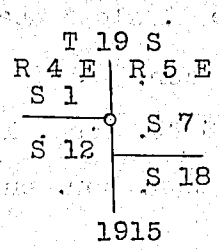
80.00 On N. slope, 320 ft. below ½ sec. cor.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 1 and 12, with brass

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

chains

cap marked




from which

An aspen, 8 ins. diam., bears S.66°W., 11 lks. dist., marked T 19 S R 4 E S 12 B T

An aspen, 5 ins. diam., bears N.50°W., 21 lks. dist., marked T 19 S R 4 E S 1 B T

Land, mountainous and nearly level bench. S. 33.75 chs. mountainous land, slopes and drains SE. into Indian Cr. canyon. Next 30 chs. level bench land on divide between Indian and Ferron Cr. canyon. N.16.25 chs. rough mountainous land, N. exposure and drainage.

Soil of mountainous land rich, moist, black mountain loam mixed with gravel and streaked with rocks on moist, brown sticky clay and gravel sub-soil. Soil of bench, shallow dark brown loam mixed with gravel, rather dry on surface on moist, clay and gravel sub-soil.

Timber, aspen, pine and spruce.

Undergrowth, sage, willows, choke cherry, chaparral and weeds. Good grass for grazing.

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N.0°10'E., on E. bdy. sec. 1

Over rough mountainous land sloping and draining N. into Ferron Cr. canyon through aspen and scattering pine and spruce timber and dense undergrowth of willows, choke cherry, weeds, grass and chaparral.

Gradually descend over N. slope.

1.79 The angle point cor., originally the cor. of secs. 1,6; 7 and 12.

Thence

N.0° 35'W., with continuous chaining.

30.08 Stream, 4 lks. wide, 2 ins. deep, good water, flows E.

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Thence along gentle E. slope near bottom of canyon. |
| 40.00 | 275 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on E. bdy. sec. 1, with brass cap marked<br>S 1¼ \| 1915<br>from which<br>An aspen, 4 ins. diam., bears S.59°W., 16 lks. dist., marked ¼ S 1 B T.<br>A pine, 10 ins. diam., bears N.47°W., 16 lks. dist., marked ¼ S 1 B T |
| 41.20 | Enter scattering red cedar timber, bears E. and W. |
| 41.45 | Bottom of canyon and Ferron Cr., 20 lks. wide, 1 ft. deep, good clear water, in gulch with banks 35 ft. high and subject to slides, flows E. Ascend. |
| 45.00 | Leave red cedar timber, bears E. and W. |
| | Ascend over S. face of high mountain over series of benches. |
| 61.71 | The closing cor. of secs. 6 and 7, T.19 S.,R.5 E. |
| 63.85 | Leave aspen timber, bears E. and W. |
| 65.70 | Enter aspen timber, bears E. and W. |
| 67.50 | Leave aspen timber, bears E. and W. |
| 70.60 | Enter aspen timber, bears E. and W. |
| 72.30 | Leave aspen timber, enter dense willow undergrowth, bears E. and W. |
| 75.00 | Leave willows, bears E. and W. Thence up steep S. slope through scattering pine timber and undergrowth of service brush. |
| 77.25 | Leave service brush, bears E. and W. |
| 78.30 | Top of steep ascent and enter aspen timber, bears E. and W. Gradually ascend. |
| 89.55 | Leave timber, bears NW. and SE. |
| | Gradually ascend through dense sage brush undergrowth |

Retracement and survey of the E. bdy. of T.19 S.,R.4 E.

| chains | |
|---|---|
| 106.17 | The angle point cor., originally the point for cor. of Tps. 18 and 19 S., R 4 E. |
| | Thence |
| | North, with continuous chaining. |
| 107.07 | The closing cor. of Tps. 18 and 19 S., R.4 E. heretofore described. |
| | Cor. stands on rolling mountain top, 775 ft. above Ferron Cr. canyon. |
| | Land, rough mountainous, slopes and drains N. and S. into Ferron creek which flows E. |
| | Soil, rich, black mountain loam mixed with gravel and streaked with rock on very moist, sticky brown clay loam mixed with gravel sub-soil. Land on N. side of canyon subject to slides. |
| | Timber, aspen and scattering pine and spruce. Some red cedar. |
| | Undergrowth, willows, choke cherry, sage brush, service berry brush, weeds and chaparral. |
| | Good grass, suitable for grazing. |
| | July 26,1915. |

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SUBDIVISION OF T.19 S.,R.4 E.

July 23: At 8h. a.m. apparent time, I set off 39° 07' on the lat. arc; 20° 14'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2,35 and 36 on the S. bdy. of the Tp. heretofore described.

(Having retraced the E. bdy. of this Tp. and finding same to be out of limits in alinement I establish a Sectional Guide Meridian on the 1st. meridional line.)

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Thence I run |
| | North, on Sectional Guide Meridian, bet. secs. 35 and 36. |
| | Over mountainous land draining N. into Horse Canyon, through scattering balsam fir and aspen timber and undergrowth of grass, weeds and chaparral. |
| | Gradually ascend. |
| 2.20 | Top of ascent, 10 ft. above sec. cor. |
| | Gradually descend over N. slope. |
| 9.05 | Bottom of Horse canyon and creek, 2 lks. wide, 2 ins. deep, 30 ft. below top of ascent, drains E. |
| | Gradually ascend in bottom of canyon. |
| 14.10 | Leave timber, bears E. and W. |
| 31.50 | Begin abrupt ascent over SE. slope of Hileotrope Mt., bears N.80°E. and SW. Scattering timber on both sides of line. |
| 35.95 | Enter scattering jack pine timber, bears E. and W. |
| 40.00 | On steep S. slope, 465 ft. above canyon. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 35 ¼ \| S 36 |
| | 1915 |
| | from which |
| | A jack pine, 18 ins. diam., bears N.74½°E., 144 lks. dist., marked ¼ S 36 B T |
| | A jack pine, 14 ins. diam., bears S.15½°W., 162 lks. dist., marked ¼ S 35 B T |
| | Leave timber, continue steep ascent. |
| 44.00 | Top of steep ascent, ascend more gradually. |
| 63.90 | Top of Hileotrope mountain and divide between Horse and Indian Creeks, 365 ft. above ¼ sec. cor., bears E. and W. |
| | Descend abruptly over N. slope. |
| 66.50 | Enter dense spruce, pine and balsam fir timber, bears E. and W. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| 80.00 | On N. slope 320 ft. below divide. |
| | 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 f for cor. of secs. 25,26,35 and 36, with brass cap marked |

| T 19 S | R 4 E |
|---|---|
| S 26 | S 25 |
| S 35 | S 36 |

1915

from which

A balsam, 10 ins. diam., bears N.56¼°E., 99 lks. dist., marked T 19 S R 4 E S 25 B T

A pine, 32 ins. diam., bears S.45°E., 14 lks. dist., marked T 19 S R 4 E S 36 B T

A balsam, 10 ins. diam., bears S.69¾°W., 77 lks. dist., marked T 19 S R 4 E S 35 B T

A pine, 20 ins. diam., bears N.57½°W., 93 lks. dist., marked T 19 S R 4 E S 26 B T

Land, rough broken mountainous slopes N. and S. from divide and ridge into canyons draining E.

Soil, rich, black mountain loam mixed with loose shales and limestone rocks on moist, brown clay sub-soil.

Timber, pine, balsam fir, aspen, jack pine and spruce.

Undergrowth, weeds and chaparral.

Good grass, suitable for grazing.

July 23: At this cor., I set off 20° 12' N., on the decl. arc; and at apparent noon observe the sun on the mer,; the resulting lat. is 39° 08'.

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

40.00 Set temp. ¼ sec. cor.

79.81 Intersect E. bdy. of the Tp. 5 lks. N. of the cor. of secs. 25 and 36.

Thence

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

chains

Over mountainous land through undergrowth of grass and weeds.

Gradually ascend along S. slope on N. Side near bottom of ravine.

7.00 Ravine, drains SE. Ascend abruptly over nearly E. slope.

26.70 Top of ascent and edge of Fewron mountain, 215 ft. above ravine, bears NE. and SW.

Enter scattering jack pine timber, bears NE. and SW.

Gradually descend over W. slope, rolling mountain top.

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

S 25
¼
S 36
1915

from which

A pine, 8 ins. diam., bears S.6¾°W., 81 lks. dist., marked ¼ S 36 B T.

A pine, 6 ins. diam., bears N.86°W., 150 lks. dist., marked ¼ S 25 B T.

40.35 W. brink of mountain, 20 ft. below E. brink, bears NE. and SW.

Enter pine, spruce and balsam fir timber, bears NE. and SW.

Descend abruptly over NW. slope.

55.50 Ravine, 160 ft. below brink of mountain, drains NW.

Ascend abruptly over NE. slope.

63.30 Rocky spur, 90 ft. above ravine, projects N.

Descend abruptly over NW. slope.

71.50 Bottom of ravine and stream, 2 lks. wide, 1 in. deep, good water, flows NW., 185 ft. below spur.

Gradually ascend over NE. slope 40 ft. to

76.75 Small spur, projects N.

Descend 10 ft. to

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

Land, mountainous, slopes and drains from high ridge divide at 26.70 chs. and 40.35 chs.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Soil, rich, moist dark brown mountain loam mixed with shales and limestone rock on sub-soil of dark brown clay, very moist, packed hard and mixed with rock. |
| | Timber, balsam fir, pine and spruce. |
| | Undergrowth, weeds and chaparral. |
| | Considerable grass, good for grazing purposes. |
| | Storm of rain prevents further field work at 3:30 p.m. on this day. |
| | July 23,1915. |
| | --- |
| | July 27: At the cor. of secs. 25,26,35 and 36, I set off 19° 22'N., on the decl. arc; and at apparent noon, observe the sun on the meridian; the resulting lat. is 39° 08' |
| | North, on Sectional Guide Meridian., bet. secs. 25 and 26 |
| | Over rough mountainous land, facing and draining N., throu dense spruce and balsam fir timber and undergrowth of chaparral, grass and weeds. |
| | Descend abruptly over N. slope. |
| 9.50 | Stream, 1½ lks. wide, 1 in. deep, good water, flows NE. |
| 13.00 | Same stream, flows NW. |
| | Thence along steep W. slope. |
| 21.00 | Descend abruptly over N. slope. |
| 24.25 | Leave dense timber, gradually descend over NW. slope through scattering timber and dense undergrowth of grass. |
| 40.00 | On nearly N. slope 635 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground to solid rock and in a mound of stone for ¼ sec. cor., with brass cap marked |

S 26 ¼ | S 25

1915

from which

A balsam, 7 ins. diam., bears S.38½°E., 210 lks.

Subdivision of T.19 S.,R.4 E.

chains

dist., marked ¼ S 25 B T.

A balsam, 9 ins. diam., bears N.50½°W., 281 lks. dist., marked ¼ S.26 B T

43.55 Stream, 1½ lks, wide, 1½ ins. deep, good water, flows NW.

48.05 Enter dense aspen and spruce timber, bears E. and W.

63.25 Road, Ferron to Mayfield, Utah, bears E. and W.

76.30 Head of spring, 3 lks. wide, 2 ins. deep, flows NW.

78.30 Stream, 2 lks. wide, 2 ins. deep, flows NW.

80.00 On N. slope 385 ft. below ¼ sec. cor.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 23,24,25 and 26, with brass cap marked

| T 19 S | R 4 E |
|---|---|
| S 23 | S 24 |
| S 26 | S 25 |

1915

from which

A balsam, 7 ins. diam., bears N.39½°E., 23 lks. dist., marked T 19 S R 4 E S 24 B T

An aspen, 8 ins. diam., bears S.22½°E., 101 lks. dist., marked T 19 S R 4 E S 25 B T

A balsam, 34 ins. diam., bears S.60½°W., 53 lks. dist., marked T 19 S R 4 E S 26 B T

A spruce, 22 ins. diam., bears N.67°W., 44 lks. dist., marked T 19 S R 4 E S 23 B T

Land, rough mountainous, general N. exposure and drainage.

Soil, rich, black mountain loam mixed with gravel on sub-soil of rich, moist dark loam, very moist and packed hard and mixed with gravel.

Timber, balsam fir, spruce, pine and some aspen.

Undergrowth, weeds andchaparral.

Considerable grass, good for grazing.

July 27,1915.

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July 28: At 7h. a.m. apparent time, I set off 39°09' on the lat. arc; 19°11'N., on the decl. arc; and determine

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | a meridian with the solar at the cor. of secs. 23,24,25 and 26. |
| | Thence I run |
| | S.89° 58'E., on a random line bet. secs. 24 and 25 |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.64 | Intersect E. bdy. of the Tp. 5 lks. S. of the cor. of secs. 24 and 25 |
| | Thence |
| | West, on a true line bet. secs. 24 and 25. |
| | Over mountainous land facing and draining N., through dense spruce and pine timber and scattering aspen and under-growth of willows, chaparral, grass and weeds. |
| | Along nearly N. slope over boggy ground. |
| .62 | Stream, 4 lks. wide, 3 ins. deep, drains N. |
| | Leave boggy ground, bears N. and S. Gradually ascend. |
| 1.60 | Leave dense timber, bears N. and S. |
| 10.85 | Enter dense timber, bears N. and S. |
| 14.75 | Top of ascent on N. slope, 55 ft. above stream. |
| | Continue along nearly N. slope. |
| 19.25 | Thence over rolling bench land. |
| 21.65 | Leave dense timber, bears N. and S. Thence over open land. |
| 27.75 | Enter dense timber, bears N. and S. |
| 34.65 | Stream, 2 lks. wide, 1 in. deep, good water, flows N. Head of spring bears S. about 30 lks. |
| 35.30 | Leave dense spruce and balsam fir timber, bears N. and S. |
| | Thence through pine and aspen timber. |
| 39.82 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

S 24
¼
S 25
1915

from which

A spruce, 12 ins. diam., bears S.57½°E., 40 lks. dist., marked ¼ S 25 B T

An aspen, 10 ins. diam., bears N.5¾°W., 22 lks. dist., marked ¼ S 24 B T.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Gradually descend. |
| 55.05 | Wagon road from Ferron to Mayfield, Utah, bears NE. and SW. |
| 57.40 | Stream, 1 lk. wide, 1 in. deep, flows NW. |
| 69.50 | Enter dense timber, bears N. and S. |
| 75.50 | Descend abruptly over W. slope. |
| 79.64 | 310 ft. below ¼ sec. cor. The cor. of secs. 23,24,25 and 26 |
| | Land, mountainous , slopes and drains to the N. |
| | Soil, rich black mountain loam mixed with gravel on subsoil of rich, moist, dark brown loam, very moist and and mixed with gravel. |
| | Timber, aspen, pine, spruce and balsam fir. |
| | Undergrowth, willow, weeds and chaparral. |
| | Considerable grass, good for grazing. |
| | --- |
| | North, on Sectional Guide Meridian, bet. secs. 23 and 24 |
| | Over mountainous land draining N., through dense spruce, pine and aspen timber and undergrowth of chaparral and weeds. |
| | Gradually descend along E. side of stream. |
| 2.20 | Stream, 4 lks. wide, 2½ ins. deep, good water, flows NW. |
| 4.60 | Same stream, flows NE. |
| 7.95 | Same stream. flows W. |
| 9.65 | Leave dense timber, bears NE. and W. |
| 12.15 | Same stream, flows NE. |
| 14.05 | Enter dense timber, bears NE. and SW. |
| 15.60 | Creek, 5 lks. wide, 6 ins. deep, good water, flows NW. |
| | Enter dense willow undergrowth, bears NE. and SW. |
| 19.05 | Leave willow undergrowth, bears NE. and SW. |
| 24.60 | Creek, 6 lks. wide, 3 ins. deep, good water, flows NE., also base of descent, 150 ft. below sec. cor. |
| | Gradually ascend over SE. slope. |
| 27.70 | Spur, 20 ft. above stream, projects NE. |
| | Gradually descend over N. slope. |
| 28.50 | Leave timber, bears E. and W. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| 32.50 | Stream, 1 lk. wide, 1 in. deep, flows E. |
| 32.65 | Enter aspen and scattering pine and balsam fir timber, bears E. and W. |
| 40.00 | On N. slope, 75 ft. below spur. |
| | 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 |
| | S 23 ¼ \| S 24 |
| | 1915 |
| | from which |
| | A balsam, 8 ins. diam., bears S.57½°E., 23 lks. dist., marked ¼ S 24 B T |
| | An aspen, 10 ins. diam., bears N.84½°W., 33 lks. dist., marked ¼ S 23 B T |
| 47.90 | Leave timber, bear E. and W. |
| | July 28: At this station, I set off 19°07'N., on the decl. arc; and at apparent noon observe the sun on the meridian the resulting lat. is 39°10' which is 1' higher than the proper latitude. |
| 49.10 | Enter dense willow undergrowth and boggy ground, bears E. and W. |
| 50.38 | Stagnant pond, bears E. about 2 and W. about 2 chs. |
| | Thence across pond. |
| 55.38 | N. bank of pond, bears SE. and SW. |
| 59.40 | Enter dense aspen, pine, spruce and balsam fir timber, bears E. and W. |
| 63.45 | Indian Cr. in bottom of wide canyon, 20 lks. wide, 12 ins. deep, good water, 110 ft. below ¼ sec. cor., flows E. |
| | Leave dense timber, ascend abruptly over S. slope. |
| 71.15 | Enter scattering sage brush, bears E. and W. |
| 74.25 | Top of steep ascent, bears E. and W. |
| | Enter scattering jack pine timber. Gradually ascend over rolling bench. |

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| 79.75 | Stream, 2 lks. wide, 1 in. deep, good water, flows SE. |
| 80.00 | On S. slope of bench, 220 ft. above Indian Cr. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 13,14,23 and 24, with brass cap marked |

| T 19 S | R 4 E |
|---|---|
| S 14 | S 13 |
| S 23 | S 24 |

1915

from which

An aspen, 4 ins. diam., bears N.½°E., 103 lks. dist., marked T 19 S R 4 E S 13 B T

A jack pine, 6 ins. diam., bears S.21½°E., 142 lks. dist., marked T 19 S R 4 E S 24 B T

An aspen, 8 ins. diam., bears S.81½°W., 142 lks. dist., marked T 19 S R 4 E S 23 B T

An aspen, 8 ins. diam., bears N.24½°W., 161 lks. dist., marked T 19 S R 4 E S 14 B T

Land, mountainous, slopes and drains N. and S. to Indian Creek.

Soil, rich, black mountain loam, mixed with gravel and streaked with rocks on sub-soil of dark brown loam, very moist and packed hard and mixed with rock.

Timber, aspen, balsam fir, pine, spruce and jack pine.

Undergrowth, willow, chaparral, sage brush and weeds.

Good grass for grazing.

---

East, on a random line bet. secs. 13 and 24

| | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |
| 79.44 | Intersect E. bdy. of the Tp. at the cor. of secs. 13 and 24, heretofore described. |

Thence

West, on a true line bet. secs. 13 and 24

Over mountainous land draining N., through dense aspen, pine, balsam fir and spruce timber and undergrowth of chaparral, weeds and grass.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Gradually descend. |
| .35 | Stream, 2 lks. wide, 2 ins. deep, good water, flows N. |
| | Gradually ascend. |
| 7.40 | Top of ascent 15 ft. above stream, bears N. and S. |
| | Descend abruptly over NW. slope. |
| 16.45 | Small stream, 2 lks. wide, 1 in. deep, good water, flows NW. |
| 19.05 | Stream, 1 lk. wide, 1 in. deep, good water, flows N. |
| | Base of descent, 80 ft. below top of ascent, bears N. and S. |
| | Ascend over NE. slope. |
| 21.45 | Top of ascent, 20 ft. above stream, bears N. and S. |
| | Leave dense timber, bears N. and S. Gradually descend over NW. slope. |
| 33.10 | Enter dense spruce and pine timber, bears N. and S. |
| 39.44 | On NW. slope, 135 ft. below top of ascent. |
| | 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., with brass cap marked |
| | S 13 / ¼ / S 24 / 1915 |
| | from which |
| | An aspen, 10 ins. diam., bears S.20¾°E., 25 lks. dist., marked ¼ S 24 B T |
| | An aspen, 8 ins. diam., bears N.20½°W., 24 lks. dist., marked ¼ S 13 B T |
| 42,00 | Indian Creek, in large wide canyon, creek 30 lks. wide 12 ins. deep, in wash with 30 ft. banks, 35 ft. below ¼ sec. cor., flows N. |
| | Leave dense pine and spruce timber, bears N. and S. |
| | Ascend abruptly over NE. slope. |
| 49.05 | Enter scattering spruce and jack pine timber, bears N. and S. |
| 70.40 | Top of steep ascent, 415 ft. above creek, bears NE. and |

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Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | SW. |
| | Gradually ascend over rolling SE. slope of bench. |
| 73.50 | Leave timber, enter open sage brush flat, bears N. and S. |
| 78.50 | Top of ascent, 15 ft. above top of steep ascent, bears N. and S. |
| | Gradually descend 10 ft. to |
| 79.44 | The cor. of secs. 13,14,23 and 24. |
| | Land, mountainous slopes and drains NW. into Indian Cr. on E. 42.00 chs. and SE. into same creek on W. 37.44 chs. |
| | Soil, rich, dark brown mountain loam, mixed with gravel and streaked with rocks on sub-soil of rich black loam, very moist and packed hard, also mixed with gravel and rocks. |
| | Timber, aspen, pine, balsam fir and spruce. |
| | Undergrowth, sage, willows, chaparral and weeds. |
| | Good grass for grazing. |
| | July 28,1915. |
| | --- |
| | July 29: At 8h. a.m. apparent time, I set off 39°10' on the lat. arc; 18° 57'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14,23 and 24. |
| | Thence I run |
| | North, on Sectional Guide Meridian, bet. secs. 13 and 14. |
| | Over mountainous land draining SE., through scattering groves of aspen and scattering pine and spruce timber and undergrowth of chaparral, grass and weeds. |
| | Gradually ascend over rolling bench. |
| 22.65 | Enter dense willow patch, bears NW. and SE. |
| 23.65 | Leave dense willow patch, bears NW. and SE. |
| 26.15 | Enter dense willow undergrowth, also dense aspen timber, bears E. and W. |
| 36.30 | Leave dense willows, bears E. and W. |
| 37.45 | Enter scattering jack pine timber, bears E. and W. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| 40.00 | On SE. slope of mountain, 95 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<br>S 14 ¼ \| S 13<br>1915<br>from which<br>A pine, 12 ins. diam., bears S.85½°E., 40 lks. dist., marked ¼ S 13 B T<br>A spruce, 16 ins. diam., bears N.82½°W., 54 lks. dist., marked ¼ S 14 B T |
| | Continue gradual ascent. |
| 53.35 | Leave aspen timber and willows, bears E. and W. |
| 56.50 | The S. end of a lake, extending about 2 chs. E. and W. and 10 chs. N. and S. bears E. abput 5 chs. |
| 60.20 | Enter aspen timber, bears E. and W. |
| 66.60 | The S. end of a small lake, extending E. and W. about 1½ chs. and N. and S. about 2 chs., bears E. about 10 chs. |
| 71.25 | Leave aspen timber, bears E. and W. |
| | Ascend abruptly over SE. slope of high ridge, bears NE. and SW. |
| 77.90 | Enter aspen timber, bears E. and W. |
| 80.00 | On SE. slope of high ridge, 465 ft. above ¼ sec. cor. 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<br>T 19 S \| R 4 E<br>S 11 \| S 12<br>S 14 \| S 13<br>1915<br>from which<br>An aspen, 4 ins. diam., bears N.9°E., 16 lks. dist., marked T 19 S R 4 E S 12 B T<br>An aspen, 6 ins. diam., bears S.72°E., 91 lks. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | dist., marked T 19 S R 4 E S 13 B T |
| | An aspen, 16 ins. diam., bears S.76½°W.,70 lks. dist., marked T 19 S R 4 E S 14 B T |
| | An aspen, 6 ins. diam., bears N.81°W., 63 lks. dist., marked T 19 S R 4 E S 11 B T |
| | Land, mountainous, slopes and drains SE. |
| | Soil, rich, dark brown mountain loam, mixed with gravel and streaked with rock on sub-soil of rich, black loam very moist and packed hard with gravel and rocks. |
| | Timber, aspen, scattering pine and spruce. |
| | Undergrowth, willows, chaparral and weeds. |
| | Good grass for grazing. |
| | July 29: At this cor. I set off 18° 53'N., on the decl. arc; and at apparent noon observe the sun on the meridian; the resulting lat. is 39° 10'. |
| | East, on a random line bet. secs. 12 and 13. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.27 | Intersect E. bdy. of the Tp. 5 lks. N. of the cor. of secs. 12 and 13. |
| | Thence |
| | N.89° 58'W., on a true line bet. secs. 12 and 13 |
| | Over mountainous land through aspen and scattering pine and spruce timber and undergrowth of chaparral, grass and weeds. |
| | Ascend over E. and SE. slopes of bench. |
| 23.35 | Top of bench, 385 ft. above sec. cor., bears NE. and SW. |
| | Leave aspen timber and enter open sage brush flat, bears NE. and SW. Thence across flat or bench. |
| 32.35 | Enter aspen and pine timber, leave sage brush, bears N. and S. Gradually ascend. |
| 39.27 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ½ sec. cor., with brass cap marked |

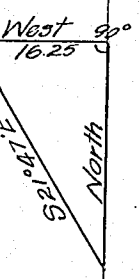
S 12
¼

S 13
1915

| chains | |
|---|---|
| | from which |
| | An aspen, 6 ins. diam., bears N.6°E., 29 lks. dist., marked ¼ S 12 B T |
| | An aspen, 16 ins. diam., bears S.67°E., 13 lks. dist., marked ¼ S 13 B T |
| 48.60 | Leave aspen timber, enter sage brush opening, bears N. and S. |
| 56.00 | Leave opening, enter aspen timber, bears N. and S. |
| 61.70 | Base of steep ascent, bears N. and S. A small lake, bears S. about 4 chs. |
| | Ascend abruptly. |
| 64.45 | Leave aspen timber, enter sage brush, bears N. and S. |
| 66.45 | Top of steep ascent, ascend more gradually over broken E. slope of ridge. |
| 69.45 | Leave aspen timber, bears N. and S. |
| 73.55 | Base of steep ascent, bears NE. and S. Ascend abruptly. |
| 78.05 | Enter aspen timber, bears N. and S. |
| 79.27 | 510 ft. above the ¼ sec. cor. The cor. of secs. 11,12, 13 and 14 |
| | Land, mountainous and rolling bench lands, general SE. exposure and drainage. |
| | Soil, rich, black mountain loam, mixed with gravel and loose shales on sub-soil of sticky, wet brown loam, packed hard and mixed with gravel. |
| | Timber, aspen and scattering pine and spruce. |
| | Undergrowth, sage, chaparral and weeds. |
| | Good grass for grazing. |
| | July 29,1915. |
| | --- |
| | July 30: At 8h. a.m. apparent time., I set off 39°10' on the lat. arc; 18° 42'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 11,12,13 and 14. |
| | Thence I run |
| | North, on Sectional Guide Meridian, bet. secs. 11 and 12 |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Over rough mountainous land draining SE., through aspen and scattering pine timber and undergrowth of chaparral, weeds and grass. |
| | Ascend over SE. slope of ridge. |
| 10.15 | Begin very steep ascent over SE. slope, bears NE. and SW. |
| 12.75 | Leave timber, bears NE. and SW. Thence over barren slope. |
| 19.41 | Top of high ridge and point of mountain, divides Indian and Ferron Cr. canyons, 375 ft. above sec. cor., bears N.80°E. and SW. |
| | Precipitous descent over N. slope of mountain over series of ledges, down which I cannot chain. To determine the distance, I triangulate as follows: Set a flag on line North at the nearest point from which a base can be measured, and erect a flag at this point. From N. flag, I measure a base line, west 16.25 chs. to a point whence flag on ridge bears S.21° 47'E. Tan. 68° 13' x base or 2.50229 x 16.25 gives 40.66 chs., which added to 19.41 chs. gives |
| 60.07 | To point of triangulation. I now measure south 20.07 chs. 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 |




S ¼ 11 | S 12

1915

from which

Balsam, 8 ins. diam., bears S.31°E., 34 lks. dist., marked ¼ S 12 B T

A pine, 8 ins. diam., bears N.37½°W., 170 lks. dist., marked ¼ S 11 B T

The topography N. from the 19.41 ch. point on this line reads approximately as follows:

Abrupt descent over ledges and slide rock at NE. point of mountain.

| | |
|---|---|
| 20.50 | Limestone ledge, 50 ft. high, bears E. about 5 chs. and |

Subdivision of T.19 S.,R.4 E.

chains

2 chs. NW.

29.00 Base of ledges and slide rock, bear NW. and SE.

Thence across W. end of basin, scattering pine, spruce and aspen timber.

38.00 Leave basin, bears NE. and SW. Ascend 15 ft. to

40.00 The ¼ sec. cor., 1120 ft. below top of ridge.

43.00 Spur, on W. rim of basin, projects NE., 40 ft. above ¼ sec. cor.

Descend over N. slope

48.30 Enter dense aspen and pine timber, bears E. and W.

53.80 Leave timber, enter opening, bears E. and W.

61.35 Leave opening, enter dense aspen and scattering pine timber, bears E. and W,

63.30 Descend abruptly.

65.45 Base of abrupt descent, descend more gradually.

80.00 On N. slope, 535 ft. below spur.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 1,2,11 and 12, with brass cap marked

| T 19 S | R 4 E |
|---|---|
| S 2 | S 1 |
| S 11 | S 12 |

1915

from which

An aspen, 8 ins. diam., bears N.43°E., 65 lks. dist., marked T 19 S R 4 E S 1 B T

An aspen, 8 ins. diam., bears S.25°E., 40 lks. dist., marked T 19 S R 4 E S 12 B T

An aspen, 8 ins. diam., bears S.61½°W., 146 lks. dist., marked T 19 S R 4 E S 11 B T

An aspen, 9 ins. diam., bears N.76°W., 183 lks. dist., marked T 19 S R 4 E S 2 B T

Land, rough mountainous, SE. exposure and drainage from ridge on S.19.40 chs. and general N. exposure and drainage on N. 60.60 chs.

Soil, rich, black mountain loam, mixed with gravel and

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | streaked with rocks on sub-soil of wet black loam, packed hard and mixed with gravel. |
| | Timber, aspen, pine and spruce. |
| | Undergrowth, chaparral, and weeds. |
| | Good grass for grazing. |
| | July 30: Not on line at noon this date, obsn. for lat. is impossible. |
| | --- |
| | S.89° 58'E., on a random line bet. secs. 1 and 12 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.02 | Intersect E. bdy. of the Tp. 7 lks. N. of the cor. of secs. 1 and 12. |
| | Thence |
| | N.89° 55'W., on true line bet. secs. 1 and 12 |
| | Over mountainous land draining N., through dense aspen timber and undergrowth of chaparral, choke cherry and weeds. |
| | Ascend abruptly over NE. slope. |
| 2.75 | Leave aspen timber, bears N. and S. |
| 4.55 | Spur, 70 ft. above cor., projects N. Enter dense aspen timber, bears N. and S. Descend. |
| 6.65 | Head of ravine, 20 ft. below spur, drains N. |
| | Enter dense willow undergrowth, bears N. and S. Ascend. |
| 7.70 | Leave dense willow undergrowth, bears N. and S. |
| 9.00 | Spur, 35 ft. above ravine, projects NW. Descend. |
| 10.90 | Leave dense aspen timber and enter dense willow undergrowth, bears NW. and SE. |
| 14.50 | Begin steep ascent over NE. slope, bears NW. and SE. |
| 16.05 | Leave dense willow undergrowth, bears NW. and SE. |
| 21.50 | Top of steep ascent and edge of bench, leave practically all timber, bears NW. and SE., 260 ft. above base of steep ascent. |
| | Thence over rolling sage brush bench. |
| 24.20 | Enter dense aspen timber, bears NW. and SE. Gradually ascend. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| 30.70 | Low spur, projects NE. Gradually descend. |
| 33.95 | Base of small cove, 15 ft. below spur, bears NW. and SE. |
| | Thence over land slopng N. |
| 34.45 | Small stream, 2 lks. wide, 2 ins. deep, drains NW. |
| | Gradually ascend. |
| 35.95 | Spur, 20 ft. above base of cove, projects NW. |
| | Leave timber, gradually descend over open NW. slope. |
| 39.85 | Enter aspen timber and dense undergrowth of willows, bears NE. and SW. |
| 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 |
| | $\frac{S\ 1}{\frac{1}{4}}$ ✓ |
| | S 12<br>1915 |
| | from which |
| | An aspen, 7 ins. diam., bears N.9°E., 19 lks. dist. marked ¼ S 1 B T. ✓ |
| | An aspen, 7 ins. diam., bears S.35°W., 31 lks. dist., marked ¼ S 12 B T ✓ |
| | Cor. stands on nearly N. slope in edge of willows, 50 ft. below spur. |
| 43.10 | Stream, 4 lks. wide, 2 ins. deep, drains NE. |
| 44.20 | Leave dense willows, bears NW. and SE. |
| 46.20 | Small willow patch, 1 ch. wide, bears N. and S. |
| 48.50 | Willow patch, 50 lks. wide, bears N. and S. |
| 52.65 | Willow patch, 1 ch. wide, bears N. and S. |
| 53.55 | Swale, drains N. |
| 69.00 | Stream, 2 lks. wide, 2 ins. deep, drains N. |
| | Ascend abruptly over E. slope. |
| 71.55 | Spur, 50 ft. above stream, projects N. |
| | Gradually descend 100 ft. to |
| 80.02 | The cor. of secs. 1,2,11 and 12. |
| | Land, mountains; general N. exposure and drainage. |
| | Soil, rich black mountain loam, mixed with gravel on |

Subdivision of T.19 S., R.4 E.

chains

sub-soil of black loam, very moist and packed hard.

Timber, aspen, pine and some spruce.

Undergrowth, willows, sage, chaparral, grass and weeds.

Good grazing.

July 30,1915.

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August 2: At 9h. a.m. apparent time, I set off 39° 11' on the lat. arc; 17° 57' N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1,2,11 and 12.

Knowing that closing cors. will be necessary upon the N. bdy. of the Tp., I run

North, on true line bet. secs. 1 and 2

Gradually descend over rolling mountainous land sloping N., through dense aspen timber and undergrowth of weeds, chaparral and grass.

12.80 Leave timber, enter dense willow undergrowth bears E. about 5 and W. about 10 chs.

16.25 Bottom of wide canyon and Ferron Cr., 13 lks. wide, 10 ins. deep, good water, 170 ft. below sec. cor., flows E.

Gradually ascend.

16.90 Leave willows, enter scattering aspen timber, bears E. and W.

27.80 Small bog, 50 lks. wide, bears E. and W.

28.95 Willow patch, 1 ch. wide and 1½ chs. long, bears E. and W.

40.00 On S. slope, 180 ft. above creek.

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

S ½ 2 | S 1

1915

from which

An aspen, 16 ins. diam., bears S.82½°E., 23 lks. dist., marked ¼ S 1 B T

An aspen, 10 ins. diam., bears N.47°W., 37 lks.

Subdivision of T.19 S.,R.3 E.

| chains | |
|---|---|
| | dist., marked $\frac{1}{4}$ S 2 B T. |
| | August 2: The sky is overcast at noon, obs. for lat. is impossible. |
| | Continue ascent. |
| 52.60 | Willow patch, 1 ch. x $\frac{1}{2}$ ch., bears E. and W. |
| 61.35 | Enter dense aspen timber and willow undergrowth, bears E. and W. |
| 65.75 | Leave willow undergrowth, bears NE. and SW. |
| 71.45 | Enter dense willow undergrowth, bears NW. and SE. |
| 74.10 | Leave aspen timber and willow undergrowth, enter pine timber, bears NW. and SE. |
| 77.90 | Leave dense pine timber, enter dense aspen and scattering pine timber, bears E. and W. |
| 78.80 | Begin abrupt ascent. |
| 80.70 | Top of steep ascent, ascend more gradually over bench, bears NE. and SW. |
| 82.30 | Top of bench, bears NE. and SW. Thence on near level line. |
| 87.20 | Begin abrupt ascent. |
| 94.65 | Top of ascent, 450 ft. above $\frac{1}{4}$ sec. cor., bears NE. and SW. |
| | Gradually descend. |
| 96.60 | Base of descent, 25 ft. below top of ascent, gradually ascend over SE. slope. |
| 97.34 | Leave aspen and pine timber, enter dense willow undergrowth bears NW. and SE. |
| 99.00 | Leave willow undergrowth, bears NW. and SE. |
| | Gradually ascend over open slope. |
| 106.99 | In edge of dense willows, bears NW. and SE. |
| | Intersect N. bdy. of the Tp. 1.54 chs. W. of the cor. of secs. 1,2,35 and 36 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. At intersection |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 1 and 2 , with brass cap marked |

Subdivision of T.19 S., R.4 E.

chains

T 18 S
S 35 | S 36
R 4 E CC
S 2 | S 1
T 19 S
1915

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

I destroy all marks on old cor. referring T.19 S.

Land, rolling and rough mountainous slopes and drains N. and S. into Ferron Cr. which flows E.

Soil, rich black mountain loam mixed with loose shales and rocks on sub-soil of rich black loam, very moist and packed hard.

Timber, aspem, scattering pine and spruce.

Undergrowth, willows, chaparral, weeds and grass.

Good grazing.

August 2,1915.

---

July 24: At 8h. a.m. apparent time, I set off 39°07' on the lat. arc; 20° 02'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2,3,34 and 35 on the S. bdy. of the Tp. heretofore described.

Thence I run

N.0°01'W., bet. secs. 34 and 35

Over mountainous land draining E., near W. end of large basin at base of high ridge of Hileotrope mountain, through dense spruce, pine and balsam fir timber and undergrowth of chaparral, grass and weeds.

Gradually descend.

18.80 Base of descent, 60 ft. below sec. cor. Gradually ascend over SE. slope.

34.35 Leave basin, begin steep ascent over S. slope of ridge.

Leave dense timber, enter slide rock 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

S 34 | S 35
¼ 1915

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | from which |
| | A balsam, 8 ins. diam., bears S.39½°E., 25 lks. dist., marked ¼ S 35 B T |
| | A spruce, 24 ins. diam., bears S.81°W., 157 lks. dist., marked ¼ S 34 B T |
| | July 24: Sky overcast at noon, obs. for lat. is impossible. Intermittent showers of rain in a.m. have delayed work. |
| | Cor stands on S. slope of mountain, 190 ft. above base of ascent. |
| 42.40 | Pinnacle, 30 ft. high, 10 ft. wide, on line. |
| 47.00 | Leave all timber and undergrowth, bears E. and W. |
| | Thence over barren slope of mountain, void of any vegetation. |
| 50.00 | Top of ridge and Hileotrope mountain, divide between Horse and Indian Creeks, elevation approximately 12,000 ft., 325 ft. above ¼ sec. cor., bears E. and W. |
| | The W. end of cabin at an old saw mill bears N.21°06'E. |
| | Descend abruptly over N. slope of mountain, loose shales and slide rock. |
| 55.10 | Enter scattering pine timber, bears E. and W. |
| 59.90 | Base of slide rock and enter dense timber, bears E. and W. |
| | Thence across small bench. |
| 63.65 | Leave bench, bears E. and W. Descend abruptly over N. slope. |
| 80.00 | On steep N. slope, 800 ft. below divide and on W. edge of large rocky wash. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 26,27,34 and 35, with brass cap marked |

| T 19 S | R 4 E |
|---|---|
| S 27 | S 26 |
| S 34 | S 35 |

1915

from which

A spruce, 18 ins. diam., bears N.25½°E., 21 lks.

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| | dist., marked T 19 S R 4 E S 26 B T ✓ |
| | A spruce, 9 ins. diam., bears S.65°E., 15 lks. |
| | dist., marked T 19 S R 4 E S 35 B T ✓ |
| | A spruce, 18 ins. diam., bears S.77¾°W., 100 lks. |
| | dist., marked T 19 S R 4 E S 34 B T ✓ |
| | A spruce, 18 ins. diam., bears N.55°W., 99 lks. |
| | dist., marked T 19 S R 4 E S 27 B T ✓ |
| | Land, rough mountains, slopes and drains S. from divide on S. 50.00 chs. and N. on N. 30 chs. |
| | Soil, rocky and some black loam on sub-soil of rocks and sticky clay loam, packed hard and very moist. |
| | Timber, pine, spruce and balsam fir. |
| | Undergrowth, chaparral, grass and weeds. |
| | Fair grazing. |
| | July 24,1915. |
| | --- |
| | July 27: At 8h. a.m. apparent time, I set off 39°08' on the lat. arc; 19° 25'N., on the decl. arc; and determine a meridian with a solar at the cor. of secs. 26, 27,34 and 35. |
| | Thence I run |
| | East, on a random line bet. secs. 26 and 35 |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.88 | Intersect N. and S. line, 7 lks. S. of the cor. of secs. 25,26,35 and 36. |
| | Thence |
| | S.89°57'W., on true line bet. secs. 26 and 35 |
| | Over mountainous land on N. slope of Hileotrope mountain, through dense pine, spruce and fir timber and undergrowth of chaparral, grass and weeds. |
| | Gradually descend over NW. slope. |
| 2.50 | Base of descent and stream, 2 lks. wide, 3 ins. deep, good water, flows N. Ascend abruptly over NE. slope. |
| 6.60 | Top of ascent, 80 ft. above base of descent, bears N. |

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| | and S., also stream, 2 lks. wide, 2 ins. deep, flows NE. |
| | Descend over NW. slope. |
| 18.50 | Stream, 1 lk. wide, ½ in. deep, flows NW. |
| 21.20 | Bottom of descent and canyon, 145 ft. below top of ascent, drains N. Ascend. |
| 24.75 | Stream, 2 lks. wide, 1 in. deep, flows NE. |
| 27.25 | Stream, 2 lks. wide, 1 in. deep, good water, flows NE., heads about 25 lks. S. |
| 29.65 | Top of spur, 105 ft. above canyon, projects N. |
| | Gradually descend. |
| 30.45 | Stream, 4 lks. wide, 3 ins. deep, flows NE. |
| 39.94 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 26 / ¼ / S 35 / 1915 |
| | from which |
| | A spruce, 18 ins. diam., bears N.11°E., 40 lks. dist., marked ¼ S 26 B T |
| | A spruce, 30 ins. diam., bears S.11°E., 59 lks. dist., marked ¼ S 35 B T |
| 40.25 | Stream, 3 lks. wide, 3 ins. deep, flows N. |
| 79.10 | Rocky wash, 40 lks. wide, 3 ft. deep, drains N. |
| 79.88 | 180 ft. below ¼ sec. cor. |
| | The cor. of secs. 26,27,34 and 35. |
| | Land, rough mountainous, slopes and drains N. |
| | Soil, rocky, decayed vegetation and rich black loam on sub-soil of dark brown loam and rocks, very moist and mixed with rocks. |
| | Timber, spruce, pine and fir. |
| | Undergrowth, chaparral, weeds and grass. |
| | No grazing. |

July 27, 1915.

Howard W. Meier

U. S. Surveyor.

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| | July 29: At 8h. 30m.a.m. apparent time., I set off 39°08' on the lat. arc; 18° 56'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 26,27,34 and 35. |
| | Thence I run |
| | N.0°01'W., bet. secs. 26 and 27 |
| | Over mountainous land through dense pine, spruce and fir timber and undergrowth of chaparral, grass and weeds. |
| | Descend over N. slope. |
| 3.00 | Large rocky wash, 50 lks. wide, 3 ft. deep, flows NW. |
| 19.20 | Enter opening in timber about 5 chs. wide, bears E. and W. |
| 32.15 | Bottom of canyon and creek, 7 lks. wide, 3 to 5 ins. deep, good water, 410 ft. below sec. cor., flows E. |
| | Leave timber, bears E. and W. Gradually ascend over grassy S. slope of bench. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 27 ¼ \| S 26 |
| | 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Ascend abruptly over S. slope through dense undergrowth of deer brush. |
| 57.50 | Top of high ridge, 520 ft. above bottom of canyon, bears E. and W. |
| | Descend over N. slope. |
| 58.60 | Leave undergrowth, enter dense pine and scattering aspen timber, bears E. and W. |
| 74.10 | Timber becomes more scattering, bears E. and W. |
| 80.00 | On N. slope, 640 ft. below ridge. |
| | 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 |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | T 19 S \| R 4 E<br>S 22 \| S 23<br>S 27 \| S 26<br>1915 |
| | from which |
| | A fir, 14 ins. diam., bears S.27°W., 147 lks. dist., marked T 19 S R 4 E S 27 B T |
| | An aspen, 10 ins. diam., bears N.53°W., 226 lks. dist., marked T 19 S R 4 E S 22 B T |
| | No other suitable trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, rough mountainous with steep N. and S. slopes of ridges into ravines draining NE. |
| | Soil, rocky and rich black mountain loam on sub-soil of gravel and rich brown loam, very moist and packed hard. |
| | Timber, pine, fir and aspen. |
| | Undergrowth, chaparral, grass and weeds. |
| | Good grazing. |
| | July 29: In shade and dense timber at noon, obsn. for lat. not taken. |
| | --- |
| | N.89°57'E., on a random line bet. secs. 23 and 26 |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.86 | Intersect N. and S. line 9 lks. S. of the cor. of secs. 23, 24,25 and 26. |
| | Thence |
| | S.89° 53'W., on true line bet. secs. 23 and 26 |
| | Over rolling mountainous land sloping and draining N., through, pine, aspen and spruce timber and undergrowth of chaparral, grass and weeds. |
| | Gradually descend. |
| 1.55 | Stream, 5 lks. wide, 4 ins. deep, good water, drains N. |
| | Leave timber, thence over grassy opening, bears N. and S. |
| 12.25 | Creek, 8 lks. wide, 4 ins. deep, good water, flows NE. |
| | Dense aspen and pine timber, bears NE. and SW. |
| 22.55 | Bottom of swale and marsh, 50 lks. wide, drains N. Head |

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| | of a spring, bears S. about 1.50 chs. |
| | Leave dense pine timber, bears N. and S. |
| | Ascend over E. slope. |
| 26.15 | Road, Ferron to Mayfield, Utah, bears N. and S. |
| 39.93 | On gradual E. slope 210 ft. above swale. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 23 / ¼ / S 26 / 1915 |
| | from which |
| | An aspen, 12 ins. diam., bears N.34°W., 62 lks. dist., marked ¼ S 23 B T |
| | An aspen, 14 ins. diam., bears S.18°W., 36 lks. dist., marked ¼ S 26 B T |
| | Thence over gradual N. and E. slopes, gradually ascending. |
| 69.65 | Leave dense timber, thence through scattering, bears N. and S. |
| 79.86 | The cor. of secs. 22,23,26 and 27 |
| | Land, rolling mountainous, general N. exposure and drain. |
| | Soil, rich black mountain loam mixed with gravel and rocks, on sub-soil of gravel and rich brown loam, packed hard and moist. |
| | Timber, aspen, pine and spruce. |
| | Undergrowth, chaparral, grass and weeds. |
| | Good grazing. |
| | --- |
| | N.0°01'W., bet. secs. 22 and 23. |
| | Over mountainous land facing N., through scattering aspen, pine and fir timber and undergrowth of grass and weeds. |
| | Descend over N. slope towards Ferron resevoir. |
| 12.40 | Enter dense aspen, pine and fir timber, bears E. and W. |
| 26.87 | Road, Ferron to Mayfield, Utah, bears E. and W. |
| 30.17 | Branch road, bears W. and E. about 40 lks., thence SE. |
| 31.63 | E. edge of Ferron resevoir bears W. about 3 chs. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| 34.25 | Stream from outlet of resevoir, 12 lks. wide, 8 ins. deep, flows E. |
| 39.55 | Old out-let of resevoir and stream, 2 lks. wide, 2 ins. deep, flows E. |
| 40.00 | In edge of dense timber, 340 ft. below sec. cor., bears E. and W. |
| | 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., with brass cap marked |
| | S 22 ¼ \| S 23<br>1915 |
| | from which |
| | A pine, 6 ins. diam., bears N.88°E., 41 lks. dist., marked ¾ S 23 B T |
| | A pine, 5 ins. diam., bears N.72°W., 195 lks. dist., marked ¾ S 22 B T |
| | Thence through scattering timber. |
| 42.50 | Point at extreme E. edge of resevoir. |
| | Begin gradual ascent over S. slope. |
| 71.55 | Enter dense aspen timber, bears E. and W. |
| 80.00 | On S. slope in E. edge of aspen grove, 80 ft. above ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 14,15,22 and 23, with brass cap marked |
| | T 19 S \| R 4 E<br>S 15 \| S 14<br>S 22 \| S 23<br>1915 |
| | from which |
| | An aspen, 8 ins. diam., bears N.22°E., 83 lks. dist., marked T 19 S R 4 E S 14 B T |
| | An aspen, 10 ins. diam., bears S.42°E., 53 lks. dist., marked T 19 S R 4 E S 23 B T |
| | An aspen, 10 ins. diam., bears S.60°W., 27 lks. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | dist., marked T 19 S R 4 E S 22 B T |
| | An aspen, 13 ins.diam., bears N.56°W., 34 lks. |
| | dist., marked T 19 S R 4 E S 15 B T |
| | Land, mountainous with N. and S. slopes towards resevoir, general drainage E. |
| | Soil, rich black loam, mixed with gravel and streaked with rocks, on rich sub-soil of dark brown loam mixed with gravel, packed hard and very moist. |
| | Timber, aspen, pine and fir, |
| | Undergrowth, chaparral, grass and weeds. |
| | Land very good for grazing. |
| | July 29,1915 |
| | Isaac Hay |
| | U. S. Transitman. |
| | --- |
| | July 31: At 8h. a.m. apparent time., I set off 39° 10' on the lat. arc; 18° 28'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 14, 15,22 and 23. |
| | Thence I run |
| | N.89°53'E., on a random line bet. secs. 14 and 23. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.82 | Intersect N. and S. line 2 lks. N. of the cor. of secs. 13,14,23 and 24. |
| | Thence |
| | S.89°54'W., on true line bet. secs. 14 and 23. |
| | Over rolling mountainous bench land draining S., through aspen timber and undergrowth of chaparral, grass and weeds. |
| | Gradually descend. |
| .60 | Small stream, 1 lk. wide, 1 in. deep, good water, flows SE. |
| | Gradually ascend over S. and SE. slopes. |
| 3.90 | Leave aspen timber, bears N. and S. Thence over open flat. |
| 13.10 | Leave opening, enter dense aspen and scattering pine timber bears N. and S. |

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| 28.30 | Dense willow patch, 1 ch. wide, bears N. and S, |
| 39.91 | On SE. slope 195 ft. above stream. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 14<br>¼ |
| | S 23<br>1915 |
| | from which |
| | An aspen, 8 ins. diam., bears N.7°E., 22 lks. dist., marked ¼ S 14 B T ✓ |
| | An aspen, 8 ins. diam., bears S.43½°E., 13 lks. dist., marked ¼ S 23 B T ✓ |
| 53.55 | Leave timber, enter opening, bears NW. and SE. |
| 58.50 | Leave opening, enter scattering timber, bears N. and S. |
| 69.15 | Spur, 195 ft. above ¼ sec. cor., projects S. |
| | Descend. |
| 71.80 | Leave timber, bears N. and S. Enter opening. |
| 79.30 | Leave opening, enter dense aspen timber, bears N. and S. |
| 79.82 | The cor. of secs. 14,15,22 and 23, 65 ft. below spur. |
| | Land, rolling mountainous or bench lands, general S. exposure and drainage. |
| | Soil, rich black mountain loam mixed with gravel on subsoil of hard, moist sticky clay loam, mixed with gravel. |
| | Timber, aspen and some scattering pine. |
| | Undergrowth, chaparral, grass and weeds. |
| | Good grazing. |
| | --- |
| | N.0°01'W., bet. secs. 14 and 15. |
| | Ascend over mountainous land, facing and draining S., through aspen timber and undergrowth of chaparral, grass and weeds. |
| 9.25 | Leave aspen timber, bears N.5°E. and S.5°W. |
| | Ascend in center of large cove or basin, draining S. |
| 14.15 | Ascend more rapidly. |
| 32.35 | Top of steep ascent, asc. more gradually. |
| 40.00 | On steep S. slope, 660 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 8 ins. in |

chains

the ground on solid rock and 18 ins. in a mound of stone for ¼ sec.cor, with brass cap marked

S 15 ¼ | S 14
1915

from which

A pine, 40 ins. diam., bears N.34½°E., 135 lks. dist., marked ¼ S 14 B T

A pine, 14 ins. diam., bears N.42¾°W., 156 lks. dist., marked ¼ S 15 B T.

41.95 Top of sharp rocky ridge and divide between Indian and Duck Fork Creeks, 55 ft. above ¼ sec. cor., bears NE. and SW.

Enter heavy pine, spruce and aspen timber, thence descend abruptly over general N. slope over series of small benches.

July 31: At this station I set off 18° 25'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 10'.

73.40 Base of steep descent, descend more gradually.

80.00 On gentle N. slope 770 ft. below ridge.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 10,11,14 and 15, with brass cap marked

T 19 S | R 4 E
S 10 | S 11
S 15 | S 14
1915

from which

An aspen, 12 ins. diam., bears N.22¼°E., 104 lks. dist., marked T 19 S R 4 E S 11 B T

A spruce, 10 ins. diam., bears S.74°E., 12 lks. dist., marked T 19 S R 4 E S 14 B T

A spruce, 6 ins. diam., bears S.37¾°W., 30 lks. dist., marked T 19 S R 4 E S 15 B T

An aspen, 10 ins. diam., bears N.26°W., 33 lks. dist., marked T 19 S R 4 E S 10 B T

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| | Land, rough mountainous, slopes and drains N. and S. from divide. |
| | Soil, gravelly, rocky and shallow black loam on sub-soil of rich, moist black loam and gravelly. |
| | Timber, aspen, pine, spruce and fir. |
| | Undergrowth, chaparral, grass and weeds. |
| | Good grazing. |
| | July 31,1915. |
| | Howard W. Nieser |
| | U. S. Surveyor. |
| | --- |
| | August 3: For solar obsn. see line bet. secs. 10 and 15 N.89° 54'E., on a random line bet. secs. 11 and 14. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.80 | Intersect N. and S. line at the cor. of secs. 1,2,11 and 12. |
| | Thence |
| | S.89°54'W., on true line bet. secs. 11 and 14. |
| | Over mountainous land draining SE., through dense aspen and scattering pine timber and undergrowth of chaparral grass and weeds. |
| | Ascend over SE. slope of high ridge. |
| 7.80 | Leave timber and enter rocky and grassy slope, bears N. and S. |
| 16.00 | Top of high ridge and divide between Indian and Duck Fork Creeks, 465 ft. above sec. cor., bears NE. and SW. |
| | Descend over general NW. slope of ridge through scattering pine, spruce, fir and aspen timber. |
| 23.40 | Enter dense timber, bears N. and S. |
| 26.10 | Leave dense timber, enter dead and wind fall timber, bears N. and S. |
| 32.95 | Leave windfall, bears N. and S. Thence through dense timber. |
| 39.90 | On steep N. slope, 340 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 |

Subdivision of T.19 S., R.4 E.

chains

S 11
¼
S 14
1915

from which

A fir, 20 ins. diam., bears N.7°E., 29 lks. dist., marked ¼ S 11 B T

A pine, 13 ins. diam., bears S.58½°E., 24 lks. dist., marked ¼ S 14 B T

Continue descent over general N. slope.

79.80 370 ft. below ¼ sec. cor., the cor. of secs. 10,11,14 and 15.

Land, rough mountainous, SE. and NW. exposures and drainage from divide.

Soil, shallow black mountain loam mixed with gravel and rocks on sub-soil of moist, sticky clay and rock of limestone formation.

Timber, pine, spruce, fir and aspen.

Undergrowth, chaparral, grass and weeds.

Land, good for grazing.

August 3,1915.

Isaac Hayes
U. S. Transitman.

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July 31: For solar obsn. see line bet. secs. 14 and 23. N.0°01'W., bet. secs. 10 and 11

Gradually descend over mountainous land sloping and draining NW., through dense aspen and scattering pine timber and undergrowth of chaparral, grass and weeds.

5.95 Leave aspen, enter dense pine timber, bears E. and W.

10.15 Head of large spring, 3 ft. in dia., flows NW.

14.45 Creek from spring, 4 lks. wide, 2 ins. deep., good water, flows NE.

15.35 Same creek, flows NW.

24.40 Leave timber and base of descent, 280 ft. below sec. cor. enter large grassy meadow and basin, bears NE. and SW.

24.80 Creek, 8 lks. wide, 4 ins. deep, good water, flows NE.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Thence north crossing and recrossing same creek. |
| 32.10 | Leave creek, flows E. |
| 33.10 | Enter marshy ground, bears E. and W. |
| 39.75 | Leave marshy ground and meadow, bears NW. and S.10°E. |
| | A stream from the NW. enters meadow about 75 lks. 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 |
| | S 10 ¼ \| S 11<br>1915 |
| | from which |
| | An aspen, 10 ins. diam., bears N.8½°E., 105 lks. dist., marked ¼ S 11 B T |
| | An aspen, 10 ins. diam., bears N.48½°W., 147 lks. dist , marked ¼ S 10 B T. |
| | July 31,1915. |
| | August 3: At 9h. a.m. apparent time, I set off 39°11' on the lat. arc; 17° 42'N., on the decl. arc; and determine a meridian with the solar at this ¼ sec. cor. |
| | Thence I continue |
| | N.0°01'W. |
| 41.30 | Enter aspen and scattering pine timber, bears E. and W. |
| | Ascend over S. slope of ridge. |
| 47.60 | Leave timber, bears E. and W. Dense timber 3 chs. W. |
| 58.85 | Enter dense timber, bears NE. and SW. |
| 62.85 | Enter dense pine timber, also top of ridge and divide between Duck Fork and Lake Fork creeks, 235 ft. above ¼ sec. cor., bears E. and W. |
| | Gradually descend over NW. slope. |
| 77.51 | Shed at Work's saw mill bears N.73° 24'W. |
| 80.00 | On N. slope, 135 ft. below divide. |
| | 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 |

Subdivision of T.19 S.,R.4 E.

chains

| T 19 S | R 4 E |
|---|---|
| S 3 | S 2 |
| S 10 | S 11 |

1915

from which

An aspen, 6 ins. diam., bears N.22½°E., 41 lks. dist., marked T 19 S R 4 E S 2 B T

A fir, 9 ins. diam., bears S.38½°E., 34 lks. dist., marked T 19 S R 4 E S 11 B T

An aspen, 5 ins. diam., bears S.24½°W., 24 lks. dist., marked T 19 S R 4 E S 10 B T

An aspen, 8 ins. diam., bears N.33°W., 29½ lks. dist., marked T 19 S R 4 E S 3 B T

Land, mountainous with N. and S. slopes into canyons draining E. with exception of 15.60 chs. which is level meadow and marsh land.

Soil, generally a rich black loam mixed with gravel on sub-soil of moist, sticky loam, packed hard and mixed with gravel.

Timber, aspen, pine, spruce and fir.

Undergrowth, chaparral, grass and weeds.

Good grazing.

August 3: At this cor., I set off 17° 40'N., on the decl. arc; and at apparent noon obs. the sun on the mer.; the resulting lat. is 39° 11'.

---

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

40.00 Set temp. ¼ sec. cor.

79.89 Intersect N. and S. line 5 lks. N. of the cor. of secs. 1, 2, 11 and 12.

Thence

S.89°56'W., on true line bet. secs. 2 and 11

Over mountainous land draining N., through aspen, pine and spruce timber and undergrowth of chaparral, grass and weeds.

Subdivision of T.19 S.,R.4 E.

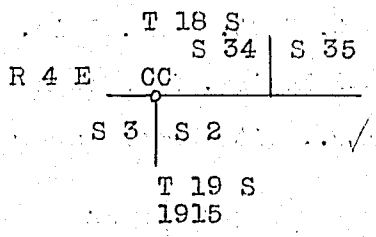
| chains | |
|---|---|
| | Gradually descend over general NW. slope. |
| 8.25 | Stream, 3 lks. wide, 2 ins. deep, good water, flows NW. |
| 15.85 | Ravine, 180 ft. below sec. cor., drains NE. Ascend. |
| 20.75 | Spur, 80 ft. above ravine, projects N. Descend. |
| 24.05 | Bottom of canyon and Duck Fork Creek, 8 lks. wide, 6 ins. deep, good water, 70 ft. below spur, flows NE. |
| | Ascend. |
| 36.20 | Enter dense timber, bears N. and S. |
| 39.94½ | On E. slope, 175 ft. above creek. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 2 / ¼ / S 11 / 1915 |
| | from which |
| | An aspen, 5 ins. diam., bears S.22°W., 20 lks. dist., marked ½ S 11 B T |
| | An aspen, 5 ins. diam., bears N.16°W., 19½ lks. dist., marked ¼ S 2 B T |
| 43.00 | Top of ridge spur, divides Duck and Lake Fork Creeks, 35 ft. above ¼ sec. cor., bears NE. and SW. |
| | Thence over nearly N. slope. |
| 65.35 | Base of steep ascent, bears NW. and SE. |
| | Ascend abruptly. |
| 68.15 | Top of steep ascent, bears NW. and SE. Gradually ascend. |
| 69.70 | Top of ascent, 200 ft. above ridge, bears N. and S. |
| | Gradually descend over gently NW. slope. |
| 79.89 | The cor. of secs. 2,3,10 and 11. |
| | Land, mountainous, general N. exposure and drainage. |
| | Soil, rich, black mountain loam mixed with gravel and streaked with rocks on sub-soil of rich black loam, very moist, packed hard and mixed with rock. |
| | Timber, aspen, pine, spruce and fir, |
| | Undergrowth, chaparral, grass and weeds. |
| | Good grazing. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | August 3,1915. |
| | August 4: At 9h. a.m. apparent time, I set off 39° 11' on the lat. arc; 17° 26'N., on the decl. arc; and at determine a meridian with the solar at the cor. of secs. 2,3,10 and 11 |
| | Thence I run |
| | N.0°01'W., on true line bet. secs. 2 and 3 |
| | Over rough mountainous land draining NE., through dense aspen timber and undergrowth of chaparral, grass and weeds. |
| | Gradually descend into Lake Fork Canyon. |
| 12.85 | Descend abruptly over N. slope. Considerable pine timber. |
| 16.70 | Bottom of canyon and Lake Fork Cr., 14 lks. wide, 8 ins. deep, good water, 190 ft. below sec. cor., flows NE. |
| | Ascend abruptly over S. slope. |
| 19.80 | Top of spur, 90 ft. above creek, projects NE. |
| | Gradually descend over N. slope. |
| 28.95 | Descend abruptly into George's Fork, bears E. and W. |
| 30.30 | Bottom of canyon and George's Fork Cr., 10 lks. wide, 6 ins. deep, good water, flows E., 110 ft. below spur. |
| | Leave practically all timber, gradually ascend over S. slope of mountain. |
| 40.00 | On S. slope, 210 ft. above creek. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S ¼ 3 \| S 2<br>1915 |
| | from which |
| | A jack pine, 10 ins. diam., bears S.3½°E., 60 lks. dist., marked ¼ S 2 B T |
| | A jack pine, 6 ins. diam., bears N.40¾°W., 164 lks. dist., marked ¼ S 3 B T |
| 44.95 | Top of steep ascent, ascend more gradually over S. slope of bench. |

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| 59.80 | Begin ascent over steep S. slope, enter scattering aspen timber, bears E. and W. |
| 73.55 | Ledge, 96 ft. high, bears NE. and SW. |
| 78.05 | Top of steep ascent and point of spur, bears E. and W. |
| | August 4: Raining at noon, unable to obs. for latitude. |
| | Thence along steep E. slope on W. side of ravine. |
| | Leave aspen timber, bears E. and W. |
| 86.45 | Ascend abruptly over SE. slope. |
| 96.55 | Edge of bench at head of ravine draining S.5°E., bears E. and W. Gradually ascend. |
| 99.00 | Ascend abruptly over broken Gypsum ledge, near SW. point of same. |
| 103.30 | Top of ledge and point of mountain, bears N.5°E. and SW. |
| | Thence over W. slope. |
| 107.04 | Intersect N. bdy. of the Tp. 1.36 chs. W. of the cor. of secs. 2,3,34 and 35 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. 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 |




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

Cor. stands on steep W. slope near top of mountain, 1135 ft. above ¼ sec. cor.

Destroy mks. om old cor. pertaining to T.19 S.

Land, rough mountainous, with steep N. and S. slopes into canyons draining E.

Soil, rocky of limestone formation with some rich, black loam mixed with gravel and loose shales on rocky and moist sticky clay sub-soil.

Subdivision of T.19 S.,R.4 E

| chains | |
|---|---|
| | Timber, aspen and pine; very scattering on N.½ mile |
| | Undergrowth, chaparral, grass and weeds. |
| | Good grazing. |
| | August 4,1915. |
| | Howard W. Miller |
| | U. S. Surveyor. |
| | --- |
| | July 28: At 8h. a.m. apparent time, I set off 39°07' on the lat. arc; 19°10'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3,4,33 and 34 on the S. bdy. of the Tp. heretofore described |
| | Thence I run |
| | N.0°01'W., bet. secs. 33 and 34 |
| | Over mountainous land, ascending over rocky SW. slope of Hileotrope mountain through dense pine timber and undergrowth of chaparral. |
| 11.45 | Base of slide rock and loose shales, bears NW. and SE. Begin steeper ascent. |
| 23.75 | Leave timber, bears E. and W. Thence over rock slide. |
| 26.15 | Top of ascent and S. edge of Hileotrope mountain, 420 ft. above sec. cor., bears NW. and SE. |
| | Thence over grassy flat on top of mountain. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground and 10 ins. in a mound of stone on solid rock for ¼ sec. cor., with brass cap marked |
| | S 33 ¼ \| S 34 |
| | 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 57.00 | Leave mountain top, bears NW. and SE. |
| | Descend abruptly over NE. slope into head of canyon. |
| 65.10 | Enter pine timber, bears E. and W. |
| 80.00 | Near foot of steep rocky E. slope at head of canyon, 410 ft. below brink of mountain. |

Subdivision of T.19 S.,R.4 E.

chains

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 27, 28,33 and 34, with brass cap marked

| T 19 S | R 4 E |
|---|---|
| S 28 | S 27 |
| S 33 | S 34 |

1915

from which

A pine, 34 ins. diam., bears N.7½°E., 338 lks. dist., marked T 19 S R 4 E S 27 B T

A pine, 32 ins. diam., bears S.12°E., 217 lks. dist., marked T 19 S R 4 E S 34 B T

A pine, 40 ins. diam., bears S.9° W., 147 lks. dist., marked T 19 S R 4 E S 33 B T

No tree in sec. 28

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

Land, rough mountainous, slopes and drains SW. on S. 26.15 chs., next 30.85 chs., rolling mountain top and N. 23.00 chs. rough mountainous with steep NE. slope.

Soil, generally gravelly and rocky of limestone formation and mixed with some dark brown loam on sub-soil of sticky brown clay, packed hard and mixed with gravel.

Timber, pine.

Undergrowth, chaparral.

Good grazing on mountain top.

In shade in dense timber at noon, obsn. for lat. impossible.

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

40.00 Set temp. ¼ sec. cor.

80.04 Intersect N. and S. line 14 lks. S. of the cor. of secs. 26,27,34 and 35.

Thence

S.89°54'W., on a true line bet. secs. 27 and 34

Over rough mountainous land on N. slope of Hileotrope mountain through dense pine, spruce and fir timber and

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | undergrowth of weeds and grass. |
| | Ascend abruptly. |
| 17.95 | Top of spur, 395 ft. above sec. cor., projects N. |
| | Gradually descend along N. slope. |
| 29.50 | Stream, 2 lks. wide, 2 ins. deep, good water, flows N. |
| 32.05 | Stream, 2 lks. wide, 2 ins. deep, good water, flows N. |
| 36.50 | Leave timber, bears N. and S. |
| | Thence over grassy opening. |
| 40.02 | On N. slope, 120 ft. below spur. |
| | Set an iron post, 3 ft. long, 1 ins. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 27 / ¼ / S 34 / 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N of cor. |
| 41.85 | Top of steep descent, enter scattering timber, bears N. and S. Descend abruptly over NW. slope. |
| 50.80 | Bottom of swale and stream, 2 lks. wide, 2 ins. deep, good water, flows N. into small slough about 1 ch. N. of line, 155 ft. below top of steep descent. |
| | Thence gradually ascend over rough broken land over large boulders and through dense pine timber in head of large canyon. |
| 80.04 | 300 ft. above swale. The cor. of secs. 27,28,33 and 34. |
| | Land, rough mountainous, general N. exposure and drainage. |
| | Soil, rocky of limestone formation mixed with some shallow mountain loam on rocky sub-soil. |
| | Timber, pine, spruce and fir. |
| | Undergrowth, weeds and grass. |
| | Fair grazing. |
| | July 28,1915 |

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July 30: At 8h. a.m. apparent time, I set off 39° 08' on the lat. arc; 18° 42'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 27,28, 33 and 34.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Thence I run |
| | N.0°01'W., bet. secs. 27 and 28 |
| | Over rough mountainous land in head of large canyon draining E., through pine, spruce and fir timber and undergrowth of grass and weeds. |
| | Ascend. |
| 25.25 | Top of high ridge spur from main top of mountain, 250 ft. above sec. cor., bears NE. and SW. |
| | Thence descend along rough broken W. and NW. slopes of mountain, very rocky. |
| 35.90 | Leave rocky, enter grassy slope. |
| 40.00 | Point falls on grassy W. slope, 175 ft. below ridge. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 28 ¼ \| S 27<br>1915 |
| | from which |
| | A fir, 4 ins. diam., bears N.72°E., 43 lks. dist., marked ¼ S 27 B T |
| | A pine, 12 ins. diam., bears N.85°W., 5 lks. dist., marked ¼ S 28 B T |
| | Continue descent. |
| 80.00 | Point falls on rolling grassy bench in pine grove, 385 ft. below ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 15 ins. in the ground on solid rock and 9 ins. in a mound of stone alongside a large boulder for cor. of secs. 21,22,27 and 28, with brass cap marked |
| | T 19 S \| R 4 E<br>S 21 \| S 22<br>S 28 \| S 27<br>1915 |
| | from which |
| | A pine, 10 ins. diam., bears N.40°E., 278 lks. dist., marked T 19 S R 4 E S 22 B T |

Subdivision of T.19 S.,R.4 E.

chains

A pine, 12 ins. diam., bears S.65°E., 140 lks. dist., marked T 19 S R 4 E S 27 B T

A pine, 9 ins. diam., bears S.27°W., 169 lks. dist., marked T 19 S R 4 E S 28 B T

A pine, 14 ins. diam., bears N.22°W., 33 lks. dist., marked T 19 S R 4 E S 21 B T

Land, rough mountainous with SE., NW. and N. slopes from high ridge.

Soil, loose shales, rich black loam mixed with gravel on sub-soil of rich brown loam, very moist, packed hard and mixed with rocks. Surface strewn with large boulders.

Timber, pine, spruce and fir.

Undergrowth, grass and weeds.

Land good for grazing.

July 30: At this cor., I set off 18° 39'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 09'.

---

N.89°54'E., on a random line bet. secs. 22and 27

40.00 Set temp. ¼ sec. cor.

Cease work.

July 30,1915.

July 31: AT 8h. a.m. apparent time, I set off 39°09' on the lat. arc; 18° 28'N., on the decl. arc; and determine a meridian with the solar at the temp. ¼ sec. cor.

Thence I continue

N.89° 54'E.

79.99 Intersect N. and S. line 21 lks. N. of the cor. of secs. 22,23,26 and 27

Thence

N.89°57'W., on true line bet. secs. 22 and 27

Over mountainous land draining N., through scattering aspen,pine, spruce and fir timber and undergrowth of chaparral, grass and weeds.

Gradually descend over NW. slope.

7.25 Swale, 50 ft. below sec. cor., drains N.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Enter heavy timber, thence ascend over NE. slope. |
| 25.20 | Top of ascent, 250 ft. above swale, bears N. and S. |
| | Descend abruptly. |
| 26.65 | Bottom of ravine and stream, 5 lks. wide, 5 ins. deep, good water, 60 ft. below top of ascent, flows N. into Ferron Resevoir. |
| | Thence along N. slope, gradually ascending. |
| 39.99½ | 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>S 22<br>¼<br>S 27<br>1915<br>from which<br>A fir, 11 ins. diam., bears S.60°E., 15 lks. dist., marked ¼ S 27 B T<br>A fir, 16 ins. diam., bears N.20°W., 24 lks. dist., marked ¼ S 22 B T |
| | Cor stands on N. slope, 155 ft. above ravine. |
| | Gradually descend. |
| 79.99 | The cor. of secs. 21,22, 27 and 28, 175 ft. below ¼ sec.cor. |
| | Land, mountainous, general N. exposure and drainage. |
| | Soil, rich black loam, mixed with gravel and rocks on sub-soil of brown loam, packed hard, very moist and mixed with rocks. |
| | Timber, pine, spruce, fir, and aspen. |
| | Undergrowth, chaparral, grass and weeds. |
| | Land good for grazing. |
| | --- |
| | N.0°01'W., bet. secs. 21 and 22 |
| | Over mountainous land, gradually descending over N. slope through dense pine, spruce and fir timber and undergrowth of grass and weeds. |
| 13.40 | Leave dense timber, thence along rocky E. slope. |
| 23.10 | Wagon road, Ferron to Mayfield, Utah on dugway, 175 ft. below sec. cor., bears NW. and SE. |
| | Gradually ascend. |

Subdivision of T.19 S.,R.4 E.

chains

40.00 Point falls on steep SE. slope of divide, 100 ft. above road.

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

S 21 ¼ | S 22

1915

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

July 31: At this cor., I set off 18° 25'W., on the decl. arc; and at apparent noon obs. the sun on the mer.; the resulting lat. is 39° 09'.

Thence over rocky S. slope.

65.35 Begin steep ascent over rocky S. slope of mountain.

69.70 Enter scattering pine timber, bears E. and W.

80.00 On top of steep ascent, 350 ft. above ¼ sec. cor.

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

| | |
|---|---|
| T 19 S | R 4 E |
| S 16 | S 15 |
| S 21 | S 22 |

1915

from which

A pine, 24 ins. diam., N.44½°E., 131 lks. dist., marked T 19 S R 4 E S 15 B T

A pine, 10 ins. diam., bears S.31½°E., 126 lks. dist., marked T 19 S R 4 E S 22 B T

A pine, 10 ins. diam., bears S.71°W., 229 lks. dist., marked T 19 S R 4 E S 21 B T

A pine, 16 ins. diam., bears N.62½°W., 49 lks. dist., marked T 19 S R 4 E S 16 B T

Land, rough mountainous, general E. exposure and drainage. Soil, rich black loam mixed with gravel and limestone rocks on sub-soil of dark brown loam, moist and packed hard, mixed with some rocks.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Timber, pine, spruce and fir. |
| | Undergrowth, chaparral, grass and weeds. |
| | Land good for grazing. |
| | --- |
| | S.89°57'E., on a random line bet. secs. 15 and 22 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.07 | Intersect N. and S. line 9 lks. S. of the cor. of secs. 14,15,22 and 23 |
| | Thence |
| | S.89°59'W., on true line bet. secs. 15 and 22 |
| | Over mountainous land draining S.,through scattering patches of aspen timber and undergrowth of weeds and grass. |
| | Gradually descend across wide cove or basin. |
| 5.85 | Base of descent and stream, 2 lks. wide, 2 ins. deep, good water, flows SE. |
| | Ascend over SE. slope of cove. |
| 31.80 | Leave timber, bears N. and S. |
| 40.03½ | On top of bench near top of land slide, 485 ft. above base of descent. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 15 ¼ / S 22 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Continue ascent over SE. slope. |
| 45.10 | Enter scattering pine and fir timber, bears N. and S. |
| 51.60 | Enter dense pine and fir timber, bears N. and S. |
| | Thence over nearly S. slope over series of broken limestone ledges. |
| 65.80 | Leave dense timber, bears N. and S. |
| 71.50 | Top of steep ascent and ledges, 440 ft. above ¼ sec. cor., bears NE. and SW. |
| | Thence on nearly level line. |
| 80.07 | The cor. of secs. 15,16,21 and 22. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Land, mountainous, general S. exposure and drainage. |
| | Soil, generally rocky and loose shale rock on rocky sub-soil. |
| | Timber, aspen, pine and fir. |
| | Undergrowth, weeds and grass. |
| | Fair grazing. |
| | July 31,1915. |
| | ----------000---------- |
| | August 2: At 8h.a.m. apparent time, I set off 39°10' on the lat. arc; 17° 58'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 15,16,21 and 22. |
| | Thence I run |
| | N.0°01'W., bet. secs. 15 and 16 |
| | Over nearly level top of mountain, divide between Indian and Duck Fork Creeks, through pine, spruce and fir timber and undergrowth of grass and weeds. |
| 5.90 | Leave top of mountain, bears E. and W. |
| | Descend over broken N. and NW. slopes. |
| 40.00 | On gradual NW. slope 325 ft. below top of mountain. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S ¼ 16 \| S 15 |
| | 1915 |
| | from which |
| | A pine, 32 ins. diam., bears N.84°E., 28 lks. dist., marked ¼ S 15 B T |
| | A pine, 15 ins. diam., bears N.75°W., 42 lks. dist., marked ¼ S 16 B T |
| 56.10 | Dry water course drains NE. Thence over rolling mountainous land across bottom of canyon, timber becomes more scattering and undergrowth more dense. |
| 74.05 | Wash, 10 lks. wide, 5 ft. deep, drains SE. |
| 76.95 | Bottom of large canyon and stream, 1 lk. wide, 1 in. deep, good water, 390 ft. below ¼ sec. cor., flows E. |

Subdivision of T.19 S.,R.4 E.

chains

Gradually ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 9,10,15 and 16, with brass cap marked

| T 19 S<br>S 9 | R 4 E<br>S 10 |
|---|---|
| S 16 | S 15 |

1915

from which

An aspen, 8 ins. diam., bears N.34°E., 195 lks. dist., marked T 19 S R 4 E S 10 B T

A fir, 12 ins. diam., bears S.30°E., 300 lks. dist., marked T 19 S R 4 E S 15 B T

A double fir, 8 ins. diam., bears S.32°W., 265 lks. dist., marked T 19 S R 4 E S 16 B T

A fir, 12 ins. diam., bears N.59°W., 220 lks. dist., marked T 19 S R 4 E S 9 B T

Land, mountainous, general N. and NE. exposures, drains E.

Soil, rich black loam, mixed with gravel and rock on subsoil of moist brown loam, packed hard and mixed with rock.

Timber, pine, fir and aspen.

Undergrowth, chaparral, grass and weeds.

Good grazing.

August 2: In shade of dense timber at noon, obs. for lat. not taken.

August 2,1915

---

August 3: At 8h. a.m. apparent time, I set off 39° 10' on the lat. arc; 17° 42'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9,10,15 and 16.

Thence I run

N.89°59'E., on a random line bet. secs. 10 and 15.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line 14 lks. N. of the cor. of secs. 10,11,14 and 15.

Thence

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | N.89°55'W., on true line bet. secs. 10 and 15. |
| | Over mountainous land draining N., through dense pine, fir and scattering aspen timber and undergrowth of chaparral,grass and weeds. |
| | Gradually descend along N. slope. |
| 7.15 | Stream, 8 lks. wide, 2 ins. deep, good water, flows N. |
| 15.65 | Stream, 8 lks. wide, 2 ins. deep, good water, flows N. |
| 21.05 | Stream, 2 lks. wide, 3 ins. deep, good water, flows N. |
| 31.05 | Base of descent and bottom of canyon and Duck Fork creek, in wash, 10 lks. wide, 4 ins. deep, good water, 145 ft. below sec. cor., flows NE. into large meadow. |
| | Gradually ascend over S. and SE. slopes near bottom of canyon. |
| 40.00 | Point falls on nearly level flat in small opening in timber |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 10 / ¼ |
| | S 15 / 1915 |
| | from which |
| | An aspen, 12 ins. diam., bears N.23°E., 64 lks. dist., marked ¼ S 10 B T |
| | An aspen, 24 ins. diam., bears S.85°E., 92 lks. dist., marked ¼ S 15 B T |
| | Continue gradual ascent. |
| 57.80 | Leave dense timber, bears N. and S. |
| 67.60 | Begin ascent over rocky S. slope. |
| 80.00 | 375 ft. above ¼ sec. cor. The cor. of secs.9,10,15 and 16. |
| | Land, mountainous on N. and S. slopes near bottom of large canyon. |
| | Soil, rich, black mountain loam mixed with gravel and rocks on sub-soil of moist, sticky, brown loam, packed hard and mixed with rock. |
| | Timber, pine, fir and scattering aspen. |
| | Undergrowth, chaparral, grass and weeds. |
| | Good grazing. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | August 3: The sky is overcast at noon, obs. for lat. is impossible. |
| | August 3,1915. |
| | --- |
| | August 2: For solar obsn. see line bet. secs. 15 and 16 N.0°01'W., bet. secs. 9 and 10 |
| | Over mountainous land near head of Duck Fork Cr., drains E., through scattering aspen and pine timber and undergrowth of chaparral, grass and weeds. |
| | Gradually ascend over S. slope of canyon. |
| 6.10 | Base of steep ascent and leave aspen timber, bears E. and W. |
| 11.40 | Top of steep ascent, 295 ft. above sec. cor., bears E. and W. Thence over rolling mountainous land through dense pine timber. |
| 24.85 | Stream, 1 lk. wide, 1 in. deep, good water, flows SE. |
| | Leave dense timber, thence over rocky SE. slope. |
| 28.80 | Enter dense pine and fir timber, bears E. and W. Thence over more gradual slope, less rocky. |
| 34.25 | Top of ridge and divide between Duck and Lake Fork Creeks, 230 ft. above top of steep ascent, bears NE. and SW. |
| | Gradually descend over NW. slope. |
| 40.00 | Point falls on NW. slope, 60 ft. below top of ridge. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 9 ¼ \| S 10 |
| | 1915 |
| | from which |
| | A pine, 12 ins. diam., bears S.30½°E., 38 lks. dist., marked ¼ S 10 B T |
| | A pine, 14 ins. diam., bears S.60°W., 33 lks. dist., marked ¼ S 9 B T |
| 43.40 | Descend abruptly into Lake Fork canyon. |
| 72.65 | Drag road, bears NE. and SW. |
| 74.90 | Same road, bears NW. and SE. |

Subdivision of T.19 S.,R.4 E.

chains

76.20 Bottom of canyon and Lake Fork Cr., 10 lks. wide, 4 to 5 ins. deep, good water, 790 ft. below ¼ sec. cor., flows E.

Gradually ascend over S. slope of canyon.

76.60 Same road, bears NE. and SW. Leave dense pine and fir timber, enter dense aspen timber, bears E. and W.

80.00 On S. slope, 20 ft. above road.

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

| | |
|---|---|
| T 19 S<br>S 4 | R 4 E<br>S 3 |
| S 9 | S 10 |

1915

from which

An aspen, 7 ins. diam., bears N.23°E., 110 lks. dist., marked T 19 S R 4 E S 3 B T √

An aspen, 8 ins. diam., bears S.61°E., 12 lks. dist., marked T 19 S R 4 E S 10 B T √

An aspen, 10 ins. diam., bears S.62½°W., 17½ lks. dist., marked T 19 S R 4 E S 9 B T √

An aspen, 8 ins. diam., bears N.41°W., 56 lks. dist., marked T 19 S R 4 E S 4 B T √

Land, mountainous with general N. and S. exposures from ridge at 34.25 chs. into canyons draining E.

Soil, rich black loam, mixed with rock on moist sub-soil of sticky clay loam, packed hard and mixed with rock.

Timber, aspen, pine and fir.

Undergrowth, chaparral, grass and weeds.

Good grazing.

---

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

40.00 Set temp. ¼ sec. cor.

Cease work.

August 2,1915.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Isaac Hayes<br>U. S. Transitman. |
| | August 3: For solar obsn. see N.½ mile bet. secs. 10 and 11. |
| | From temp. ¼ sec. cor., I continue |
| | S.89°55'E. |
| 79.90 | Intersect N. and S. line, 5 lks. N. of the cor. of secs. 2,3,10 and 11 |
| | Thence |
| | N.89°53'W., on true line bet. secs. 3 and 10 |
| | Over rolling mountainous land facing NW., gradually descending through dense aspen, balsam and pine timber and undergrowth of grass and weeds. |
| 5.20 | Head of stream, 1 ft. wide., good water, flows NW. |
| | Leave aspen timber, bears N. and S. |
| 20.90 | Stream, 2 lks. wide, 1 in. deep, good water flows NE. |
| | Base of descent and enter dense willows in bottom of Lake Fork Canyon, bears N. and S. |
| | Thence over low bottom lands. |
| 21.70 | Drag road, bears NE. and SW. |
| 24.20 | Stream, 1 lk. wide, 2 ins. deep, good water, flows NE. |
| 26.95 | Same drag road, bears NW. and SE. |
| 28.50 | Lake Fork Cr., 10 lks. wide, 6 ins. deep, good water, 90 ft. below sec. cor., flows NE. |
| 30.45 | Stream, 4 lks. wide, 2 ins. deep, good water, flows SE. |
| 31.45 | Same stream, flows N. |
| 32.10 | Leave dense timber and enter exceptionally dense willow undergrowth, bears N. and S. |
| 36.55 | Stream, 3 lks. wide, 1½ ins. deep, good water, flows SE. |
| 39.35 | Creek,bed, 20 lks. wide, banks 3 ft. high, drains SE. |
| | Leave dense willow undergrowth, bears NW. and SE. |
| | Gradually ascend. |
| 39.95 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | S 3 / ¼ / S 10 / 1915 |
| | from which |
| | A twin fir, 10 ins. diam., bears S.4½°W., 73 lks dist., marked ¼ S 10 B T |
| | A fir, 10 ins. diam., bears N.72°W., 63 lks. dist., marked ¼ S 3 B T |
| | From the ¼ sec. cor., cabin at Work's Saw Mill bears N. about 3.00 chs. Corrals, sheds and machine shops bears NE. about 10 chs. |
| | Thence on N. slope on S. side of creek. |
| 52.30 | Bottom of canyon and Lake Fork Creek, 10 lks. wide, 4 ins. deep, good water, flows NE. |
| 55.85 | Drag road, bears NE. and SW. |
| | Gradually ascend on S. slope of canyon. |
| 67.15 | Leave pine timber, bears N. and S. |
| 79.90 | The cor. of secs. 3,4,9 and 10, 140 ft. above ¼ sec. cor. |
| | Land, mountainous on N. and S. slopes of Lake Fork Canyon, general drainage NE. |
| | Soil, rich black loam mixed with gravel on sub-soil of moist, sticky brown loam, packed hard and mixed with gravel. |
| | Timber, pine, fir and aspen. |
| | Undergrowth, willow, chaparral, grass and weeds. |
| | Good grazing. |
| | August 3,1915. |
| | Howard W. Meeker |
| | U. S. Surveyor. |

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August 12: At 9h.a.m. apparent time, I set off 39° 11' on the lat. arc; 15° 11' N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3,4,9 and 10.

Thence I run

N.0°01'W., bet. secs. 3 and 4.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Ascend abruptly from Lake Fork canyon over rough mountainous land facing S., drains E., through dense undergrowth of chaparral, scrub choke cherry, weeds and grass. |
| 7.95 | Small patch of young aspen timber, bears E. and W. |
| 25.10 | Enter scattering young pinon pine timber, bears E. and W. |
| 36.45 | Leave pinon timber, bears E. and W. |
| 38.35 | Head of small stream, 2 lks. wide, 1 in. deep, good water, flows SE. |
| 40.00 | Top of high ridge, 545 ft. above sec. cor., bears E. and W. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 4 ¼ \| S 3 ✓<br>1915 |
| | from which |
| | A pine, 36 ins.diam., bears S.74½°E., 205 lks. dist., marked ¼ S 3 B T ✓ |
| | A pine, 10 ins. diam., bears S.28½°W., 61 lks. dist., marked ¼ S 4 B T ✓ |
| | August 12: At this cor., I set off 15° 08'N., on the decl. arc; and at apparent noon obs. the sun on the mer.; the resulting lat. is 39°12'. ✓ |
| | Gradually descend over NE. slope. |
| 51.75 | Enter dense pine and fir timber, bears E. and W. |
| 58.10 | Stream, 2 lks. wide, 1 in. deep, good water, flows E. |
| 59.30 | Leave dense pine and fir timber, bears E. and W. |
| | Thence gradually descend over N. slope into George's Fork canyon. |
| 77.80 | Enter dense pine and fir timber, bears E. and W. |
| | Descend abruptly. |
| 81.45 | Base of steep descent, 340 ft. below ridge, thence across canyon. |
| 86.85 | Road, Work's Saw Mill to Manti, Utah, bears NW. and SE. |
| 91.60 | George's Fork Cr., 5 lks. wide, 4 ins. deep, good water, flows NE. Dense willow undergrowth along creek. Leave |

chains

pine and fir, bears E. and W.

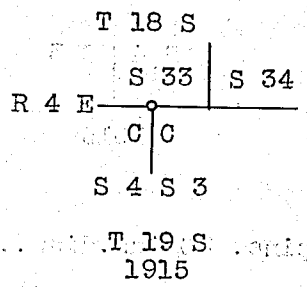
95.45 A sheep corral, bears NE. about 1 ch.

Begin ascent over gradual S. slope.

97.40 Enter dense aspen timber, bears E. and W.

106.98 Intersect N. bdy. of the Tp., 1.38 chs. West of the cor. of secs.3,4,33 and 34, 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. 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




from which

An aspen, 16 ins. diam., bears S.54½°E., 39 lks. dist., marked T 19 S R 4 E S 3 B T

An aspen, 8 ins. diam., bears S.43°W., 13 lks. dist., marked T 19 S R 4 E S 4 B T

I destroy all marks on old cor., and deface bearing trees that refer to T.19 S.

Land, rough mountainous with steep N. and S. slopes into canyons draining E.

Soil, dark sandy loam, mixed with gravel and rock on subsoil of moist, sticky clay, packed hard and mixed with rock.

Timber, pine, fir, aspen and pinon.

Undergrowth, willow, chaparral, choke cherry, grass and weeds.

Good grazing.

August 12,1915.

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Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | August 4: At 9h. a.m. apparent time., I set off 39°07' on the lat. arc; 17° 26'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4,5,32 and 33 on the S. bdy. of the Tp. heretofore described. |
| | Thence I run |
| | N.0°02'W., bet. secs. 32 and 33 |
| | Over mountainous land draining SE., through dense pine, fir and scattering aspen timber and undergrowth of grass and weeds. |
| | Ascend abruptly over rocky SE. slope at head of Muddy Cr. canyon. |
| 10.30 | Spur, 270 ft. above sec. cor., projects NE. |
| | Leave aspen timber, thence over rolling mountainous land, general E. exposure. |
| 36.20 | Enter scattering aspen timber, bears E. and W. |
| 40.00 | Point falls on nearly level rocky bench, 55 ft. above spur. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 32 ¼ \| S 33 |
| | 1915 |
| | from which |
| | A fir, 10 ins. diam., bears N. 29½°E., 160 lks. dist., marked ¼ S 33 B T |
| | A fir, 8 ins. diam., bears N.28½°W., 107 lks. dist., marked ¼ S 32 B T |
| | Leave aspen timber, bears E. and W. |
| 73.05 | Telephone line, Mayfield, Utah to Emery, Utah, bears NW.& SE. Property of U.S.Forest Service. |
| 80.00 | On gradual rocky SE. slope, 60 ft. above ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 8 ins. in the ground on solid rock and 16 ins. in a mound of stone for cor. of secs. 28,29,32 and 33, with brass cap marked |

Subdivision of T.19 S.,R.4 E.

chains

| T 19 S | R 4 E |
|---|---|
| S 29 | S 28 |
| S 32 | S 33 |

1915

from which

A fir, 6 ins. diam., bears N.21°E., 40 lks. dist., marked T 19 S R 4 E S 28 B T

A fir, 9 ins. diam., bears S.59½°E.,226 lks. dist., marked T 19 S R 4 E S 33 B T

A twin fir, 24 ins. diam., bears S.48°W., 22 lks. dist., marked T 19 S R 4 E S 32 B T

A fir, 20 ins. diam., bears N.71°W., 68 lks. dist., marked T 19 S R 4 E S 29 B T

Land, mountainous, general SE. exposure and drainage at S. end of Twelve Mile Flats.

Soil, rich, brown, shallow mountain loam, mixed with gravel and rocks on sub-soil of moist, sticky loam, packed very hard and mixed with rock.

Timber, pine, fir and aspen.

Undergrowth, grass and weeds.

Good grazing.

August 4: The sky is overcast at noon, obsns. for lat. are impossible.

---

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

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line 3 lks. S. of the cor. of secs. 27,28,33 and 34.

Thence

S.89°59'W., on true line bet. secs. 28 and 33

Over rough mountainous land draining E., through dense pine timber and undergrowth of young pine, weeds and grass.

Ascend abruptly over E. slope from head of canyon.

9.10 Top of steep ascent and edge of Hileotrope mountain, 395 ft. above sec. cor., bears NW. and SE.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Leave timber, thence across rolling top of mountain. |
| 25.90 | W. edge of mountain, bears NW. and SE. |
| | Descend abruptly over precipitous SW. slope over slide rock, loose shales and small ledges. |
| 40.00 | Point falls at foot of slide rock, 410 ft. below top. |
| | 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>S 28<br>¼<br>S 33<br>1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Continue descent more gradually over SW. slope. |
| 48.30 | Enter dense pine and fir timber, bears N. and S. |
| 69.55 | Base of descent and swale, 305 ft. below ¼ sec. cor., drains SE. Road in same from Emery to Mayfield, Utah, bears N. and S. |
| | Gradually ascend over S. edge of Twelve Mile Flats. |
| 80.00 | The cor. of secs. 28,29,32 and 33. |
| | Land, rough mountainous. E. and SW. exposures from high mountain. |
| | Soil, rocky, gravelly and loose shales of limestone formation on rocky sub-soil. Some good soil on low parts of mile. |
| | Timber, pine and fir. |
| | Undergrowth, grass and weeds. |
| | Some parts of mile good for grazing. |
| | --- |
| | N.0°02'W., bet. secs. 28 and 29 |
| | Over rolling mountainous land across Twelve Mile Flats through pine and fir timber, dense in patches and undergrowth of weeds and grass. |
| 10.30 | Leave timber, bears E. and W. |
| | Thence over open grassy flat. |
| 30.00 | Road, Mayfield to Emery, Utah, bears NW. and SE. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| 33.40 | Leave flat, enter foot of slope of divide of mountain and dense pine and fir timber, bears NW. and SE. |
| 37.00 | Leave foot of slope and timber, bears NE. and SW. Thence across flat. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

| | |
|---|---|
| S 29 ¼ | S 28 |

1915

from which

A pine, 30 ins. diam., bears S.69½°E., 196 lks. dist., marked ¼ S 28 B T

No tree within limits in sec. 29

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

August 4,1915.

August 6: At 8h.a.m. apparent time, I set off 39°09' on the lat. arc; 16° 55'N., on the decl. arc; and determine a meridian with the solar at the ½ sec. cor.

Thence I continue N.0°02'W.

| | |
|---|---|
| 44.00 | Road, Mayfield to Ferron, Utah, bears NE. and SW. |
| 45.00 | Leave flat, bears NW. and SE. Enter pine and fir timber, bears NW. and SE. Thence gradually ascend along W. slope of divide. |
| 72.80 | Leave timber, bears E. and W. Thence along rocky W. slope. |
| 80.00 | On W. slope, amongst large boulders, 115 ft. above ¼ cor. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 20,21,28 and 29, with brass cap marked |

| | |
|---|---|
| T 19 S | R 4 E |
| S 20 | S 21 |
| S 29 | S 28 |

1915

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

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Land, rolling mountainous drains SE. into Muddy canyon on S. 30.00 chs. and NW. into Twelve Mile Canyon on N. 50.00 chs. |
| | Soil, shallow mountain loam, mixed with gravel and rock on gravelly and rocky sub-soil. |
| | Timber, scattering patches of pine and fir. |
| | Undergrowth, weeds and grass. |
| | Good grazing. |
| | --- |
| | N.89°59'E., on a random line bet. secs. 21 and 28 |
| 17.20 | August 6: Raining at noon, obsn. for latitude impossible. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.16 | Intersect N. and S. line 25 lks. S. of the cor. of secs. 21,22,27 and 28. |
| | Thence |
| | S.89°48'W., on true line bet. secs. 21 and 28 |
| | Ascend over mountainous land draining E., through pine, fir and spruce timber and undergrowth of grass and weeds. Land strewn with large boulders. |
| 37.35 | Road, Ferron to Mayfield, Utah, bears N.1ch. thence NE. and S. |
| 40.08 | On gradual E. slope in large opening in timber, 170 ft above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 21<br>¼<br>S 28<br>1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 62.95 | Top of sharp rock ridge and divide between San Pete and Castle Valleys, 335 ft. above ¼ sec. cor., bears N. and S. |
| | Descend abruptly over W. slope into head of Twelve Mile Canyon. |
| 70.30 | Leave timber, bears N. and S. |

Subdivision of T.19 S.,R.4 E.

chains

80.16 The cor. of secs. 20,21,28 and 29, 315 ft. below divide.

Land, rough mountainous, E. and W. exposures and drainage from divide.

Soil, rocky of limestone formation with some shallow black loam on rocky and moist loam sub-soil.

Timber, pine, spruce and fir.

Undergrowth, weeds and grass.

Fair grazing.

August 6,1915.

---

August 7: At 8h.a.m. apparent time, I set off 39°09' on the lat. arc; 16° 38'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 20, 21,28 and 29

Thence I run

N.0°02'W., bet. secs. 20 and 21

Over mountainous land draining W., through dense undergrowth of weeds and grass.

Gradually ascend along rocky W. slope of divide.

15.25 Enter scattering pine timber, bears E. and W.

25.15 Leave timber and undergrowth, bears E. and W.

Ascend over slide rock, loose shales and broken ledges.

40.00 Point falls on steep SW. slope on ledges and slide rock, 245 ft. above sec. cor. Unable to perpetuate cor. at this point. Continue over ledges.

45.50 On top of ledge and edge of divide between Castle valley and San Pete valley, also in edge of dense pine and fir timber, 470 ft. above sec. cor., bears NW. and SE.

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

T 19 S R 4 E

S 20 | S 21

¼

WC

1915

from which

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | A pine, 14 ins. diam., bears S.63½°E., 56 lks. dist., marked W C ¼ S 21 B T |
| | A pine, 8 ins. diam., bears S.77°W., 17 lks. dist., marked W C ¼ S 20 B T |
| | Thence along brink of steep W. slope of divide. |
| 73.95 | Leave dense timber, bears E. and W. |
| 80.00 | On top of steep W. slope of divide between Castle and San Pete valleys, 85 ft. above ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 16,17,20 and 21, with brass cap marked |

| T 19 S | R 4 E |
|---|---|
| S 17 | S 16 |
| S 20 | S 21 |

1915

from which

A pine, 18 ins. diam., bears N.1°E., 406 lks. dist., marked T 19 S R 4 E S 16 B T

A pine, 6 ins. diam., bears S.12½°E., 106 lks. dist., marked T 19 S R 4 E S 21 B T

A pine, 16 ins. diam., bears S.49¼°W., 75 lks. dist., marked T 19 S R 4 E S 20 B T

A pine, 10 ins. diam., bears N.69°W., 102 lks. dist., marked T 19 S R 4 E S 17 B T

Land, rough mountainous on W. and near top of W. slope of divide between Castle and San Pete Valleys.

Soil, rocky of limestone formation on rocky sub-soil.

Timber, pine and fir.

Undergrowth, grass and weeds. Fair grazing on parts of mile.

August 7: At this cor., I set off 16° 35'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 10'.

---

N.89°48'E., on a random line bet. secs. 16 and 21

40.00 Set temp. ¼ sec. cor.

Subdivision of T.19 S.,R.4 E.

chains

80.20 Intersect N. and S. line 2 lks. S. of the cor. of secs. 15,16,21 and 22

Thence

S.89°47'W., on true line bet. secs. 16 and 21

Over rolling land on top of ridge, through dense pine and fir timber and undergrowth of weeds and grass.

10.45 Leave top of ridge, bears N.80°E. and S.80°W.

Gradually descend over NW. slope.

32.75 Bottom of swale, 165 ft. below sec. cor., drains N.

Ascend over rocky NE. slope.

33.80 Leave dense timber, bears N. and S.

37.90 Spur, 115 ft. above swale, projects N.

Gradually descend over rocky NW. slope towards saddle.

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

S 16
¼
S 21
1915

from which

A pine, 6 ins. diam., bears S.83°W., 64 lks. dist., marked ¼ S 21 B T

A pine, 4 ins. diam., bears N.58°W., 28 lks. dist., marked ¼ S 16 B T

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

40.20 Enter dense pine and fir timber, bears N. and S.

45.70 Bottom of head of low pass in ridge between Indian and Duck Fork Creeks, 90 ft. below ¼ sec. cor.

Ascend abruptly over E. slope of divide.

66.45 Leave dense timber, bears N. and S.

70.85 Top of E. edge of divide between Castle and San Pete Valleys, 450 ft. above saddle in ridge, bears N. and S.

Thence over rolling land on top of divide.

80.20 The cor. of secs. 16,17,20 and 21

Land, rough mountainous general NE. exposure and drainage.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Soil, rocky of limestone formation mixed with some rich, shallow black loam on gravelly and rocky sub-soil. |
| | Timber, pine and fir. |
| | Undergrowth, grass and weeds. |
| | Fair grazing. |
| | August 7,1915. |
| | --- |
| | August 10: At 8h.a.m. apparent time, I set off 39°10' on the lat. arc; 15° 47'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16,17,20 and 21. |
| | Thence I run |
| | N.0°02'W., bet. secs. 16 and 17. |
| | Over rolling mountain along brink of W. slope of divide between Castle and San Pete Valleys, through dense pine and fir timber and undergrowth of weeds and grass. |
| 9.35 | Leave timber, bears E. and W. Thence over grassy flat to brink of E. slope of divide. |
| 14.65 | Leave mountain top, bears N.20°W. and S.20°E. |
| | Gradually descend along rocky E. slope. |
| 40.00 | Near base of rocky E. slope and at head of Duck Fork Canyon, 250 ft. below brink. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 17 ¼ \| S 16 ✓<br>1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Thence along base of slide over scattering large boulders. |
| 54.20 | Dense pine and fir timber, bears N. and S. is immediately E. of line. |
| 80.00 | 70 ft. below ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | the ground for cor. of secs. 8,9,16 and 17, with brass cap marked |
| | T 19 S \| R 4 E<br>S 8 \| S 9<br>S 17 \| S 16<br>1915 |
| | from which |
| | A pine, 16 ins. diam., bears N.54½°E., 32 lks. dist., marked T 19 S R 4 E S 9 B T ✓ |
| | A pine, 22 ins. diam., bears S 18°E., 119 lks. dist., marked T 19 S R 4 E S 16 B T ✓ |
| | A pine, 22 ins. diam., bears S.24°W., 115 lks. dist., marked T 19 S R 4 E S 17 B T ✓ |
| | A pine, 24 ins. diam., bears N.19°W., 46 lks. dist., marked T 19 S R 4 E S 8 B T ✓ |
| | Land, mountainous, lying on top and on E. slope of divide between Castle and San Pete Valleys. |
| | Soil, rocky of limestone formation with some shallow mountain loam on gravel and moist sticky clay and rock sub-soil. |
| | Timber, pine and fir |
| | Undergrowth, grass and weeds. |
| | Fair grazing. |
| | August 10: At this cor., I set off 15° 44' N., on the decl. arc; and at apparent noon observe the sun on the meridian; the resulting lat. is 39° 10'. |
| | --- |
| | N.89°47'E., on a random line bet. secs. 9 and 16 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.07 | Intersect N. and S. line at the cor. of secs. 9,10,15 and 16. |
| | Thence |
| | S.89°47'W., on true line bet. secs. 9 and 16 |
| | Gradually ascend over mountainous land at W. end of Duck Fork Canyon, through scattering aspen, pine and fir timber and undergrowth of grass and weeds. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| 2.85 | Leave pine and fir timber, bears N. and S. |
| 10.30 | Head of wash; 4 ft. wide, 5 ft. deep, drains S. |
| 16.80 | Enter aspen timber, very dense in places, bears N. and S. |
| 31.25 | Leave aspen timber, thence through scattering pine and fir, bears N. and S. |
| 40.03½ | On gradual E. slope 320 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 9 / ¼ / S 16 / 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No trees within limits. |
| | Continue ascent over E. slope towards high divide. |
| 80.07 | The cor. of secs. 8,9, 16 and 17, 475 ft. above ¼ sec.cor. |
| | Land, mountainous, general E. exposure and drainage. |
| | Soil, rich black loam mixed with gravel and rock on sub-soil of moist sticky loam mixed with rock. |
| | Timber, aspen, pine and fir. |
| | Undergrowth, grass and weeds. |
| | Good grazing. |
| | August 10,1915. |

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August 11: At 8h. 30m.a.m. apparent time., I set off 39°10' on the lat. arc; 15° 29'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 8,9,16 and 17

Thence I run

N.0°02'W., bet. secs. 8 and 9

Gradually ascend over rocky SE. slope from head of Duck Fork canyon over mountainous land through dense pine and fir timber and undergrowth of chaparral, grass and weeds.

5.80 Top of SE. slope, thence over SW. slope.

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| 18.35 | Top of ascent and top of mountain and divide between Duck and Lake Fork Creeks, 150 ft. above sec. cor., bears NE. and SW. |
| | Leave dense timber, thence across top of mountain. |
| 27.90 | Leave top of mountain, bears E. and W. |
| | Descend abruptly over rocky E. slope into head of Lake Fork Canyon. |
| 33.90 | Enter dense pine and fir timber, bears E. and W. |
| 40.00 | Point falls on steep rocky E. slope 210 ft. below divide. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 8 ¼ \| S 9 √ |
| | 1915 |
| | from which |
| | A pine, 12 ins. diam., bears S.64½°E., 43 lks. dist., marked ¼ S 9 B T √ |
| | A pine, 8 ins. diam., bears N.79°W., 12 lks. dist., marked ¼ S 8 B T √ |
| | Continue along E. slope. |
| 80.00 | 280 ft. below ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 4,5,8 and 9, with brass cap marked |
| | T 19 S. \| R 4 E<br>S 5 \| S 4 √<br>S 8 \| S 9 |
| | 1915 |
| | from which |
| | A pine, 6 ins. diam., bears N.72°E., 57 lks. dist., marked T 19 S R 4 E S 4 B T √ |
| | A pine, 30 ins. diam., bears S.80°E., 90 lks. dist., marked T 19 S R 4 E S 9 B T √ |
| | A pine, 14 ins. diam., bears S.39°W., 108 lks. dist., marked T 19 S R 4 E S 8 B T √ |
| | A pine, 8 ins. diam., bears N.44½°W., 124 lks. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | dist., marked T 19 S R 4 E S 5 B T |
| | Land, rough mountains, general E. exposure and drainage, near top of divide between Castle and San Pete Valleys. |
| | Soil, shallow black loam mixed with rock on moist sticky loam sub-soil. |
| | Timber, pine and fir. |
| | Undergrowth, chaparral, grass and weeds. |
| | Good grazing. |
| | August 11: Walking on line at noon, obsn. for lat. not taken. |
| | --- |
| | N.89° 47'E., on random line bet. secs. 4 and 9 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.26 | Intersect N. and S. line 5 lks. N. of the cor. of secs. 3, 4,9 and 10 |
| | Thence |
| | S.89°49'W., on a true line bet. secs. 4 and 9. |
| | Over mountainous land, ascending towards head of Lake Fork canyon through dense aspen and scattering pine and fir timber and undergrowth of weeds and grass. |
| 7.95 | Leave aspen timber, bears N. and S. |
| 20.70 | Leave pine and fir timber, bears N. and S. Thence over open land. |
| 27.50 | A small swale lined with dense willows, drains S. |
| 40.13 | On nearly level grassy flat, 430 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked S 4 / ¼ / S 9 / 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 42.25 | Stream, 2 lks. wide, 1 in. deep, good water, flows SE. |
| 50.30 | Enter scattering pine and fir timber, bears N. and S. |
| 60.95 | Enter dense pine and fir timber, bears N. and S. |

| chains | |
|---|---|
| 74.85 | Pond of stagnant water, 1 ch. wide, 2 chs. long, bears N. and S. |
| 80.26 | The cor. of secs. 4,5,8 and 9, 300 ft. above ¼ sec. cor. |
| | Land, mountainous, general E. exposure and drainage. |
| | Soil, rich, black mountain loam mixed with gravel and rock on moist, sticky clay sub-soil. |
| | Timber, pine, fir and aspen. |
| | Undergrowth, chaparral, grass and weeds. |
| | Good grazing. |
| | August 11,1915. |
| | Isaac Hayes |
| | U. S. Transitman. |
| | August 12: For solar obsn. see line bet. secs. 5 and 6 N.0°02'W., on true line bet. secs. 4 and 5 |
| | Over mountainous land facing E., near top of divide between Castle and San Pate Valleys, through dense pine and fir timber and undergrowth of chaparral, grass and weeds. |
| | Gradually descend. |
| 7.00 | Leave timber, bears NW. and SE. |
| 7.70 | Enter grassy meadow, bears NW. and SE. |
| 10.70 | A pond, 50 x 50 ft. bears E. about 1.15 chs. |
| 16.00 | Leave meadow, bears NE. and SW. |
| | Begin ascent over rocky SE. slope of divide. |
| 40.00 | On rocky E. slope, 170 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone and earth on solid rock for ¼ sec. cor., with brass cap marked |
| | S 5 ¼ \| S 4 √ |
| | 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Continue ascent. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| 44.45 | Top of ridge and divide between San Pete and Castle valleys 60 ft. above ¼ sec. cor., bears NE. and SW. |
| | Enter scrub pine timber and gradually ascend along E. side of ravine which heads to the W. |
| 59.40 | Leave timber, bears NW. and SE. |
| 69.40 | Top of ascent, bears NW. and SE. |
| | Thence gradually descend along rolling land on top of divide. |
| 90.40 | Head of swale and Middle Fork of Six Mile creek, 60 ft. below top of ascent, drains W. |
| | Gradually ascend. |
| 107.39 | Intersect N. bdy. of the Tp., 1.86 chs. West of the cor. of secs. 4,5,32 and 33 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. 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 |

T 18 S
S 32 | S 33
R 4 E CC
S 5 | S 4
T 19 S
1915

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

I destroy all marks on old cor. pertaining to T.19 S.

Land, rolling mountain top and rough mountainous, drains E. and W. from divide.

Soil, light, shallow sandy loam mixed with gravel and rocks on sub-soil of mountain loam, moist and packed hard.

Timber, pine and fir.

Undergrowth, weeds and grass. Good grazing.

August 12: At this cor. I set off 15° 08'N., on the decl.

| chains | |
|---|---|
| | arc; and at apparent noon obs. the sun on the mer.; the resulting lat. is 39° 12'. |
| | August 12,1915. |
| | Howard W. Miller. U. S. Surveyor. |
| | August 5: At 9 h.a.m. apparent time, I set off 39°07' on the lat. arc; 17° 10'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6,31 and 32 on the S. bdy. of the Tp. heretofore described. |
| | Thence I run |
| | N.0°03'W., bet. secs. 31 and 32 |
| | Gradually ascend over rolling mountainous bench lands draining W. to base of Mt. Baldy, through dense undergrowth of weeds and grass. |
| 21.45 | Enter rough mountainous land, bears NW. and SE. Enter heavier undergrowth and begin ascent over W. slope. |
| 28.55 | Small ravine, drains W. A few scattering pines, bears E. and W. Ascend abruptly over S. slope. |
| 40.00 | Point falls on steep SW. slope 600 ft. above sec. cor. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 31 ¼ \| S 32<br>1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| 49.25 | Top of steep ascent and enter dense pine and fir timber, 130 ft. above ½ sec. cor., bears E. and W. |
| | Gradually descend. |
| 57.25 | Bottom of ravine, 30 ft. below top of ascent, drains SW. |
| | Gradually ascend to base of steep ascent. |
| 61.15 | Head of spring, 1 lk. wide, 1 in. deep, good water, flows SW. |

Subdivision of T.19 S., R.4 E.

chains

66.70 Base of steep ascent, thence over steep rocky S. slope over series of broken ledges.

74.55 Top of steep ascent and leave dense timber, 330 ft. above ravine, bears E. and W.

Gradually ascend over rolling mountain top.

80.00 On S. slope, 30 ft. above top of steep ascent.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 29,30,31 and 32, with brass cap marked

| | |
|---|---|
| T 19 S<br>S 30 | R 4 E<br>S 29 |
| S 31 | S 32 |

1915

from which

A pine, 7 ins. diam., bears N.28°E., 59 lks. dist., marked T 19 S R 4 E S 29 B T

A pine, 30 ins. diam., bears S.32¼°E., 406 lks. dist., marked T 19 S R 4 E S 32 B T

A pine, 10 ins. diam., bears S.33½°W., 218 lks. dist., marked T 19 S R 4 E S 31 B T

A pine, 7 ins. diam., bears N.80½°W., 170 lks. dist., marked T 19 S R 4 E S 30 B T

Land, rough mountainous, general SW. exposure and W. drainage.

Soil, Shallow mountain loam mixed with rock on sandy and rocky sub-soil, very moist and packed hard.

Timber, pine and fir.

Undergrowth, grass and weeds.

Good grazing.

August 5: The sky is overcast at noon, obsn. for lat. is impossible.

August 5,1915.

Isaac Hayes

U. S. Transitman.

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August 6: At 8h. a.m. apparent time, I set off 39°08' on the lat. arc; 16° 55'N., on the decl. arc; and determine

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | a meridian with the solar atthe cor. of secs. 29,30, 31 and 32. |
| | Thence I run |
| | East, on a random line bet. secs. 29 and 32. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.22 | Intersect N. and S. line 25 lks. S. of the cor. of secs. 28,29,32 and 33. |
| | Thence |
| | S.89°49'W.√, on true line bet. secs. 29 and 32. |
| | Gradually ascend over rolling mountainous bench land at S. end of Twelve mile flats through scattering pine and fir timber and undergrowth of grass and weeds. |
| 2.80 | Forest Service Telephone line, Mayfield to Emery, Utah, bears NW. and SE. |
| 40.11 | Near base of E. slope of Mt. Baldy, 220 ft. above sec.cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor.,with brass cap marked |
| | S 29 / ¼ / S 32 / 1915 √ |
| | from which |
| | A pine, 8 ins. diam., bears S.50°W., 82 lks. dist., marked ¼ S 32 B T √ |
| | A spruce, 10 ins. diam., bears N.2°W., 30 lks. dist., marked ¼ S 29 B T √ |
| 47.90 | Rocky swale, drains N. Base of steep ascent of Mt. Baldy bears NW. and SE. Thence up steep rocky NE. slope over broken limestone ledges, shale and slide rock. |
| 69.75 | Top of high ridge of mountain, 470 ft. above ¼ sec. cor., bears NW. and SE. |
| | Gradually descend over W. slope of rolling mountain top. |
| 78.30 | Swale, 112 ft. below ridge, drains S. |
| | Ascend 25 ft. to |
| 80.22 | The cor. of secs. 29,30,31 and 32. |
| | Land, rough broken mountains, E. exposure and drainage on E. 69.75 chs. and rolling mountain top draining SW. on |

| chains | |
|---|---|
| | remainder of mile. |
| | Soil, loose shales, limestone rocks and some black loam on gravelly and rocky sub-soil. |
| | Timber, pine and fir |
| | Undergrowth, grass and weeds. Good grazing. |
| | August 6,1915. |
| | Howard W. Miller |
| | U. S. Surveyor. |
| | --- |
| | August 5: For solar obsn. see line bet. secs. 31 and 32 |
| | West, on a random line bet. secs. 30 and 31 |
| 40.00 | Set temp. ¼ sec. cor. |
| 53.45 | Intersect W. bdy. of the Tp. 23 lks. N. of the cor. of secs. 25,30,31 and 36, heretofore described. |
| | Thence |
| | N.89°45'E., on a true line bet. secs. 30 and 31 |
| | Over rough mountainous land, ascending abruply over W. face of Mt. Baldy, over slide rock and boulders, through dense aspen and scattering pine timber and undergrowth of grass and weeds. |
| 4.20 | Leave dense aspen timber, bears N. and S. Thence through scattering scrub pine timber. |
| 13.45 | On W. slope, 245 ft. above sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 30 / ¼ / S 31 / 1915 ✓ |
| | from which |
| | A pine, 20 ins. diam., bears N.56°E., 18 lks. dist., marked ¼ S 30 B T ✓ |
| | A pine, 48 ins. diam., bears S.51°E., 120 lks. dist., marked ¼ S 31 B T ✓ |
| | Continue very steep ascent over SW. slope. |
| 25.45 | Thence over W. slope. |
| 29.30 | Leave timber and undergrowth, bears N. and S. Thence over |

| chains | |
|---|---|
| | bare surface. |
| 35.55 | Top of steep ascent on W. slope, thence over nearly S. slope. |
| 42.10 | Top of W. rim of Mt. Baldy, 895 ft. above ¼ sec. cor., bears NW. and SE. |
| | Enter scattering pine and fir timber, gradually descend. |
| 53.45 | The cor. of secs. 29,30,31 and 32, 110 ft. below rim. |
| | Land, very rough mountainous, drains W.; greater portion of mile on W. slope of mountain void of any vegetation. |
| | Soil, rocky of limestone formation, mixed with loose shales and some shallow loam on rocky sub-soil. |
| | Timber, pine, fir and aspen. |
| | Undergrowth, some grass and weeds. |
| | August 5,1915. |
| | Isaac Hayes |
| | U. S. Transitman. |
| | August 6: For solar obsm. see line bet. secs. 29 and 32. N.0°03'W., bet. secs. 29 and 30 |
| | Gradually ascend over rolling top of Mt. Baldy, over land sloping E. and draining S., through pine and fir timber and undergrowth of chaparral, grass and weeds. |
| 8.00 | Head of swale; drains S.20°E. Gradually ascend over SW. slope. |
| 23.75 | Brink of E. side of Mt. Baldy, 100 ft. above sec. cor., bears NW. and SE. Leave timber and undergrowth, descend precipitous NE. slopes over slide rock, ledges and boulders. |
| 31.30 | Base of steep descent and enter pine and spruce timber, bears NW. and SE. |
| | Continue descent over large boulders. |
| 40.00 | On nearly E. slope, 440 ft. below brink of mountain. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 30 ¼ \| S 29 |
| | 1915 |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | from which |
| | A pine, 10 ins. diam., bears S.49°E., 17 lks. dist., marked ¼ S 29 B T ✓ |
| | A pine, 16 ins. diam., bears S.78¾°W., 27½ lks. dist., marked ¼ S 30 B T ✓ |
| | Thence over nearly E. slope. |
| 52.30 | Base of descent, 100 ft. below ¼ sec. cor. Leave timber. |
| | Ascend abruptly over grassy SE. slope. |
| 58.20 | Top of ridge spur, 80 ft. above base of descent, bears NE. and SW. The N. point of slide on the highest part of Mt. Baldy bears SW. about 15 chs. |
| | Begin abrupt descent over N. slope of Mt. Baldy. |
| 60.00 | Enter very dense pine and spruce timber, bears N.80°E. and SW. |
| | August 6: Raining at noon, obsn. for lat. is impossible. |
| 72.10 | Begin descent over ledges, bears E. and W. |
| 75.00 | Base of ledges, bears E. and W. |
| 80.00 | On N. slope of mountain, 725 ft. below spur. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 19,20,29 and 30, with brass cap marked |

| T 19 S | R 4 E |
|---|---|
| S 19 | S 20 |
| S 30 | S 29 |

1915

from which

A pine, 8 ins. diam., bears N.58°E., 90 lks. dist., marked T 19 S R 4 E S 20 B T ✓

A pine, 11 ins. diam., bears S.23°E., 44 lks. dist., marked T 19 S R 4 E S 29 B T ✓

A pine, 12 ins. diam., bears S.80°W., 163 lks. dist., marked T 19 S R 4 E S 30 B T ✓

A pine, 8 ins. diam., bears N.65½°W., 168 lks. dist., marked T 19 S R 4 E S 19 B T ✓

From this cor., door on cabin at dairy bears N.27°20'E. The only point on line that cabin is visible.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Cabin at MT. Baldy Forest Rangers Station, bears N.16° 30'E. |
| | Land, rough mountainous with NE. exposure except S. 23.75 chains which slopes S. Line follows general E. and N. sides of Mt. Baldy. |
| | Soil, rocky of limestone formation on rocky sub-soil. |
| | Timber, pine and spruce. |
| | Undergrowth, grass and weeds. |
| | Fair grazing. |
| | August 6,1915. |
| | --- |
| | August 7: At 7h. 30m.a.m. apparent time, I set off 39°09' on the lat. arc; 16° 39'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19,20,29 and 30. |
| | Thence I run |
| | N.89°49'E., on random line bet. secs. 20 and 29. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.18 | Intersect N. and S. line at the cor. of secs. 20,21,28 and 29 |
| | Thence |
| | S.89°49'W., on a true line bet. secs. 20 and 29 |
| | Descend abruptly over W. slope of divide over land strewn with large boulders and through undergrowth of chaparral, grass and weeds. Scattering pine timber on both sides of line. |
| 11.10 | Stream in small swale, 1 lk. wide, 1 in. deep, good water flows NW. |
| 16.15 | Head of springs, covering area of 15 ft., flow NW. Stream at 11.10 chs. joins springs at this point. |
| 22.80 | Enter dense pine and aspen tim ber, bears N. and S. |
| 34.00 | Bottom of canyon and Twelve Mile Creek, 4 lks. wide, 2 ins. deep, good water, 515 ft. below sec. cor., flows N. Ascend abruptly. Leave dense pine,brs.N and S. |
| 37.00 | Top of abrupt ascent, thence over land sloping N. at N. end of Twelve Mile Flat and Mt. Baldy. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| 39.05 | Road, Mayfield to Emery and Ferron, Utah, bears N. and S. |
| 40.09 | 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<br>S 20<br>¼<br>S 29<br>1915<br>raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | No suitable trees within limits. |
| 49.00 | Forest Service Telephone line, Mayfield to Emery, Utah, bears N. and S.E. |
| 57.00 | Enter dense pine timber, bears N. and S. |
| 67.15 | Wire fence, bears N.20°E. and S.20°W. |
| 80.18 | The cor. of secs. 19,20,29 and 30. |
| | Land, mountainous, general NW. exposure and drainage. |
| | Soil, rich black mountain loam, mixed with gravel and rocks on sub-soil of rich brown loam, packed hard and very moist. |
| | Timber, pine, fir and scattering aspen. |
| | Undergrowth, chaparral , grass and weeds. |
| | Good grass for grazing. |
| | --- |
| | S.89° 45'W., on a random line bet. secs. 19 and 30 |
| 40.00 | Set temp. ¼ sec. cor. |
| | August 7: Walking on line at noon, obsn. for lat. not taken. |
| 53.35 | Intersect W. bdy. of the township at the cor. of secs. 19,24,25 and 30 heretofore described. |
| | Thence |
| | N.89°45'E., on true line bet. secs. 19 and 30 |
| | Gradually ascend over mountainous bench land sloping W., through aspen and scattering pine timber and undergrowth chaparral, grass and weeds. |
| 9.70 | Begin steep ascent, bears N. and S. |
| 13.35 | 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

S 19
¼
S 30
1915

from which

An aspen, 7 ins. diam., bears S.82°W., 51 lks. dist., marked ¼ S 30 B T

An aspen, 5 ins. diam., bears N.57½°W., 36 lks. dist., marked ¼ S 19 B T

14.85 Top of steep ascent, 110 ft. above sec. cor., bears NE. and SW.

Thence over rolling bench, slopes N.

17.35 Leave aspen timber, bears N. and S.

32.25 Enter pine, fir and scattering aspen timber, bears N. and S.

33.60 Stream, 1 lk. wide, 1 in. deep, good water, flows N.

Leave bench, ascend abruptly over W. slope.

35.95 Top of steep ascent, bears N. and S. Continue ascent over NW. slope.

42.20 Top of spur, 200 ft. above stream, projects N.

Descend over general N. slope, 175 ft. to

53.35 The cor. of secs. 19,20,29 and 30.

Land, mountainous at N. end of Mt. Baldy, general N. exposure and drainage.

Soil, rich mountain loam and decayed vegetation mixed with gravel and rocks on sub-soil of dark brown loam, moist packed hard and mixed with rock.

Timber, aspen, pine and fir.

Undergrowth, chaparral, grass and weeds.

Good grazing.

---

N.0°03'W., bet. secs. 19 and 20

Over rough mountainous land facing and draining N., through dense young pine and spruce timber and undergrowth of chaparral, deer brush, weeds and grass.

Descend abruptly.

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| 4.50 | Descend more gradually. |
| 18.60 | Base of descent and leave timber, bears NW. and SE., 140 ft. below sec. cor. |
| | Thence over open grassy flat. |
| 20.85 | Small wash in flat, drains NW. Gradually ascend. |
| 22.30 | Enter aspen and pine timber, bears NW. and SE. |
| 23.70 | Forest Service Telephone line, Mayfield to Emery, Utah, bears E. and W. |
| 24.75 | Top of spur, 10 ft. above wash, projects W. |
| | Forest Rangers cabin at Mt. Baldy Forest Rangers Station, bears approximately E. |
| | Descend abruptly over N. slope. |
| 25.55 | Wire fence, bears E. and W. |
| 31.00 | Bottom of canyon and Twelve Mile creek, 10 lks. wide, 2 to 3 ins. deep, good water, flows NW., 100 ft. below spur. Ascend. |
| 34.50 | Road, Mayfield to Ferron and Emery, Utah, bears E. and W. |
| | House at dairy bears approximately E. |
| 40.00 | On S. slope, 95 ft. above canyon. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

S 19 ¼ | S 20

1915

from which

An aspen, 7 ins. diam., bears N.3°E., 38 lks. dist., marked ¼ S 20 B T

An aspen, 8 ins. diam., bears N.63¼°W., 24 lks. dist. marked ¼ S 19 B T

August 7, 1915.

Howard Miller

U. S. Surveyor

August 9: At 7h. 30m.a.m. apparent time., I set off 39°09' on the lat. arc; 16° 05'N., on the decl. arc; and determine a meridian with the solar at the ¼ sec.cor.

Thence I continue

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| | N.0°03'W. |
| | Continue ascent over S. slope through dense aspen timber. |
| 50.30 | Leave timber, bears E. and W. |
| 55.00 | Small patch of aspen about 1 ch. E. of line. |
| 74.65 | Top of steep ascent and edge of bench, enter scattering pine timber, bears E. and W. |
| | Thence over very rocky bench. |
| 80.00 | On bench at base of steep slides , 935 ft. above sec. cor. on S. slope of mountain. |
| | 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. 17,18,19 and 20, with brass cap marked |

| | |
|---|---|
| T 19 S | R 4 E |
| S 18 | S 17 |
| S 19 | S 20 |

1915

from which

A pine, 8 ins. diam., bears N.4¾°E., 85 lks. dist., marked T 19 S R 4 E S 17 B T ✓

A pine, 10 ins. diam., bears S.11°E., 124 lks. dist., marked T 19 S R 4 E S 20 B T ✓

A pine, 8 ins. diam., bears S.11°W., 123 lks. dist., marked T 19 S R 4 E S 19 B T ✓

No tree in sec. 18

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

Land, rough mountainous, slopes N. and S. into Twelve Mile Canyon which drains W.

Soil, rich black loam mixed with rock on sub-soil of moist, sticky clay, packed hard and mixed with rock.

Timber, aspen, pine and fir.

Undergrowth, chaparral, deer brush, grass and weeds.

Good grazing.

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N.89°49'E., on a random line bet. secs. 17 and 20.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |
| 80.10 | Intersect N. and S. line 7 lks. S. of the cor. of secs. 16,17,20 and 21. |
| | Thence |
| | S.89°46'W., on true line bet. secs. 17 and 20. |
| | Desend abruptly over W. face of mountain from Divide between Castle and San Pete Valleys , over slide rock and through scattering pine and fir timber and undergrowth of chaparral. |
| 13.15 | Leave slide rock and enter dense timber and undergrowth, thence over more gradual slope. |
| 40.05 | On W. slope, 715 ft. below sec. cor. |
| | 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., with brass cap marked |
| | S 17 / ¼ |
| | S 20 / 1915 |
| | from which |
| | A fir, 16 ins. diam., bears S.39¼°E., 203 lks. dist., marked ¼ S 20 B T |
| | A fir 24 ins. diam., bears N.20½°E., 143 lks. dist., marked ¼ S 17 B T |
| 43.40 | Old road from Six Mile to Twelve Mile canyon, bears N. and S. Crosses low divide about 10 chs. N. |
| 46.90 | Bottom of ravine and stream, 1 lk. wide, 1 in. deep, good water, 40 ft. below ¼ sec. cor., drains SW. |
| | Ascend. |
| 54.80 | Begin steep ascent. |
| 63.30 | Top of steep ascent, asc. more gradually. |
| 77.95 | Spur, 455 ft. above stream , projects SE. |
| | Thence over bench at base of slide. |
| 80.10 | The cor. of secs. 17,18,19 and 20. |
| | Land, rough mountainous, general S. exposure and drainage. |
| | Soil, rocky of limestone formation on sub-soil of moist clay, packed hard and mixed with gravel and rocks. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Timber, pine and fir. |
| | Undergrowth, chaparral, grass and weeds. Good grazing. |
| | --- |
| | S.89°45'W., on a random line bet. secs. 18 and 19 |
| 40.00 | Set temp. ¼ sec. cor. |
| 53.19 | Intersect W. bdy. of the Tp. at the cor. of secs. 13,18, 19 and 24, heretofore described |
| | Thence |
| | N.89°45'E., on true line bet. secs. 18 and 19 |
| | Over rough mountainous land facing S., through dense undergrowth of willows. Gradually ascend. |
| 3.45 | Leave dense willows, enter aspen and scattering pine timber, bears N. and S. |
| 7.55 | Head of stream, 1 lk. wide, 1 in. deep, good water, flows SW. Leave timber, enter dense willow undergrowth, bears N. and S. |
| 10.40 | Leave dense willows, enter aspen timber, bears N. and S. |
| 13.19 | On SW. slope of mountain, 180 ft. above sec. cor. |
| | 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., with brass cap marked |
| | S 18 / ¼ / S 19 / 1915 ✓ |
| | from which |
| | An aspen, 8 ins. diam., bears S.66°W., 44 lks. dist., marked ¼ S 19 B T ✓ |
| | An aspen, 8 ins. diam., bears N.41°W., 51 lks. dist., marked ¼ S 18 B T ✓ |
| | Leave aspen, bears NW. and SE. Ascend abruptly. |
| 33.40 | Enter scattering pine timber and large boulders, bears N. and S. |
| 38.00 | Top of steep ascent, gradually ascend along S. slope. |
| 40.85 | Leave timber, bears N. and S. |
| | Thence along S. slope at base of large slide. |
| 48.15 | Top of ascent, gradually descend. |

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| 53.19 | The cor. of secs. 17,18,19 and 20, 590 ft. above ¼ sec. cor. |
| | Land, rough mountainous, general S. exposure and drainage. |
| | Soil, rocky of limestone formation with some rich black loam on sub-soil of moist, sticky clay, packed hard and mixed with rock. |
| | Timber, aspen, scattering pine and fir. |
| | Undergrowth, willow, chaparral, weeds and grass. |
| | Good grazing. |
| | N.0°03'W., bet. secs. 17 and 18 |
| | Over rough mountainous land sloping S., ascend abruptly over large boulders and slide rock. |
| 3.61 | Top of ascent on E. slope, divide between Six and Twelve mile canyons, 130 ft. above sec. cor., bears E. and W. |
| | Enter dense pine timber and scattering undergrowth, gradually descend over NE. slope. |
| 11.45 | Descend abruptly. |
| 24.40 | Base of steep descent, descend more gradually. |
| 40.00 | On N. slope 295 ft. below divide. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of stone and earth on solid rock for ¼ sec. cor. with brass cap marked |

S 18 ¼ | S 17

1915

from which

A pine, 24 ins. diam., bears N.44¼°E., 57 lks. dist., marked ¼ S 17 B T

A pine, 26 ins. diam., bears N.22¾°W., 18 lks. dist., marked ¼ S 18 B T

August 9: In shade of large trees at noon, obsn. for lat. not taken.

Subdivision of T.19 S.,R.4 E.

chains

August 9,1915.

Isaac Hayes
U. S. Transitman

August 10: At 8h.a.m. apparent time, I set off 39° 10' on the lat. arc; 15° 47'N., on the decl. arc; and determine a meridian with the solar at the ¼ sec. cor.

Thence I continue

N.0°03'W.

47.80 Begin steep descent over N. slope.

53.35 Base of steep descent, 120 ft. below ¼ sec. cor., bears NW. and SE.

Thence over small bench.

59.00 Beginvery steep descent over N. slope.

64.15 Base of steep descent, descend more gradually.

71.05 Head of spring, 3 ft. in diam., flows stream 4 lks. wide, 3 ins. deep, good water, flows NE., 300 ft. below ¼ sec. cor.

Gradually ascend.

74.50 Leave dense timber, bears E. and W.

77.80 Old wood road, bears NW. and SE., also road from Six Mile to Twelve Mile canyon.

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

| | |
|---|---|
| T. 19 S<br>S 7 | R 4 E<br>S 8 |
| S 18 | S 17 |

1915

from which

A pine, 8 ins. diam., bears N.75½°E., 342 lks. dist., marked T 19 S R 4 E S 8 B T

A pine, 38 ins. diam., bears S.36¼°E., 387 lks. dist., marked T 19 S R 4 E S 17 B T

A pine, 32 ins. dia., bears S.44½°W., 209 lks. dist., marked T 19 S R 4 E S 18 B T

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | A pine, 17 ins. diam., bears N.73¾°W., 453 lks. dist., marked T 19 S R 4 E S 7 B T. |
| | Land, rough mountainous, NE. exposure and N. drainage on N. 76.39 chs. and S. exposure and drainage on S.3.61 chs. |
| | Soil, rocky and gravelly mixed with shallow black loam on gravelly and rocky sub-soil. Surface strewn with large boulders. |
| | Timber, pine and fir. |
| | Undergrowth, chaparral, grass and weeds. Fair grazing. |
| | --- |
| | N.89° 46'E., on a random line bet. secs. 8 and 17 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.30 | Intersect N. and S. line 2 lks. N. of the cor. of secs. 8,9,16 and 17. |
| | Thence |
| | S.89°47'W., on true line bet. secs. 8 and 17. |
| | Over rough mountainous land through pine, fir and spruce timber and undergrowth of chaparral weeds and grass. |
| | Ascend abruptly E. slope of divide |
| 4.40 | Top of divide between Castle and San Pete Valleys, 90 ft. above sec. cor., bears N.30°E. and S.30°W. |
| | Gradually descend over nearly N. slope, crossing many small streams flowing N. |
| 27.80 | Top of N. point of ledges and slide rock, bears S. |
| | Descend abruptly. |
| 29.80 | Base of slide, bears S. and NE. Gradually descend W. slope. |
| 40.15 | On W. slope, 500 ft. below divide. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 8 / ¼ / S 17 / 1915 |
| | from which |
| | A fir, 16 ins. diam., bears N.47½°E., 33½ lks. |

Subdivision of T.19 S., R.4 E.

| chains | |
|---|---|
| | dist., marked ¼ S 8 B T |
| | A fir, 9 ins. diam., bears S.¼°W., 8 lks. dist., marked ¼ S 17 B T |
| 70.90 | Base of descent and bottom of S. Fork of Six Mile Canyon and creek, 3 lks. wide, 2 ins. deep, good water, 470 ft. below ¼ sec. cor., flows N. |
| | Gradually ascend. |
| 76.10 | Stream, 3 lks. wide, 1 in. deep, good water, flows into pond about 1 ch. N. |
| 80.30 | The cor. of secs. 7,8,17 and 18, 30 ft. above bottom of canyon. |
| | Land, rough mountainous, slopes E. and W. into canyons. Six mile canyon to the W., drains NW., Lake Fork Canyon to the E., drains NE. |
| | Soil, rich black mountain loam, decayed vegetation and rocky on sub-soil of moist, sticky clay loam, packed hard and mixed with gravel and rocks. |
| | Timber, pine, fir and spruce. |
| | Undergrowth, weeds and grass. Good grazing. |
| | August 10: At this sec. cor., I set off 15° 44'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 10' |
| | --- |
| | S.89°45'W., on a random line bet. secs. 7 and 18 |
| 40.00 | Set temp. ¼ sec. cor. |
| 53.07 | Intersect W. bdy. of the Tp. at the cor. of secs. 7,12, 13 and 18 heretofore described. |
| | Thence |
| | N.89°45'E., on true line bet. secs. 7 and 18 |
| | Gradually descend over mountainous land sloping E. into S. Fork of Six Mile Canyon, through pine, fir and scattering aspen timber and undergrowth of weeds and grass. |
| 13.07 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | S 7 / S 18 1915 |
| | from which |
| | A pine, 16 ins. diam., bears S.80°E., 100 lks. dist., marked ¼ S 18 B T |
| | A pine, 12 ins. diam., bears N.17½°W., 112 lks. dist., marked ¼ S 7 B T |
| 36.45 | Begin steep descent over E. slope and leave dense timber, bears N. and S. |
| 43.25 | Base of steep descent and enter dense timber, bears N. and S. Gradually descend. |
| 48.05 | Leave dense timber, bears N. and S. |
| 51.50 | Road, Six Mile to Twelve Mile Canyons, bears NW. and SE. |
| 53.07 | The cor. of secs. 7,8,17 and 18, 400 ft. below W. bdy. of the Tp. |
| | Land, mountainous, slopes and drains E. into Six mile Canyon. |
| | Soil, gravell and rocky mixed with shallow mountain loam on sub-soil of gravel and rock. |
| | Timber, pine, fir and scattering aspen. |
| | Undergrowth, weeds and grass. Good grazing. |
| | August 10,1915. |

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August 11: At 8h.a.m. apparent time, I set off 39°10' on the lat. arc; 15° 30' N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7,8, 17 and 18

Thence I run

N.0°03'W., bet. secs. 7 and 8

Gradually descend over rolling mountainous land sloping NE., near bottom of S. fork of Six Mile Canyon, through pine and fir timber and undergrowth of grass and weeds.

Considerable dead and fallen timber on line.

| | |
|---|---|
| 36.40 | Enter marshy ground, bears E. and W. about 1 ch. |
| 38.40 | Leave marsh ground, bears E. 1 ch. and W. about 50 lks. |

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| 39.50 | Stream from marsh, 3 lks. wide, 1 in. deep, good water, flows NE. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |

S 7 ¼ | S 8 ✓

1915

from which

A pine, 14 ins. diam., bears N.88½°E., 42 lks. dist., marked ¼ S 8 B T ✓

A fir, 20 ins. diam., bears N.68½°W., 34 lks. dist., marked ¼ S 7 B T ✓

Continue gradual descent.

| | |
|---|---|
| 71.75 | Bottom of S. fork of Six Mile Canyon and creek, 5 lks. wide, 2 ins. deep, good water, 425 ft. below sec. cor., flows NW. |

Leave timber, bears NW. and SE.

Gradually ascend over SW. slope 35 ft. to

| | |
|---|---|
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 5,6,7 and 8, with brass cap marked |

T 19 S | R 4 E

| S 6 | S 5 |
|---|---|
| S 7 | S 8 |

✓

1915

from which

An aspen, 9 ins. diam., bears N.72¾°E., 274 lks. dist., marked T 19 S R 4 E S 5 B T ✓

An aspen, 8 ins. diam., bears S.85½°E., 273 lks. dist., marked T 19 S R 4 E S 8 B T ✓

A pine, 10 ins. diam., bears S.71¾°W., 488 lks. dist., marked T 19 S R 4 E S 7 B T ✓

An aspen, 5 ins. diam., bears N.23½°W., 380 lks. dist., marked T 19 S R 4 E S 6 B T ✓

Land, mountainous, general NE. exposure on S.71.75 chs. and SW. exposure on N.8.25 chs., also drains NE. and SW.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | Soil, rocky and rich, black mountain loam on rocky, gravelly and moist clay sub-soil. |
| | Timber, pine and fir and very scattering aspen. |
| | Undergrowth, weeds and grass. Good grazing. |
| | --- |
| | N.89°47'E., on a random line bet. secs. 5 and 8 |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.17 | Intersect N. and S. line, 5 lks. S. of the cor. of secs. 4,5,8 and 9. |
| | Thence |
| | S.89°45'W., on true line bet. secs. 5 and 8 |
| | Ascend abruptly over mountainous land on E. slope of divide between Castle and San Pete Valleys, through dense pine and fir timber and undergrowth of weeds and grass. |
| 17.50 | Top of ridge and divide between San Pete and Castle Valleys, 365 ft. above sec. cor., bears N. and S. |
| | Leave dense timber, descend over W. slope over series of benches. |
| 28.35 | Descend abruptly over ledges and boulders. |
| 34.15 | Base of steep descent and leave timber, except some scattering pine on both sides of line, bears N. and S. |
| | Descend more gradually. |
| 40.08½ | On small bench, 410 ft. below divide. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked |
| | S 5 ¼ / S 8 1915 |
| | from which |
| | A pine, 6 ins. diam., bears N.54°E., 162 lks. dist., marked ¼ S 5 B T ✓ |
| | A pine, 24 ins. diam., bears S.57¾°E., 206 lks. dist., marked ¼ S 8 B T ✓ |
| | Continue steep descent. |
| 64.35 | Enter aspen timber, bears N. and SE. |

Subdivision of T.19 S.,R.4 E.

chains

77.95 Leave timber, bears NW. and SE.

80.17 The cor. of secs. 5,6,7 and 8, 900 ft. below sec. cor.

Land, rough mountainous, E. and W. exposures and drainage from divide at 17.50 chs.

Soil, rocky and rich black mountain loam on sub-soil of rocks, moist brown sticky clay, packed hard and mixed with rocks.

Timber, pine, fir and aspen.

Undergrowth, weeds and grass. Good grasing.

August 11: At this cor., I set off 15° 26'N., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°11'.

---

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

40.00 Set temp. ¼ sec. cor.

52.91 Intersect W. bdy. of the Tp., 18 lks. S. of the cor. of secs. 1,6,7 and 12 heretofore described.

Thence

N.89°57'E., on a true line bet. secs. 6 and 7

Over mountainous land sloping and draining NE. into Six Mile Canyon, through dense pine, fir and scattering aspen timber and undergrowth of chaparral, weeds and grass.

Gradually descend.

.60 Stream, 4 lks. wide, 2 ins. deep, good water, flows N.20°E.

2.10 A springof good clear water, 2 ft. in diam., heads N. 25 lks. and flows NW.

8.95 Road, Six Mile to Twelve Mile Canyon, bears NW. and SE.

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

S 6
¼
———
S 7
1915

from which

A fir, 10 ins. diam., bears S.12½°W., 68 lks.

Subdivision of T.19 S.,R.4 E.

| chains | |
|---|---|
| | dist., marked ¼ S 7 B T |
| | A fir, 24 ins. diam., bears N.18½°W., 24 lks. dist., marked ¼ S 6 B T |
| 28.30 | Stream, 2 lks. wide, 2 ins. deep, in small ravine, flows NE. |
| 36.70 | Enter stream, 10 lks. wide, 3 ins. deep, good water, course from E. to N. Thence in stream. |
| 39.10 | Stream turns SE. and heads about 6 chs. SE. |
| | Thence over nearly N. slope. |
| 44.30 | Descend abruptly over NE. slope. |
| 46.15 | Bottom of S. fork of Six Mile Canyon and stream, 6 lks. wide, 3 ins. deep, good water, flows NW. |
| | Ascend over SW. slope. |
| 47.90 | Leave dense timber, bears NW. and SE. |
| 52.91 | The cor. of secs. 5,6,7 and 8, 55 ft. above stream. |
| | Land, rolling mountainous with N. and SW. slopes into S. fork of Six Mile canyon. |
| | Soil, rich, moist black mountain loam mixed with gravel and rock on moist, sticky clay and rock sub-soil. |
| | Timber, pine and fir. |
| | Undergrowth, chaparral, weeds and grass. |
| | Good grazing. |
| | August 11,1915. |
| | --- |
| | August 12: At 8h.a.m. apparent time, I set off 39°11' on the lat. arc; 15°12'N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6,7 and 8. |
| | Thence I run |
| | N.0°03'W., on true line bet. secs. 5 and 6 |
| | Ascend over mountainous land sloping SW., through dense undergrowth of chaparral and weeds. |
| 3.20 | Enter aspen timber, bears E. and W. |
| 14.50 | Enter scattering pine timber, bears E. and W. |
| 15.00 | Stream, 3 lks. wide, 2 ins. deep, good water, flows W. |

Subdivision of T.19 S., R.4 E.

chains

22.30 Leave timber, bears E. and W.

32.40 High ridge spur dividing Middle and S. Forks of Six Mile Canyons, 335 ft. above sec. cor., bears E. and W.

Thence across top of ridge.

34.20 Spring branch, 2 lks. wide, 2 ins. deep, good water, flows W.

39.00 Begin descent over N. slope into Middle Fork of Six Mile canyon.

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

S 6 | S 5 ✓
¼
1915

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

46.50 Enter pine timber, bears E. and W.

58.45 Bottom of Middle Fork of Six Mile Canyon and stream, 4 lks. wide, 6 ins. deep, good water, 350 ft. below ridge, flows S.60°W.

Leave pine timber, enter dense aspen timber, bears N.60°E. and S.60°W.

Ascend abruptly over S. slope of mountain dividing N. Fork and Middle Fork of Six Mile Canyons over series of narrow benches.

82.00 Leave aspen timber, thence over open slope, bears E. and W.

90.60 Small pond on bench 1 ch. x ½ ch., no outlet.

102.00 Top of high ridge and divide between N. fork and Middle Fork of Six Mile Canyons, 785 ft. above creek, bears E. and W.

Thence across nearly level top of ridge.

107.71 Intersect N. bdy. of the Tp. 2.07 chs. W. of the cor. of secs. 5,6,31 and 32 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. At intersection

Subdivision of T.19 S.,R.4 E.

chains

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

T 18 S

R 4 E — S 31 | S 32 — CC

S 6 | S 5

T 19 S
1915

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

I destroy all marks on old cor. pertaining to T.19 S.

Land, rough mountainous, with N. and S. slopes into canyons draining W.

Soil, rocky clay loam, limestone formation on moist, sticky clay and rock sub-soil.

Timber, aspen, pine and some fir.

Undergrowth, chaparral, weeds and grass.

Good grazing.

August 12,1915.

Howard W. Miller
U. S. Surveyor

---

GENERAL DESCRIPTION

This township is rough and mountainous, lying on the summit and E. and W. slopes of a high range of mountains which traverses the township in a northerly and southerly direction through secs. 4,5,8,16,17,21,28,33 and 34 and forms the watershed for Castle Valley to the E. and San Pete Valley to the W. From this divide many high ridge spurs project in easterly and westerly directions and form divides for the several canyons which head and

General Description

run through the township. The elevation ranges from 8 to 12000 ft. above sea. The slopes of the ridges are in general exceedingly rough, but approaching the bottoms of the canyons they become gentle. The Hileotrope mountain in sec. 34 and Mt. Baldy in sec. 30 are the two highest points in the township, in fact, their elevations exceeds that of any other point for a radius of 30 miles. The soil of the ridges is very rocky of limestone formation, but approaching the lower slopes it becomes a rich black loam and decayed vegetation, mixed with gravel and loose shales and in places streaked with rock. The sub-soil is a dark brown, sticky clay loam, packed hard on account of the great amount of rainfall this country is subject to.

The township is covered with a heavy growth of pine, fir and aspen timber, the pine usually predominating and found in great quantities on the N. slopes. This timber is valuable and good for building material. The low lands or canyon bottoms are in general free from timber, being open grassy parks with occasionalpatches of aspen. An abundant growth of small shrubs or evergreens , weeds and grass is found on the township, the grass being tender and rich, thus furnishing excellent feed for live stock.

The township is watered by an unlimited amount of streams of good, pure water, which head and flow through the township to the valleys E. and W., they are used for irrigation purposes. These streams are fed from perpetual snow drifts which lie on the highest slopes and by large springs which flow continuously. Many small ponds or lakes, situated in small basins are found in the township. Ferron resevoir in sec.22, contains about 100 acres, the water being about an average depth of 25 ft. This water is held until about the middle of August, then used for irrigation purposes in Castle valley. The resevoir is situated in the east

General Description

end of a large basin with many open parks and the environments are such that this is an ideal place for a summer resort.

Works' saw mill is situated in sec. 3 and is operated during the summer months. The lumber is hauled to San Pete Valley, there used for building. Other saw mill sites are found in the township but are all abandoned.

Mt. Baldy Forest Rangers cabin is situated in sec.20.About 50 acres in the vicinity of this cabin are fenced for pasture for forest rangers stock.

A dairy is operated in sec. 20 in the summer months. A small shanty, corral and milk house are situated at this dairy. Owners name unknown.

There are no permanent settlers on this township.

I find no indications of mineral in the township.

All of the lands lie on the Manti National Forest Reserve and outside of the value of the timber the land is used for summer range for sheep and cattle.

Isaac Hayes
U. S. Transitman.

Howard W. Miller
U. S. Surveyor.

For final oath of Surveyor and Transitman and certificate of assistants, see subdivision of T.20 S.,R.3 E.

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Page

BOOK A-421

# CERTIFICATE OF ASSISTANTS.

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

.....

.....

.....

.....

.....

.....

of the ..... Meridian, in the State of .....

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

| NAME. | PERIOD OF SERVICE. | | CAPACITY. |
|---|---|---|---|
| | BEGUN. | ENDED. | |
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Subscribed and certified to before me on the dates of the final service as shown above.

.....

*U. S. Surveyor.*

# FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191 , 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 _____ _____ _____ _____ _____ of the _____ _____ Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

_____

*U. S. Surveyor.*

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

SEAL

_____

_____

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 2, 1915

The foregoing field notes of the ~~xxxxxxx~~ retracement and survey of the east boundary and survey of the subdivision of T. 19 S. R. 4 E.

executed by Howard W. Miller and Isaac Hayes under his special instructions dated May 14, 1917, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

_____

*U. S. Surveyor General.*

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

_____

*U. S. Surveyor General.*

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Page

4—679

BOOK A-421 G.

MAY 31 1916

# FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT OF THE FOURTH STANDARD PARALLEL SOUTH

THROUGH RANGE NO.1 WEST;

RETRACEMENT AND RESURVEY OF THE WEST BOUNDARY,

AND

RESURVEY AND SURVEY OF THE SUBDIVISION

O F

TOWNSHIP NO. 21 SOUTH, RANGE NO.1 WEST

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

*In the State of* U T A H

EXECUTED BY

HOWARD W. MILLER, U.S.SURVEYOR,

AND

ISAAC HAYES, U.S.TRANSITMAN,

~~*In the capacity of U.S. Surveyor*~~, *under instructions dated* May 14, *1915, issued by the United States Surveyor General to govern surveys included in Group No.* 39, *which were approved by the Commissioner of the General Land Office,* June 5, *1915;* assignment instructions issued by the Assistant Supervisor of Surveys for the District of Utah, May 17, 1915.

*Survey commenced* October 2, *1915*

*Survey completed* December 2, *1916.*

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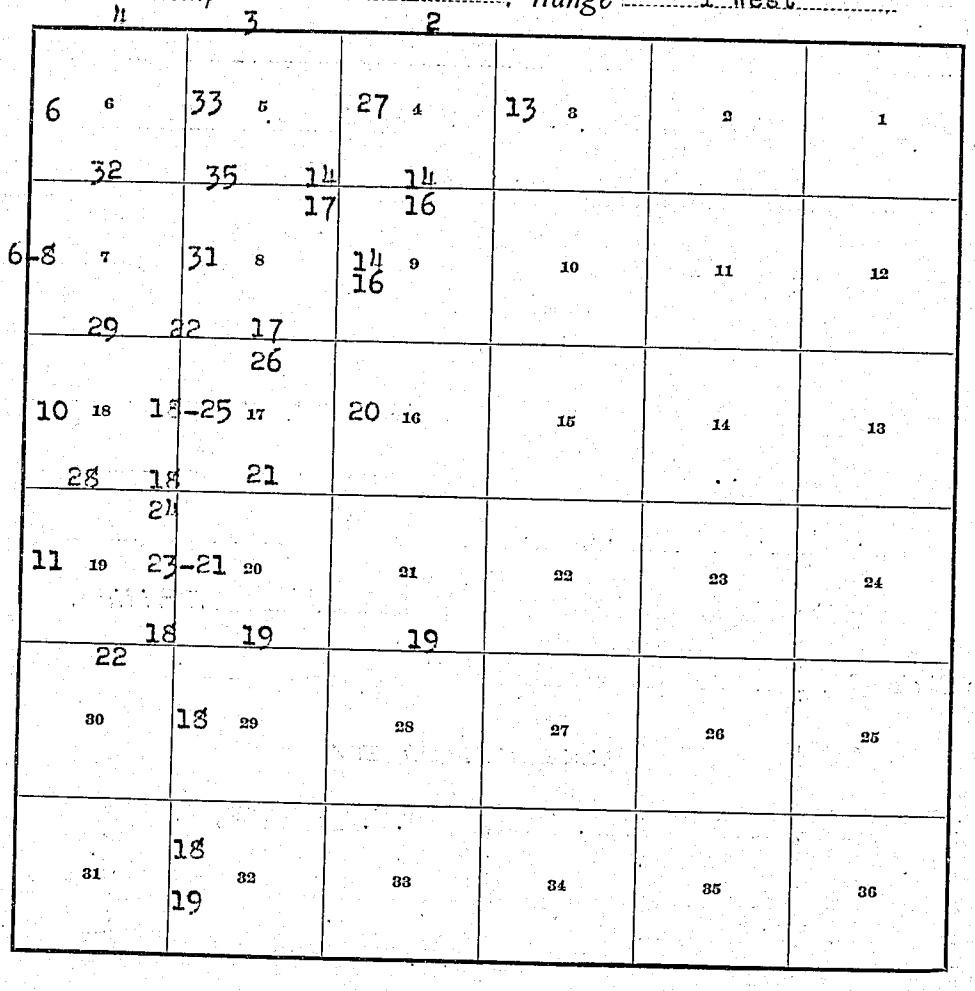
BOOK A-121

# INDEX DIAGRAM.

*Township* 21 South, *Range* 1 West




6—151

Retracement 4th. St. Par. S., through R.1 W.

chains

Survey commenced October 2,1915 and executed with Young and Sons light mountain transits Nos. 8297 and 8582, equipped with Smith solar attachments. The horizontal limbs are provided with two double verniers, placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instruments were approved for use in this survey by G.D.D.Kirkpatrick, Assistant Supervisor of Surveys.

I examine the adjustments of the transits and find no 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, 3,4, 9 and 10, T.21 S., R.1 W., approximate latitude 39°01' N.; longitude 111° 57'W.; At 6h. 51m.p.m.l.m.t., I observe Polaris at eastern elongation in accordance with the Manual of Instructions and mark the direction of the line thus determined, by a nail driven in a peg, set firmly in the ground about 6 chs. N. of my station.

October 2,1915.

October 3: At 7h. 30m.a.m.apparent time, I lay off the azimuth of Polaris 1° 28' to the west and set a peg on line north.

Test of transit No. 8297

October 3: At 8h.a.m. apparent time, I set off 39° 01' on the lat. arc; 3° 40'S., on the decl. arc; and determine a meridian with the solar and find that the meridian determined by observations on Polaris bears North

At 4h.p.m. apparent time, I set off 39°01' on the lat. arc; 3° 48'S., on the decl. arc; and determine a meridian with the solar and find that the meridian determined by observations on Polaris bears north.

I therefore conclude that the instrument is in good

Retracement 4th. St. Par. S., through R.1 W

chains

adjustment.

October 3,1915.

Test of transit No. 8582

October 4: At 3h. 30m.p.m. apparent time, I set off 39°01' on the lat. arc; 4° 11'S., on the decl. arc; and determine a meridian with the solar and find that the meridian established by observations on Polaris bears North

October 4,1915.

October 5: At 8h.a.m. apparent time, I set off 39°01' on tha lat. arc; 4° 27'S., on the decl. arc; and determine a meridian with the solar and find that the meridian established by observations on Polaris bears North. I conclude that this instrument is in good adjustment.

---

No magnetic decl. is taken on account of defective needles.

---

In the decl. arc. settings, .85 of the tabulated refraction is used in computing declinations, due to the altitude of the country.

---

Measurements

Steel tapes, 5 chs. long were used by both parties in the field, together with clinometers for determining slope angles and the reduced horizontal distances only appear in the official field notes. The tapes were tested, comparison being made with a standard tape, 1 ch. long, kept and used for that purpose only.

---

October 2: I begin at cor. of secs. 3,4,33 and 34 on the N. bdy. of the Tp. which is an iron post, 2 ins. in dia., extending 12 ins. above ground, firmly set, with brass cap marked

T 20 S R 1 W

| | |
|---|---|
| S 33 | S 34 |
| S 4 | S 3 |

1915

Retracement 4th. St. Par. S., through R.1 W.

| chains | |
|---|---|
| | No accessories to cor. |
| | For solar obsn. this date see line bet. secs. 3 and 4 |
| | Thence I run |
| | West, retracing S. bdy. sec. 33 |
| | Gradually ascend over rolling hills sloping E., through short undergrowth of shadscale. |
| 14.50 | Small swale, drains SE. |
| 39.91 | Intersect the St. ¼ sec. cor., which is a limestone, 9 x 8x 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | The bearing of this ½ mile is west and the distance is 39.91 chs. |
| | From ¼ sec. cor., I continue |
| | West. |
| 60.90 | Wash, 20 lks. wide, 2 ft. deep, drains SE. |
| 62.80 | Wood road, 55 ft. above sec. cor., bears NW. and SE. |
| 79.88 | Intersect the standard cor. of secs. 32 and 33, which is a limestone, 6 x 6 x 8 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | The bearing of this ½ mile is west and the distance is 39.97 chs. |
| | Land, low rolling foot hills, E. exposure and drain. |
| | Soil, light, dry, sandy loam mixed with gravel on hard, dry sand and gravel sub-soil. |
| | No timber. |
| | Undergrowth, short shadscale. |
| | --- |
| | West, retracing S. bdy. sec. 32 |
| | Gradually ascend over low rolling foot hills draining E., through short undergrowth of sage brush. |
| 17.45 | Gradually descend into swale. |
| 22.45 | Small swale, drains SE. |

Retracement 4th. St. Par. S., through R.1 W.

| chains | |
|---|---|
| 34.30 | Thence along S. slope of swale, gradually ascending. |
| 39.87 | 230 ft. above sec. cor. |
| | Fall 14 lks. S. of the St. ¼ sec. cor., which is a limestone, 10 x 4 x 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | The bearing of this ½ mile is N.89°48'W., and the distance is 39.87 chs. |
| | From point 14 lks. S. of ¼ sec. cor., I continue West |
| 47.30 | Ridge, 60 ft. above ¼ sec. cor., bears NW. and SE. |
| | Descend. |
| 50.60 | Bottom of swale and wash, 10 lks. wide, 3 ft. deep, 60 ft. below ridge, drains SE. |
| | Ascend over E. slope. |
| 62.55 | Wood road, bears NW. and SE. |
| 64.00 | Wood road, bears NW. and SE. |
| 67.20 | Old wood road, bears NE. and SW. |
| 79.70 | 170 ft. above swale. |
| | Fall 30 lks. S. of the St. cor. of secs. 31 and 32, which is a limestone, 12 x 5 x 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | The bearing of this ½ mile is N.89°46'W., and the distance is 39.83 chains. |
| | Land, rolling foot hills, E. exposure and drainage. |
| | Soil, gravelly and dry sandy loam, on hard, dry sand and gravel sub-soil. |
| | No timber. |
| | Undergrowth, shadscale. |
| | --- |
| | From St. cor. of secs. 31 and 32, |
| | West, retracing S. bdy. sec. 31 |
| | Gradually ascend over rolling hills sloping E., through short undergrowth of shadscale. |

. . Retracement 4th. St. Par. S., through R.1 W.

| chains | |
|---|---|
| 18.60 | Enter scattering scrub pinon and cedar timber with dense undergrowth of shadscale mixed with sage brush, bears N. and S. |
| | Enter rougher surface, ascend abruptly. |
| 23.35 | Small spur, 215 ft. above sec. cor., projects NE. |
| | Enter heavier timber, gradually ascend over NE. slope. |
| 39.85 | 235 ft. above spur. |
| | Fall 13 lks. S. of the St. ¼ sec. cor., which is a sandstone, 8 x 4 x 9 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | The bearing of this ½ mile is N.89°49'W., and the distance is 39.85 chs. |
| | From point 13 lks. S. of ¼ cor., I continue West. |
| 40.65 | Spur, projects SE. |
| | Gradually descend. |
| 45.65 | Small gully, drains SE. |
| | Ascend over NE. slope at point of spur. |
| 53.85 | Point of spur, falls SE. Thence over SE. slope , outcroppings of lava rock, bears NW. and SE. |
| 73.95 | Gradually ascend over SW. slope. |
| 75.70 | Intersect the St. closing cor. of Tps. 20 and 21 S.,R.1 W., which is a limestone, 18 x 12 x 8 ins., lying on the ground, marked with 6 notches on two opposite edges and CC on one face, no accessories to cor. |
| | At exact position of old cor.; Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, and bury old cor. alongside post, for closing cor. of Tps. 20 and 21 S.,R.1 W., with brass cap marked |

T 20 S
R 2 W | R 1 W
S 36 | S 31
CC
S 1 | S 6
R 2 W | R 1 W
T 21 S
1915

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

Resurvey of West boundary of T.21 S.,R.1 W.

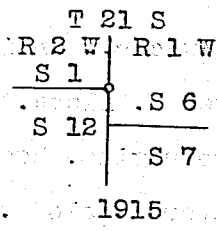
| chains | |
|---|---|
| | The bearing of this ½ mile is S.89°48'W., and the distance is 35.85 chs. |
| | Land, mountainous, general E. exposure and drainage. |
| | Soil, gravelly and rocky mixed with some dry sandy loam on gravelly and rocky sub-soil. |
| | Timber, scrub pinon and cedar. |
| | Undergrowth, shadscale and sage brush. |
| | October 2: At this cor., I set off 3° 21½'S., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°02'. |
| | --- |
| | Resurvey of West boundary of T.21 S.,R.1 W. |
| | From the St. closing cor. of Tps. 20 and 21 S., R.1 W., I run |
| | South, on E. bdy. sec. 1, T.21 S.,R.2 W. |
| 39.44 | Fall 17 lks. W. of the ¼ sec. cor. |
| | The bearing of this ½ mile is S.0° 15'E., and the distance is 39.44 chs. |
| | From ¼ sec. cor., I run |
| | South |
| 40.00 | No trace of the cor. of secs. 1,6,7 and 12 can be found. |
| | I therefore continue my line South |
| 77.52 | Fall 39 lks. E. of the ¼ sec. cor. bet. secs. 7 and 12. |
| | The bearing of the line bet. the ¼ sec. cor. bet. secs. 1 and 6 and the ¼ sec. cor. bet. secs. 7 and 12 is S.0°17'W., and the distance is 38.76 chs. for each proportioned half mile. |
| | I return to St. closing cor. of Tps. 20 and 21 S.,R.1 W. |
| | Thence |
| | S.0°15'E., on E. bdy. sec. 1, T.21 S.,R.2 W. |
| | Over rolling mountainous land, gradually descending over rocky S. slope through dense scrub cedar and pinon timber and undergrowth of sage brush and dry grass. |

Resurvey of West boundary of T.21 S.,R.1 W.

| chains | |
|---|---|
| 2.15 | Ravine, 35 ft. below cor., drains E. |
| | Ascend abruptly over N. slope. |
| 6.00 | Ridge, 80 ft. above ravine, bears E. and W. |
| | Descend abruptly over S. slope. |
| 12.20 | Ravine, 150 ft. below ridge, drains SE. |
| | Ascend abruptly over NE. slope. |
| 23.00 | Spur, 95 ft. above ravine, projects NE. |
| | Gradually descend over SE. slope. |
| 31.00 | Ravine, 130 ft. below spur, drains NE. |
| | Ascend abruptly over NE. slope. |
| 35.00 | Spur, 100 feet above ravine, projects NE. Thence gradually descend over E. slope over solid beds of lava rock. |
| 37.70 | Leave dense timber, bears E. and W. Descend abruptly over rocky S. slope. |
| 39.44 | Intersect the ¼ sec. cor., which is a limestone, 18 x 10 x 8 ins., lying on the ground, marked ¼ on one face. I reset stone, 12 ins. in the ground, marked ¼ on W. face; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | This ¼ sec. cor. refers to sec. 1 only. |
| | Thence |
| | S.0°17'W., with continuous chaining. |
| 50.00 | Enter dense scrub timber, bears E. and W. Thence along E. slope of small ravine draining SE. |
| 62.45 | Bottom of canyon, 475 ft. below spur, drains E. Road in same bears E. and W. |
| | Gradually ascend over NE. slope. |
| 70.95 | Leave timber, bears E. and W. Ascend abruptly. |
| 78.20 | Proportioned measurement, 290 ft. above canyon. |
| | ( Knowing that closing cors. will be necessary upon this bdy. for R.1 W., I establish cors. for 2 secs. only) |
| | Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 1 and 12, T.21 S.,R.2 W., with brass cap marked |

Resurvey of West boundary of T.21 S., R.1 W.

chains




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

Land, mountainous, steep slopes into ravines draining E.

Soil, rocky of limestone and volcanic formation and mixed with some dry sandy loam on gravelly and rocky sub-soil.

Timber, scrub cedar and pinon.

Undergrowth, shadscale and dry grass.

---

S.0°17'W., on E. bdy. sec. 12, T.21 S., R.1 W.

Over rolling mountainous land draining E., through short undergrowth of shadscale. Ascend.

3.15 Point of spur, 25 ft. above sec. cor., falls E.

Thence along rocky E. slope.

8.15 Enter scattering scrub cedar timber, bears E. and W.

9.70 Descend abruptly over rocky SE. slope.

13.60 Ravine, 115 ft. below spur, drains NE.

Enter dense scrub cedar and pinon timber, ascend abruptly over N. slope.

18.00 Ridge, 80 ft. above ravine, bears E. and W.

Descend abruptly SE. slope.

21.25 Ravine, 45 ft. below ridge, drains E. Ascend.

23.00 Ridge, 45 ft. above ravine, bears E. and W.

Thence over broken land over series of small ridges and spurs.

38.76 The ¼ sec. cor., which is a limestone, 12 x 10 x 7 ins., lying on the ground, marked ¼ on one face. No accessories.

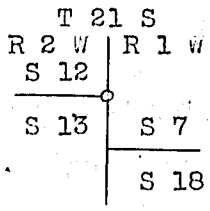
I reset stone, 8 ins. in the ground, marked ¼ on W. face; from which

A pinon, 8 ins. diam., bears S.60°W., 78 lks. dist., marked ¼ S 12 B T

A cedar, 16 ins. diam., bears N.60°W., 60 lks. dist., marked ¼ S 12 B T

Resurvey of West boundary of T.21 S.,R.1 W.

| chains | |
|---|---|
| | October 2,1915. |
| | October 6: At 7h. 40m.a.m. apparent time, I set off 39°01' on the lat. arc; 4° 49'S., on the decl. arc; and determine a meridian with the solar at the ¼ sec. cor. on the E. bdy. sec. 12, T.21 S.,R.2 W. |
| | Thence I continue |
| | South |
| | Over series of small ridges and spurs. |
| 60.30 | Descend abruptly. |
| 64.40 | Base of steep descent, descend more gradually over broken S. slope. |
| 67.35 | Ravine, 140 ft. below ¼ sec. cor., drains SE. |
| | Gradually ascend. |
| 71.75 | Spur, projects E. Descend 35 ft. to |
| 78.73 | Fall 4 lks. E. of the cor. of secs. 7,12,13 and 18, which is a limestone, 16 x 8 x 6 ins., lying on the ground, marked with 2 notches on one and 4 notches on opposite edge; witnessed by a scattered mound of stone, W. of cor. |
| | At exact position of old cor., reset stone 10 ins. in the ground, marked with 2 notches on N. and 4 notches on S. edge ; Set an iron post, 3 ft.long, 3 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 12 and 13, E. bdy. T.21 S.,R.2 W., with brass cap marked |




1915

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

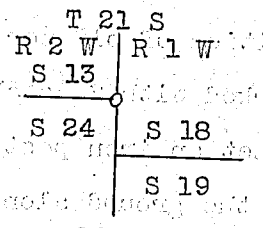
The bearing of this ½ mile is S.0°03'W., and the distance is 39.97 chs.

Land, mountainous, general E. exposure and drainage.

Soil, gravelly and rocky of volcanic formation, mixed

Resurvey of West boundary of T.21 S.,R.1 W.

| chains | |
|---|---|
| | with some loose sandy loam, on hard, dry sand and rock sub-soil. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, shadscale. |
| | --- |
| | From cor. of secs. 12 and 13, I run |
| | South, along E.bdy. of sec. 13, |
| 40.00 | No trace of the old ¼ sec. cor. can be found. |
| 89.01 | Fall 2.03 chs. W. of the cor. of secs. 13,18,19 and 24, which is a sandstone, 9 x 11 x 7 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general. |
| | The bearing of this mile is N.1°18'W., and the distance is 89.03 chs. |
| | I reestablish the cor. of secs. 13,18,19 and 24 as follows: |
| | Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground alongside old cor. for cor. of secs. 13 and 24, E. bdy. T.21 S.,R.2 W., with brass cap marked |




1915

| | |
|---|---|
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Thence from cor. |
| | N.1°18'W., resurveying bet. secs. 13 and 18. |
| | Over rolling hills draining SE., through short undergrowth of shadscale. |
| .73 | Road, Redmond, Utah to Scipio, Utah, bears E. and W. |
| 8.50 | Enter scattering scrub cedar and pinon timber, bears E. and W. |
| 11.30 | Thence over series of broken rocky ridges, bears E. and W. |
| 16.45 | Top of broken ridge, 85 ft. above sec. cor., bears NE. and SW. |
| | Thence over series of small ridges and gullies. |

Resurvey of West boundary of T.21 S.,R.1 W.

| chains | |
|---|---|
| 34.40 | Wash, 30 lks. wide, 2 ft. deep, drains E. |
| 35.70 | Wash, 20 lks. wide, 2 ft. deep, drains SE. |
| | Leave broken land, thence gradually ascend over rolling bench, bears E. and SW. |
| 44.51½ | Proportionate measurement. |
| | Set a sandstone, 16 x 8 x 8 ins., 10 ins. in the ground for ¼ sec. cor., E. bdy. sec.13, T.21 S.,R.2 W., marked ¼ on W. face; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | ( Note: Iron post not available ). |
| 61.25 | Leave bench lands, enter hilly country, bears E. and W. |
| 69.75 | Wash, 30 lks. wide, 2 ft. deep, drains SE. |
| 89.03 | The cor. of secs. 12 and 13. |
| | Land, rolling mountainous, general SE. exposure and drainage. |
| | Soil, gravelly and sandy loam mixed with rock on hard, dry, sand and rock sub-soil. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, shadscale. |
| | October 6: At this cor., I set off 4° 54½'S., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39°00'. |
| | October 6,1915. |
| | Isaac Hayes<br>U. S. Transitman |
| | October 4: At 8h. a.m. apparent time, I set off 38°59' on the lat. arc; 4° 03'S., on the decl. arc; and determine a meridian at the cor. of secs. 13 and 24, on E. bdy. of T.21 S.,R.2 W. |
| | Thence I run |
| | South, bet. secs. 19 and 24 |
| | Over nearly level land in wide hollw draining E., through undergrowth of shadscale. |
| 1.70 | Road, Scipio to Redmond, Utah, bears E. and W. |

Resurvey of West bdy. of T.21 S.,R.1 W.

chains

3.00 N. bank of Denmark wash, 18 ft. high, bears NW. and SE., wash drains SE.

7.33 S. bank of wash, 18 ft. high, bears N. and S.

26.00 Road, Scipio to Salina, Utah, bears E. and W.

27.80 Wash, 3 lks. wide, 4 ft. deep, drains E.

29.90 Leave hollow, bears E. and W. Enter low rolling foot hills and scrub cedar and pinon timber. Ascend.

35.70 Top of bench and leave timber, 75 ft. above base, bears E. and W.

40.82 Fall 83 lks. W. of the ¼ sec. cor., which is a limestone, 14 x 12 x 10 ins., lying on the ground, marked ¼ on one face. No accessories to cor.

At exact position of cor., reset stone 9 ins. in the ground, marked ¼ on W. face; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

This ¼ sec. cor. refers to sec. 24 only.

The bearing of this ½ mile is S.1°10'E., and the distance is 40.83 chs.

From point 83 lks. W. of ¼ sec. cor., I continue South

47.40 Enter scrub cedar and pinon timber, bears E. and W.

54.60 Top of ridge, 20 ft. above ¼ sec. cor., bears E. and W. Descend abruptly.

59.05 Wash at base of ridge, 8 lks. wide, 2 ft. deep, 85 ft. below top of ridge, drains SE.

Thence across wide hollow through very scattering timber.

61.70 Fall 102 lks. W. of the cor. of secs. 19,24,25 and 30, which is a limestone, 14 x 4 x 18 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

The bearing of this ½ mile is S.0°16'E., and the distance is 40.82 chs.

Land, N. 39.90 chs. nearly level, remainder of mile rolling foot hills, E. exposure and drainage.

Soil, rocky and shallow sandy loam on sandy and rocky sub-soil.

Timber, scrub cedar and pinon.

Retracement and resurvey of subdivision of T.21 S.,R.1 W.

chains

Undergrowth, shadscale.

October 4,1915.

Howard O'Neer

U. S. Surveyor.

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Retracement and resurvey of subdivision of T.21 S.,R.1 W.

October 2: At 7h. 30m.a.m. apparent time, I set off 39° 01' on the lat. arc; 3° 16'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3,4,9 and 10 which is an iron post, 2 ins. in dia., extending 12 ins. above ground, firmly set, with brass cap marked

| | |
|---|---|
| S 4 | S 3 |
| S 9 | S 10 |

1915

No accessories to cor.

Note: This cor. was set by the State Engineer's Office and stands at the original position of the old cor.

Thence I run

North, retracing bet. secs. 3 and 4

43.65 Fall 106 lks. E. of the ¼ sec. cor. which is an iron post 2 ins. in dia., extending 12 ins. above ground, firmly set, with brass cap marked

| | |
|---|---|
| ¼ S 4 | S 3 |

1915

No accessories to cor.

Note: This ¼ sec. cor. is restored by the State Engineer's Office.

From point 106 lks. E. of ¼ cor., I continue

North

87.17 Fall 212 lks. E. of the cor. of secs. 3,4,33 and 34 on the N. bdy. of the Tp. heretofore described.

The bearing of this mile is N.1° 24'W. and the distance is 87.19 chs.

October 2,1915

Isaac Hayes

U.S.Transitman.

Retracement and resurvey of subdivision of T.21 S., R.1 W.

| chains | |
|---|---|
| | Dec.2,1916: Thence from cor. of secs. 3,4,9 and 10 |
| | N.1° 24'W., resurveying bet. secs. 3 and 4 |
| | Over rolling foothills sloping E., through sagebrush. |
| 1.50 | Wash, 10 lks. wide, 4 ft. deep, course SE. |
| 19.10 | Wash, 15 lks: wide, 2 to 4 ft. deep, course SE. |
| 22.10 | Junction of roads, bear NW., W. and E. |
| 31.60 | Small gully, wash in same, 10 lks. wide, 3 ft.deep,drs.E. |
| 40.01 | Northing of 40.00 chs. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the E. bdy. of sec. 4, with brass cap marked |
| | ¼S 4 \| 1916 |
| | raise a mound of stone,2ft. base, 1½ ft. high, W. of cor. |
| 43.52 | Proportionate measurement |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., W. bdy. of sec. 3, with brass cap marked |
| | \| ¼ S 3 1916 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, E.of cor. |
| 43.66 | The ¼ sec. cor. set by the State: I destroy all marks on post but leave same standing. |
| 46.05 | Wood road, bears NW. and SE. |
| 58.40 | Wash, 30 lks. wide, 2 ft. deep, course E. |
| 87.19 | The cor. of secs. 3,4,33 and 34. |
| | Land, low rolling foothills, E. exposure and drainage. |
| | Soil, gravelly,shallow sandy loam and rocky, on hard dry sand and rock sub-soil. |
| | No timber. |
| | Undergrowth, sagebrush. |
| | Dec. 2,1916. |

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October 2, 1915. At 7h. 30m.a.m apparent time, I set off 39° 01' on the lat. arc; 3° 16'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3,4 9 and 10.

Retracement and resurvey of subdivision of T.21 S.,R.1 W.

| chains | |
|---|---|
| | Thence I run |
| | West, retracing bet. secs. 4 and 9 |
| 40.07½ | No trace of the 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 for sec. cor. hereafter called point "A". |
| | --- |
| | From point "A" for cor. of secs. 4,5,8 and 9, I run |
| | West, retracing bet. secs. 5 and 8 |
| 40.00 | No trace of the ¼ sec. cor. can be found. |
| | --- |
| | From point "A" for the cor. of secs. 4,5,8 and 9, I run |
| | South, retracing bet. secs. 8 and 9. |
| 40.00 | No trace of the ¼ sec. cor. can be found. |
| 84.92 | Fall 227 lks. W. of the cor. of secs. 8,9,16 and 17. |
| | I return to point "A" for cor. of secs. 4,5,8 and 9 and set point "B", 4.92 chs. S. and 2.27 chs. E. I then restore cor. 2.46 chs. S. and 1.13½ chs. E. of point "A", For description of cor. see line bet. secs. 8 and 9. |
| | The cor. of secs. 8,9,16 and 17 is a decayed pine stake, 32 ins. long, 2 ins. in dia., lying on the ground, mkd. T21SR1W on one face, S17, S16 and S8 on other faces. No accessories to cor. I reestablish cor. as follows: |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, and bury old stake cor. alongside, for cor. of secs. 8,9,16 and 17, with brass cap marked |

T 21 S R 1 W
S 8 | S 9
S 17 | S 16
1915

| | |
|---|---|
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Thence I run |
| | N.0° 47'W., resurveying bet. secs. 8 and 9 |
| | Over low rolling foothills draining E., through short undergrowth of shadscale. |
| 3.40 | Low spur, projects E. Gradually descend. |
| 9.05 | Shallow draw, 20 ft. below spur, drains E. Ascend. |
| 11.90 | Spur, 40 ft. above draw, projects E. Descend. |
| 20.55 | Draw, drains E. Ascend. |

Retracement and resurvey of subdivision of T.21 S.,R.1 W.

| chains | |
|---|---|
| 23.20 | Ridge,20 ft. above draw,bears N.75°E. and S.75°W. Desc. |
| 33.90 | Bottom of ravine and wash, 30 lks. wide, 2 ft. deep, 55 ft. below ridge, drains E. Ascend. |
| 35.20 | Road, bears E. and W. |
| 41.23½ | Proportionate measurement, 60 ft. above ravine. |
| | Set a sandstone, 20x14x5 ins., 15 ins. in the ground for ¼ sec. cor., mkd. ¼ on W. face; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.(No iron posts available). |
| 54.90 | Thence over rolling bench, bears E. and W. |
| 64.50 | Ridge, 35 ft.above ¼ sec. cor.,bears E. and W. Descend. |
| 68.45 | Ravine, 30 ft.below ridge, drains E. Ascend. |
| 72.20 | Ridge, 35 ft. above ravine, brs. N.80°E. and S.80°W. Desc. |
| 82.47 | Proportionate measurement, 60 ft. below ridge. |
| | Set an iron post,3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 4,5,8 and 9, with brass cap marked |

T 21 S | R 1 W
S 5 | S 4
S 8 | S 9
1915

raise a mound of stone, 2 ft.base, 1½ ft.high, W. of cor.
Land, rolling foothills, E. exposure and drainage.
Soil, gravelly and shallow sandy loam on gravelly subsoil.
No timber.
Undergrowth, shadscale.

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From the cor. of secs. 3,4,9 and 10
S.88°13'W., resurveying bet. secs. 4 and 9
Gradually ascend over low rolling foothills through short undergrowth of shadscale.

| | |
|---|---|
| 21.00 | Wash, 20 lks. wide, 2½ ft. deep, drains S.75°E. |
| 39.52½ | Proportionate measurement. Set a limestone, 18x14x5 ins., 12 ins. in the ground for ¼ sec.cor., mkd. ¼ on N.face; raise a mound of stone, 2 ft. base, 1½ ft.high,N.of cor. |
| 47.00 | Wood road, bears NW. and SE. |
| 64.50 | Spur, 190 ft.above sec.cor.,projects NE. Desc.20 ft. to |
| 79.05 | The cor. of secs. 4,5,8 and 9. |
| | Land, rolling foothills, E.exposure and drainage. |
| | Soil, gravelly and rocky, mixed with shallow sandy loam |

| chains | |
|---|---|
| | on hard, dry sand and gravel sub-soil. |
| | No timber. |
| | Undergrowth, shadscale. |
| | --- |
| | From cor. of secs. 4,5,8 and 9, I run |
| | West, resurveying bet. secs. 5 and 8. |
| | Over rolling foot hills draining E., through short undergrowth of shadscale. Gradually ascend. |
| 6.00 | Spur, 30 ft. above sec. cor., projects N. about 5 chs. |
| | Descend. |
| 6.90 | Draw, 10 ft. below spur, drains NW. Ascend. |
| 20.10 | Spur, 125 ft. above draw, projects NE. |
| | Thence along spur. |
| 34.00 | Top of ascent and edge of break, bears N. and S. |
| | Descend abruptly over W. slope. |
| 34.50 | Enter scattering scrub cedar and pinon timber, bears N. and S. |
| 36.70 | Base of descent and large wash in ravine, 30 lks. wide, 1 ft. deep, 75 ft. below breaks, drains S. |
| | Leave timber and gradually ascend across ravine. |
| 40.00 | Set a limestone, 24 x 8 x 8 ins., 16 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | ( No iron posts available) |
| | Land, hilly, general E. exposure and drainage. |
| | Soil, gravelly and rocky, mixed with shallow sandy loam, on gravel and rock sub-soil. |
| | Timber, a few scattering scrub cedar and pinon. |
| | Undergrowth, shadscale. |
| | --- |
| | From the cor. of secs. 8,9,16 and 17, I run |
| | West, retracing bet. secs. 8 and 17 |
| 39.92 | No trace of the old ¼ sec. cor. can be found. |
| | October 2: Searching for cor. at noon, obsn. for lat. not taken. |
| 79.84 | No trace of the cor. of secs. 7,8,17 and 18 can be found. |

Retracement and resurvey of subdivision of T.21 S.,R.1 W.

| chains | |
|---|---|
| | Set temp. point "A" for cor. of secs. 7,8,17 and 18. |
| | --- |
| | From point "A" for cor. of secs. 7,8,17 and 18, I run South, retracing bet. secs. 17 and 18 |
| 40.00 | No trace of the old ½ sec. cor. can be found. |
| 80.00 | No trace of the cor. of secs. 17,18,19 and 20 can be found. Set temp. point "A" for cor. secs. 17,18,19 and 20. |
| | --- |
| | From temp. point "A" for cor. of secs. 17,18,19 and 20, I run |
| | West, retracing bet. secs. 18 and 19 |
| 40.00 | No trace of the ½ sec. cor. can be found. |
| | October 2,1915. |
| | --- |
| | October 4: For solar obsn. see line bet. secs. 19 and 24 W. bdy. of this Tp. |
| | From cor. of secs. 19,24,25 and 30 on the W. bdy. of the Tp., I run |
| | N.89°24'E., retracing bet. secs. 19 and 30 |
| 39.40 | No trace of the old ½ sec. cor. can be found. |
| 79.40 | No trace of the cor. of secs. 19,20,29 and 30 can be found. Set temp. point "A" for cor. of secs. 19,20,29 and 30. |
| | --- |
| | From point "A" for cor. of secs. 19,20,29, and 30, I run South, retracing bet. secs. 29 and 30. |
| 40.00 | No trace of the ½ sec. cor. can be found. |
| | October 4: Searching for cor. at noon, obsn. for lat. not taken. |
| 80.00 | No trace of the cor. of secs. 29,30,31 and 32 can be found. |
| | I continue South |
| 129.79 | Fall 2.35 chs. W. of the ½ sec. cor. bet. secs. 31 and 32, which is an old pine stake, 2 x 4 ins. square, extending 50 ins. above ground, firmly set and marked ½ on S. face. |

| chains | |
|---|---|
| | No accessories to cor. |
| | To establish the identity of this cor., I run south from said cor. and at |
| 40.03 | Fall 1.16 chs. W. of the cor. of a fence bearing N. and S. and S.88°W. and N.88°E. About 15 ft. E. of the cor. of the fence is the cor. of secs. 5,6,31 and 32 which is a stake, 2 x 4 x 30 ins., lying on the ground and decayed on one end, marked with 5 notches on one and 1 notch on opposite edge. Plowing and cutting has been done near the cor. of the fence and I am convinced from this evidence that the cor. post stood at the cor. of the fence. I conclude that the post cor. for the ¼ sec. cor. bet. secs. 31 and 32 stands at the proper place for the ¼ sec. cor., and I use this cor. to restore the cor. of secs. 19,20,29 and 30. |
| | I return to temp. point "A" for cor. of secs. 19,20,29 and 30 and set point "B", 9.80 chs. S. and 2.35 chs. E. |
| | October 4,1915. |
| | --- |
| | October 5: For solar obsn. see line bet. secs. 16 and 17 |
| | From the cor. of secs. 21,22,27 and 28, which is an old pine post, 4 ins. square, extending 18 ins. above ground marked with 3 notches on E. and 2 notches on W. edge, I run |
| | West, retracing bet. secs. 21 and 28. |
| 40.00 | No trace of the old ¼ sec. cor. can be found. |
| 80.00 | No trace of the old cor. of secs. 20,21,28 and 29 can be found. |
| | October 5: At this cor., I set off 4° 31'S., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 38°59'. |
| | I continue my line West, retracing bet. secs. 20 and 29. |
| 120.00 | No trace of the ¼ sec. cor. can be found. |
| 160.00 | No trace of the cor. of secs. 19,20,29 and 30 can be found. |
| | Set temp. point "C" for cor. of secs. 19,20,29 and 30. |

Retracement and resurvey of subdivision of T.21 S.,R.1 W.

chains

From point "A" point"B" bears S. 13°30'E., 10.08 chs. distant. From point "A" point "C" bears S.17°10'E., 3.34 chs. distant. From point "B" point "C" bears N.11°31'W., 6.76 chs.

Using points A,B & C as points of a triangle and adjusting same to their relative weights I restore the cor. of secs. 19,20,29 and 30, S. 14° 26'E., 4.12 chs. dist., from point "A" as follows:

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 19,20,29, and 30, with brass cap marked

| T 21 S<br>S 19 | R 1 W<br>S 20 |
|---|---|
| S 30 | S 29 |

1915

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

The bearing of the line bet. secs. 19 and 30 is N.87°45' W., and the distance is 80.49 chs.

---

October 5: At 7h. 30m.a.m. apparent time, I set off 39°00' on the lat. arc; 4° 25½'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 8,9,16 and 17.

Thence I run

South, retracing bet. secs. 16 and 17

Over rolling foot hills and bench land draining E., through short undergrowth of shadscale.

42.25 Fall 3.89 chs. W. of the ¼ sec. cor. which is an old stake, 2 x 2 x 30 ins., lying on the ground, marked dimly ¼ on one face. No accessories to cor.

The bearing of this ½ mile is S.5°16'E., and the distance is 42.43 chs.

From point 3.89 chs. W. of the ¼ sec. cor., I continue South.

80.39 Fall 2.04 chs. W. of the cor. of secs. 16,17,20 and 21

| chains | |
|---|---|
| | which is the center of a dilapidated mound of stone. Am unable to find any trace of a marked stone. This point is recognized by settlers in this vicinity to be the cor. of secs. 16,17,20 and 21. |
| | The bearing of this ½ mile is S. 2° 47' W., and the distance is 38.18 chs. |
| | Land, rolling foot hills, E. exposure. |
| | Soil, gravelly and rocky mixed with shallow sandy loam on gravelly and stony sub-soil. |
| | No timber. |
| | Undergrowth, shadscale. |
| | October 5,1915. |
| | Howard W. Miller<br>U. S. Surveyor. |
| | --- |
| | October 5: For solar obsn. this date, see test of transit No.8582. |
| | From the cor. of secs. 16,17,20 and 21, I run West, retracing bet. secs. 17 and 20 |
| 40.00 | No trace of the old ¼ sec. cor., can be found. |
| 80.00 | No trace of the cor. of secs. 17,18,19 and 20 can be found. Set temp. point "B". for cor. of secs. 17,18,19 and 20. From this point, point "A" bears 1.68 chs. W. and 48 lks. N. |
| | --- |
| | From point "B" for cor. of secs. 17,18,19 and 20, I run South, retracing bet. secs. 19 and 20 |
| 40.00 | No trace of the old ¼ sec. cor. can be found. |
| | October 5: The sky is overcast at noon, obsn. for lat. is impossible. |
| 78.44 | Fall 1.75 chs. W. of the cor. of secs. 19,20,29 and 30. |
| | I return to point "B" for cor. of secs. 17, 18,19 and 20 and set point "C" 1.56 chs. N. and 1.75 chs. E. I restore the sec. cor. midway on a line connecting points B and C. From restored cor. point, point "A" is 30 lks. S. and 2.55 chs. W. For description of cor. see resurvey |

| chains | |
|---|---|
| | line bet. secs. 19 and 20. |
| | The bearing of the line bet. secs. 19 and 20 is N.0°38'W. |
| | and the distance is 79.22 chs. |
| | The bearing of the line bet. secs. 17 and 20 is S.89°26'E. |
| | and the distance is 79.13 chs. |
| | --- |
| | I return to point "A" for cor. of secs. 7,8,17 and 18 |
| | and set point "B" for said cor. 30 lks. N. and 2.55 chs. |
| | E., this point being 80.00 chs. N. of the restored cor. |
| | of secs. 17,18,19 and 20. I restore cor. of secs. 7,8,17 |
| | and 18, midway on line connecting points "A" and "B"., |
| | for description of cor. see line bet. secs. 17 and 18. |
| | The bearing of the line bet. secs. 17 and 18 is N.0°55'W. |
| | and the distance is 79.86 chs. |
| | The bearing of the line bet. secs. 8 and 17 is S.89°53'E., |
| | and the distance is 78.57 chs. |
| | October 5,1915. |
| | Isaac Hayes |
| | U. S. Transitman |
| | --- |
| | October 5: From the cor. of secs. 19,20,29 and 30, I run |
| | N.87°45'W., resurveying bet. secs. 19 and 30 |
| | Gradually ascend over hilly land draining E., through |
| | short undergrowth of shadscale. |
| 24.00 | Top of spur, 115 ft. above sec. cor., projects SE. |
| | Descend. |
| 28.55 | Ravine, 45 ft. below spur, drains SE. |
| | Ascend. |
| 40.55 | Proportionate measurement, 95 ft. above ravine. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in |
| | the ground for ¼ sec. cor., with brass cap marked |
| | S 19 |
| | ¼ |
| | S 30 |
| | 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, N. of |
| | cor. |

Retracement and resurvey of subdivision of T.21 S.,R.1 W.

| chains | |
|---|---|
| 42.35 | Top of ridge, bears N. and S. |
| | Descend abruptly over W. slope. |
| 46.35 | Enter scrub cedar and pinon timber, bears NE. and SW. |
| 55.65 | Base of descent and large wide draw, wash in same, 15 lks. wide, 2 ft. deep, drains S.20°E. Leave timber bears N.20°W. and SE. |
| | Gradually ascend across wide draw. |
| 56.60 | Wood road, bears N.20°W. and S.20°E. |
| 71.15 | Enter scrub timber, bears NW. and SE. |
| 80.49 | The cor. of secs. 19,24,25 and 30. |
| | Land, hilly, general E. exposure and drainage. |
| | Soil, gravelly and stony with some shallow sandy loam on gravelly and rocky sub-soil. |
| | Timber, some scrub pinon and cedar. |
| | Undergrowth, shadscale. |
| | --- |
| | From cor. of secs. 19,20,29 and 30, I run N.0°38'W., resurveying bet. secs. 19 and 20 |
| | Over rolling hilly land draining E., gradually ascending through short undergrowth of shadscale. |
| 25.85 | Top of ascent, bears E. and W. |
| | Descend over N. slope. |
| 33.00 | Ravine, 115 ft. below top of ascent, drains E. |
| | Ascend. |
| 36.50 | Ridge, bears E. and W. Descend. |
| 38.20 | Base of descent and enter draw, in narrow pass and dense undergrowth of greasewood and rabbit brush, bears E. and W., 70 ft. below top of ridge. |
| 39.35 | Road, Scipio to Salina, Utah, bears NW. and E. |
| 39.61 | Proportionate measurement. |
| | Set a limestone, 14 x 6 x 5 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | ( No iron posts available) |
| 41.20 | Denmark wash, 60 lks. wide, 20 ft. deep, stream in same, |

| chains | |
|---|---|
| | 2 lks. wide, 1 in. deep, saline water, course SE. |
| 45.70 | Wash, 20 lks. wide, 20 ft. deep, course SE. |
| 47.60 | Leave draw and road, bears NW. and SE. Leave grasewood and rabbit brush, bears NW. and SE. |
| | Gradually ascend over W. slope of high break. |
| 60.15 | Low spur, projects W. Thence along nearly W. slope. |
| | Enter scattering scrub cedar and pinon timber, bears E. and W. |
| 67.65 | Leave timber, bears E. and W. |
| 75.15 | Top of ascent, bears E. and W. |
| | Descend 50 ft. to |
| 79.22 | 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 |

| | |
|---|---|
| T 21 S<br>S 18 | R 1 W<br>S 17 |
| S 19 | S 20 |

1915

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

Land, hilly, general E. exposure and drainage.

Soil, gravelly and rocky with some shallow sandy loam on gravel and hard, dry sand and rock sub-soil.

Timber, a few scattering scrub cedar and pinon.

Undergrowth, shadscale, greasewood and rabbit brush.

---

West, resurveying bet. secs. 18 and 19.

Over hilly land facing W., through short undergrowth of shadscale. Descend.

| | |
|---|---|
| 5.75 | Base of hills and enter large draw and nearly level land covered with greasewood and rabbit brush, bears NE. and SW. Old road bears NE. and SW. |
| 6.50 | Wash, 6 lks. wide, 4 ft. deep, 40 ft. below sec. cor., drains SW. |
| 13.10 | Wash, 50 lks. wide, 10 ft. deep, drains S. |
| 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 |

Retracement and resurvey of subdivision of T.21 S.,R.1 W.

| chains | |
|---|---|
| | S 18 / $\frac{1}{4}$ / S 19 / 1915 |
| | dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. |
| | Land, E.5.75 chs. hilly, slopes and drains W. W. 34.25 chs. level land. |
| | Soil of hilly land, gravelly and rocky with some shallow sandy loam on gravel and rock sub-soil. Soil of level land, sandy brown clay loam on hard, dry sand sub-soil. |
| | No timber. |
| | Undergrowth, shadscale, greasewood and rabbit brush. |
| | --- |
| | From the cor. of secs. 17,18,19 and 20, I run N.0°55'W., resurveying bet. secs. 17 and 18. |
| | Over hilly land sloping NW., descend through short undergrowth of shadscale. |
| 7.05 | Old road and leave hills, 30 ft. below sec. cor., bears NE. and SW. |
| | Thence over nearly level land, near E. end of large basin. |
| 8.55 | Wash, 5 lks. wide, 3 ft. deep, drains SW. |
| 10.30 | Old road, bears E. and W. |
| 14.35 | Old road, bears NW. and SE. |
| 17.45 | Wash, 10 lks. wide, 4 ft. deep, drains NW. |
| 36.45 | Road, Redmond to Scipio, Utah, bears N.70°E. and S.70°W. |
| 39.93 | Proportionate measurement |
| | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked |
| | S 18 / $\frac{1}{4}$ \| S 17 / 1915 |
| | dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. |
| 59.60 | Wash, 10 lks. wide, 4 ft. deep, drains SE. Enter scatter- |

chains

ing scrub cedar and pinon timber, bears NW. and SE.

61.70 Leave valley, enter hilly land, bears NW. and SE.

Ascend.

66.90 Spur,60 ft. above valley, projects SE.

Gradually descend.

73.45 Ravine,15 ft. below spur, drains SE.

Gradually ascend 15 ft. to

79.86 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

| T 21 S | R 1 W |
|---|---|
| S 7 | S 8 |
| S 18 | S 17 |

1915

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

Land, S.7.05 chs. and N.18.15 chs. broken hills, remainder of mile level land.

Soil of hilly land, gravelly and rocky mixed with some shallow sandy loam on gravelly and rocky sub-soil.

Soil of valley or level land, dry, brown sandy clay on sandy sub-soil.

Timber, a few scattering scrub cedar and pinon.

Undergrowth, shadscale.

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From the cor. of secs. 8,9,16 and 17, I run

N.89° 53' W., resurveying bet. secs. 8 and 17

Gradually ascend over rolling foot hills draining E., through short undergrowth of shadscale.

39.28½ Proportionate measurement

Set a sandstone, 12 x 12 x 4 ins., 8 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Cor. stands 80 ft. above sec. cor.

63.40 Top of ridge, 195 ft. above ¼ sec. cor., bears N.15°E. and S.

Enter scattering scrub cedar and pinon timber, bears N.

Subdivision of T.21 S.,R.1 W.

| CHAINS | |
|---|---|
| | and S. Descend abruptly over W. slope. |
| 66.00 | Leave timber, bears NE. and SW. |
| 72.25 | Bottom of ravine, wash in same, 10 lks. wide, 1 ft. deep, 100 ft. below ridge, drains S. |
| | Ascend. |
| 73.40 | Enter scattering scrub cedar and pinon timber, bears N. and S. |
| 77.90 | Low spur, 20 ft. above ravine, projects S. |
| | Descend. |
| 78.57 | The cor. of secs. 7,8,17 and 18 |
| | Land, broken foot hills, general E. exposure and drainage. |
| | Soil, gravelly and shallow sandy loam mixed with rock, on stony and hard, dry, sand sub-soil. |
| | Timber, some scattering scrub cedar and pinon. |
| | Undergrowth, shadscale. |
| | October 5,1915. |
| | Howard W. Miller |
| | U. S. Surveyor. |

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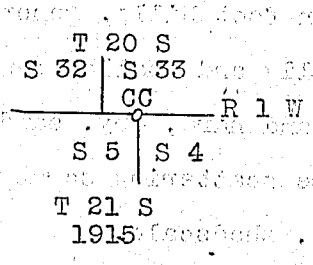
SUBDIVISION OF T.21 S.,R.1 W.

| | |
|---|---|
| | October 7: For solar obsn. see line bet. secs. 5 and 6. |
| | From the cor. of secs. 4,5,8 and 9, I run |
| | North, on a true line bet. secs. 4 and 5, knowing that a closing cor. will be necessary upon the N. bdy. of the Tp. |
| | Over rolling foot hills draining E., through short undergrowth of shadscale across numerous small ridges and ravines. Descend. |
| 1.30 | Bottom of ravine and wash, 10 lks. wide, 2 ft. deep, drains E. |
| 1.50 | Wood road, bears E. and W. |
| 40.00 | Set a limestone, 14 x 9 x 4 ins., 10 ins. in the ground |

| chains | |
|---|---|
| | for ¼ sec. cor., marked ¼ on W. face, raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | ( No iron posts available ) |
| 43.10 | Wash, 30 lks. wide, 1½ ft. deep, drains SE. |
| 49.95 | Wood road, bears NW. and SE. |
| 89.45 | Intersect N. bdy. of the Tp., 2.93 chs. East of the St. 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 |




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

Land, rolling foot hills, E. exposure and drainage.

Soil,shallow sandy loam, mixed with gravel and rock, on hard, dry, sand and rock sub-soil.

No timber.

Undergrowth, shadscale.

October 7,1915.

Isaac Hayes.
U. S. Transitman.

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October 5: For solar obsn. see line bet. secs. 16 and 17.

From ¼ sec. cor. bet. secs.18 and 19, I run

West, on true line bet. secs. 18 and 19, knowing that a closing cor. will be necessary upon the W. bdy. of the Tp.

Over nearly level land, through undergrowth of shadscale and scattering greasewood and rabbit brush.

| | |
|---|---|
| 27.95 | Wash, 3 lks. wide, 2 ft. deep, drains SE. |
| 37.60 | E. brink of Denmark wash, bears NW. and SE. |
| | Thence along N. side of main channel of wash. |

Subdivision of T.21 S.,R.1 W.

| chains | |
|---|---|
| 40.61 | Intersect W. bdy. of the Tp. 5.77 chs. S.1°10'E., of the cor. of secs. 13 and 24 on the E. bdy. of T.21 S., R.2 W. 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. 18 and 19, with brass cap marked |

T 21 S
R 2 W | R 1 W
S 13 | S 18
CC
S 24 | S 19
1915

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

Land, nearly level.

Soil, sandy, brown clay loam on dry, sandy sub-soil.

No timber.

Undergrowth, shadscale and scattering greasewood and rabbit brush.

October 5,1915

Howard W. Miller

U. S. Surveyor.

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October 6: For solar obsn. see S½ mile bet. secs. 7 and 12, W. bdy. of the Tp.

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

West, on a true line bet. secs. 7 and 18

Over rolling mountainous land draining SE., through scattering scrub cedar and pinon timber and undergrowth of shadscale.

Descend.

| | |
|---|---|
| 1.00 | Small swale, drains S. Gradually ascend. |
| 5.00 | Low ridge, bears N. and SE. Gradually descend. |
| 11.15 | Bottom of swale and wash, 20 lks. wide, 3 ft. deep, 65 ft. below ridge, drains SE. |
| | Gradually ascend over NE. slope. |

Subdivision of T.21 S.,R.1 W.

CHAINS

18.85 Top of ascent, 50 ft. above swale. Thence over rolling hilly land across series of small ridges and swales.

28.55 Good road, bears NW. and SE. Enter heavier scrub timber, bears N. and S.

39.65 Wash, 30 lks. wide, 3 ft. deep, drains SE.

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

S 7
¼
S 18
1915

from which

A pinon, 7 ins. diam., bears S.8°W., 46 lks. dist., marked ¼ S 18 B T

A pinon, 6 ins. diam., bears N.2°W., 44 lks. dist., marked ¼ S 7 B T

79.00 Wash, 20 lks. wide, 2 ft. deep, drains S.

80.94 On E. slope 70 ft. above ¼ sec. cor.

Intersect W. bdy. of the Tp. 14.74 chs. S.1°18'E., of the cor. of secs. 12 and 13 on the E. bdy. of T.21 S.,R.2 W. 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. 7 and 18, with brass cap marked

T 21 S
R 2 W | R 1 W
S 12 | S 7
CC
S 13 | S 18
1915

from which

A pinon, 24 ins. diam., bears S.74°E., 155 lks. dist., marked T 21 S R 1 W S 18 B T

A pinon, 18 ins. diam., bears N.84°E., 160 lks. dist., marked T 21 S R 1 W S 7 B T

Land, rolling mountainous, general SE. exposure and drainage.

Soil, gravelly and rocky mixed with shallow sandy loam

Subdivision of T.21 S.,R.1 W.

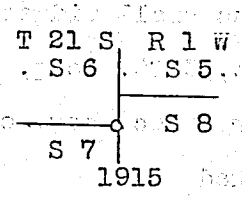
| chains | |
|---|---|
| | on dry sandy and rocky sub-soil. |
| | Timber, scrub cedar and pinon. |
| | Undergrowth, shadscale. |
| | --- |
| | North, bet. secs. 7 and 8. |
| | Over rolling mountainous land draining SE., through scattering pinon and cedar timber and undergrowth of shadscale, across numerous small ridges and ravines. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the E. bdy. sec.7, with brass cap marked |
| | ¼ S 7 \| 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | October 6,1915 |
| | October 7: Having ascertained the closing distance between the cor. of secs. 6 and 7 and the closing cor. of secs. 5 and 8 and finding same to be 2.34 chs. I return to the ¼ sec. cor. on the E. bdy. of sec. 7 and run north to |
| 41.17 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the W. bdy. of sec. 8, with brass cap marked |
| | \| S 8 ¼ 1915 |
| | raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. |
| | October 7,1915. |
| | October 6: |
| 54.10 | Wash, 30 lks. wide, 4 ft. deep, drains SE. |
| | Gradually ascend over rolling S. slope of ridge. |
| 69.75 | Top of ascent and ridge, 195 ft. above wash, bears NW. and SE. |

chains

Thence over rolling bench land sloping E.

80.00 Knowing from previous retracements that a closing cor. will be necessary for secs. 5 and 8, I establish this cor. for secs. 6 and 7 as follows:

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




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

Land, rolling mountainous, general E. exposure and drainage.

Soil, gravelly and shallow sandy loam streaked with rocks, on hard, dry sand and rock sub-soil.

Timber, scattering scrub cedar and pinon.

Undergrowth, shadscale.

October 6,1915.

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October 7: For solar obsn. see line bet. secs. 5 and 6

West, on a true line bet. secs. 6 and 7

Gradually ascend over rolling mountainous land draining E. through dense undergrowth of shadscale and scattering scrub cedar and pinon timber.

30.75 Ascend abruptly over E. slope.

40.00 On E. slope, 185 ft. above sec. cor.

Set a limestone, 24 x 18 x 10 ins., 16 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Iron posts not available

44.60 Top of ascent on E. slope, thence gradually descend over NW. slope.

Enter heavier scrub cedar and pinon timber, bears N. and S.

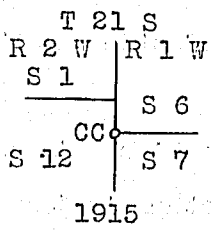
51.00 Ravine, 60 ft. below top of ascent, drains NE.

Subdivision of T.21 S.,R.1 W.

| chains | |
|---|---|
| | Gradually ascend over rolling and broken NE. slope. |
| 68.15 | Thence along red clay slope covered with sandstone rock. |
| 78.00 | Top of ascent on NE. slope, 205 ft. above ravine. |
| | Descend abruptly over short NW. slope. |
| 78.85 | Ravine, 20 ft. below top of ascent, drains NE. |
| | Ascend abruptly over SE. slope of mountain. |
| 81.01 | Intersect W. bdy. of the Tp. 13.60 chs. S.0°17'W., of the cor. of secs. 1 and 12 on the E. bdy. of T.21 S., R.2 W. heretofore described. |

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. 6 and 7, with brass cap marked




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

Land, mountainous, general E. exposure and drainage.

Soil, gravelly, rocky, shallow sandy loam and some red clay on gravelly and rocky sub-soil.

Timber, scrub cedar and pinon.

Undergrowth, shadscale.

October 7: At this cor., I set off 5° 17½'S., on the decl. arc; and at apparent noon obs. the sun on the meridian; the resulting lat. is 39° 01'.

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October 7: At 7h.55m.a.m. apparent time, I set off 39°01' on the lat. arc; 5° 13'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 6 and 7

Thence I run

North, on a true line on E. bdy. sec. 6

Subdivision of T.21 S., R.1 W.

chains

Over rolling mountainous land draining E., across numerous small ridges and ravines through dense short undergrowth of shadscale.

13.00 Wash, 40 lks. wide, 4 ft. deep, drains SE., Road, bears NE. and SW.

22.75 Enter scattering scrub cedar and pinon timber, bears E. and W.

28.25 Wash, 30 lks. wide, 2 ft. deep, drains SE.

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

S ¼ 6

1915

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

After closing the line bet. secs. 5 and 8 on the E. bdy. of sec. 6, I return to the ¼ sec. cor. on the E. bdy. of sec. 6 and run north to

42.34 A northing of 40.00 chs. from closing cor. of secs. 5 and 8; Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. on the W. bdy. of sec. 5, with brass cap marked

S ¼ 5

1915

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

44.83 Wash, 30 lks. wide, 2 ft. deep, drains SE.

50.65 Wash, 10 lks. wide, 3 ft. deep, drains SE.

83.53 Wood road, bears NE. and SW.

91.91 Intersect N. bdy. of the Tp. 5.00 chs. S.89°46'E. of the St. cor. of secs. 31 and 32, heretofore described.

At intersection,

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in

chains

the ground for closing cor. of secs. 5 and 6, with brass cap marked

T 20 S

S 31 | S 32
CC R 1 W

S 6 | S 5

T 21 S
1915

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

Land, rolling mountainous, general E. exposure and drainage.

Soil, gravelly and shallow sandy loam, mixed with rock, on gravelly and rocky sub-soil.

Timber, scattering scrub cedar and pinon.

Undergrowth, shadscale.

---

From the ¼ sec. cor. bet. secs. 5 and 8, I run West, on a true line bet. secs. 5 and 8.

Over rolling mountainous bench lands draining E., through dense undergrowth of short shadscale.

5.45 Low ridge, bears NW. and SE.

Enter scattering scrub cedar and pinon timber, bears N. and S.

Gradually descend over S. slope into small basin.

11.35 Bottom of small basin, 30 ft. below ridge, drains SE

Gradually ascend over NE. slope.

17.30 Spur, 30 ft. above basin, projects SE.

Gradually ascend over SE. slope.

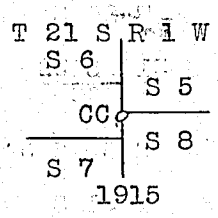
21.75 Top of SE. slope, 45 ft. above spur, thence along N. side ravine, draining SE. Land becomes more rolling.

37.67 Intersect N. and S. line 2.34 chs. N. of the cor. of secs. 6 and 7. At intersection

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in

chains

the ground for closing cor. of secs. 5 and 8, with brass cap marked




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

Land, rolling mountainous, general E. exposure and drainage.

Soil, gravelly and shallow sandy loam mixed with rock, on hard, dry sand and gravel sub-soil.

Timber, scattering scrub cedar and pinon.

Undergrowth, shadscale.

October 7,1915.

Isaac Hayes

U. S. Transitman.

---

Baoundaries of T.21 S.,R.1 W.

chains

Latitudes, departures and closing errors.

| Lines designated | True bearings | Distances | Latitudes N | Latitudes S | Departures E | Departures W |
|---|---|---|---|---|---|---|
| N. bdy. sec.4 | West | 39.91 | ------ | ------ | ------ | 39.91 |
| " | West | 39.97 | ------ | ------ | ------ | 39.97 |
| N. bdy. sec.5 | N.89°48'W. | 39.87 | .14 | ------ | ------ | 39.87 |
| " | N.89°46'W. | 39.83 | .16 | ------ | ------ | 39.83 |
| N.bdy. sec.6 | N.89°49'W. | 39.85 | .13 | ------ | ------ | 39.85 |
| " | S.89°48'W. | 35.85 | ------ | .12 | ------ | 35.85 |
| E. bdy.sec.1, T.21 S.,R.2 W. | S.0°15'E. | 39.44 | ------ | 39.44 | .17 | ------ |
| E.bdy.sec.1, T.21 S.,R.2 W. | S.0°17'W. | 38.76 | ------ | 38.76 | ------ | .20 |
| E.bdy. sec.12, T.21 S.,R.2 W. | S.0°17'W. | 38.76 | ------ | 38.76 | ------ | .20 |
| E. bdy. sec.12, T.21 S.,R.2 W. | S.0°03'W. | 39.97 | ------ | 39.97 | ------ | .04 |
| E. bdy. sec.13, T.21 S.,R.2 W. | S.1°18'E. | 89.03 | ------ | 89.01 | 2.02 | ------ |
| E.bdy.sec.24, T.21 S.,R.2 W. | S.1°10'E. | 40.83 | ------ | 40.82 | .83 | ------ |
| E. bdy. sec. 24, T.21 S.,R.2 W. | S.0°16'E. | 40.88 | ------ | 40.88 | .19 | ------ |
| S. bdy.sec.19 | S.87°45'E. | 80.49 | ------ | 3.16 | 80.48 | ------ |
| E.bdy.sec.19 | N.0°38'W. | 79.22 | 79.22 | ------ | ------ | .88 |
| S.bdy. sec.17 | S.89°26'E. | 79.13 | ------ | .79 | 79.13 | ------ |
| E.bdy.sec.17 | N.2°47'E. | 38.18 | 38.13 | ------ | 1.85 | ------ |
| E.bdy.sec.17 | N.5°16'W. | 42.43 | 42.25 | ------ | ------ | 3.89 |
| E.bdy.sec.8 | N.0°47'W. | 82.47 | 82.46 | ------ | ------ | 1.13 |
| S.bdy.sec.4 | N.88°13'E. | 79.05 | 2.46 | ------ | 79.01 | ------ |
| E.bdy.sec.4 | N.1°24'W. | 87.19 | 87.17 | ------ | ------ | 2.12 |
| Convergency | ---------- | ----- | ------ | ------ | ------ | .13 |
| | | | 332.12 | 331.71 | 243.62 | 243.87 |
| | | | 331.71 | | | |
| Error in latitude | | | .41 | | | 243.62 |
| | | | | | Error in departure | .25 |

General Description.

This fractional township consists of rolling foot hills and is situated in the west edge of the northern portion of Sevier valley. The land has a distinct eastern exposure and is cut by many washes and shallow ravines which drain E. In sec. 19, there is a large draw or level strip of land which covers about 300 acres. The soil of this land is a light brown sandy clay on a sandy sub-soil which is very dry and packed hard. The soil of the remaining lands is a shallow sandy loam mixed with gravel and limestone and quartz rock on a

General description

chains

sub-soil of dry sand, packed hard and mixed with rock. Scrub cedar and pinon timber is found on the higher hills in the NW. part of the township, the land in general is covered with a short undergrowth of chadscale. On the banks of some of the washes considerable greasewood and rabbit brush is found.

A small stream of saline water in Denmark wash in sec. 19 is the only water in the Tp.

There are no settlers in the township.

I find no indications of mineral in the township.

Howard D. Miller
U. S. Surveyor.

Isaac Hayes
U. S. Transitman.

BOOK A-421

# CERTIFICATE OF ASSISTANTS.

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

.....

.....

.....

.....

.....

.....

of the ..... Meridian, in the State of .....

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

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

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

.....

*U. S. Surveyor.*

20

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

I, Isaac Hayes, U.S.Transitman, ~~U.S. Surveyor~~, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 14 day of May, 1915, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of retracement and resurvey of the west boundary; retracement of 4th. St. Par. S. through R.1W., retracement, resurvey and survey of the subdivision of T.21 S., R.1 W. of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Isaac Hayes
U. S. Transitman ~~U.S. Surveyor~~.

Subscribed by said Isaac Hayes, and sworn to before me this 15th day of May, 1916

[illegible]
Clerk of Court

SEAL

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 191

The foregoing field notes of the survey of

executed by

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

*U. S. Surveyor General.*

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

6—2761

*U. S. Surveyor General.*

4—680

BOOK A-421

# CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and abilit Isaac Hayes, U.S.Transitman Howard W. Miller, U.S. Surveyor & ~~U.S. Surveyor~~, during the periods and in the capaciti stated opposite our several signatures, in surveying all those parts or portions of retracement a resurvey of the west boundary; retracement of the 4th St. Par. S.R.1 retracement, resurvey and survey of subdivision of T. 21 S. R. 1 W.

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

| NAME. | PERIOD OF SERVICE. | | CAPACITY. |
|---|---|---|---|
| | BEGUN. | ENDED. | |
| Carl Ray | October 2, 1915 | October 7, 1915 | chainman |
| William Fredricksen | " | " | " |
| Rufus W. Riley | " | " | " |
| Edward Jones | " | " | " |
| Edward Oliver | " | " | flagman |
| Leslie H. King | " | " | " |
| James Tyrell | " | " | cornerman |
| Harry Fox | " | " | " |

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

Howard W. Miller,
U. S. Surveyor.

6—2761

# FINAL OATH OF UNITED STATES SURVEYOR.

I, Howard W. Miller, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 14th day of May, 1915, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of retracement and resurvey of the west boundary, retracement of 4th St. Par. S. through R. 1 retracement, resurvey and survey of subdivision in T. 21 S. R. 1 W.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Howard W. Miller
*U. S. Surveyor.*

Subscribed by said Howard W. Miller, and sworn to before me this 25th day of March, 1916

SEAL

A. O. Thorsen
U. S. Surveyor General for Utah

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 31, 1917.

The foregoing field notes of the ~~survey of~~ retracement of the fourth standard parallel south, through Range No. 1 West; retracement and resurvey of the west boundary; and resurvey and survey of the subdivision of Township No. 21 South, Range No. 1 West of the Salt Lake Base and Meridian, Utah,

executed by Howard W. Miller and Isaac Hayes under ~~his~~ their special instructions dated May 14, 1915, having been critically examined, and the necessary corrections and explanations made, the ~~said field~~ retracements, resurveys and surveys they describe, are hereby approved.

A. O. Thorsen
*U. S. Surveyor General.*

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

*U. S. Surveyor General.*

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Page

4—679

BOOK A-421 "D"

# FIELD NOTES

OF THE SURVEY OF THE

SOUTH, WEST AND NORTH BOUNDARIES,

RETRACEMENT OF THE UTAH-COLORADO BOUNDARY

AND

SURVEY OF THE SUBDIVISION

OF

TOWNSHIP 18 SOUTH, RANGE 26 EAST

*Of the* Salt Lake Base and *Meridian,*

*In the State of* Utah

EXECUTED BY

RALPH GENTRY

*In the capacity of U. S. Surveyor, under instructions dated* July 20, *1915*, and Supplemental Assignment Instructions dated August 8, 1915 *issued by the United States Surveyor General to govern surveys included in Group No.* 12, *which were approved by the Commissioner of the General Land Office,* July 28, *191*5 and September 25, 1915, respectively *pursuant to authority contained in the Act of Congress dated* , *191*

*Survey commenced* October 6, *1915*

*Survey completed* October 15, *1915*

6—151

List of Assistants

| | |
|---|---|
| Sterling Wright | H. Chainman |
| Sidney Reese | R. Chainman |
| Lynn Taylor | Flagman |
| Lee Moore | Cornerman |

BOOK A-421

# INDEX DIAGRAM.

*Township* 18 South, *Range* 26 East

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

6—151

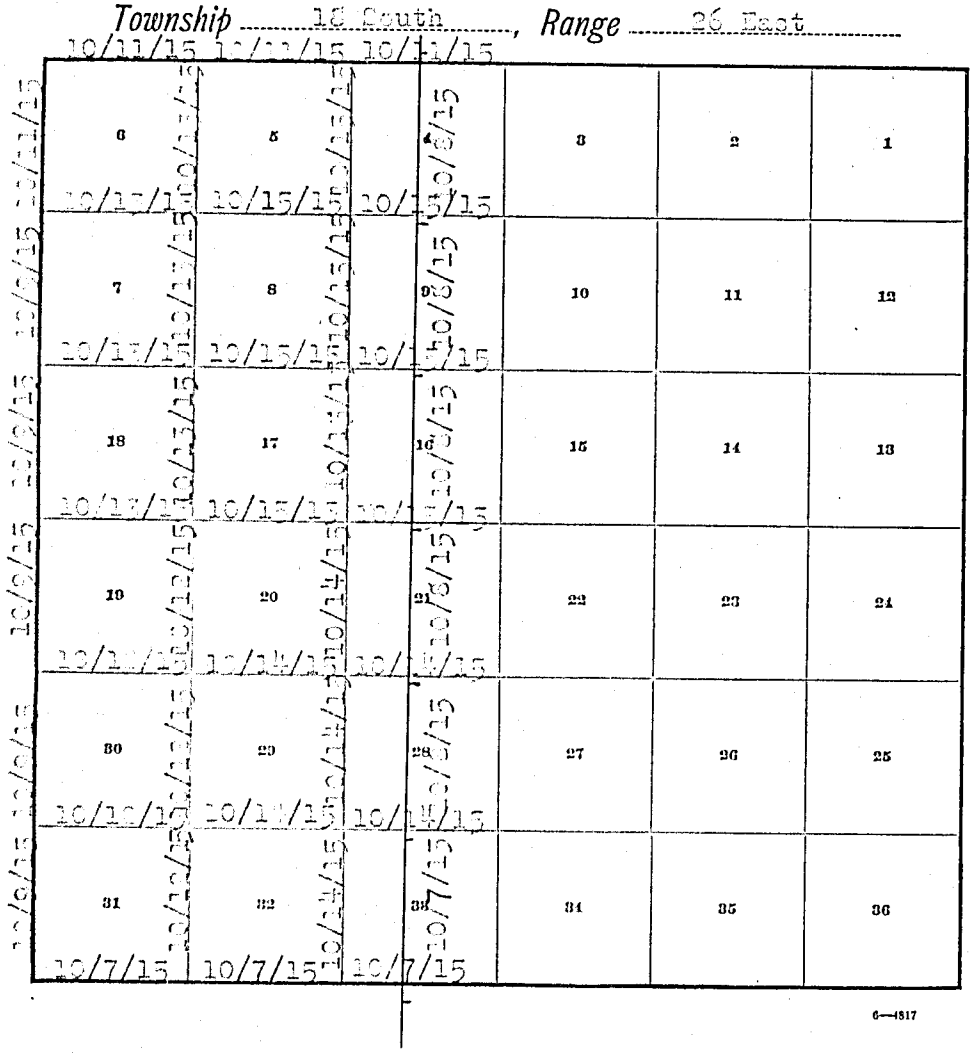
BOOK A-421

4—679 b

DATE

# ~~INDEX~~ DIAGRAM.

*Township* 18 South, *Range* 26 East

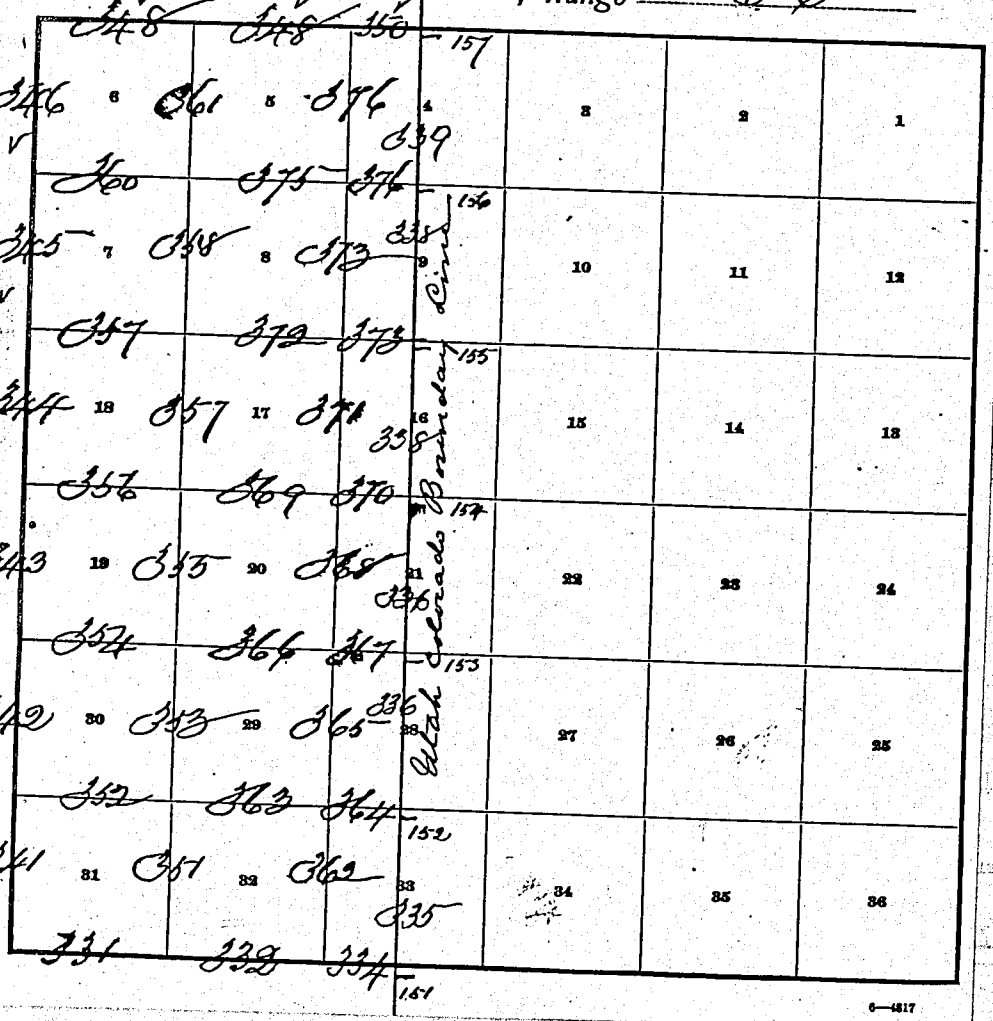



6—4817

4—679 b

# INDEX DIAGRAM.

Township 18 S, Range 26 E




6—4817

Survey commenced October 6, 1915, and executed with a Buff and Buff transit, No. 8028, with a Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was approved by the assistant supervisor of surveys in assignment instructions dated May 10, 1915.

A steel tape 4 chains long was used in all field work, together with clinometers for determining slope angles. The tape was tested frequently during the season, comparison being made with a standard tape 1 chain long, kept for this purpose.

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

At camp, about 10 chs. N. of the 154th mile cor. of the Utah-Colorado boundary, described in the notes of the Utah-Colorado boundary, page 9 this book; approximate longitude 109°05'W., latitude 39°15'N.; I set off 39° 15'N. on the lat. arc; 4°57'S. on the decl. arc; and at 4h 18m p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stake firmly set in the ground, 5 chs. N. of my station.

At 6h 36m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a stake driven in the ground, 5 chs. N. of my station.

October 6, 1915

SOUTH BOUNDARY OF T. 18 S., R. 26 E.

October 7: At 7 a.m., l.m.t., I lay off the azimuth of Polaris, 1°28' to the west, and mark the meridian thus determined, on the stake set October 6. This meridian coincides with the meridian determined by the solar.

At 7h 18m a.m., l.m.t., I set off 39°15' on the lat. arc; 5°11'S. on the decl. arc; and determine a meridian with the solar, which coincides with the meridian established by the Polaris observations.

The solar apparatus, by p.m. and a.m. observations, defines positions for the meridian, coinciding with the meridian established by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h 45m a.m., is N.15°30'W.; the angle thus determined gives the mag. decl. 15°30'E.

NOTE: Instrument was frequently tested on the meridian and kept in good adjustment during the execution of this survey.

---

Begin at the cor. of Tps. 18 and 19 S., Rs. 25 and 26 E., which is a slate stone 12 x 8 x 4 ins., set 2 ins. in the ground; faint traces of old pits and mound. I re-establish this cor. as follows:

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, alongside of old cor., for cor. of Tps. 18 and 19 S., Rs. 25 and 26 E., with brass cap marked

SOUTH BOUNDARY OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | T 18 S<br>R 25 E \| R 26 E<br>S 36 \| S 31<br>S 1 \| S 6<br>R 25 E \| R 26 E<br>T 19 S<br>1915 |
| | Dig pits, 24 x 24 x 12 ins., on each line, N., E. and W., 4 ft., and S. of post, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2½ ft. high, S. of cor. |
| | Thence |
| | East, bet. secs. 6 and 31, |
| | Over nearly level land, through scattering undergrowth of greasewood, shadscale and grass. |
| | Ascend gradually along foot of bench. |
| 8.00 | Top of ascent, 15 ft. above Tp. cor., slopes S. |
| | Descend gradually. |
| 16.00 | Foot of bench, 15 ft. below Tp. cor., bears NE. and S.75°W. |
| | Thence over nearly level land. |
| 30.50 | Bitter Creek wash, dry, 150 lks. wide, 15 ft. deep, drains from SE. to SW. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 31<br>¼<br>S 6<br>1915 |
| | Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. |
| 49.75 | Road (Midland trail), bears N. and SE. |
| 53.40 | Bitter Creek wash, 2.00 chs. wide, 20 ft. deep, drains S. |
| | Ascend gradually along side of wash. |
| 61.30 | Road (Midland trail), bears NE. and SW. |
| 62.00 | Top of ascent, 25 ft. above creek, bears E. and SW. |
| 75.30 | Wash, 1 ch. wide, 5 ft. deep, drains N.85°W. |
| | Thence along wash. |

SOUTH BOUNDARY OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| 78.50 | Ascent from wash, bears S.85°E. and N.85°W. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, with brass cap marked |

T 18 S | R 26 E
S 31 | S 32
---
S 6 | S 5
T 19 S | R 26 E
1915

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

Cor. stands on W. slope of small knoll, 15 ft. above wash.

Land, gently rolling along bottom of Bitter Creek ravine on W. 53.40 chs., and gently rolling hills on remainder, sloping gently to the west.

Soil, dry gray clay, 6 to 8 ins. deep, on hard pan of light, hard clay.

No timber.

Undergrowth, scattering greasewood, shadscale and grass.

---

East, bet. secs. 5 and 32,

Over rolling land, through scattering undergrowth of greasewood, shadscale and grass.

Ascend small knoll.

2.50 Top of knoll, 20 ft. above sec. cor.

Descend.

4.00 Foot of knoll, 20 ft. below top, bears NE. and SW.

Thence over nearly level land.

14.30 Wash, 50 lks. wide, 5 ft. deep, drains S.80°W.

Thence over gradually ascending land, sloping NW.

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

S 32
¼
---
S 5
1915

SOUTH BOUNDARY OF T. 18 S., R. 26 E.

Chains

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

Ascend along ridge bearing SW. and NE.

Enter scattering sagebrush bearing NE. and SW.

71.00 Wash, 100 lks. wide, 5 ft. deep, drains NW.

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 4 ins. in the ground to solid sandstone, and raise a mound of stone, 4 ft. base, 20 ins. high, around post, for cor. of secs. 4, 5, 32 and 33, with brass cap marked

| | |
|---|---|
| T 18 S<br>S 32 | R 26 E<br>S 33 |
| S 5<br>T 19 S | S 4<br>R 26 E |

1915

from which

A cedar 12 ins. dia bears N.77°45'E., 60 lks. dist., marked T 18 S R 26 E S 33 B T.

A cedar 7 ins. dia. bears S.7°E., 199 lks. dist., marked T 19 S R 26 E S 4 B T.

A cedar 7 ins. dia. bears S.2°W., 260 lks. dist., marked T 19 S R 26 E S 5 B T.

A cedar 8 ins. dia. bears N.3°W., 141 lks. dist., marked T 18 S R 26 E S 32 B T.

Cor. stands in edge of scattering timber bearing N. and S., 60 ft. above ¼ sec. cor.

Land of W. 40 chs., gently rolling, sloping gently to the NW., the soil of which is a dry, gray clay, 6 to 8 ins. deep on hard pan of light clay. Land of E. 40 chs., gently rolling, sloping to the NW., with numerous outcroppings of sandstone.

Soil, light sandy loam from 1 to 6 ins. deep on sandstone.

Undergrowth of scattering greasewood, shadscale and grass on W. half-mile, and scattering sagebrush, shadscale and grass on E. half-mile.

Few scattering cedars around cor.

SOUTH BOUNDARY OF T. 18 S., R. 26 E.

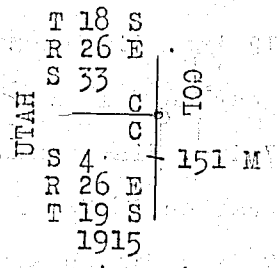
Chains

East, bet. secs. 4 and 33,

Over rolling land and sandstone outcroppings, through scattering timber and undergrowth of scattering sagebrush and grass.

3.58 Intersect the Utah-Colorado bdy. 6.65 chs. N.0°4'E. of the 151st mile cor., which is a sandstone 18 x 9 x 8 ins., set in a mound of stone, marked 151 M on S., C on E., 1885 on N., and U on W. faces.

Set an iron post, 3 ft. long, 3 ins. in diam., 4 ins. in the ground to solid sandstone rock, and raise a mound of stone, 4 ft. base, 20 ins. high, around post, for closing cor. of secs. 4 and 33, with brass cap marked




from which

A cedar 6 ins. dia. bears S.19°30'W., 138 lks. dist., marked T 19 S R 26 E S 4 B T.

No other trees available; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, gently rolling on foot of ridge sloping gently to the NW.

Soil, light sandy loam, 1 to 6 ins. deep, on sandstone.

Timber, scattering cedar and pinon pine.

Undergrowth, scattering sagebrush and grass.

RETRACEMENT OF THE UTAH-COLORADO BOUNDARY

T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | From the 151st mile cor. of the Utah-Colorado boundary, described on page 6, this book, |
| | North, on 152nd mile, retracing, |
| | Over rolling land sloping NE., over sandstone outcropping, through scattering cedar and pinon pine, and scattering undergrowth of sagebrush, shadscale and grass. |
| .70 | Wash, 1 ch. wide, 15 ft. deep, drains N.70°W. |
| 20.00 | Swale, 25 ft. deep, drains W. |
| | Leave timber and sagebrush, bearing E. and W. Ascend gradually over land sloping W. |
| 32.40 | Road (Midland trail), bears E. and W. |
| | Top of ascent, 15 ft. above bottom of swale, slopes W. Descend gradually. |
| 46.30 | Wash, 10 lks. wide, 1 ft. deep, 15 ft. below top, drains S.60°W. |
| | Ascend gradually over land sloping SW. |
| 62.18 | Low ridge, 30 ft. above wash, bears N.75°E. and S.75°W. Descend. |
| 73.90 | Wash, 25 lks. wide, 5 ft. deep, 50 ft. below ridge, drains N.75°W. Ascend. |
| 75.50 | Top of ascent, 10 ft. above wash, bears E. and W. |
| | Thence over land sloping W. |
| 81.69 | Fall 8½ lks. W. of the 152nd mile cor., which is a sandstone 12 x 12 x 8 ins. above ground, marked 152 M on S., C on E., 1885 on N., and U on W. faces. |
| | The course of this mile is therefore N.0°04'E. and the distance 81.69 chs. |
| | Land, rolling hills, sloping W. |
| | Soil of S. 20.00 chs., red sandy loam with numerous sandstone outcroppings; soil 1 to 6 ins. deep on sandstone. Soil of remaining portion, light sandy loam and gray clay 6 to 8 ins. deep on subsoil of white clay, 2nd rate. |
| | Timber, cedar and pinon pine on S. 20.00 chs. |

RETRACEMENT OF THE UTAH-COLORADO BOUNDARY

T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | Undergrowth, sagebrush, shadscale and grass. |
| | North, on 153rd mile, retracing, |
| | Over rolling land, sloping gently to the W., through scattering undergrowth of shadscale, greasewood and grass. |
| 14.60 | Wash, 25 lks. wide, 3 ft. deep, drains W. Ascend. |
| 19.85 | Telephone line, Cisco, Utah, to Mack, Colo., bears N.74°10'E. and S.74°10'W. |
| 36.00 | Top of rolling ridge, 45 ft. above wash, bears E. and W. Descend gradually. |
| 47.30 | Wash, 10 lks. wide, 5 ft. deep, 20 ft. below ridge, drains N.75°W. Ascend. |
| 52.90 | Spur, 50 ft. above wash, projects W. Descend gradually. |
| 58.88 | A slate stone, 12 x 8 x 1 ins. above ground, marked L W 27 U on W. face. |
| 75.90 | Wash, 10 lks. wide, 5 ft. deep, 70 ft. below spur, drains N.75°W. Ascend gradually. |
| 81.08 | Fall 8½ lks. W. of the 153rd mile cor., which is a sandstone 32 x 12 x 3 ins., set in a mound of stone, marked 153 on S., C on E., 1885 on N. and U on W. faces. |
| | The course of this mile is therefore N.0°04'E. and the distance 81.08 chs. |
| | Land, gently rolling hills, draining W. |
| | Soil, light gray, dry clay, 6 to 8 ins. deep on subsoil of light, hard clay and small stone. |
| | No timber. |
| | Undergrowth, scattering greasewood, shadscale and grass. |
| | North, on 154th mile, retracing, |
| | Over rolling hills, through scattering undergrowth of shadscale and grass. Ascend gradually. |

RETRACEMENT OF THE UTAH-COLORADO BOUNDARY

T. 18 S., R. 26 E.

| Chains | |
|---|---|
| 2.50 | Spur, 10 ft. above mile cor., projects W. Descend. |
| 11.00 | Ravine, 15 ft. below spur, drains N.75°W. Ascend. |
| 17.54 | Fall 5 lks. W. of an iron post, 3 ft. long, 3 ins. dia., 12 ins. above ground, marked<br>T 9 S<br>R 104 W<br>S 31<br>UTAH \| CO<br>COL<br>S 6<br>T 10 S<br>1915<br>witnessed by a mound of stone, 3 ft. base, 2 ft. high, E. of cor. |
| 20.00 | Spur, 35 ft. above ravine, slopes 1° to the W. Descend. |
| 38.90 | Wash, 60 lks. wide, 10 ft. deep, 75 ft. below spur, drains W. Ascend. |
| 42.48 | Top of ascent, 25 ft. above wash, bears E. and W. Thence over land sloping W. |
| 52.98 | Descent bears S.50°W. and NE. |
| 55.38 | Wash, 25 lks. wide, 10 ft. deep, 75 ft. below top of ascent, drains S.30°E. |
| | Thence over nearly level land. |
| 58.90 | Bitter Creek wash, 1 ch. wide, 8 ft. deep, drains S.30°W. |
| 60.45 | Recross Bitter Creek wash, draining SE. |
| 65.90 | Cor. of S. Quick ice house. |
| | Ascend spur, bearing NW. and E. |
| 67.80 | Top of ascent, on W. side of spur, 35 ft. above foot. |
| | Thence along slope. |
| 74.80 | Descend along W. side of spur, sloping W. |
| 82.12 | Fall 8½ lks. W. of an iron post, 3 ft. long, 3 ins. in dia., 12 ins. above the ground, marked<br>154 M<br>UTAH \| COLO<br>1915<br>witnessed by a mound of stone, 3 ft. base, 2 ft. high, |

RETRACEMENT OF THE UTAH-COLORADO BOUNDARY

T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | W. of post (sandstone cobble 12 x 10 x 8 ins., marked C 1885 on one face and U 1885 on opposite face, on top of stone mound). |
| | The course of this line is therefore N.0°04'E. and the distance 82.12 chs. |
| | Land, rolling hills and bench, sloping W. Land to W. of line, along Bitter Creek, which drains S. and to W., rolling hills. |
| | Soil, gray, dry clay, 6 to 8 ins. deep on hard pan of light clay and gravel. |
| | No timber. |
| | Undergrowth, shadscale and grass. Along bottom of Bitter Creek, scattering greasewood. |
| | North, on the 155th mile, retracing, |
| | Over rolling hills, through scattering undergrowth of shadscale, grass and greasewood. Descend. |
| .70 | Ravine, 15 ft. below mile cor., drains S.70°W. Ascend gradually. |
| 3.95 | Old Denver & Rio Grande Railroad grade, bears E. and SW. |
| 11.00 | Top of ascent, 40 ft. above cor., slopes W. Descend. |
| 15.90 | Bitter Creek wash, 120 lks. wide, 10 ft. deep, 45 ft. below top of ascent, drains S.30°W. |
| | Thence over broken bottom land, through dense greasewood. |
| 19.80 | Recross Bitter Creek wash, draining SE. |
| 21.04 | " " " " " SW. |
| 23.90 | " " " " " E. |
| 26.80 | " " " " " SW. |
| 36.10 | " " " " " SE. |
| 47.10 | " " " " " S.30°W. |
| 49.20 | " " " " " E. |
| 59.81 | Fall 21 lks. W. of a sandstone 12 x 8 x 1 ins., marked COL 156 on E. and UT 27 W on W. faces. |

RETRACEMENT OF THE UTAH-COLORADO BOUNDARY

T. 18 S., R. 26 E.

| Chains | |
|---|---|
| 76.50 | Bitter Creek wash, 1 ch. wide, 12 ft. deep, drains SW. |
| 78.70 | Recross Bitter Creek wash, draining E. |
| 80.00 | No trace of old cor. 155th mile. |
| 81.10 | Fall 6 lks. W. of a mound of earth, 4 ft. base. Pits 40 x 40 ins., 12 ins. deep, N. and S. of mound. (These have been dug recently, I do not take this as old cor.) Thence I continue on same line along the Utah-Colorado bdy. |
| 81.68 | Bank of Bitter Creek, 30 ft. high, bears N.30°W. and SW. |
| 98.00 | Bank of Bitter Creek, 20 ft. high; drains from NW. to SW. |
| 152.00 | Foot of bench bears NW. and S.30°E. Ascend. |
| 157.15 | Top of bench, bears NW. and S.30°E. Enter sagebrush, bearing NW. and SE. Thence over rolling bench land. |
| 162.06 | Fall 24 lks. W. of an iron post, 3 ft. long, 3 ins. in dia., 12 ins. above the ground, marked UTAH \| COLO 156 MP 1915 |

The course from the 154th mile cor. to the 156th mile cor. is therefore N.0°05'E. and the distance 162.06 chs.

Land along Bitter Creek, which drains S., is an open ravine about 20 chs. wide. Land to the W. and E. of Bitter Creek ravine, rolling land and hills.

Soil, dry, gray clay, 6 to 8 ins. deep on hard pan of light clay, 2nd rate.

No timber.

Undergrowth, scattering greasewood, shadscale and grass.

---

North, on the 157th mile, retracing,

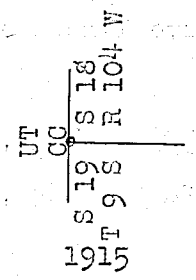
Over gently rolling bench land, through sagebrush and scattering shadscale, and grass.

| | |
|---|---|
| 21.79 | Ravine, 15 ft. deep, heads 4 chs. NW., drains SE. |

RETRACEMENT OF THE UTAH-COLORADO BOUNDARY

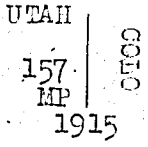
T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | Ascend. |
| 24.00 | Top of ascent, 10 ft. above ravine, bears NW. and SE. Thence over rolling bench. |
| 24.01 | Fall 7 lks. W. of an iron post 3 ft. long, 2 ins. in dia. 12 ins. above ground, marked |




witnessed by pits N., S., and E., and mound of earth E. of post.

| | |
|---|---|
| 54.26 | Fall 12½ lks. W. of a limestone 12 x 10 x 4 ins., 4 ins. above ground, marked COL 158 M on E. face and UT 27 W on W. face. |
| 68.00 | Descend gradually, bearing NW. and SE. |
| 74.00 | Wash, 10 lks. wide, 5 ft. deep, 15 ft. below top of ascent, drains SE. |
| | Leave sagebrush, bearing NW. and SE. Ascend gradually. |
| 80.95 | Fall 24 lks. W. of an iron post 3 ft. long, 3 ins. in dia., 12 ins. above ground, marked |




witnessed by pits 40 x 40 x 12 ins., N. and S. of post, and mound of earth W. of cor.

The course of this mile is therefore N.0°10'E. and the distance 80.95 chs.

Land, gently rolling bench land, sloping gently to the east.

Soil, red sandy loam and small rocks, 6 to 8 ins. deep on hard pan of light clay and small stones.

No timber.

Undergrowth, sagebrush and scattering shadscale and grass.

WEST BOUNDARY OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | From the cor. of Tps. 18 and 19 S., Rs. 25 and 26 E., described on page 2, this book, |
| | North, bet. secs. 31 and 36, |
| | Over rolling hills, through scattering undergrowth of greasewood, shadscale and grass. Ascend. |
| 6.00 | Top of ascent, 60 ft. above Tp. cor., slopes W. Descend. |
| 8.60 | Swale, 25 ft. deep, drains SW. Ascend. |
| 15.85 | Spur, 35 ft. above swale, projects SW. Descend. |
| 18.25 | Swale, 15 ft. below spur, drains SW. Ascend. |
| 22.50 | Point of blue spur, 35 ft. high, projects SW. Descend. |
| 27.75 | Swale, 15 ft. deep, drains SW. Ascend. |
| 29.75 | Ridge, 30 ft. above swale, bears NW. and SE. |
| | Thence on level line over land sloping E. |
| 35.70 | Wash, 5 lks. wide, 1 ft. deep, heads 3 chs. W. and drains E. Ascend. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 36 ¼ \| S 31<br>1915<br>and raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. |
| 44.00 | Top of bench, 20 ft. above ¼ sec. cor., bears E. and W. |
| | Enter scattering sagebrush bearing E. and W. |
| | Thence over gently rolling bench land. |
| 70.60 | Descend from bench, bearing E. and W. |
| | Leave scattering sagebrush bearing E. and W. |
| 75.90 | Foot of bench, 70 ft. below top, bears E. and W. |
| | Thence over level bottom land. |
| 80.00 | Point for cor. falls in wash, 25 lks. wide, 4 ft. deep, draining N.70°E. Impracticable to set cor. |
| 81.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for witness cor. to cor. of secs. 25, 30, 31 and 36, with brass cap marked |

WEST BOUNDARY OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | T 18 S<br>R 25 E \| R 26 E<br>S 25 WC S 30<br>S 36 \| S 31<br>1915 |
| | Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. |
| | Land, rolling bench land, broken by slopes; general drainage to the east. |
| | Soil of S. half-mile, dry, gray clay, 6 to 8 ins. deep on subsoil of hard, light clay. Soil of N. half-mile, red, sandy loam and small pebbles, 6 to 12 ins. deep on hard pan of light, hard clay. |
| | No timber. |
| | Undergrowth, on S. portion scattering greasewood, shadscale and grass, and on N. portion sagebrush and grass. |
| | North, bet. secs. 25 and 30, from true cor. point |
| | Over nearly level bottom land, through scattering undergrowth of shadscale, and grass. |
| 1.77 | Telephone line, Cisco, Utah, to Mack, Colo., bears N.89°35'E. and S.89°35'W. |
| 4.50 | Road (Midland trail), bears SE. and W. |
| 5.40 | Old road bed, Denver & Rio Grande R. R., bears E. and W. |
| 12.00 | Foot of spur bears E. and W. Ascend. |
| 18.00 | Top of spur, 50 ft. high, projects S.70°E. Descend. |
| 28.00 | Foot of spur, 50 ft. below top, bears N.70°W. and S.60°E. |
| | Thence over nearly level bottom land. |
| 39.90 | Wash, 8 lks. wide, 3 ft. deep, drains SE. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

WEST BOUNDARY OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | S 25 \| S 30<br>¼<br>1915 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| 45.80 | Wash, 25 lks. wide, 5 ft. deep, drains S.60°E. |
| | Ascend bench. |
| 55.90 | Top of bench, 90 ft. above foot, bears NW. and SE. |
| | Enter sagebrush bearing same. |
| | Thence over bench. |
| 73.40 | Descend from bench, bearing NW. and SE. |
| 75.90 | Foot of bench, 15 ft. below top, bears NW. and SE. |
| | Leave sagebrush bearing same. |
| | Thence over gently rolling land. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, with brass cap marked |
| | T 18 S<br>R 25 E \| R 26 E<br>S 24 \| S 19<br>S 25 \| S 30<br>1915 |
| | Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. |
| | Land, gently rolling, along draws and bench, broken by slope to bench lands. |
| | Soil, dry, gray clay, 6 to 8 ins. deep, on subsoil of light, hard clay. |
| | No timber. |
| | Undergrowth, scattering greasewood, shadscale and grass. |
| | North, bet. secs. 19 and 24, |
| | Over gently rolling land, through undergrowth of shadscale and scattering greasewood and grass. |

WEST BOUNDARY OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| 16.00 | Enter scattering shadscale bearing E. and W. |
| 35.00 | Wash, 50 lks. wide, 8 ft. deep, drains E. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 24 ¼ \| S 19<br>1915<br>Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| 42.00 | Foot of bench bears E. and W. Ascend. |
| 48.00 | Top of ascent on point of bench, 30 ft. high, bears N. and W. |
| | Thence along point of bench. |
| 54.00 | Descent from bench bears S. and W. |
| 56.00 | Foot of bench, 15 ft. below top, bears NW. and SE. |
| | Thence over nearly level land. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, with brass cap marked<br>T 18 S<br>R 25 E \| R 26 E<br>S 13 \| S 18<br>S 24 \| S 19<br>1915<br>and raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. |
| | Land, gently rolling, broken by washes, and slopes of bench; drainage E. |
| | Soil, light clay, 6 to 8 ins. deep on subsoil of light, hard clay. |
| | No timber. |
| | Undergrowth, shadscale, greasewood and grass. |

---

North, bet. secs. 13 and 18,

Over gently rolling land along foot of bench, through scattering undergrowth of shadscale and grass.

WEST BOUNDARY OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| 16.00 | Leave foot of bench, bearing NW. and S. |
| 24.25 | Wash, 10 lks. wide, 5 ft. deep, drains S.30°E. |
| 39.20 | Wash, 10 lks. wide, 6 ft. deep, drains SE. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 13 ¼ \| S 18<br>1915<br>Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, with brass cap marked<br>T 18 S<br>R 25 E \| R 26 E<br>S 12 \| S 7<br>S 13 \| S 18<br>1915<br>Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. |
| | Cor. stands at W. foot of bench. |
| | Land, gently rolling; drainage to the SE. |
| | Soil, gray clay, 6 to 8 ins. deep, on subsoil of light, dry clay. |
| | No timber. |
| | Undergrowth, scattering shadscale and grass. |
| | North, bet. secs. 7 and 12, |
| | Over rolling land along W. foot of bench, through scattering undergrowth of shadscale and grass. |
| 28.90 | Wash, 15 lks. wide, 6 ft. deep, drains SW. |
| | Leave foot of bench, bearing E. and S. |
| 36.00 | Foot of spur bears NW. and SE. Ascend. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. |

WEST BOUNDARY OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | in the ground, for ¼ sec. cor., with brass cap marked<br>S 12 ¼ \| S 7<br>1915<br>and raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. |
| | Cor. 30 ft. above foot of spur. |
| 40.55 | Point of spur, 15 ft. above ¼ sec. cor., slopes SE. Descend. |
| 47.92 | Foot of descent, 35 ft. below point of spur, drains E. Ascend. |
| 57.90 | Low ridge, 45 ft. above foot, bears E. and W. Descend. |
| 63.80 | Foot of ridge, 50 ft. below top, bears E. and W. Thence over gently rolling land. |
| 77.90 | Wash, 15 lks. wide, 3 ft. deep, drains S.60°W. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, with brass cap marked<br>T 18 S<br>R 25 E \| R 26 E<br>S 1 \| S 6<br>S 12 \| S 7<br>1915<br>and raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. |
| | Land, gently rolling, on S. half, with bench land to E., and land of N. half broken by spurs and low rolling ridges, drainage to SW. |
| | Soil, dry, gray clay, 6 to 8 ins. deep, on subsoil of hard, light clay. |
| | No timber. |
| | Undergrowth, scattering shadscale and grass. |
| | North, bet. secs. 1 and 6; |
| | Over gently rolling land, through scattering shadscale |

WEST BOUNDARY OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | and grass. |
| 17.70 | Wash, 15 lks. wide, 4 ft. deep, drains S.30°E. Ascend bench. |
| 28.00 | Spur, 55 ft. above wash, projects S.30°E. Descend. |
| 32.90 | Ravine, 25 ft. below spur, course S.30°E. Thence along same. |
| 35.90 | Ascend from ravine draining NW. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 1 ¼ \| S 6<br>1915<br>and raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. |
| | Cor. stands on top of bench bearing N.30°W. and S.30°E., 30 ft. above ravine. |
| | Thence over gently rolling bench, through sagebrush and grass. Leave shadscale, bearing S.30°E. and NW. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of Tps. 17 and 18 S., Rs. 25 and 26 E., with brass cap marked<br>T 17 S<br>R 25 E \| R 26 E<br>S 36 \| S 31<br>S 1 \| S 6<br>R 25 E \| R 26 E<br>T 18 S<br>1915<br>Dig pits, 24 x 24 x 12 ins., on each line, N., E. and W., 4 ft., and S. of post, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2½ ft. high, S. of cor. |
| | Land of S. half, gently rolling along ravine, broken by low spurs and ridges, drainage SW., the soil being a dry, gray clay, 6 to 8 ins. deep on subsoil of light, hard clay. Land of N. half mile, rolling bench land, the soil being a red, sandy loam and small pebbles, 6 to 8 ins. deep, on subsoil of light, dry clay. |
| | No timber. |
| | Undergrowth, on S. half, scattering shadscale and grass; on N. half, sagebrush and scattering shadscale and grass. |

NORTH BOUNDARY OF T. 18 S., R. 26 E.

Chains

From the cor. of Tps. 17 and 18 S., Rs. 25 and 26 E., described on page 19, this book,

East, bet. secs. 6 and 31,

Over gently rolling bench land, through sagebrush undergrowth, and grass.

32.00 Wash, 6 lks. wide, 1 ft. deep, drains S.

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

S 31
¼
S 6
1915

Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

78.50 Brink of bench, bears N. and S. Descend.

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

T 17 S | R 26 E
S 31 | S 32
S 6 | S 5
T 18 S | R 26 E
1915

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

Cor. stands on W. side of ravine, 20 ft. below top of bench.

Land, gently rolling bench land.

Soil, red, sandy loam, 6 to 8 ins. deep, on a subsoil of hard, light clay.

No timber.

Undergrowth, sagebrush and scattering shadscale and grass.

---

East, bet. secs. 5 and 32,

Over rolling bench land, through undergrowth of sagebrush and grass. Descend.

NORTH BOUNDARY OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| 1.30 | Wash, 30 lks. wide, 5 ft. deep, 10 ft. below sec. cor., drains S.10°E. Ascend. |
| 6.00 | Top of bench, 30 ft. above ravine, bears NW. and SE. Thence over rolling bench. |
| 15.00 | Head of ravine, drains SE. |
| 36.00 | Descend gradually from bench bearing NW. and SE. |
| 39.50 | Wash, at foot of bench, 10 lks. wide, 2 ft. deep, drains SE., 10 ft. below top. Leave sagebrush, enter scattering greasewood, bearing NW. and SE. Thence over nearly level land. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 32 / ¼ / S 5 / 1915 Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. |
| 49.00 | Wash, 1 ch. wide, 10 ft. deep, drains S. |
| 52.00 | Foot of bench bears N. and S. Ascend. |
| 53.70 | Top of bench, 45 ft. high, bears N. and S. Leave greasewood, enter sagebrush, bearing N. and S. Thence over rolling bench land. |
| 59.90 | Descend gradually, bearing SE. and N. |
| 76.12 | Wash, 25 ft. below top of bench, 10 lks. wide, 1 ft. deep, drains SE. Leave sagebrush, enter scattering greasewood, bearing NW. and SE. Thence over nearly level land. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, with brass cap marked |

NORTH BOUNDARY OF T. 18 S., R. 26 E.

Chains

| | |
|---|---|
| T 17 S<br>S 32 | R 26 E<br>S 33 |
| S 5<br>T 18 S | S 4<br>R 26 E |

1915

Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, gently rolling bench, and bottom land, broken by small ravines and slopes of bench.

Soil, light, red, sandy loam, 6 to 8 ins. deep, on subsoil of light, hard clay.

No timber.

Undergrowth, sagebrush and scattering greasewood, shadscale and grass.

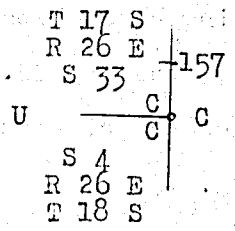
---

East, bet. secs. 4 and 33,

Over nearly level land, through scattering greasewood, shadscale and grass.

3.98 Intersect the Utah-Colorado bdy., 1.34 chs. S.0°10'W. of 157th mile post, described on page 12 this book.

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




Dig pits, 30 x 24 x 12 ins., on each line, N. and S., 4 ft., and E. of post, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2½ ft. high, W. of cor.

Land, gently rolling.

Soil, light, dry clay, 6 to 8 ins. deep on subsoil of light, hard clay.

Undergrowth, scattering greasewood, shadscale and grass.

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SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., described on page 4, this book, N.0°01'E., bet. secs. 31 and 32, Over rolling land, through scattering undergrowth of shadscale and grass. |
| 4.00 | Foot of bench, bears N.75°E. and S.75°W. Ascend. |
| 6.00 | Top of bench, 30 ft. above foot, bears N.75°E. and S. 75°W. |
| | Thence over rolling bench land, sloping W. About 1° slope. |
| 9.50 | Road (Midland trail), bears N.80°E. and S.80°W. |
| 26.50 | Wash, 25 lks. wide, 6 ft. deep, drains W. |
| 33.60 | Wash, 50 lks. wide, 10 ft. deep, drains W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 31 ¼ \| S 32 1915 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| | Thence along foot of bench. |
| 76.00 | Ascend bench, bearing NW. and S. |
| 78.00 | Top of bench, 15 ft. high, bears NW. and SE. |
| | Thence over bench sloping to the S. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, with brass cap marked T 18 S \| R 26 E S 30 \| S 29 / S 31 \| S 32 1915 |
| | Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. |
| | Land, rolling along W. ft. of rolling ridge. Land W. |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | of line along bottom of Bitter Creek, gently rolling. Soil, light, dry clay, 6 to 8 ins. deep, on subsoil of light, hard clay. No timber. Undergrowth, scattering shadscale and grass. |
| | West, on a random line, bet. secs. 30 and 31, |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.96 | Intersect W. bdy. of Tp. 95 lks. S. of the witness cor. to cor. of secs. 25, 30, 31 and 36, and 5 lks. N. of the true cor. point. |
| | Thence from true cor. point |
| | N.89°58'E., on a true line bet. secs. 30 and 31, |
| | Over rolling land, through scattering undergrowth of shadscale, greasewood and grass. |
| 7.96 | Road (Midland trail), bears N. and N.80°E. |
| 13.86 | Road (Midland trail), bears N.85°W. and S.85°E. |
| 36.46 | Wash, 10 lks. wide, 2 ft. deep, drains S.60°E. |
| 39.98 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 30 / ¼ / S 31 / 1915 |
| | Dig pits, 18 x 18 x 18 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. |
| 41.06 | Wash, 30 lks. wide, 8 ft. deep, drains S.30°E. |
| 48.56 | Bitter Creek wash 15 lks. wide, 10 ft. deep, drains S. |
| | Leave scattering and enter dense greasewood bearing N. and S. |
| 55.96 | Recross Bitter Creek wash, draining N.70°E. |
| 58.66 | Recross Bitter Creek wash, 75 lks. wide, 10 ft. deep, draining S. |
| 59.96 | Leave dense enter scattering greasewood bearing N. and S. |
| 74.56 | Wash, 25 lks. wide, 6 ft. deep, drains S.30°W. |
| 77.96 | Foot of bench, bears N. and S. |
| 79.96 | The cor. of secs. 29, 30, 31 and 32, 15 ft. above foot |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | of bench. |
| | Land, gently rolling, with general drainage S. and SE. |
| | Soil, light, dry clay, 6 to 8 ins. deep on subsoil of light, hard clay. No timber. |
| | Undergrowth, scattering shadscale, greasewood and grass. |
| | N.0°01'E., bet. secs. 29 and 30, |
| | Over rolling bench land, through scattering shadscale, greasewood and grass. |
| 2.29 | Telephone line, from Cisco, Utah, to Mack, Colo., bears N.89°35'E. and S.89°35'W. |
| 3.00 | Descend from bench, bearing NE. and SW. |
| 7.10 | Wash, 25 lks. wide, 3 ft. deep, 40 ft. below bench, drains SW. Ascend. |
| 10.00 | Spur, 15 ft. above wash, projects SW. Descend. |
| 16.00 | Foot of spur, 15 ft. below top, bears NE. and SW. Thence over nearly level land. |
| 39.25 | Bitter Creek wash, 75 lks. wide, 10 ft. deep, drains S.60°W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked S 30 ¼ \| S 29 1915 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| 51.20 | Old road bed, Denver & Rio Grande R. R., bears N.60°E. and S.60°W. |
| 56.00 | Foot of spur, bears N. and SE. Thence along foot of spur. Descend bears E. and W. |
| 68.00 | Wash, 15 lks. wide, 4 ft. deep, drains from N.10°W. to S.20°W. |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | Thence along foot of spur. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, with brass cap marked |

T 18 S | R 26 E
S 19 | S 20
S 30 | S 29
1915

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

Land, gently rolling, draining S.

Soil, light, dry clay, 6 to 8 ins. deep on subsoil of light, hard clay. No timber.

Undergrowth, scattering greasewood, shadscale and grass.

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| | |
|---|---|
| | S.89°58'W., on a random line bet. secs. 19 and 30. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.94 | Intersect W. bdy. of Tp. 4 lks. N. of the cor. of secs. 19, 24, 25 and 30, described in this book. |
| | Thence |
| | N.89°56'E., on a true line bet. secs. 19 and 30, |
| | Over rolling land, through scattering undergrowth of greasewood, shadscale and grass. |
| 15.94 | Enter scattering sagebrush bearing N. and SW. |
| 31.94 | Descend from bench 10 ft. high bearing NW. and SE. |
| | Leave sagebrush bearing NW. and SE. |
| 39.94 | Foot of low bench, bearing NW. and SE. Thence over rolling land. |
| 39.97 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked |

S 19
¼
S 30
1915

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

Cor. stands at foot of spur bearing N. and SW. Ascend.

41.94 Top of spur, 15 ft. high, projects N. Descend.

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| 47.94 | Foot of spur, bears N.60°W. and S.60°E. Thence over rolling land. |
| 55.94 | Wash, drains from N. to N.70°E. |
| 58.74 | Bitter Creek wash, 75 lks. wide, 10 ft. deep, drains S. |
| 78.74 | Wash, 25 lks. wide, 5 ft. deep, drains S.20°E. |
| 79.94 | The cor. of secs. 19, 20, 29 and 30. |
| | Land of E. half, gently rolling flat, and of W. half, rolling bench, sloping N. |
| | Soil of E. half, light, dry clay, 6 to 8 ins. deep on subsoil of light, hard clay, and of W. half, red, sandy loam and small pebbles, 6 to 8 ins. deep on subsoil of light, hard clay. |
| | Undergrowth, scattering greasewood, shadscale and grass, and on W. half scattering sagebrush. |
| | No timber. |
| | N.0°01'E., bet. secs. 19 and 20, |
| | Over rolling land, through scattering greasewood, shadscale and grass. Ascend. |
| 6.00 | Top of ascent, 35 ft. above sec. cor., slopes W. Descend. |
| 12.00 | Foot of descent, 20 ft. below top, bears E. and W. |
| | Thence over land sloping gradually to the W. |
| 17.55 | Wash, 10 lks. wide, 1 ft. deep, drains S.70°W. |
| 30.65 | Wash, 25 lks. wide, 4 ft. deep, drains S.70°W. |
| 36.00 | Foot of bench, bears E. and W. Ascend. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 19 \| S 20 ¼ 1915 and raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. |
| | Cor. stands on W. face of bench, 40 ft. above foot. |
| 43.20 | Point of bench, 45 ft. above ¼ sec. cor., projects W. |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | Descend. |
| 46.65 | Bottom of descent, 60 ft. below point, drains W. |
| | Ascend. |
| 49.15 | Top of point of bench, 60 ft. above bottom, projects W. |
| | Descend. |
| 51.10 | Bottom of descent, 25 ft. below top, drains W. |
| | Ascend. |
| 55.80 | Top of bench, 20 ft. above bottom. Descent bears SE. and W. |
| | Thence along top of bench. |
| 63.10 | Descend from bench, bearing N.10°E. and S.10°W. |
| 76.35 | Bottom of descent, 50 ft. below top, drains W. |
| | Ascend gradually. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 2½ ins. in the ground, for cor. of secs. 17, 18, 19 and 20, with brass cap marked |

T 18 S | R 26 E
S 18 | S 17
S 19 | S 20

1915

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

Cor. 10 ft. above bottom of descent.

Land of S. half along foot of spur and bench which bears E., open, rolling land W. of line. Land of N. half, rolling bench land.

Soil of S. half, light, dry clay, 6 to 8 ins. deep, on subsoil of light, hard clay. Soil of N. half, red, sandy loam and small pebbles, 6 to 8 ins. deep, on subsoil of light, hard clay.

Undergrowth, S. half, scattering shadscale and grass, and of N. half sagebrush and grass.

No timber.

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The cor. being visible,
S.89°59'W., on a random line bet. secs. 18 and 19.

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |
| 79.90 | Intersect W. bdy. of Tp. at the cor. of secs. 13, 18, 19 and 24, described in this book. |
| | Thence |
| | N.89°59'E., on a true line bet. secs. 18 and 19, |
| | Over nearly level land, through scattering undergrowth. shadscale, greasewood and grass. |
| 12.25 | Wash, 30 lks. wide, 7 ft. deep, drains SE. |
| 36.05 | Wash, 10 lks. wide, 3 ft. deep, drains S. |
| 39.95 | Foot of ridge, bears N.20°E. and S.20°W. |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 18 / ¼ / S 19 / 1915 |
| | Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. Ascend. |
| 47.90 | Top of ridge, 30 ft. above foot, bears N.20°E. and S.20°W. Descend. |
| 55.90 | Foot of ridge, 20 ft. below top, bears N.20°E. and S.20°W. |
| 68.20 | Wash, 10 lks. wide, 3 ft. deep, drains S.5°W. |
| 75.90 | Foot of bench, bears N. and S. Ascend gradually. |
| 79.90 | The cor. of secs. 17, 18, 19 and 20, 15 ft. above foot of bench. |
| | Land, gently rolling prairie land; general drainage S. |
| | Soil is a light, hard clay, 8 to 12 ins. deep, on a subsoil of hard pan of light clay and pebbles. |
| | Undergrowth, scattering shadscale, greasewood and very scattering grass. No timber. |
| | N.0°01'E., bet. secs. 17 and 18, |
| | Over rolling land, through scattering shadscale and grass. Ascend bench. |

SUBDIVISION OF T. 18 S., R. 26 E.

Chains

6.70 Top of bench, 65 ft. above sec. cor., bears N. and SE.

Enter sagebrush bearing same.

Thence over rolling bench land.

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

S 18 ¼ | S 17

1915

Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, with brass cap marked

T 18 S | R 26 E
S 7 | S 8

S 18 | S 17

1915.

Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, ¾ ft. base, 2 ft. high, W. of cor.

Land, S. 6.70 chs. ascend S. slope of bench; N. 73.30 chs. gently rolling bench land.

Soil, red, sandy loam and loose pebbles, 8 to 12 ins. deep, on a subsoil of light, hard clay and rock cobble. No timber.

Undergrowth, medium growth of sagebrush and scattering grass on bench, and shadscale and grass on slope.

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S.80°30'W., on a random line bet. secs. 7 and 18.

[illegible] Set temp. ¼ sec. cor.

[illegible] Intersect W. bdy. of Tp. ¼ lks. S. of the cor. of secs. 7, 12, 13 and 18, described in this book.

Thence

S.80°30'W., on a true line bet. secs. 7 and 18.

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | Over rolling land, through scattering undergrowth of sagebrush and shadscale. |
| 12.02 | Foot of bench, bears NW. and SE. Ascend. |
| 23.92 | Top of bench, 80 ft. above foot, bears NW. and SE. |
| 39.96 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 7<br>¼<br>S 18<br>1915<br>Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. |
| 79.92 | The cor. of secs. 7, 8, 17 and 18. |
| | Land, on W. 12.02 chs., rolling, broken bottom land, cut with washes; E. 67.90 chs., gently rolling bench land. |
| | Soil, on W. 12.02 chs., a gray, hard clay, surface covered with small pebbles; on E. 67.90 chs., red, sandy loam and small pebbles, 8 to 12 ins. deep on a subsoil of hard pan and light, hard clay and pebbles. |
| | Undergrowth, on W. 12.02 chs., scattering shadscale and sagebrush; on 67.90 chs., a medium growth of sagebrush and grass. No timber. |
| | N.0°01'E., bet. secs. 7 and 8, |
| | Over rolling bench land, through sagebrush, and scattering shadscale, grass and cactus. |
| 20.00 | Descend into ravine, bearing NW. and SE. |
| 26.50 | Wash, 25 lks. wide, 3 ft. deep, in bottom of ravine, 30 ft. below top of bench, drains SE. Ascend. |
| 31.00 | Top of bench, 30 ft. above bottom of ravine, bears NW. and SE. |
| | Thence over rolling bench land. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | S 7 \| S 8<br>¼<br>1915 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, with brass cap marked |
| | T 18 S \| R 26 E<br>S 6 \| S 5<br>S 7 \| S 8<br>1915 |
| | Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. |
| | Land, gently rolling bench land, sloping slightly to the SE. |
| | Soil, red, sandy loam and loose pebbles, 8 to 12 ins. deep, on a subsoil of light, dry, hard clay and pebbles. No timber. |
| | Undergrowth, medium growth of sagebrush and grass. |
| | N.89°59'W., on a random line bet. secs. 6 and 7. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.92 | Intersect W. bdy. of Tp. 11 lks. N. of the cor. of secs. 1, 6, 7 and 12, described in this book. |
| | Thence |
| | N.89°56'E., on a true line bet. secs. 6 and 7, |
| 3.50 | Over bottom land, through scattering shadscale and grass. Wash 15 lks. wide, 2 ft. deep, course SW. |
| 11.02 | Foot of bench, bears N.30°W. and S. Ascend. |
| 12.63 | Enter sagebrush, bearing N. and S. Top of bench bears N.30°E, and S. Thence over rolling land. |
| 23.92 | Swale, drains S.60°E. |
| 39.96 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | S 6 / ¼ / S 7 1915 |
| | Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. |
| 55.92 | Top of bench, bears NW. and SE. Descend. |
| 57.52 | Wash, 10 lks. wide, 3 ft. deep, 10 ft. below top of bench, drains SE. Ascend gradually. |
| 71.92 | Top of ravine, 15 ft. above wash, bears NW. and SE. |
| 79.92 | The cor. of secs. 5, 6, 7 and 8. |
| | Land, W. 11.02 chs., bottom land; E. 68.90 chs., gently rolling bench. |
| | Soil, W. 12.00 chs., hard, gray clay; E. 67.00 chs., red, sandy loam and loose pebbles, 8 to 12 ins. deep on subsoil of light, hard clay. |
| | Undergrowth, on W. 11.02 chs., scattering shadscale and grass; on E. 68.90 chs., medium growth of sagebrush. No timber. |
| | N.0°01'E., on a random line bet. secs. 5 and 6. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.92 | Intersect N. bdy. of Tp., 14 lks. W. of the cor. of secs. 5, 6, 31 and 32, described in this book. |
| | Thence |
| | S.0°07'W., bet. secs. 5 and 6, |
| | Over gently rolling land, through medium undergrowth of sagebrush and grass. Ascend. |
| 3.92 | Top of bench, 20 ft. above cor., bears N.5°W. and SE. |
| 39.92 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 6 ¼ \| S 5 1915 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | high, W. of cor. |
| 79.92 | The cor. of secs. 5, 6, 7 and 8. |
| | Land, N. 4 chs., gently sloping to the N.; S. 76.00 chs., gently rolling bench land, sloping slightly S. |
| | Soil, red, sandy loam and loose pebbles, 8 to 12 ins. deep on a subsoil of light, hard clay. |
| | Undergrowth, medium growth of sagebrush and scattering grass. No timber. |
| | From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., described in this book, |
| | N.0°01'E., bet. secs. 32 and 33, |
| | Over rolling land, sloping gently NW., through scattering cedars and scattering undergrowth of shadscale and grass. Descend gradually. |
| 16.00 | Wash, 5 lks. wide, 1 ft. deep, 25 ft. below sec. cor., drains W. Leave timber, bearing E. and W. Ascend gradually. |
| 22.38 | Road (Midland trail), bears N.60°E. and S.60°W. |
| | Top of ascent, 15 ft. above wash, slopes W. |
| | Thence over land sloping gently to the west. |
| 38.00 | Wash, 10 lks. wide, 1 ft. deep, drains S.70°W. Ascend gradually. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 32 ¼ \| S 33 1915 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| 54.70 | Top of ridge, 55 ft. above ¼ sec. cor., bears E. and W. Descend. |
| 72.00 | Wash, 15 lks. wide, 3 ft. deep, 50 ft. below ridge, drains N.30°W. Ascend. |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| 76.00 | Top of ascent, 15 ft. above wash, bears E. and W. |
| | Thence over land sloping W. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, with brass cap marked |

T 18 S | R 26 E
S 29 | S 28
S 32 | S 33
1915

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

Land, rolling and hilly, sloping to the west.

Soil, hard, gray clay and loose rock on a subsoil of hard, light clay.

Timber, scattering cedar and pinon pine on S. 16.00 chs.

Undergrowth, scattering shadscale and grass.

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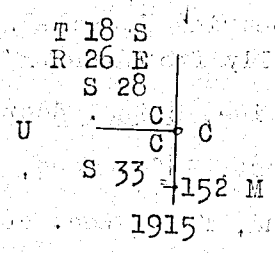
| | |
|---|---|
| | West, on a random line bet. secs. 29 and 32. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.04 | Intersect N. and S. line 4 lks. S. of the cor. of secs. 29, 30, 31 and 32. |
| | Thence |
| | S.89°58'E., on a true line bet. secs. 29 and 32, |
| | Over rolling bench land, through scattering undergrowth. scattering shadscale, greasewood and grass. Ascend. |
| 8.04 | Top of bench bearing N. and S. |
| 36.04 | Descend gradually from bench. |
| 39.54 | Wash, 4 lks. wide, 6 ins. deep, drains N. 15 ft. below top. |
| 40.02 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

S 29
¼
S 32
1915

Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

| Chains | |
|---|---|
| | Cor. 15 ft. below top of ascent. |
| 44.59 | Wash, 6 lks. wide, 1 ft. deep, drains N.20°W. |
| | Ascend over rolling bench land sloping N.30°W. about 2°. |
| 68.04 | Top of bench, 45 ft. above wash, bears NW. and S. Descend. |
| 76.34 | Wash, 15 lks. wide, 3 ft. deep, 50 ft. below top of bench, drains N. Ascend. |
| 80.04 | The cor. of secs. 28, 29, 32 and 33, 15 ft. above wash. |
| | Land, rolling and hilly; general drainage to the south; cut with wide, deep washes. |
| | Soil, gray clay, dry and hard, with a scattering of pebbles on surface. No timber. |
| | Undergrowth, scattering shadscale, greasewood and grass. |
| | Knowing that closing cors. will be necessary on the E. bdy. of the Tp., |
| | East, on a true line bet. secs. 28 and 33, |
| | Over rolling land, through scattering shadscale, greasewood and grass. |
| 3.64 | Intersect the Utah-Colorado bdy. 4.95 chs. N.0°04'E. of the 152nd mile cor., described on page 7, this book. |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 28 and 33, with brass cap marked |




| | |
|---|---|
| | Dig pits, 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and W. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. |
| | Land, slightly ascending to the east. |
| | Soil, a gray, hard clay; surface, scattering pebbles. |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | Undergrowth, scattering shadscale and grass. No timber. |
| | N.0°01'E., bet. secs. 28 and 29, |
| | Over rolling land sloping W., through scattering greasewood, shadscale and grass. |
| 10.00 | Wash, 12 lks. wide, 6 ins. deep, drains W. |
| 13.73 | Telephone line, from Cisco, Utah, to Mack, Colo., bears N.74°10'E. and S.74°10'W. |
| 20.50 | Wash, 10 lks. wide, 2 ft. deep, drains S.70°W. Ascend. |
| 24.55 | Ridge, 45 ft. above wash, bears E. and W. Descend. |
| 39.40 | Wash, 15 lks. wide, 3 ft. deep, 45 ft. below ridge, drains S.70°W. |
| | Thence over nearly level land. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 29 ¼ \| S 28<br>1915 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| 44.00 | Foot of spur, bears NW. and SE. Ascend. |
| 50.31 | Top of ascent, 55 ft. above ¼ sec. cor., slopes W. Descend gradually. |
| 72.35 | Wash, 10 lks. wide, 6 ft. deep, 30 ft. below top of ascent, drains NW. Ascend. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, with brass cap marked<br>T 18 S \| R 26 E<br>S 20 \| S 21<br>S 29 \| S 28<br>1915 |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. |
| | Land, rolling foothills, cut by wide, deep washes draining SW. |
| | Soil, a dark gray clay surface scattered with small pebbles. No timber. |
| | Undergrowth, scattering shadscale and grass, and greasewood along sides of washes. |
| | N.89°58'W., on a random line bet. secs. 20 and 29. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.04 | Intersect N. and S. line 5 lks. S. of the cor. of secs. 19, 20, 29 and 30. |
| | Thence |
| | S.89°56'E., on a true line bet. secs. 20 and 29, |
| | Over rolling land, through scattering undergrowth of greasewood, shadscale and grass. Ascent bearing N.& S. |
| 3.04 | Top of ascent, 25 ft. above sec. cor. slopes S. |
| | Thence over level land. |
| 11.04 | Descend gradually. |
| 20.04 | Foot of knoll, 15 ft. below top of ascent, bears NE. and SW. Ascend. |
| 22.34 | Old Denver & Rio Grande R. R. grade, bears NE. and SW. |
| 25.68 | Top of knoll, 25 ft. above foot, |
| | Descend. |
| 28.04 | Foot of knoll, 30 ft. below top, bears N. and S. |
| 38.44 | Bitter Creek wash, 75 lks. wide, 10 ft. deep, drains S.20°W. |
| 40.02 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 20 / ¼ / S 29 / 1915 |

Chains

Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

48.04 Foot of bench, bears N.20°E. and S.20°W.

Ascend gradually.

72.04 Top of ascent, 30 ft. above foot of bench, bears NW. and SE. Descend gradually.

73.27 Wash, 10 lks. wide, 6 ft. deep, 20 ft. below top of ascent, drains NW. Ascend.

80.04 The cor. of secs. 20, 21, 28 and 29, 55 ft. above wash.

Land, rolling and hilly, cut by deep washes; general drainage to the south.

Soil, a hard, gray clay with scattering pebbles on surface. No timber.

Undergrowth, scattering shadscale, greasewood and grass.

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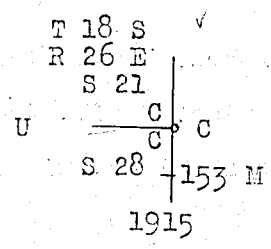
For reasons already explained,

East, on a true line bet. secs. 21 and 28,

Over rolling land, through scattering shadscale and grass.

3.71 Intersect the Utah-Colorado bdy. 3.80 chs. N.0°04'E.of 153rd mile cor., described in this book.

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 21 and 28, with brass cap marked




Dig pits, 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and W. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling hills.

| Chains | |
|---|---|
| | Soil, hard, gray clay; surface covered with small pebbles. No timber. |
| | Undergrowth, scattering shadscale and grass. |
| | N.0°01'E., bet. secs. 20 and 21, |
| | Over rolling, broken land, through scattering undergrowth of shadscale and grass. Descend gradually. |
| 12.00 | Wash, 10 lks. wide, 6 ins. deep, 20 ft. below sec. cor., drains N.70°W. Ascend. |
| 16.00 | Top of ascent, 25 ft. above wash, bears N.70°W. and S.70°E. Descend gradually. |
| 36.79 | Wash, 50 lks. wide, 15 ft. deep, 65 ft. below top of ascent, drains W. Ascend. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 20 \| S 21 ¼ 1915 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| | Cor. stands at top of ascent bearing E. and W., 25 ft. above wash. |
| | Descend gradually. |
| 47.98 | Foot of bench, 25 ft. below ¼ sec. cor., bears N.10°E. and S.10°W. |
| | Thence over broken, bottom land. |
| 49.70 | Wash, 40 lks. wide, 12 ft. deep, drains SW. |
| 52.45 | Bitter Creek wash, 1 ch. wide, 20 ft. deep, drains S.20°W. |
| 57.55 | Recross Bitter Creek wash, drains SE. |
| 60.00 | From this point the SW. cor. of Samuel J. Quick's house, 36 x 12 ft., bears S.88°E., 26 lks. dist. |
| | SW. cor. of barn, 24 x 14 ft., bears N.19°50'E., 235 lks. dist. |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| 66.10 | Recross Bitter Creek wash, drainage S.30°W. |
| 69.60 | " " " " " SE. |
| 72.62 | " " " " " SW. |
| 75.20 | " " " " " SE. |
| 78.00 | Bend in Bitter Creek wash, drains from NW. to SW. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, with brass cap marked |

T 18 S | R 26 E
S 17 | S 16
S 20 | S 21
1915

Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling foothills and bottom land, cut by deep, wide washes; general drainage to the south.

Soil, hard, gray clay with small, scattering pebbles on surface. No timber.

Undergrowth, scattering shadscale and grass; medium growth of greasewood along washes.

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| | |
|---|---|
| | N.89°56'W., on a random line bet. secs. 17 and 20. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.06 | Intersect N. and S. line 2 lks. N. of the cor. of secs. 17, 18, 19 and 20. |
| | Thence |
| | S.89°57'E., on a true line bet. secs. 17 and 20. |
| | Over rolling bench land. Ascend bench. |
| 27.06 | Top of bench, 40 ft. above sec. cor. brs. N. and S. Thence over bench. |
| [illegible] | Enter sagebrush, bearing N. and S. |
| 35.06 | Top of bench, bears N. and S. Leave sagebrush bearing N. and S. Descend along N. side of top of low spur. |
| 40.03 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | S 17 / ¼ / S 20 / 1915 |
| | and raise a mound of stone, 2½ ft. base, 2 ft. high, N. of cor. |
| | Cor. 25 ft. below top on low spur on slope of bench projecting from W. to S.80°E. |
| | Descend. |
| 48.06 | Foot of bench bears NW. and SE., 55 ft. below spur. |
| 61.46 | Wash, 10 lks. wide, 5 ft. deep, drains SE. |
| 70.51 | Old grade of Denver & Rio Grande R. R. bears N.70°E. and SW. |
| 78.56 | Bitter Creek wash, 1 ch. wide, 15 ft. deep, drains SE. |
| 80.06 | The cor. of secs. 16, 17, 20 and 21. |
| | Land: W. 45.00 chs., rolling bench, covered with a medium growth of sagebrush and scattering grass; E. 35.06 chs., bottom land, cut by wide, deep washes draining S., covered with scattering shadscale, greasewood and grass. |
| | Soil: W. 15.00 chs., red, sandy loam, 8 to 12 ins. deep, on a subsoil of hard, gray clay and small pebbles; E. 35.06 chs., dark gray clay. No timber. |
| | For reasons already explained, |
| | East, on a true line bet. secs. 16 and 21, |
| | Over rolling land, through scattering greasewood, shadscale and grass. Ascend. |
| 3.76 | Intersect the Utah-Colorado bdy. 1.70 chs. N.0°05'E. of 154th mile cor., described in this book. |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 16 and 21, with brass cap marked |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | T 18 S<br>R 26 E<br>S 16 \| C<br>U ——— C \| C<br>S 21 \| +154 M<br>1915 |
| | and raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. |
| | Land, rolling hills, slightly ascending. |
| | Soil, hard, dry, gray clay. No timber. |
| | Undergrowth, scattering shadscale, greasewood and grass. |
| | N.0°01'E., bet. secs. 16 and 17. |
| | Over rolling bottom land, through scattering undergrowth of greasewood, shadscale and grass. |
| 2.50 | Old grade of Denver & Rio Grande R. R., bears E. and S.70°W. |
| 10.00 | Bitter Creek wash, 1 ch. wide, 20 ft. deep, drains SW. |
| 39.40 | Recross Bitter Creek wash, drainage S.20°E. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 17 \| S 16<br>¼<br>1915 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| 42.10 | Recross Bitter Creek wash, drains SW. |
| 46.00 | " " " " " E. |
| 50.00 | Bend of Bitter Creek wash, drains from NW. to S.30°W. |
| 69.60 | Recross Bitter Creek wash, drains S.70°W. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, with brass cap marked<br>T 18 S \| R 26 E<br>S 8 \| S 9<br>S 17 \| S 16<br>1915 |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. |
| | Land, rolling bottom land, cut with wide, deep washes; general drainage to the south. |
| | Soil, dry, hard, dark gray clay. No timber. |
| | Undergrowth, scattering shadscale, greasewood and scattering grass. |
| | N.89°57'W., on a random line bet. secs. 8 and 17. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Intersect N. and S. line, 5 lks. N. of the cor. of secs. 7, 8, 17 and 18. |
| | Thence |
| | S.89°59'E., on a true line bet. secs. 8 and 17, |
| | Over rolling bench land, through medium undergrowth of sagebrush, shadscale and grass. |
| 23.00 | Top of bench, bears N.80°W. and S.80°E. Descend. |
| 35.40 | Wash, 15 lks. wide, 4 ft. deep, 50 ft. below top of bench, drains SE. Ascend. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked S 8 / ¼ / S 17 / 1915 and raise a mound of stone, 2½ ft. base, 2 ft. high, N. of cor. |
| | Cor. 30 ft. above wash. |
| 41.50 | Top of bench, 25 ft. above ¼ sec. cor., bears NW. and SE. |
| 46.00 | Descend from bench, bearing N.30°W. and SE. |
| | Leave sagebrush, enter greasewood, bearing N. and S. |
| 58.00 | Foot of bench, 75 ft. below top, bears N. and S. |
| | Thence over rolling, bottom land. |
| 80.00 | The cor. of secs. 8, 9, 16 and 17. |
| | Land, W. 68.00 chs., rolling bench land, covered with |

SUBDIVISION OF T. 18 S., R. 26 E.

Chains

a medium growth of sagebrush and scattering grass.
E. 12.00 chs., level bottom land, cut by washes draining S.; undergrowth, scattering shadscale, greasewood and grass.

Soil of W. 68.00 chs. is a red, sandy loam, 8 to 12 ins. deep, on a subsoil of light, hard clay and pebbles.
E. 12.00 chs., dark gray clay. No timber.

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For reasons already explained,
East, on a true line bet. secs. 9 and 16,
Over rolling land, through scattering greasewood, shadscale and grass.

1.20 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for witness cor. to closing cor. of secs. 9 and 16, with brass cap marked

T 18 S
R 26 E
S 9
U C W C
C C
S 16 155 M
1915

Dig pits 24x18x12 ins. crosswise on each line, N. and S. 3 ft. and W. of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

3.75 Bitter Creek wash, 1 ch. wide, 20 ft. deep, drains S.

3.86 Intersect the Utah-Colorado bdy. 81.68 chs. N.0°05'E. of point for the 154th mile cor.

Point for cor. falls at foot of bank 20 ft. high, Bitter Creek wash. Cor. not set.
Land, bottom, washy land, draining S.
Soil, a dark gray, dry clay. No timber.
Undergrowth, scattering shadscale, greasewood and grass.

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N.0°01'E., bet. secs. 8 and 9,
Over gently rolling bottom land, through scattering

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | greasewood, shadscale and grass. |
| 10.50 | Bitter Creek wash, 1 ch. wide, 20 ft. deep, drains S.20°E. |
| 12.00 | Recross Bitter Creek wash, drains W. |
| 18.00 | " " " " " SE. |
| 20.75 | " " " " " SW. |
| 23.75 | " " " " " E. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 8 ¼ \| S 9<br>1915<br>Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| 72.00 | Foot of bench, bears NW. and SE.<br>Ascend. |
| 77.00 | Top of bench, 35 ft. above foot, bears N. and SE.<br>Thence along edge of bench. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, with brass cap marked<br>T 18 S. R 26 E.<br>S 5 \| S 4<br>S 8 \| S 9<br>1915<br>and raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. |

Land: S. 72.00 chs., gently rolling bottom land, covered with a scattering growth of shadscale, greasewood and grass. N. 8.00 chs., rolling bench land, covered with a medium growth of sagebrush and grass.

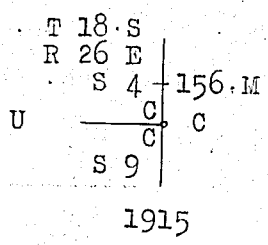
Soil: S. 72.00 chs., a dark, hard, gray clay. N. 8 chs., red, sandy loam, 8 to 12 ins. deep, on a subsoil of light, hard, gray clay and small cobbles. No timber.

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | The cor. of secs. 5, 6, 7 and 8 being visible, |
| | N.89°58'W., on a random line bet. secs. 5 and 8. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.98 | Intersect N. and S. line at the cor. of secs. 5, 6, 7 and 8. |
| | Thence |
| | S.89°58'E., on a true line bet. secs. 5 and 8, |
| | Over gently rolling bench land, through medium undergrowth of sagebrush, scattering shadscale and grass. |
| 39.99 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |
| | S 5 / ¼ / S 8 / 1915 |
| | Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. |
| 47.98 | Descend from bench, bearing N.10°W. and S.10°E. |
| | Leave sagebrush, enter greasewood, bearing N. and S. |
| 51.98 | Foot of bench, 20 ft. below top, bears N.10°W. and S.10°E. Thence over rolling bottom land. |
| 57.68 | Wash, 25 lks. wide, 4 ft. deep, drains S.30°E. |
| 68.78 | Bitter Creek wash, 1 ch. wide, 20 ft. deep, drains S. |
| 75.98 | Foot of bench, bears NW. and SE. |
| | Ascend. |
| 79.98 | The cor. of secs. 4, 5, 8 and 9. |
| | Land: W. 52.00 chs. and E. 4.00 chs., gently rolling bench land, covered with a medium growth of sagebrush and scattering grass. Remaining 23.98 chs., gently rolling bottom land; general drainage S.; undergrowth, scattering shadscale, greasewood and grass. |
| | Soil, of benches, is a red, sandy loam, 8 to 12 ins. deep, on a subsoil of gray, hard clay and small pebbles. Soil of bottom land is a dark gray, hard clay. No timber. |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | For reasons already explained, |
| | East, on a true line bet. secs. 4 and 9, |
| | Over rolling bench land, through undergrowth of sage-brush, scattering shadscale and grass. |
| 3.96 | Intersect the Utah-Colorado bdy. 33 lks. S. 0°05'W. of the 156th mile cor., described in this book. |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 4 and 9, with brass cap marked |




| | |
|---|---|
| | Dig pits, 24 x 18 x 12 ins., crosswise on each line, N. and S., 3 ft., and W. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. |
| | Land, rolling bench land, sloping to the west. |
| | Soil, red, sandy loam, 8 to 12 ins. deep on a subsoil of gray, hard clay and small pebbles. No timber. |
| | Undergrowth, medium sagebrush and scattering grass. |
| | N. 0°01'E., on a random line bet. secs. 4 and 5. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.95 | Intersect N. bdy. of Tp. 18 lks. W. of the cor. of secs. 4, 5, 32 and 33, described in this book. |
| | Thence |
| | S. 0°09'W., on a true line bet. secs. 4 and 5. |
| | Over rolling bench land, through undergrowth of sage-brush, scattering shadscale and grass. |
| 2.05 | Wash, 10 lks. wide, 2 ft. deep, drains SE. |
| | Ascend gradually. |
| 9.95 | Top of ascent, bears NW. and SE. 35 ft. above wash. |
| 39.95 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

SUBDIVISION OF T. 18 S., R. 26 E.

| Chains | |
|---|---|
| | S 5 ¼ \| S 4 |
| | 1915 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| 55.95 | Head of small ravine, drains SE. |
| 79.95 | The cor. of secs. 4, 5, 8 and 9. |
| | Land, rolling bench land, sloping gently to the east. |
| | Soil, red, sandy loam, 8 to 12 ins. deep on a subsoil of light gray, hard clay and small pebbles. No timber. |
| | Undergrowth, medium sagebrush and scattering shadscale and grass. |

GENERAL DESCRIPTION

The land of this township is generally a gently rolling bench land, broken slightly by ravines and washes, and the general drainage is to the south.

The soil of the benches is generally a rich, sandy loam and small pebbles, 8 to 12 ins. deep on a subsoil of light, hard clay and small pebbles, and the soil along the ravines is a hard, stiff clay on a subsoil of hard clay.

The bench land generally is covered with a medium growth of sagebrush and grasses, and the land along the ravines is covered with a scattering undergrowth of shadscale, greasewood and grasses, which afford good grazing for sheep and cattle.

There are a few scattering cedars and pinon pines found in the southeast cor. of sec. 32 and the south end of sec. 33, which is the only timber in the township.

There is no water in this township.

GENERAL DESCRIPTION OF T. 18 S., R. 26 E.

Samuel J.Quick, who is located in secs. 20 and 21, is the only settler in this township. His improvements consist of a house, barn and corrals, valued at about $600.00.

No indication of mineral found in this township.

Boundaries T. 18 S. R. 26 E.

Latitudes, departures and closing errors.

| Line designated | True Bearing | Distance chs. | Latitudes N. chs. | Latitudes S. chs. | Departures E. chs. | Departures W. chs. |
|---|---|---|---|---|---|---|
| South Bdy. | East | 163.58 | | | 163.58 | |
| Retr.Utah-Colo.Bdy. | N.0°04'E. | 238.24 | 238.24 | | .27 | |
| | N.0°05'E. | 162.06 | 162.06 | | .23 | |
| | N.0°10'E. | 79.61 | 79.61 | | .23 | |
| North Bdy. | West | 163.98 | | | | 163.9 |
| West Bdy. | South | 480.00 | | 480.00 | | |
| Convergency | | | | | | .2 |
| | | | 479.91 | 480.00 | 164.31 | 164.18 |
| Error in lat. and dep. | | | | 479.91 | 164.18 | |
| | | | | .09 | .13 | |

BOOK A-421

# CERTIFICATE OF ASSISTANTS.

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

.....

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.....

of the ..... Meridian, in the State of .....

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

| NAME. | PERIOD OF SERVICE. | | CAPACITY. |
|---|---|---|---|
| | BEGUN. | ENDED. | |
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Subscribed and certified to before me on the dates of the final service as shown above.

.....

*U. S. Surveyor.*

# FINAL OATH OF UNITED STATES SURVEYOR.

I, Ralph Gentry, U. S. Surveyor, do ~~solemnly swear~~ certify on honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 20th day of July, 191 5, 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 survey of the South, West and North boundaries of T. 18S., R.26 E.; and the retracement of the Utah - Colorado Boundary and of the survey of the Subdivision of T.18 S., R. 26 E.,

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

Ralph Gentry
*U. S. Surveyor.*

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

SEAL

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 8, 191 7

The foregoing field notes of the survey of subdivisions, and south, west and north boundaries of T. 18 S. R. 26 E., and retracement of Utah-Colorado boundary in T. 18 S. R. 26 E.

executed by Ralph Gentry under his special instructions dated July 20 and Supplemental Assignment Instructions dated August 8, 1915, 191 57, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

M. 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.*

C—2761

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BOOK A-421

E.

P.R.

# FIELD NOTES

OF THE SURVEY OF THE

RETRACEMENT OF THE UTAH-COLORADO BOUNDARY,

SURVEY OF THE WEST BOUNDARY,

AND

SURVEY OF THE SUBDIVISION

OF

TOWNSHIP 23 SOUTH, RANGE 26 EAST

*Of the* Salt Lake Base and *Meridian,*

*In the State of* Utah

EXECUTED BY

RALPH GENTRY

*In the capacity of U. S. Surveyor, under instructions dated* July 20, *1915, issued by the United States Surveyor General to govern surveys included in Group No.* 42, *which were approved by the Commissioner of the General Land Office,* July 28, *1915*, and under supplemental assignment instructions, dated October 9, 1915, issued by the Assistant Supervisor of Surveys for the District of Utah.

*Survey commenced* October 20, *1915.*

*Survey completed* November 2, *1915.*

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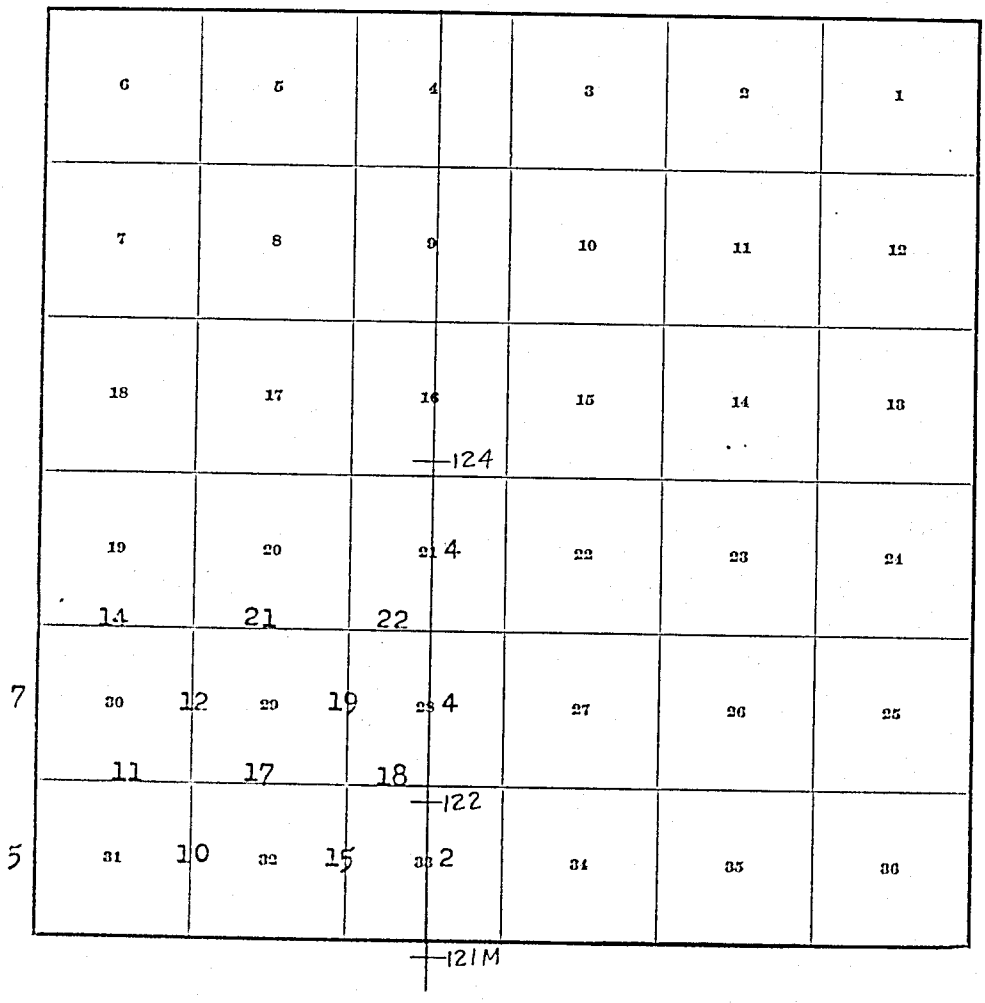
# INDEX DIAGRAM.

*Township* ....., *Range* .....

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LIST OF ASSISTANTS

Sterling Wright - - - -H. Chainman
Sidney Reese - - - - -R. Chainman
Lynn Taylor - - - - - -Flagman
Lee Moore - - - - - - -Cornerman
~~M. F. Weight - - - - - - -Flagman~~

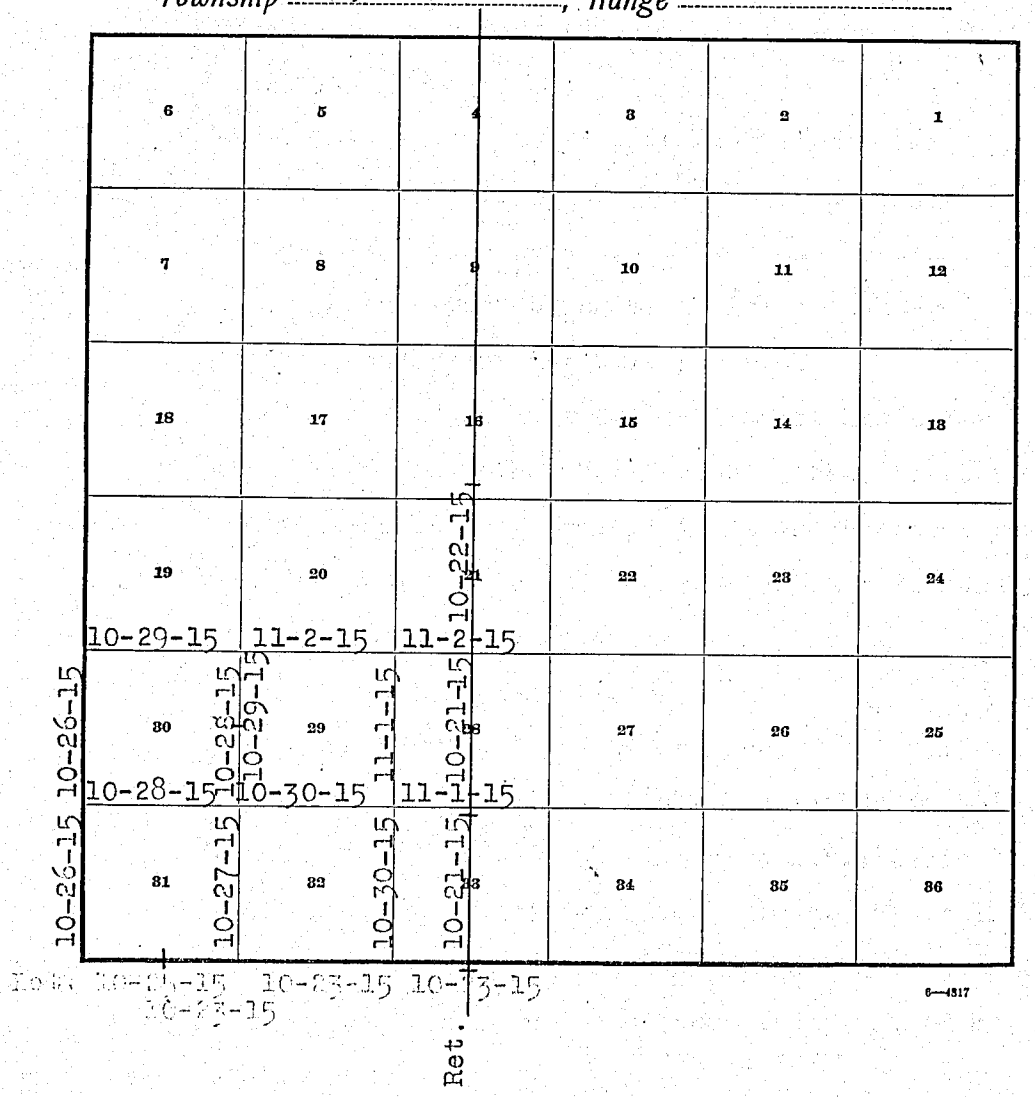
BOOK A-421

4—679 b

# INDEX DIAGRAM.

For Dates.

*Township* 23 South, *Range* 26 East



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T. 23 S., R. 26 E.

Survey commenced October 20, 1915, and executed with a Buff & Buff transit, No.8028, with a Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was approved by the assistant supervisor of surveys in assignment instructions dated October 9, 1915.

A steel tape 4 chains long was used in all field work, together with clinometers for determining slope angles. The tape was tested frequently during the season, comparison being made with a standard tape 1 chain long, kept for this purpose.

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

At camp, near the S. bdy. of sec. 32, T. 23 S., R. 26 E., approximate longitude 109°06'W., latitude 38°46'N.; I set off 38°46'N. on the lat arc; 10°11'S. on the decl. arc; and, at 3h 45m p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stake firmly in the ground, 5 chs. N. of my station.

At 5h 35m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a stake driven in the ground, 5 chs. N. of my station.

October 20, 1915.

RETRACEMENT OF THE UTAH-COLORADO BOUNDARY

T. 23 S., R. 26 E.

| CHAINS | |
|---|---|
| | October 21: At 7h 30m a.m., l.m.t., I lay off the azimuth of Polaris, 1°28' to the west, and mark the meridian thus determined, on the stake set Ocrober 20; this meridian coincides with the meridian determined by the solar. |
| | At 7h 45m a.m., l.m.t., I set off 38°46'N. on the lat. arc; 10°25'S. on the decl. arc; and determine a meridian with the solar; this meridian coincides with the meridian established by the Polaris observation. |
| | The solar apparatus by p.m. and a.m. observations, defines positions for the meridian, coinciding with the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory. |
| | The magnetic bearing of the true meridian, at 8 a.m., is N.15°45'W.; the angle thus determined gives the mag. decl. 15°45'E.; the mean mag. decl. is, therefore, 15°42'E. |
| | NOTE: The instrument was frequently tested and kept in adjustment during the execution of this survey. |
| | Begin at the 121st mile post, which is an iron post, 3 ins. in diam., set in a mound of stone, 3 ft. base, 24 ins. high, marked on brass cap |
| | U \| C<br>121 M \|<br>1911 |
| | with a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; thence |
| | N.1°01'E., on the 122nd mile, retracing |
| | Over rolling, broken bench, through scattering greasewood, shadscale and grass. Ascend. |
| 2.00 | Top of ascent, 25 ft. above mile post, slopes N.60°W. Descend. |
| 3.90 | Ravine, 20 ft. below top of ascent, drains S.60°W. Ascend. |

RETRACEMENT OF THE UTAH-COLORADO BOUNDARY

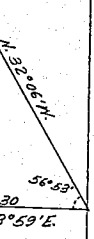
T. 23 S., R. 26 E.

| CHAINS. | |
|---|---|
| 4.36 | Fall 3 lks. W. of the closing cor. of Tps. 23 and 24 S., R. 26 E., which is an iron post, 3 ft. long, 3 ins. in dia. set 6 ins. in the ground, and in a mound of stone 2½ ft. base, 18 ins. high, with brass cap marked |
| | T 23 S<br>R 26 E<br>S 33<br>U C C<br>C<br>S 4<br>T 24 S<br>1911 |
| | with a mound of stone, 2½ ft. base, 2 ft. high W. of cor. |
| 7.70 | Top of bench, 65 ft. above ravine, bears N. 60° E., and S. 60° W. |
| | Thence over rolling bench land. |
| 13.40 | Descend from bench, bearing NE. and SW. |
| 15.50 | Wash, 1 ch. wide, 4 ft. deep, 55 ft. below top of bench, drains S. 30° W. |
| | Thence over nearly level bottom land. |
| 52.25 | Wash, 50 lks. wide, 3 ft. deep, drains SW. |
| 60.00 | Enter scattering cedar and pinon pine, bearing NE. and SW. |
| 61.10 | Wash, 50 lks. wide, 3 ft. deep, drains S. 30° W. |
| | Thence along wash. |
| 64.00 | Leave wash, draining from N. 10° W. |
| 71.30 | Recross wash, draining SW. |
| | Thence ascend gradually over bench land. |
| 79.99 | Fall 70½ lks. W. of the 122d mile cor., which is a sandstone 24 x 20 x 4 ins., set in a mound of stone, marked U 122 on W., C 1885 on E., with mound of stone 3 ft. base, 2 ft. high W. of cor. |
| | The course of this line is therefore N. 1° 31' E., and the distance 79.99 chs. |
| | Land, rolling bench, broken by ravines; drainage to the south. |
| | Soil, light, sandy loam, loose granite, and sandstone, 8 to 12 ins. deep, on subsoil of light, dry clay. |
| | Undergrowth, shadscale, greasewood, and grass. |

RETRACEMENT OF THE UTAH-COLORADO BOUNDARY

T. 23 S., R. 26 E.

| Chains. | Timber, scattering cedar and pinon. |
|---|---|
| | N.1° 01'E. on the 123d mile, retracing, |
| | Over gradually ascending bench; through very scattering cedars, and undergrowth of shadscale and grass. |
| 18.70 | Wash, 1 ch. wide, 10 ft. deep, drains SE. |
| 32.00 | Foot of mountain, 100 ft. above mile cor., bears NW. and S.60° E. |
| | Ascend. |
| 77.75 | Top of ascent, 330 ft. above foot, slopes W. |
| | Descend gradually. |
| 84.50 | Bottom of ravine, 70 ft. below top of ascent, drains S. 30° W. Ascend. |
| 92.29 | Line, passing over high ledge, impossible to chain. |
| | I set a flag on top, then measure a base S.88° 59'E., 9.30 chs. to a point, from which flag on top bears N. 32° 06'W.; from the flag the east end of base bears S.32° 06'E.; therefore the dist. is tan. 56° 53' x 9.30, or 1.533 x 9.30 = 14.26 chs., which added to 92.29 makes |
| 106.55 | Top of ledges and mesa, 1100 ft. above ravine, bears N. 60° E., and S.60° W. |
| | Make diligent search for witness cor. to 123d mile cor. Am unable to find any trace thereof. |
| | Thence I continue on this line, |
| | N.1° 01'E. on 124th mile, retracing, |
| | Over rolling mesa; through dense cedars and pinon pine, bearing N.60° E., and S.60° W., and scattering sagebrush and grass. |
| 117.97 | I again make search for old witness cor. to 123d mile cor. but am unable to find any trace of it. |
| | I continue N. 1° 01'E. |



RETRACEMENT OF THE UTAH-COLORADO BOUNDARY

T. 23 S., R.26 E.

| CHAINS | |
|---|---|
| | Over gradually ascending mesa. |
| 136.00 | 70 ft. above rim of mesa. |
| | Descend gradually along side of ravine, bearing N.20°E. and S.20°W. |
| 157.80 | Ravine, 40 ft. below top, drains S.20°W. |
| | Ascend. |
| 160.95 | Fall 140 lks. W. of the 124th mile cor., which is a sandstone 16x12x4 ins., in a mound of stone, marked U 124 on W. face and C 1885 on E. face. |

The course of this line is therefore N.1°31'E. and the distance 160.95 chs.

Land of the S.106.55 chs., very rough and broken slopes of mesa, facing S.; soil, light sandy loam, loose sandstone and sandstone ledges; undergrowth, scattering shadscale and grass; timber, scattering cedar and pinon pine.

Land of remaining portion, rolling mesa, draining S.; soil, light sandy loam and numerous sandstone outcroppings; undergrowth, scattering sagebrush and grass; timber, dense cedar and pinon pine.

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WEST BOUNDARY OF T. 23 S., R. 26 E.

From the cor. of Tps. 23 and 24 S., Rs. 25 and 26 E., which is a 3-inch iron post, set in a mound of stone, 4 ft. base, 2 ft. high, with brass cap marked

T 23 S
R 25 E | R 26 E
S 36 | S 31

S.1 | S 6
R 25 E | R 26 E
T 24 S
1911

witnessed by a mound of stone, 2½ ft. base, 2 ft. high S. of cor., thence

North bet. secs. 31 and 36.

WEST BOUNDARY OF T.23 S., R. 26 E.

CHAINS

Over mountainous land, through scattering cedar and pinon pine, and scattering undergrowth of greasewood, shadscale and grass.

Ascend over series of ledges. Impracticable to chain. To determine distance I proceed as follows:

.36 From this point I set a flag on top of ledges, then measure a base E.36.52 chs. to a point, from which flag on top bears N.76°55'W.; from the flag the E. end of base bears S.76°55'E.; therefore the dist. is tan. 13°05' x 36.52, or .2324 x 36.52 = 8.49 chs., which added to .36, makes

8.85 Top of ledges and mesa, 260 ft. above Tp. cor., bears NE. and SW.

Thence over rolling mesa.

14.80 Foot of ascent, bears E. and W. Ascend.

26.02 Top of ascent, 135 ft. above foot, slopes E. Descend.

32.35 Foot of desc. 125 ft. below top of ascent; drains E. Ascend.

40.00 Top of ascent, 25 ft. above foot of descent, slopes E.

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

S 36 | S 31
¼
1915

from which

A pinon pine, 6 ins. diam., bears N.84°30'W., 195 lks. dist., marked ¼ S 36 B T.

No other bearing trees available; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Cor. stands near top ledge on E. brink of Steamboat Mountain.

Descend.

47.85 Foot of descent, bears NW. and SE., 65 ft. below ¼ sec. cor.

WEST BOUNDARY OF T. 23 S., R.26 E.

| CHAINS. | |
|---|---|
| | Thence over rolling mesa. |
| 78.50 | Abrupt descent from mesa, bears N.60° E., and S.60° W. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 6 ins. in the ground to solid rock, and 18 ins. in a mound of stone, for cor. of secs. 25, 30, 31, and 36, with brass cap marked |

T 23 S
R 25 E | R 26 E
S 25 | S 30
S 36 | S 31
1915

and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. No bearing trees within limits.

Corner is 60 ft. below top of mesa.

Land, rolling and broken mesa land.

Soil, light, sandy loam, loose sand rocks, and sandstone ledges and outcroppings.

Undergrowth, scattering shadscale and grass.

Timber, scrub cedar and pinon pine.

North bet. secs. 25 and 30,

| | |
|---|---|
| | Over rough, mountainous land, along slope of mesa, facing W.; through scattering cedar and pinon pine timber, and scattering undergrowth of shadscale and grass. Descend. |
| 4.50 | Ravine, 150 ft. below cor., drains W. |
| | Ascend. |
| 27.00 | Point of mesa, 220 ft. above ravine, bears E. and W. |
| | Descend abruptly over series of sandstone ledges. |
| 34.58 | Top of high sandstone ledge, bearing E. and W. Impossible to chain; therefore, to determine distance, I set flag on line at bottom of ledges. There being no place to lay off a base line from this point, I leave flag and proceed to flag at bottom of ledge, from which I measure a base line E. 4.00 chs. to a point, from which |

East 4.00
62°0'
S.27°61'W.

Chains.

flag on ledge bears S.27° 51'W.; therefore the dist. is tan. 62° 09' x 4.00, or 1.89266 x 4.00 = 7.57 chs. which added to 34.58 equals 42.15.chs. Thence I run S. 2.15 chs. to

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

S $\frac{1}{4}$ 25 | S 30
1915

from which

A pinon pine, 6 ins. diam., bears N.15° 15'E. 20 lks. dist., marked $\frac{1}{4}$ S 30 B T

A pinon pine, 4 ins. diam., bears N.81°W. 180 lks. dist., marked $\frac{1}{4}$ S 25 B T

52.50 Ravine, 120 ft. below $\frac{1}{4}$ sec. cor., drains W.

Ascend.

59.22 Top of spur, 65 ft. above ravine, projects W.

Descend over small ledges.

62.04 Ravine, 70 ft. below top of spur, drains S.70° W.

Abrupt ascent over ledges, impossible to chain; therefore, to determine the distance I proceed as follows: I return to 59.22 chs. point and set a flag on line; then measure a base line N.54° 31'E. 12.00 chs. to a point, from which the flag bears N.34° 01'W.; from the flag the E. end of base bears S.34° 01'E.; therefore the distance is

$$\sin \frac{91° 28'}{34° 01'} \times 12.00 \text{ or } \frac{.99967}{.55943} \times 12.00 = 21.44 \text{ chs.}$$

which added to 59.22, equals 80.66chs.

Thence S.66 lks. to

80.00 530 ft. above ravine, on slope of mesa. Point falls on unsafe ground; therefore I measure west 1.70 chs. and Set an iron post, 3 ft. long, 3 ins. in dia., 6 ins. in the ground, to solid rock, and raise a mound of stone 4 ft. base, 18 ins. high around post, for witness cor. to cor. of secs. 19, 24, 25, and 30, with brass cap marked

WEST BOUNDARY OF T. 23 S., R.26 E.

CHAINS.

T 23 S
R 25 E | R 26 E
S 24 | S 19
W C
S 25 | S 30
1915

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

Land, along slope of mesa facing W., very rough, and broken by numerous sandstone ledges.

Soil, light, sandy loam, loose sandstone and ledges.

Undergrowth, scattering shadscale and grass.

Timber, scattering scrub cedar and pinon pine.

SUBDIVISION OF T. 23 S. R.26 E.

NOTE: The cor. of secs. 5, 6, 31, and 32, on S. bdy. of Tp. being nearly destroyed by the river, I chain west 1.00 ch. to safe ground, and establish a witness corner as follows:

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with brass cap marked

T 23 S R 26 E
S 31 | S 32
W
C
S 6 | S 5
T 24 S R 26 E
1915

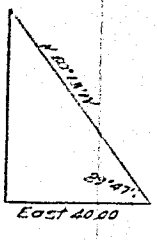
and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.

From the true point for cor. of secs. 5, 6, 31, and 32 N. 0° 01' E. bet. secs. 31 and 32,

Over rough, mountainous land; through scattering undergrowth of shadscale and grass.

Ascend mountain, over large sandstone boulders and high ledge at top, impossible to chain. To determine the distance I set a flag on top of mountain, which bears N. 50° 13' W. from the ¼ sec. cor. between secs. 5 and 32 on

CHAINS.




the south boundary of the township; from the flag the $\frac{1}{4}$ sec. corner between secs. 5 and 32, on the south boundary of the township bears S.50° 13' E.; therefore the distance is tan. 39° 47' x 40.00 or .83268 x 40.00 =

33.31 To top of mesa and ledge, 1000 ft. above section corner, bears N.20° E., and S.20° W.

Thence over rolling mesa; through scattering cedar and pinon pine timber.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to solid rock, and raise a mound of stone, 4 ft. base, 18 ins. high around post, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{S\ 31}{1915}$ | S 32

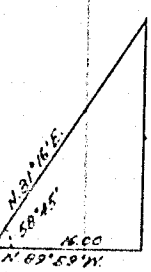
from which

A pinon pine, 8 ins. diam., bears S. 82° 30'E. 60 lks. dist., marked $\frac{1}{4}$ S 32 B T

A pinon pine, 7 ins. diam., bears S.75° 45'W. 280 lks. dist., marked $\frac{1}{4}$ S 31 B T

52.00 Foot of mesa, bears E. and W.

Abrupt ascent over high sandstone ledge; impossible to chain; therefore, to determine the distance I set a flag on line on top of mesa; then return to the $\frac{1}{4}$ sec. corner, and measure a base N.89° 59'W. 16.00 chs. dist. to a point, from which the flag bears N.31° 16'E.; from the flag the west end of base bears S.31° 16'W.; therefore the distance is tan. 58° 45' x 16.00, or 1.64795 x 16.00 = 26.37, which added to 52.00 chs. equals




78.37 Top of mesa, 600 ft. above foot, bears NE. and SW.

Enter dense cedar and pinon pine, bearing NE., and SW.

Thence over rolling mesa.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, with

SUBDIVISION OF T. 23 S., R.26 E.

| CHAINS. | |
|---|---|
| | brass cap marked<br>T 23 S R 26 E<br>S 30 \| S 29<br>S 31 \| S 32<br>1915<br>from which<br>A cedar, 14 ins.diam., bears N.82° 30'E. 9 lks. dist., marked T 23 S R 26 E S 29 B T<br>A pinon pine, 4 ins.diam., bears S.22° 15'E. 25 lks.dist., marked T 23 S R 26 E S 32 B T<br>A cedar, 10 ins.diam., bears S.86° 15'W.209 lks. dist., marked T 23 S R 26 E S 31 B T<br>A cedar, 12 ins.diam., bears N.87° W.202 lks. dist., marked T 23 S R 26 E S 30 B T<br>Land, rough slopes of mesa and rolling mesa.<br>Soil of slopes, light, sandy loam, loose sandstone boulders,and ledges; 4th rate.<br>Soil of mesa, light, sandy loam, 6 to 8 ins.deep, on sandstone, with numerous sandstone outcroppings.<br>Undergrowth, scattering shadscale and grass; and on north 47.00 chs., scattering sagebrush.<br>Timber, cedar and pinon pine, on N.47.00 chs. |
| | West, on a random line between secs.30 and 31, |
| 40.00 | Set temp.$\frac{1}{4}$ sec.cor. |
| 80.01 | Intersect west boundary of township 30 lks.N.of the corner of sections 25,30,31, and 36. Corner is 100 ft. below top of mesa. |
| | Thence, |
| | N.89° 47'E.on a true line between secs.30 and 31, |
| | Ascending over large boulders; through dense cedar and pinon pine, and scattering undergrowth. |
| 5.71 | Edge of mesa, bearing N.and SW., 100 ft.above section corner. |
| | Thence over rolling mesa. |

SUBDIVISION OF T.23 S., R.26 E.

| CHAINS. | |
|---|---|
| 40.00½ | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. corner with brass cap marked<br>S 30<br>¼<br>S 31<br>1915<br>from which<br>A pinon pine, 12 ins. diam., bears N.78° W. 50 lks. dist., marked ¼ S 30 B T<br>A cedar, 8 ins. diam., bears S.75° 30'W. 250 lks. dist., marked ¼ S 31 B T |
| 80.01 | The corner of secs. 29, 30, 31, and 32.<br>Land, rolling mesa top.<br>Soil, light, sandy loam, 8 to 12 ins. deep, on subsoil of hard clay and loose sandstone.<br>Undergrowth, scattering sagebrush and grass.<br>Timber, dense cedar and pinon pine. |
| | N.0° 01'E. bet. secs. 29 and 30,<br>Over rolling mesa; through dense cedar and pinon pine and scattering undergrowth of sagebrush and grass. |
| 9.30 | Descend over rim of mesa, bearing E. and W. |
| 15.00 | Foot of rim, 45 ft. below top, bears E. and W. Thence over rolling land. |
| 32.00 | Foot of rim, bears E. and W.<br>Ascend. |
| 40.00 | Top of ascent, 20 ft. above foot, bears E. and W.<br>Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, with mound of stone 3 ft. base, 8 ins, high around post, for ¼ sec. cor., with brass cap marked<br>S 30 \| S 29<br>¼<br>1915<br>from which |

CHAINS.

A pinon pine, 6 ins.diam., bears S.86° 30'W. 190 lks.dist., marked ¼ S 30 B T

No other trees within limits, suitable for bearing trees; raise a mound of stone, 2 ft.base, 1½ ft.high W.of cor.

Thence descend over rolling mesa.

45.00 Foot of descent, 20 ft.below ¼ sec.cor., bears N.30° E. and S.30° W.

Ascend gradually.

52.36 Top of ascent, 40 ft.above foot, bears E.and W. Thence over rolling mesa.

76.00 Enter sagebrush flat, bearing E.and W.

80.00 Set an iron post, 3 ft.long, 2 ins.in diam., 24 ins.in the ground, for corner of secs.19,20,29, and 30, with brass cap marked

T 23 S R 26 E
S 19 | S 20
S 30 | S 29
1915

from which

A pinon pine, 6 ins.diam., bears S.25° 15'W. 420 lks.dist., marked T 23 S R 26 E S 30 B T

A cedar, 12 ins.diam., bears N.84° 30'W., 412 lks.dist., marked T 23 S R 26 E S 19 B T

No other bearing trees within limits; raise a mound of stone, 2 ft.base, 1½ ft.high W.of cor.

Land, rolling mesa, broken by low rim.

Soil, light sandy loam and loose sandstone rocks.

Undergrowth, scattering sagebrush and grass.

Timber, dense cedar and pinon pine.

---

S.89° 47'W.on a random line between secs.19 and 30

39.84 Set temp.witness ¼ sec.cor.

From this point the line passes along high sandstone

SUBDIVISION OF T.23 S., R.26 E.

CHAINS.

ledges, over which it is impossible to chain; therefore to determine the distance I set a flag on line, 5 lks.S.of the witness corner to the corner of secs. 19,24,25, and 30 on the W.bdy.of the Tp.; then, there being no suitable place for a base line at this point, I proceed to flag, and measure a base line S.0° 13'E. 21.00 chs.to a point, from which the temp.witness cor. to ¼ sec.cor.bears N.63° 10'E.; the distance is, therefore, tan. 63° 23' x 21.00, or 1.9955 x 21.00 = 41.90 chs. which added to 39.84 chs.equals

81.74 Fall 5 lks.S.of the witness corner to the cor.of secs. 19,24,25, and 30, which is 1.70 chs.west of the true point for corner; thence East 1.70 chs.to true point for corner of secs.19,24,25, and 30. Corner not set.

Thence

N.89° 49'E.on a true line bet.secs.19 and 30,

Descending over high sandstone ledges; through scattering cedar and pinon pine timber, and undergrowth of shadscale and grass.

80.02 Point for ¼ sec.cor.falls on ledge. Impossible to set corner.

80.20 Set an iron post, 3 ft.long, 1 in.in diam., 6 ins.in the ground to solid rock, and raise a mound of stone 4 ft.base, 20 ins.high around post, for witness corner to ¼ sec.cor., with brass cap marked

T 23 S R 26 E
S 19
W¼ C
S 30
1915

from which

A pinon pine, 6 ins.diam., bears S.72° 15'E. 28 lks.dist., marked W C ¼ S 30 B T

A pinon pine, 8 ins.diam., bears N.38° W. 170 lks.dist., marked W C ¼ S 19 B T

Corner stands on top of high sandstone, 100 ft.below

SUBDIVISION OF T.23 S., R.26 E.

| CHAINS. | |
|---|---|
| | point for sec. corner. |
| | Thence descend gradually along top of sandstone ledge. |
| 44.14 | Bottom of ravine, drains S.80° W. |
| | Ascend over a series of small ledges. |
| 56.34 | Edge of mesa, 330 ft. above bottom of ravine, bears N. and S. |
| | Leave scattering timber and scattering shadscale and grass. |
| | Enter dense cedar and pinon pine and scattering sagebrush and grass, bearing N. and S. |
| 80.04 | The cor. of secs. 19, 20, 29, and 30. |
| | Land of west 56.34 chs., along slope of mesa, facing S., very rough and broken by ledges; soil, light, sandy loam and loose sandstone; timber, scattering cedar and pinon pine; undergrowth, shadscale and grass. |
| | Land of east 23.70 chs., rolling mesa; soil, light, sandy loam; timber, dense cedar and pinon pine; undergrowth, scattering sagebrush and grass. |
| | From the true point for cor. of secs. 4, 5, 32, and 33, N.0° 01'E. bet. secs. 32 and 33, |
| | Through river, at east edge of small island. |
| 2.00 | Bank of island; thence across river. |
| 6.50 | Bank of river, bears NW. and SE. Thence over level land; through scattering undergrowth of greasewood and grass. |
| 10.30 | Irrigation ditch, course N.80° W. |
| | Foot of bench, bears N.80° W., and S.80° E. |
| | Ascend. |
| 12.00 | Top of bench, 45 ft. high, bears E. and W. |
| | Thence over bench. |
| 23.00 | Descend from bench, bearing NE. and SW. |
| 29.00 | Ravine, 45 ft. below bench, drains S.30° W. |
| | Ascend. |
| 39.13 | Top of bench, 70 ft. above ravine, bears NE. and SW. |

CHAINS.

Thence over rolling bench; ascending gradually.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, to rock, and raise a mound of stone 3 ft. base, 14 ins. high around post, for ¼ sec. cor., with brass cap marked

S ¼ 32 | S 33
1915

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

55.90 Enter very scattering cedar timber, bearing E. and W.

72.00 Foot of mesa, 215 ft. above ¼ sec. cor., bearing N.75°E. and S.75° W.

Ascend abruptly.

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 cor. of secs. 28, 29, 32, and 33, with brass cap marked

T 23 S | R 26 E
S 29 | S 28
S 32 | S 33
1915

No trees within limits, suitable for bearing trees; raise a mound of stone, 3 ft. base, 2 ft. high W. of cor.

Corner stands on SE. slope of mesa, 425 ft. above ¼ sec. corner.

Land, rolling, broken, bench land, and foot of high mesa.

Soil, light, sandy loam, loose granite and sandstone, on subsoil of hard clay and loose granite and sandstone.

Timber, few scattering cedars and pinon pine.

Undergrowth, scattering shadscale and grass.

---

West, on a random line, between secs. 29 and 32.

1.77. There being a high ledge at top of mesa, over which it

SUBDIVISION OF T.23 S, R.26 E.

| CHAINS. | |
|---|---|
| | is impossible to chain. To determine the distance I proceed as follows: |
| | Set a flag on line on top of mesa; then measure a base south 40.00 chs. to a point; from which the flag bears N.29° 33'W.; from the flag the S.end of base bears S. 29° 33'E.; therefore, the distance is tan. 29° 33' x 40.00, or .56693 x 40.00 = 22.68chs, which added to 1.77 chs. equals |
| 24.45 | To point of triangulation. |
| 40.00 | Set temp. ¼ sec. cor. |
| 57.77 | Abrupt ascent from foot of mesa, over ledges. Impossible to chain; therefore, to determine the distance I set a flag on line on top of mesa; then measure a base south 5.00 chs. dist. to a point, from which the flag bears N.73° 21'W.; from the flag the S.end of base bears S.73° 21'E.; therefore the distance is tan. 73° 21' x 5.00, or 3.34377 x 5.00 = 16.72, which added to 57.77 chs., equals |
| 74.49 | To point of triangulation. |
| 80.16 | Intersect N.and S.line 2 lks. N.of the cor. of secs. 29, 30, 31, and 32. |
| | Thence, |
| | N.89° 59'E. on a true line bet. secs. 29 and 32, |
| | Over rolling mesa; through cedar and pinon pine. |
| 5.67 | Top of mesa, bears N.and S. |
| | Descend. |
| 22.39 | Foot of mesa, 500 ft. below top, bears N.20° E., and S. |
| 40.08 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

S 29
¼
S 32
1915

from which

A pinon pine, 7 ins. diam., bears N.88° 15'W. 172 lks. dist., marked ¼ S 29 B T

SUBDIVISION OF T.23 S., R.26 E.

CHAINS.

A cedar, 5 ins. diam., bears S.53° 15'W., 218 lks. dist., marked ¼ S 32 B T

42.26 Top of ravine, bears N. and S.

Descend.

48.31 Bottom of ravine, 25 ft. below top, drains S.

Ascend to

50.26 Top of ravine, bearing N. and S.

Leave dense cedar and pinon pine, bearing N.10° E., and S.10° W.

55.71 Top of mesa, bearing N.10° E., and S.10° W.

Descend over high ledge to

75.39 Triangulation point.

Thence descend mesa, over large boulders.

80.16 The cor. of secs. 29, 30, 31, and 32, 775 ft. below top of mesa.

Land, rolling mesa, and rough; broken slopes of mesa.

Soil, light; sandy loam and loose sandstone.

Timber, cedar and pinon pine.

Undergrowth, scattering shadscale and grass.

---

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

Over rough, mountainous land; through very scattering cedars, and scattering undergrowth of shadscale and grass. Descending over rough and broken mesa.

31.60 Wash, 20 lks. wide, 2 ft. deep, at foot of mesa, 160 ft. below cor., drains S.30° E.

Thence over rolling land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, to solid rock, and raise a mound of stone 3 ft. base, 10 ins. high around post, for ¼ sec. cor., with brass cap marked

S 28
¼
S 33

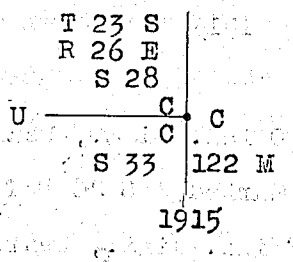
1915

CHAINS

No trees within limits; raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

40.45 Intersect the Utah-Colorado boundary, 4.45 chs. N.1°31' E. of the 122nd mile cor., described on page 3, this book. At intersection

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 28 and 33, with brass cap, marked




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

Land, rough, broken slope of mesa, and rolling bench land.

Soil, light sandy loam and loose sandstone, on subsoil of hard clay and loose sandstone.

Timber, very scattering cedar and pinon pine.

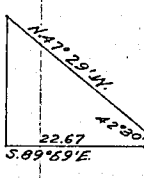
Undergrowth, scattering shadscale and grass.

---

N.0°01'E. bet. secs. 28 and 29.

Over rough, mountainous land, through scattering cedar and pinon pine timber, and scattering undergrowth of shadscale and grass.

Ascend over rough face of mesa, and ledge at top, over which it is impossible to chain. To determine the distance, I set a flag on line on top of mesa; then measure a base S.89°59'E., 22.67 chs. to a point, from which the flag bears N.47°29'W.; from the flag the E. end of base bears S.47°29'E.; therefore, the distance is tan.42°30' x 22.67, or




.91633 x 22.67 =

20.77 Top of mesa, 760 ft. above sec. cor., bears N.75°E. and

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SUBDIVISION OF TP. 23 S., R. 26 E.

CHAINS

S.75°W.

Enter dense timber, bearing N.75°E. and S.75°W.

Thence over rolling mesa, broken by sandstone outcroppings.

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

| | |
|---|---|
| S 29 ¼ | S 28 |

1915

from which

A pinon pine 10 ins. diam., bears N.75°30'E., 48 lkd. dist., marked ¼ S 28 B T.

A pinon pine 7 ins. diam., bears S.24°15'W., 50 lks. dist., marked ¼ S 29 B T.

80.00 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. 20, 21, 28 and 29, with brass cap, marked

T 23 S R 26 E

| | |
|---|---|
| S 20 | S 21 |
| S 29 | S 28 |

1915

from which

A pinon pine, 4 ins. diam., bears N.34°30'E., 15 lks. dist., marked T 23 S R 26 E S 21 B T.

A pinon pine, 7 ins. diam., bears S.71°30'E., 97 lks. dist., marked T 23 S R 26 E S 28 B T.

A pinon pine, 6 ins. diam., bears S.76°15'W., 192 lks. dist., marked T 23 S R 26 E S 29 B T.

A cedar, 11 ins. diam., bears N.82°45'W., 200 lks. dist., marked T 23 S R 26 E S 20 B T.

Land of S. 20.00 chs., rough slope of mesa, facing SE.; remaining portion, rolling mesa land, broken by sandstone outcroppings.

Soil, light sandy loam, loose sandstone and sandstone

| CHAINS | |
|---|---|
| | outcroppings. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, scattering shadscale and grass. |
| | S.89°58'W. on a random line bet. secs.20 and 29. |
| 19.70 | Abrupt ascent from foot of mesa over a series of ledges over which it is impossible to chain. To determine the distance I set a flag on line on top of mesa; then measure a base, S.0°01'E., 10.00 chs. to a point, from which the flag bears N.61°19'W.; from the flag the S. end of base bears S.61°19'E.; therefore, the dist. is tan. 61°18' x 10.00, or 1.82654 x 10.00 - 18.27 chs., which added to 19.70, makes |
| 37.97 | To point of triangulation. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.06 | Intersect N. and S. line 3 lks. N. of the cor. of secs. 19, 20, 29 and 30. |
| | Thence |
| | N.89°58'E., on a true line bet. secs. 20 and 29. |
| | Over sagebrush flat. |
| 2.36 | Leave sagebrush flat, enter dense timber, bearing N. and S. |
| 10.36 | Leave dense and enter scattering timber, bearing N. and S. |
| 40.03 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked |

S 20
¼
———
S 29
1915

from which

A pinon pine, 6 ins. diam., bears N.29°W., 276 lks. dist., marked ¼ S 20 B T.

A cedar, 8 ins. diam., bears S.51°15'W., 222 lks. dist., marked S 29 B T.

CHAINS

42.09 Top of mesa, bears N. and S.

Descend over a series of ledges to

60.36 Foot of mesa, 515 ft. below top, bears N. and S.; thence over rolling mesa; through dense cedar and pinon pine.

80.06 The cor. of secs. 20, 21, 28 and 29.

Land, rolling mesa, broken by slope of mesa, very rough slope.

Soil, light sandy loam, loose sandstone, and sandstone outcroppings.

Timber, cedar and pinon pine.

Undergrowth, scattering sagebrush and grass.

---

East on a true line bet. secs. 21 and 28.

Over rolling mesa land, through dense cedar and pinon pine timber, and scattering undergrowth of sagebrush and grass.

3.30 Descend into ravine, bearing N. and S.

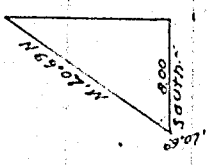
4.85 Ravine, 35 ft. below top, drains S. Ascend.

8.30 Top of ravine, 25 ft. above bottom, bears N. and S.

Thence over slightly ascending mesa.

20.31 Brink of mesa, bears N. and S.

Abrupt descent over high ledge, impossible to chain; therefore, to determine the distance I set a flag on line; then, there being no suitable place at this point to measure a base I leave a flag and proceed to the flag set on line, from which I measure a base, south 8.00 chains, to a point, from which the flag on top of mesa bears N.69°07'W.; therefore the dist. is tan. 69°07' x 8.00, or 2.62103 x 8.00 = 20.97 chs., which added to 20.31, makes 41.28; thence west 1.28 chains to




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

SUBDIVISION OF TP. 23 S., R.26 E.

CHAINS

S 21
¼
———
S 28
1915

from which

A cedar 6 ins. diam. bears N.53°W., 147 lks. dist., marked ¼ S 21 B T.

A cedar 12 ins. diam. bears S.87°30'W., 171 lks. dist., marked ¼ S 28 B T.

Cor. 1000 ft. below top of mesa.

41.80 Ravine, 50 ft. below ¼ sec. cor., drains S.5°W. Ascend.

42.68 Intersect the Utah-Colorado bdy., 84.54 chs. N.1°31'E. of the 122nd mile cor., described on page 3, this book. At intersection

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 21 and 28, with brass cap marked

T 23 S
R 26 E
S 21
U ——— C C C
S28
1915

from which

A cedar 6 ins. diam. bears N.75°45'W., 194 lks. dist., marked T 23 S R 26 E S 21 B T.

A cedar 12 ins. diam. bears S.88°30'W., 122 lks. dist., marked T 23 S R 26 E S 28 B T.

Cor. 20 ft. above ravine.

Land, rolling mesa top, and rough, broken slope of mesa.

Soil, light sandy loam, loose sandstone, and sandstone ledges.

Timber, cedar and pinon pine.

Undergrowth, scattering sagebrush and grass.

SUBDIVISION OF TP.23 S., R.26 E.

The land N. being mesa land broken by deep canyons, very rough and of no value, I discontinue survey of this township

---

GENERAL DESCRIPTION OF TP.23 S., R.26 E.

This fractional township consists generally of high broken mesa land and deep canyons. The slopes of the mesa and of the canyons are broken by high sandstone ledges. The land is too rough to be of any value for agricultural purposes.

The soil is a poor, light sandy loam, with loose rocks, and is covered with a scattering growth of shadscale, and grass, and scattering cedar and pinon pine timber. The mesa land is covered with a dense growth of cedar and pinon pine.

The Dolores river, which is a stream of muddy water 2 to 3 chs. wide and 2 to 3 ft. deep crosses the S. end of sec. 32. Along the bottom of the Dolores canyon in secs. 32 and 33 is a strip of level bottom land varying from 10 to 40 chs. in width, the soil of which is a rich sandy loam, which will produce abundant crops with irrigation.

G. W. Gordon, in sec. 32, is the only settler in this township. His improvements consist of a house, barns, corrals and fencing, and he has about 35 acres of land under cultivation. Improvements valued at about $2000.00.

There are no indications of mineral found in this township.

---

TP. 23 S., R. 26 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS

| Lines designated | True Bearing | Dist. | Latitudes. N. | Latitudes. S. | Departures E. | Departures W. |
|---|---|---|---|---|---|---|
| | | Chs. | Chs. | Chs. | Chs. | Chs. |
| West Bdy. | North | 160.00 | 160.00 | | | |
| North Bdy. Sec.30, | N.89°49'E. | 80.04 | .26 | | 80.04 | |
| " " " 29, | N.89°58'E. | 80.06 | .05 | | 80.06 | |
| " " " 28, | East | 42.68 | | | 42.68 | |
| Utah-Colo.Bdy. | S.1°31'W. | 160.17 | | 160.11 | | 4.24 |
| South Bdy. | West | 198.45 | | | | 198.45 |
| Convergency | | | | | .08 | |
| Totals | | | 160.31 | 160.11 | 202.86 | 202.69 |
| | | | 160.11 | | 202.69 | |
| Error in Lat.and Dep. | | | .....20 | ..... | .....17 | |

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# CERTIFICATE OF ASSISTANTS.

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

.....

.....

.....

.....

.....

.....

of the ..... Meridian, in the State of .....

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

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

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

.....

*U. S. Surveyor.*

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

I, Ralph Gentry, U. S. Surveyor, do solemnly ~~swear~~ certify that, in pursuanc of special instructions received from the U. S. Surveyor General for Utah bearing date of the 20th day of July, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveyin Instructions, and the laws of the United States, surveyed all those parts or portions of the retracement of the Utah-Colorado boundary, 121st to 124th mile; survey of the west boundary; and survey of the subdivision of Township No. 23 South, Range No. 26 East

of the Salt Lake Base and Meridian, in the State of Utah, which are represented i the foregoing field notes as having been executed by me, and under my direction on the dates shown on the date diagram preceding n and I do furthe solemnly ~~swear~~ certify 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. Surveyo General for Utah and in the specific manner described in the field notes, and tha the foregoing are the original field notes of such survey.

Ralph Gentry
*U. S. Surveyor.*

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

SEAL

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Mar. 9, 1917.

The foregoing field notes of the ~~survey of~~ retracement of the Utah-Colorado boundary, 121st to 124th mile; survey of the west boundary; and survey of the subdivision of Township No. 23 South, Range No. 26 East, of the Salt Lake Base and Meridian, Utah,

executed by Ralph Gentry under his special instructions dated July 20, 1915, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and surveys they describe, are hereby approved.

[signature]
*U. S. Surveyor General.*

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

6—2761

*U. S. Surveyor General.*

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Page

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Page

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1—679

BOOK A-421

MKW

# FIELD NOTES

OF THE ~~SURVEY OF THE~~

RESURVEY OF THE EAST AND SOUTH BOUNDARIES

AND

SURVEY OF THE WEST BOUNDARY AND SUBDIVISION

OF

TOWNSHIP 28 SOUTH, RANGE 23 EAST

AND

RESURVEY OF PART OF THE SOUTH BOUNDARY

OF

TOWNSHIP 27 SOUTH, RANGE 23 EAST

*Of the* Salt Lake Base and *Meridian,*

*In the State of* Utah

EXECUTED BY

Donald B. Clement and Thomas C. Rathbone

*In the capacity of U. S.* ~~*Surveyor*~~ Transitmen, *under instructions dated* July 20, *1915,*

*issued by the United States Surveyor General to govern surveys included in*

*Group No.* 42, *which were approved by the Commissioner of the General Land*

*Office,* July 28, *1915;* assignment instructions dated July 23, 1915, and supplemental assignment instructions dated November 13, 1915, issued by the Assistant Supervisor of Surveys for the District of Utah.

*Survey commenced* September 6, *1915*

*Survey completed* June 13, *1916*

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## LIST OF ASSISTANTS

Barnum B. Packard----------H. Chainman
Lynn Phelps----------R. Chainman
Byron F. Crookston----------Cornerman
Louis Atabler----------Flagman
Melton J. Landvoigt----------Axman
Mark Troxell----------H. Chainman
W. L. Washington----------Flagman
Mason Whitmore----------Cornerman
J. H. Johnson----------Axman

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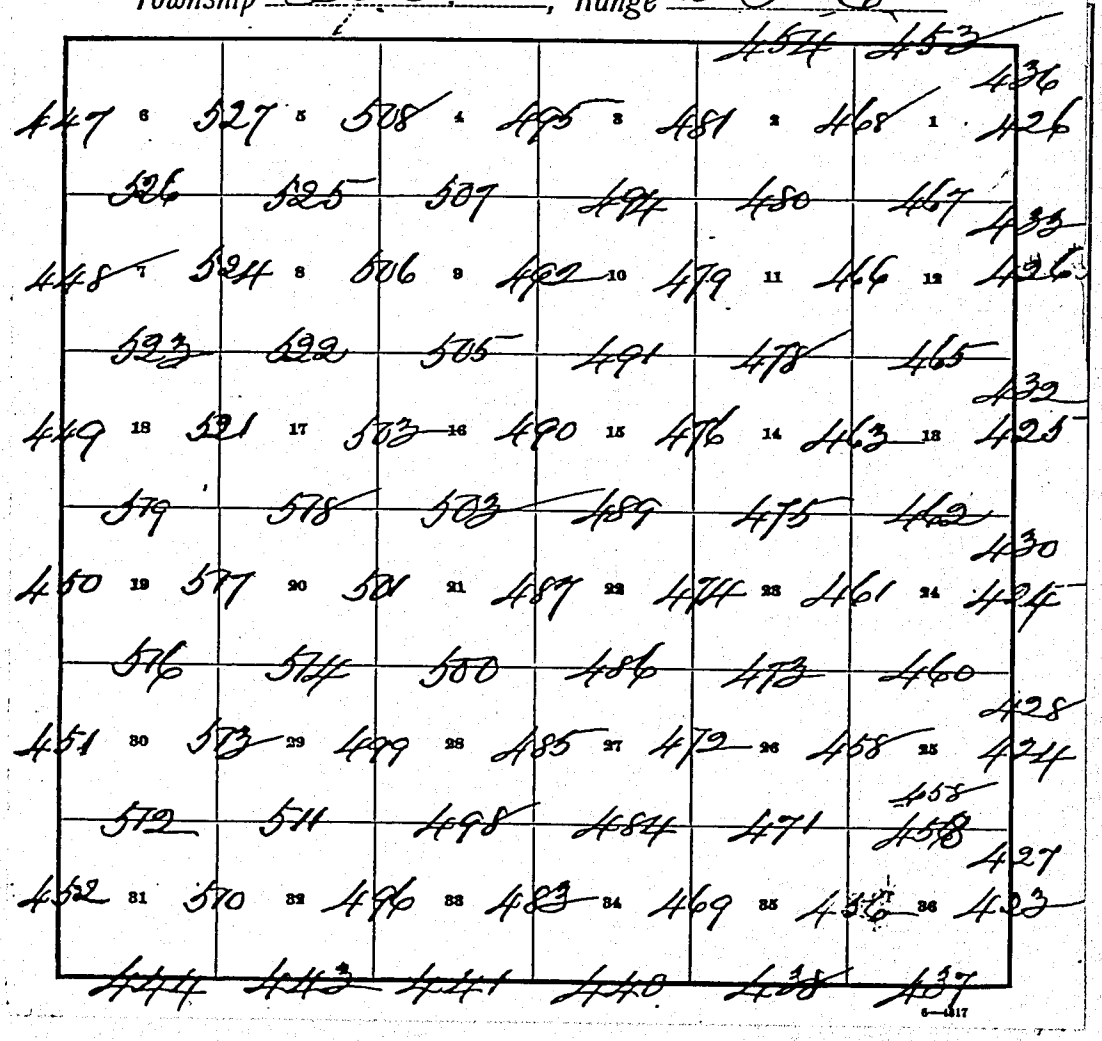
# INDEX DIAGRAM.

Township 28 S., Range 23 E.



Retracement and
Resurvey of the East Bdy. of T. 28 S., R. 23 E.

DATE DIAGRAM

| | | | | | |
|---|---|---|---|---|---|
| 6/13/16 | 6/10/16 | 6/8/16 | 6/7/16 | 6/6/16 | 6/3/16 |
| 10/14/15 | 10/14/15 | 10/5/15 | 10/4/15 | 10/16/15 | 10/15/15 |
| 10/13/15 | 10/8/15 | 10/5/15 | 10/4/15 | 10/2/15 | 9/16/15 |
| 10/1/15 | 9/30/15 | 9/29/15 | 9/29/15 | 9/15/15 | 9/13/15 |
| 9/24/15 | 9/23/15 | 9/23/15 | 9/20/15 | 9/15/15 | 9/10/15 |
| 9/10/15 | 9/10/15 | 9/10/15 | 9/10/15 | 9/9/15 | 9/9/15 |

Lines along which dates are colored red were surveyed by Donald B. Clement, U.S.Transitman.

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

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Survey commenced September 6, 1915, and executed with a Buff transit No. 9305, with Smith solar attachment, and with Young and Sons transit No. 7192, with Smith solar attachment. The horizontal limbs of both transits are provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. Buff transit No. 9305 is also provided with a full vertical circle provided with one

Chains

double vernier reading to single minutes of arc.

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

The instruments were approved for use on this survey conditional upon satisfactory field tests by the Assistant Supervisor of Surveys for this district in Assignment instructions dated July 23, 1915 and Supplemental Assignment Instructions dated Nov. 13, 1915.

Refractions in declinations were corrected for an elevation of 6500 ft. above sea level.

September 6, 1915: I examine the adjustments of Buff transit No. 9305, find them correct; then, to test the solar apparatus, by comparing its indications, resulting from solar observations, made during the a. m. and p. m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

I set up the instrument at camp, in the SE¼ sec. 36, T. 28 S., R. 23 E., in approximate latitude 38°20' N., longitude 109°22' W., and at 7h 02.6m p. m. by my watch which carries correct Standard Time secured by telephone from Western Union telegraph station at Thompsons, Utah, observe Polaris in accordance with the Manual of Instructions, and mark the direction thus determined by a tack in a stake firmly driven in the ground about 10 chains north of my station.

| | | | h | m |
|---|---|---|---|---|
| Standard time of obs. Sept. 6..... | | | 7 | 02.6 pm. |
| Corr. for long..... | | | | 16.7 |
| l. m. t. of obs..... | | | 6 | 45.9 |
| U. C. Pol. Sept. 7 for long. 109°22'W..... | h | m | | |
| | 14 | 28.8 | | |
| | 6 | 45.9 | | |
| Hour Angle of Pol. at obs..... | | | 7 | 42.9 |
| Azimuth of Pol. at obs..... | | | 1° | 17.7' E. |

**Retracement and**

Resurvey of the East Boundary of T. 28 S., R. 23 E.

Chains

Sept. 7: At 7 a.m., I lay off the azimuth of Polaris, 1°18', to the west, and mark the meridian thus determined by nail in a stake driven in the ground about 10 chains north of my station.

At 8h 00m a. m., apparent time, I set off 38°20' on the lat. arc; 6°21' N. on the decl. arc; the meridian determined with the solar coincides with the meridian established by Polaris observations.

At apparent noon, I set off 6°17' N. on the decl. arc and observe the sun in the meridian; the resulting lat. is 38°20'.

Also, in the interval of 1m. before and 1m. after apparent noon, I make the following direct obs. of the sun for latitude:

| | |
|---|---|
| Telescope forward, v of upper limb = | 58° 17' 00" |
| Telescope reversed v of lower limb = | 57° 37' 00" |
| v of sun's center..... | 57° 57' 00" |
| refraction, subtract..... | 37" |
| h of sun's center..... | 57° 56' 23" |
| co-lat. = h - decl. | 6° 16' 21" |
| co-lat. ..... | 51° 40' 02" |
| latitude,..... | 38° 19' 58" |

which practically agrees with the assumed latitude.

At 4h 00m p. m., apparent time, I set off 38°20' on the lat. arc; 6°14' N. on the decl. arc; the meridian thus determined practically coincides with the meridian determined by observations on Polaris.

I therefore conclude that the adjustments of the instrument are satisfactory.

Frequent meridian and noon latitude tests proved that the instrument continued in good adjustment throughout the survey.

No test was made to determine the mag. decl. on account of sluggish needle.

Donald C. Clement
U. S. Transitman.

**Retracement and**
Resurvey of the East Bdy. of T. 28 S., R. 23 E.

Chains

May 25, 1916; I examine the adjustments of Young and Sons' transit No. 7192, find them correct, then, to test the solar apparatus, by comparing its indications, resulting from solar observations, made during the a. m. and p. m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At my camp, which is situated near the center of sec. 15, T 28 S., R. 23 E., in approximate latitude 38°22' N., longitude 109°24½' W., I set off 38°22' on the lat. arc, 21°03' N. on the decl. arc, and at 4h 30m p. m., apparent time, determine with the solar a. meridian, and mark a point thereof by a tally pin driven in a stake set about 15 chs. north of my station.

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May 26: At 3h 19m a. m., l. m. t., I observe Polaris at Eastern Elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined by a tally pin driven in the ground about 15 chs. N. of my station.

At 7:30 a.m. I lay off the azimuth of polaris, 1°27' to the west; the meridian thus determined falls on the pin set on May 25th.

At 8h 00m a. m., apparent time, I set off 38°22' on the lat. arc; 21° 09' N. on the decl. arc; the meridian determined with the solar practically coincides with the meridian determined by observations on Polaris.

At apparant noon, I set off 21°11' N. on the decl. arc, and observe the sun in the meridian: the resulting lat. is 38°22'.

I therefore conclude that the adjustments of the instrument are satisfactory.

The results from frequent noon lat. observations and meridian tests demonstrated that the instrument continued in good adjustment throughout the survey.

Thos. H. Hathborne
U. S. Transitman.

RETRACEMENT AND RESURVEY
EAST BOUNDARY OF T. 28 S. R. 23 E.

Chains

Begin at the cor. of Tps. 28 and 29 S. Rs. 23 and 24 E., which is a quartzite stone, 17x10x10 ins., set in a mound of stone, with 6 notches on N. S. E. and W. edges, and G on NE. face, from which

A cedar 10 ins. dia., bears N.88°30'W.,
53 lks. dist. mkd. T 28 S R 23 E S 36 C G M B T.
A cedar 15 ins. dia., bears S.43°15'W.,
53 lks. dist. mkd. T 29 S R 23 E S 1 C G M B T.

I re-establish this cor. as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 26 ins. in the old mound of stone, alongside of old stone, for cor. of Tps. 28 and 29 S. Rs. 23 and 24 E., with brass cap marked

T 28 S
R 23 E | R 24 E
S 36 | S 31
S 1 | S 6
T 29 S
1915

A fire has destroyed the timber in secs. 6 and 31, leaving no trees suitable to mark. Raise a mound of stone 4 ft. base, 2 ft. high S. of cor.

Thence

North bet. secs. 31 and 36 retracing.

40.00 No evidence of old cor.

46.14 Fall 8 lks. E. of the old ¼ sec. cor., which is a sandstone 16x11x9 ins. set in mound of stone mkd. ¼ on W. face, from which

Pinon pine 10 ins. dia., bears S.52°15'E.,
10 lks. dist. mkd. ¼ S 31 B T.
Pinon pine 14 ins. dia., bears S.68°30'W.,
24 lks. dist. mkd. ¼ S 36 B T.

The course of this half mile is therefore N.0°06'W., and the distance 46.14.chs.

86.13 Fall 8 lks. W. of the old cor. of secs. 25, 30, 31 and 36, which is a gray sandstone 13x12x6 ins. above ground, mkd. 1 notch on S. and 5 on N. edges, from which

Pinon pine 12 ins. dia., bears N.10°E.,
14 lks. dist. mkd. T 28 S R 24 E S 30 B T.

Chains

Cedar 14 ins. dia., bears S.20°30'E.,
33 lks. dist. mkd. T 28 S R 24 E S 31 B T.
Cedar 10 ins. dia., bears S.54°30'W.,
85 lks. dist. mkd. T 28 S R 23 E S 36 B T.

The course of this half mile is therefore N.0°14'E., and the distance 39.99 chs.

---

North bet. secs. 25 and 30, retracing.

40.27 Fall 37 lks. E. of the old ¼ sec. cor., which is a granite stone 16x12x14 ins., loosely set in ground, mkd. ¼ on W. face, from which

Cedar 8 ins. dia., bears N.35°30'E.,
11 lks. dist. mkd. ¼ S 30 B T.
Cedar, dead, 10 ins. dia., bears S.72°W.,
44 lks. dist. mkd. ¼ S 25 B T.

The course of this half mile is therefore N.0°32'W., and the distance 40.27 chs.

79.88 Fall 15 lks. W. of the old cor. of secs. 19, 24, 25 and 30, which is a gray sandstone 23x14x3 ins., set in mound of stone, mkd. 2 notches on S. and 4 on N. faces, from which

Cedar 18 ins. dia., bears N.49°30'E.,
8 lks. dist. mkd. T 28 S R 24 E S 19 B T.
Cedar 24 ins. dia., bears S.64°30'W.,
13 lks. dist. mkd. T 28 S R 23 E S 25 B T.
Cedar 16 ins. dia., bears N.18°30'W.,
37 lks. dist. mkd. T 28 S R 23 E S 24 B T.

The course of this half mile is therefore N.0°45'E., and the distance 39.61 chs.

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North bet. secs. 19 and 24 retracing.

39.98 Fall 75 lks. W. of the old ¼ sec. cor., which is a sandstone 18x12x6 ins., set in md. of stone, mkd. ¼ on W. face, from which

Cedar 12 ins. dia., bears N.60°W.,

| Chains | |
|---|---|
| | 11 lks. dist. mkd. ¼ S 24 B T. |
| | Pinon pine 8 ins. dia., bears S.86°E., |
| | 20 lks. dist. mkd. ¼ S 19 B T. |
| | The course of this half mile is therefore N.1°04'E., and the distance 39.99 chs. |
| | Thence offset over cor. and run North. |
| 40.36 | Fall 49 lks. E. of the old cor. of secs. 13,18,19 and 24, which is a sandstone 12x12x8 ins. above ground, mkd. 3 notches on N. and S. faces, from which |
| | Pinon pine 13 ins. dia., bears N.34°E., |
| | 9 lks. dist. mkd. T 28 S R 24 E S 18 B T. |
| | Pinon pine 12 ins. dia., bears N.25°W., |
| | 38 lks. dist. mkd. T 28 S R 23 E S 13 B T. |
| | Pinon pine 11 ins. dia., bears S.52°30'W., |
| | 21 lks. dist. mkd. T 28 S R 23 E S 24 B T. |
| | The course of this half mile is therefore N.0°42'W., and the distance 40.37 chs. |
| | North bet. secs. 13 and 18, retracing. |
| 39.75 | Fall 135 lks. E. of old stone ¼ sec.cor., which is red sandstone 20x12x8 ins. set in mound of stones, mkd. ¼ on W. face, from which |
| | Pinon 8 ins. dia., bears S.60°W., |
| | 12 lks. dist. mkd. ¼ S 13 B T. |
| | Pinon 10 ins. dia., bears N.14°W., |
| | 15 lks. dist. mkd. ¼ S 13 B T. |
| | The course of this half mile is therefore N.1°56'W., and the distance 39.77 chs. |
| | Thence offset over cor. and run north. |
| 39.73 | Fall 37 lks. W. of the old cor. of secs. 7,12,13 and 18, which is a gray sandstone 25x10x8 ins. set in mound of stone, mkd. 4 notches on S. and 2 on N., from which |
| | Pinon pine 9 ins. dia., bears N.55°30'E., |
| | 14 lks. dist. mkd. T 28 S R 23 E S 7 B T. |
| | Pinon pine 9 ins. dia., bears S.17°45'W., |
| | 25 lks. dist. mkd. T 28 S R 23 E S 13 B T. |
| | Cedar 12 ins. dia., bears N.36°W., |

| Chains | |
|---|---|
| | 47 lks. dist, mkd, T 28 S R 23 E S 12 B T. |
| | The course of this half mile is therefore N.0°32'E., and the distance 39.73 chs. |
| | North bet. secs. 7 and 12, retracing. |
| 40.02 | Intersect old ¼ sec. cor., which is a sandstone 10x12x3 ins. above ground, mkd. ¼ on W. face, from which |
| | A cedar 15 ins. dia., bears N.48°45'E., |
| | 54 lks. dist. mkd. ¼ S 7 B T. |
| | A cedar 12 ins. dia., bears S.49°W., |
| | 9 lks. dist. mkd. ¼ S 12 B T. |
| | The course of this half mile is therefore North and the distance 40.02 chs. |
| 80.04 | Fall 13 lks. E. of the old stone cor. of secs. 1,6,7 and 12, which is a sandstone 8x8x6 ins. above ground, mkd. with 5 notches on S. and 1 on N. faces, from which |
| | A pinon 11 ins. dia., bears N.55°33'E., |
| | 56 lks. dist. mkd. T 28 S R 24 E S 6 B T. |
| | A pinon 6 ins. dia., bears S.21°45'E., |
| | 38 lks. dist. mkd. T 28 S R 24 E S 7 B T. |
| | A pinon 8 ins. dia., bears N.39°W., |
| | 63 lks. dist. mkd. T 28 S R 23 E S 1 B T. |
| | A pinon 18 ins. dia., bears S.74°W., |
| | 103 lks. dist. mkd. T 28 S R 23 E S 12 B T. |
| | The course of this half mile is therefore N.0°11'W., and the distance 40.02 chs. |
| | North bet. secs. 1 and 6, retracing. |
| 40.15 | Fall 17 lks. W. of old ¼ sec. cor., which is a granite 16x5x5 ins. above ground, firmly set and marked as described by the surveyor general, not witnessed. |
| | The course of this line is therefore N.0°15'E. and the distance 40.15 chs. |
| | Offset to ¼ sec. cor. and run north. |
| 40.18 | Fall 21 lks. E. of the old Tp. cor., which is a sandstone 14x8x8 ins. above ground, firmly set in a mound of stone, |

| Chains | |
|---|---|
| | marked and witnessed as described by the surveyor general. |
| | The course of this half mile is therefore N.0°18'W. and the distance 40.18 chs. |
| | Note: Re-establish the old corners on the east boundary of Tp. with iron posts set beside the old stones to refer to T.28 S.R.24 E. only, destroying marks and accessories pertaining to R.23 E. and resurvey the line as the E.bdy. of T. 28 S.R.23 E. beginning at the re-established cor. of Tps. 28 and 29 S. Rs. 23 and 24 E., setting sec. and ¼ sec. cors. at intervals of 40 chs. to refer to R.23 E. |
| | From the re-established cor. of Tps. 28 and 29 S. Rs. 23 and 24 E., |
| | N.0°06'W. along the W. bdy. sec. 31. |
| | Descending gradually over rocky N. slope, through scattering timber and dense undergrowth of sagebrush. |
| 13.20 | Wash 6 ft. deep, drains N.70°W. 95 ft. below sec. cor. |
| 14.10 | Wash 6 ft.deep, drains S.80°W. Ascend gentle SW. slope. |
| 21.05 | Old road from La Sal to Moab, bears E. and W. Thence over level flat. |
| 37.03 | Wash 4 ft. deep, drains S.45°W. |
| 40.44 | Set an iron post 3 ft. long, 1 in. in dia.,28 ins. in the ground and mound of stone for ¼ sec. cor. sec. 36, marked on brass cap<br>S 36 ¼ \| 1915<br>from which<br>A pinon pine 16 ins. dia., bears S.49°W., 166 lks. dist. mkd. ¼ S 36 B T.<br>A pinon pine 8 ins. dia.,bears N.34°W., 65 lks. dist. mkd. ¼ S 36 B T. |
| 46.14 | Set an iron post 3 ft. long, 1 in. in dia.,26 ins. in the ground, alongside old stone, for ¼ sec. cor. sec. 31 only, with brass cap marked<br>\| ¼ S 31<br>1916 |

| Chains | |
|---|---|
| | from which<br>A pinon pine 12 ins. dia.,bears N.67°30'E.,<br>23 lks. dist. mkd. ¼ S 31 B T.<br>A pinon pine 9 ins. dia.,bears S.54°E.,<br>31 lks. dist. mkd. ¼ S 31 B T. |
| | Corner falls 70 ft. above wash. Thence N.0°14'E. |
| 8.06 | Enter heavy timber. Small wash drains SW. |
| 22.18 | Wash drains SW. |
| 27.04 | Telephone line from La Sal to Moab, bears NW. and SE. |
| 34.30 | Set an iron post, 3 ft. long, 2 ins. in dia., 26 ins. in the ground for cor. of secs. 25 and 36, with brass cap marked<br>T 28 S<br>S 25 \| S 36<br>R 23 E<br>1915 |
| | from which<br>A pinon pine 7 ins. dia.,bears S.53°45'W.,<br>44 lks. dist. mkd. T 28 S R 23 E S 36 B T.<br>A pinon pine 10 ins. dia.,bears N.11°W.,<br>107 lks. dist. mkd. T 28 S R 23 E S 25 B T. |
| 39.99 | Set an iron post 3 ft. long, 3 ins. in dia., 28 ins. in the ground for cor. of secs. 30 and 31, with brass cap marked<br>T 28 S<br>S 30 \| S 31<br>R 24 E<br>1915 |
| | from which<br>A pinon pine 8 ins. dia.,bears N.76°30'E.,<br>35 lks. dist. mkd. T 28 S R 24 E S 30 B T.<br>A pinon pine 8 ins. dia.,bears S.82°E.,<br>122 lks. dist. mkd. T 28 S R 24 E S 31 B T.<br>Corner falls 50 ft. above ¼ sec. cor.<br>Land rolling. Soil light, sandy loam, a good deal of stone and gravel, 1st and 2nd rate. Timber cedar and pinon pine. Undergrowth sagebrush. |
| | N.0°32'W. on W.bdy. sec. 30.<br>Over rolling land, through heavy timber and dense undergrowth of sagebrush. |

RETRACEMENT AND RESURVEY,
EAST BOUNDARY OF T. 28 S. R. 23 E.

| Chains | |
|---|---|
| 2.00 | New state road from Moab to LaSal and Monticello, bears NW. and SE. Leave timber, thence across sagebrush flat. |
| 30.00 | Reenter timber bearing E. and W. |
| 34.31 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for sec. 25, with brass cap marked<br>S 25 ¼ \|<br>1915<br>from which<br>A pinon pine 14 ins. dia., bears S.47°W., 81 lks. dist. mkd. ¼ S 25 B T.<br>A pinon pine 8 ins. dia., bears N.64°15'W., 50 lks. dist. mkd. ¼ S 25 B T. |
| 40.27 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. sec. 30 only, with brass cap marked<br>\| ¼ S 30<br>1915<br>from which<br>A cedar 8 ins. dia., bears N.35°30'E., 11 lks. dist. mkd. ¼ S 30 B T.<br>(Old tree remarked)<br>Thence N.0°45'E. |
| 13.73 | Descend N. slope. |
| 23.53 | Deep ravine, 150 ft. below ¼ sec. cor., drains W. Ascend S. slope. |
| 29.09 | Top of ascent, 125 ft. above ravine. Thence over rolling mesa. |
| 34.04 | Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground, for cor. secs. 24 and 25, with brass cap marked<br>T 28 S<br>S 24 \|<br>S 25 \|<br>R 23 E<br>1915<br>from which<br>A cedar 10 ins. dia., bears S.27°30'W., 47 lks. dist. mkd. T 28 S R 23 E S 25 B T.<br>A cedar 8 ins. dia., bears N.84°W., 43 lks. dist. mkd. T 28 S R 23 E S 24 B T. |
| 39.61 | Set an iron post, 3 ft. long, 3 ins. in dia., 28 ins. in the ground for cor. of secs. 19 and 30, with brass cap marked |

Chains

T 28 S
S 19
S 30
R 24 E
1915

from which

A pinon pine 10 ins. dia., bears N.13°30'E.,
29 lks. dist. mkd. T 28 S R 24 E S 19 B T.
A pinon pine 8 ins. dia., bears S.24°E.,
67 lks. dist. mkd. T 28 S R 24 E S 30 B T.

Land rolling. Soil light sandy loam, very rocky in places, 1st rate. Timber cedar and pinon pine. Undergrowth sagebrush.

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N.1°04'E. on W. bdy. sec. 19.

Over rolling land, through heavy timber.

Descend NW. slope.

3.60 Small ravine, 25 ft. below sec. cor., drains W.

Ascend SW. slope.

12.00 Low ridge, 65 ft. above ravine, bears E. and W.

Descend N. slope.

18.15 Ravine, 70 ft. below ridge, drains W.

Ascend S. slope.

23.43 Top of ascent, 82 ft. above ravine.

Thence over level mesa.

34.43 Set an iron post 3 ft. long, 1 in. in dia., 28 ins. in the ground for ¼ sec. cor. sec. 24 only, with brass cap marked

S 24 ¼
1915

from which

A cedar 6 ins. dia., bears N.36°30'W.,
19 lks. dist. mkd. ¼ S 24 B T.
A cedar 6 ins. dia., bears S.73°30'W.,
20 lks. dist. mkd. ¼ S 24 B T.

39.99 Set an iron post, 3 ft. long, 1 in. in dia., 30 ins. in the ground for ¼ sec. cor. sec. 19 only, with brass cap marked

¼ S 19
1915

Chains

from which

A pinon pine 8 ins. dia., bears S.86°E.,

20 lks. dist. mkd. ¼ S 19 B T..

(Old tree remarked)

Thence N.0°42'W.

19.70 Small wash drains W.

34.44 Set an iron post, 3 ft. long, 2 ins. in dia., 28 ins. in the ground for cor. of secs. 13 and 24, with brass cap marked

T 28 S
S 13
S 24
R 23 E
1915

from which

A pinon pine 8 ins. dia., bears S.48°W.,

44 lks. dist. mkd. T 28 S R 23 E S 24 B T.

A pinon pine 6 ins. dia., bears N.41°45'W.,

10 lks. dist. mkd. T 28 S R 23 E S 13 B T.

40.37 Set an iron post, 3 ft. long, 3 ins. in dia., 30 ins. in the ground and mound of stone for cor. of secs. 18 and 19, with brass cap marked

T 28 S
S 18
S 19
R 24 E
1915

from which

A pinon pine 8 ins. dia., bears S.45°E.,

26 lks. dist. mkd. T 28 S R 24 E S 19 B T.

Leave old bearing tree for sec. 18, but destroy bearing trees to the W.

Land rolling.

Soil light sandy loam, some rock in places, 1st and 2nd rate.

Timber scrubby pinon and cedar.

Undergrowth sagebrush.

REPLACEMENT AND RESURVEY

EAST BOUNDARY OF T. 28 S. R. 23 E.

Chains

N.1°56'W. on T. bdy. sec. 18.

Over rolling land, through heavy timber.

2.00 Descend N. slope.

7.18 Small ravine, 20 ft. below cor., drains W.

Ascend S. slope.

8.61 Top of ascent, 30 ft. above ravine.

Thence over nearly level mesa.

14.20 Small wash, drains W.

25.40 Descend steep N. slope into ravine.

26.90 Ravine, 27 ft. below top of ascent, drains W.

Ascend S. slope.

31.80 Small ridge, 22 ft. above ravine, bears NE. and SW.

Descend NW. slope.

34.07 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor. sec. 13, with brass cap marked

S 13 ¼ |

1915

from which

A pinon pine 9 ins. dia., bears S.1°30'W., 51 lks. dist. mkd. ¼ S 13 B T.

A pinon pine 10 ins. dia., bears N.73°30'W., 52 lks. dist. mkd. ¼ S 13 B T.

Cor. falls at N. edge of wash in bottom of ravine, draining SW.

35.40 Ravine, 46 ft. below ridge, drains W.

Ascend S. slope.

35.50 Top of flat ridge, 73 ft. above ravine, bears E. and W.

39.77 Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor. for sec. 18 only, with brass cap marked

| ¼ S 18

1915

from which

A pinon pine 5 ins. dia., bears S.87°30'E.,

Chains

42 lks. dist. mkd. ¼ S 18 B T.

Thence N.0°32'E.

Ascend gently over SW. slope.

34.30 Set an iron post, 3 ft. long, 2 ins. in dia., 26 ins. in the ground for cor. of secs. 12 and 13, with brass cap marked

T 28 S
S 12 | S 13
R 23 E
1915

from which

A pinon pine 8 ins. dia., bears S.59°45'W.,
13 lks. dist. mkd. T 28 S R 23 E S 13 B T.

A pinon pine 10 ins. dia., bears N.27°W.,
27 lks. dist. mkd. T 28 S R 23 E S 12 B T.

39.73 Set an iron post, 3 ft. long, 3 ins. in dia., 26 ins. in the ground for cor. of secs. 7 and 18, with brass cap marked

T 28 S
S 7 | S 18
R 24 E
1915

from which

A pinon pine 12 ins. dia., bears S.63°30'E.,
40 lks. dist. mkd. T 28 S R 24 E S 18 B T.

A pinon pine 9 ins. dia., bears N.55°30'E.,
14 lks. dist. mkd. T 28 S R 24 E S 7 B T.

(Old bearing tree remarked)

Note: Destroy old bearing trees on W.

Corner falls 156 ft. above ¼ sec. cor.

Land rolling mountainous.

Soil sandy loam, very rocky, (sandstone), 3rd and 4th rate.

Timber pinon pine and cedar.

Undergrowth small trees (cedar and pinon pine).

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North along W. bdy. sec. 7.

| Chains | |
|---|---|
| | Over mountainous land, through heavy timber. |
| | Ascend gentle SW. slope. |
| .10 | Small wash drains SW. |
| 10.00 | Ridge 70 ft. above sec. cor., bears E. and W. |
| | Descend gentle N. slope. |
| 11.95 | South wall of small gorge, 60 ft. deep, 50 lks. between walls, course W. Ascend gentle S. slope. |
| 34.57 | Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in the ground for ¼ cor.sec.12, marked on brass cap |
| | S 12 ¼ \| 1915 |
| | from which |
| | A cedar 8 ins. dia., bears S.25°15'W., 22 lks. dist. mkd. ¼ S 12 B T. |
| | A pinon pine 8 ins. dia., bears S.87°30'W., 35 lks. dist. mkd. ¼ S 12 B T. |
| 36.60 | Flat topped ridge, 192 ft. above small gorge, bears E. and W. |
| | Descend gentle N. slope. |
| 40.02 | Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor. for sec. 7 only, with brass cap marked |
| | \| ¼ S 7 1915 |
| | from which |
| | A cedar 15 ins. dia., bears N.48°45'E., 54 lks. dist. mkd. ¼ S 7 B T. (Old tree remarked) |
| | A cedar 10 ins. dia., bears S.76°15'E., 66 lks. dist. mkd. ¼ S 7 B T. |
| | Corner falls 20 ft. below ridge. |
| | Thence |
| | N.0°11'W. |
| 3.78 | Ravine 55 ft. below ¼ sec. cor., drains SW. |
| | Ascend SE. slope. |
| 10.78 | Ravine drains SE. Continue ascent of S. slope. |

| Chains | |
|---|---|
| 29.13 | Long ridge, 150 ft. above ravine, bears E. and W. Descend NW. slope. |
| 34.28 | Ravine 32 ft. below ridge, drains SW. Ascend S. slope, through oak brush. |
| 34.55 | Set an iron post, 3 ft. long, 2 ins. in dia., 26 ins. in the ground for cor. of secs. 1 and 12, with brass cap marked<br>T 28 S<br>S 1 \| S 12<br>R 23 E.<br>1915<br>from which<br>A pinon pine 10 ins. dia., bears S.47°45'W., 21 lks. dist. mkd. T 28 S R 23 E S 12 B T.<br>A pinon pine 7 ins. dia., bears N.68°W., 67 lks. dist. mkd. T 28 S R 23 E S 1 B T. |
| 37.98 | Flat topped ridge, bears E. and W. |
| 40.02 | Set an iron post, 3 ft. long, 3 ins. in dia., 28 ins. in the ground for cor. of secs. 6 and 7, with brass cap marked<br>T 28 S<br>S 6 \| S 7<br>R 24 E<br>1915<br>from which<br>A pinon pine 11 ins. dia., bears N.55°30'E., 56 lks. dist. mkd. T 28 S R 24 E S 6 B T.<br>A pinon pine 6 ins. dia., bears S.21°45'E., 38 lks. dist. mkd. T 28 S R 24 E S 7 B T.<br>(Old bearing trees remarked)<br>Corner falls 67 ft. above ravine.<br>Land rolling mountainous.<br>Soil sandy clay loam, much sandstone, 4th rate.<br>Timber pinon pine and cedar.<br>Undergrowth oak brush and sage. |

RETRACEMENT AND RESURVEY

EAST BOUNDARY OF T. 28 S. R. 23 E.

| Chains | |
|---|---|
| | N.0°15'E. on W. bdy. sec. 6. |
| | Over mountainous land, porphyry formation, through dense cedar and pinon pine and scattering oak, service and buck brush. Ascend. |
| 2.00 | Ridge flat, 10 ft. above cor., bears NE. and SW. Descend. |
| 7.90 | Gulch 75 ft. below ridge, drains S.65°W. |
| | Ascend steep SE. slope. |
| 13.00 | Spur 85 ft. above gulch, projects S.65°W. Descend. |
| 21.00 | Gulch 40 ft. below spur, drains S.65°W. |
| | Ascend gentle SE. slope. |
| 33.50 | Top of W. side of saddle in main ridge, 160 ft. above gulch, bears NE. and SW. |
| | Leave cedar and pinon pine timber bearing E. and W. |
| | Descend. |
| 34.53 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. of sec. 1 only, with brass cap marked |
| | S 1 ¼ \| 1916 |
| | and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| 40.15 | Set an iron post, 3 ft. long, 1 in. in dia., beside old stone, 12 ins. in the ground to ledge, and 14 ins. in a mound of stone 4 ft. base, for ¼ sec. cor. of sec. 6 only, with brass cap marked |
| | ¼ \| S 6 1916. |
| | and raise a mound of stone 2 ft. base, 1½ ft. high E. of cor. |
| | Thence N.0°18'W. |
| 16.10 | Trail from La Sal to Moab, bears NW. and SE. |
| | Enter scattering cedar and pinon pine timber, bearing E. and W. |
| | Re-established the old Tp. cor. as follows: |

RETRACEMENT AND RESURVEY

EAST BOUNDARY OF T. 28 S. R. 23 E.

| Chains | |
|---|---|
| 40.18 | Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground and 12 ins. in a mound of stone 4 ft. base, alongside of old cor. for cor. of Tps. 27 and 28 S., Rs. 23 and 24 E., with brass cap marked<br>T 27 S.<br>R 23 E R 24 E<br>S 36 \| S 31<br>S 1 \| S 6<br>T 28 S<br>1916<br>Old bearing trees are plainly marked and I leave them so. |
| | Land rough and rolling mountainous. |
| | Soil shallow, porphyry formation, stony and sandy loam. |
| | Timber cedar and pinon pine. |
| | Undergrowth buck, sage, oak and service brush. |

RESURVEY

SOUTH BOUNDARY OF T. 28 S. R. 23 E.

| | |
|---|---|
| | From the cor. of Tps. 28 and 29 S., Rs. 23 and 24 E., West bet. secs. 1 and 36, retracing. |
| | Over rolling land, through scattering timber and dense undergrowth of sagebrush. |
| | Ascend gentle NE. slope. |
| 14.00 | Flat ridge, bears NW. and SE., 30 ft. above cor. |
| 18.00 | Enter heavy timber. |
| | Descend SW. slope. |
| 39.90 | Fall 12 lks. N. of the old ¼ sec. cor. which is a sandstone 18x14x3 ins. above ground, marked ¼ on N. face, from which<br>A cedar 3 ins. dia., bears N.84°30'W., 24 lks. dist. mkd. ¼ S 36 B T.<br>A cedar 5 ins. dia., bears S.78°30'W., 22 lks. dist. mkd. ¼ S 1 B T.<br>I re-establish cor. as follows: |
| | Set an iron post 3 ft. long, 1 in. in dia., 30 ins. in the ground, in place of old stone for ¼ sec. cor., with brass cap marked<br>¼ S 36<br>S 1<br>1915 |

| Chains | |
|---|---|
| | Accept old bearing trees. Cor. 154 ft. below ridge. Course of this half mile is therefore S.89°50'W., and the distance 39.90 chs. Thence continue West. |
| 41.88 | Leave timber, thence across open sagebrush flat. |
| 58.80 | Creek, 4 lks. wide, 3 ins. deep, in wash 30 ft. deep, course NW. |
| 79.85 | Fall 29 lks. N. of the cor. of secs.1,2,35 and 36,which is a sandstone 14x12x6 ins. above ground, marked 1 notch on E. and 5 notches on W. edges, with mound of stone W. |
| | I re-establish cor. as follows: |
| | Set an iron post, 3 ft. long, 3 ins. in dia., 28 ins. in the ground in place of old stone, for cor. of secs. 1,2,35 and 36, with brass cap marked |
| | T 28 S R 23 E<br>S 35 \| S 36<br>S 2 \| S 1<br>T 29 S R 23 E<br>1915 |
| | and rebuild mound of stone, 2 ft.base,1½ ft.high W.of cor. |
| | The course of this half mile is therefore S.89°45'W., and the distance 39.95 chs. |
| | Land rolling. |
| | Soil fine, light sandy loam, 1st rate, on flats; on hillside very rocky, 4th rate. |
| | Timber pinon and cedar. |
| | Undergrowth sagebrush. |
| | West bet. secs. 2 and 35, retracing. |
| | Over level sagebrush flat. |
| 1.70 | Coyote creek, 4 lks. wide, 4 ins. deep, in wash about 30 ft. deep, course SW. |
| 11.40 | Old road from Moab to LaSal, bears N.20°E. and S.20°W. |
| 12.00 | Ascend E. slope. |
| | Enter heavy timber. |

RESURVEY

SOUTH BOUNDARY OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| 39.86 | Proportionate point for ¼ sec. cor. |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground and mound of stone, for ¼ sec. cor., with brass cap marked |
| | ¼ S 35 / S 2 / 1915 |
| | from which |
| | A cedar 10 ins. diam. bears N.2°W., 45 lks. dist., marked ¼ S 35 B T. |
| | A cedar 12 ins. diam. bears S.5°E., 16 lks. dist., marked ¼ S 2 B T. |
| | Cor. falls 220 ft. above sec. cor. |
| 40.00 | Find no trace of old ¼ sec. cor. |
| 43.33 | Small ridge, 44 ft. above ¼ sec. cor., bears N. and S. |
| | Descend NW. slope. |
| 47.30 | Rocky wash, 32 ft. below ridge, drains NE. |
| | Ascend SE. slope, over very rocky sandstone ledges. |
| 56.95 | Top of steep ascent; thence over flat top of wide ridge, bearing N. and S., 232 ft. above wash. |
| 76.08 | Descend abrupt SW. slope. |
| 79.72 | Fall 66 lks. S. of the cor. of secs. 2, 3, 34 and 35, which is a porphyry stone, 30 x 12 x 6 ins., set in a mound of stone, marked 2 notches on E. and 4 notches on W. faces, with mound of stone on W. |
| | I re-establish this cor. as follows: |
| | Set an iron post, 3 ft. long, 3 ins. in diam., 30 ins. in a mound of stone, in place of old stone, for cor. of secs. 2, 3, 34 and 35, with brass cap marked |
| | T 28 S \| R 23 E<br>S 34 \| S. 35<br>S 3 \| S 2<br>T 29 S \| R 23 E<br>1915 |
| | and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Cor. 110 ft. below ridge. |
| | The course of this mile is therefore N.89°32'W. and the distance 79.72 chs. |

RESURVEY

SOUTH BOUNDARY OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | Land, mountainous. |
| | Soil of 12.00 chs., light sandy loam, 1st rate; remainder almost all slide rock, 4th rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | West, bet. secs. 3 and 34, retracing. |
| | Over mountainous land, through heavy timber. |
| | Descend rocky SW. slope. |
| 19.40 | Ravine, 270 ft. below sec. cor., drains S. |
| | Ascend rocky SE. slope; enter scattering timber. |
| 39.92 | Intersect the old ¼ sec. cor., which is a porphyry stone, 18 x 14 x 8 ins., firmly set, marked ¼ S 34 on N. face, from which |
| | A cedar (dead) 8 ins. diam. bears N.19°W., 20 lks. dist., marked ¼ S 34 B.T. |
| | Mound of stone on N. |
| | I re-establish this cor. as follows: |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, in place of old stone, for ¼ sec. cor., with brass cap marked |
| | ¼ S 34 / S 3 1915 |
| | Accept old bearing tree. |
| | The course of this half-mile is therefore west and the distance 39.92 chs. Thence continue west along S. slope, through heavy timber. |
| 67.31 | Descend abrupt SW. slope. |
| 79.93 | Fall 14 lks. N. of the cor. of secs. 3, 4, 33 and 34, which is a porphyry stone, 14 x 12 x 5 ins., set in a mound of stone, marked 3 notches on E. and W. edges, with mound of stone on W. |
| | I re-establish this cor. as follows: |
| | Set an iron post, 3 ft. long, 3 ins. in diam., 30 ins. |

RESURVEY

SOUTH BOUNDARY OF T. 28 S. R. 23 E.

Chains

in the ground and mound of stone, in place of old stone, for cor. of secs. 3, 4, 33 and 34, with brass cap marked

T 28 S R 23 E
S 33 | S 34
S 4 | S 3
T 29 S R 23 E
1915

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

Cor. falls 158 ft. below ¼ sec. cor.

The course of this half mile is therefore S.89°48'W. and the distance 40.01 chs.

Land mountainous.

Soil nearly all rock, 4th rate.

Timber cedar and pinon pine.

Undergrowth scattering sagebrush.

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Test bet. secs. 4 and 33, retracing,

Over rolling land, through heavy timber.

Descend rocky SW. slope.

39.61 Fall 12 lks. N. of the old ¼ sec. cor. which is a porphyry stone, 24x8x6 ins. above ground, marked ¼ on N. face, from which

Pinon pine 6 ins. dia., bears N.25°30'W., 23 lks. dist. mkd. ¼ S 33 B T.

Pinon pine 7 ins. dia., bears S.48°W., 42 lks. dist. mkd. ¼ S 4 B T.

I destroy bearing tree on N. and re-establish cor. as follows:

Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground in place of old stone, for ¼ sec. cor. for sec. 4 only, with brass cap marked

¼ S 4
1915

from which

Cedar 6 ins. dia., bears S.31°30'E., 65 lks. dist. mkd. ¼ S 4 B T.

Pinon pine 7 ins. dia., bears S.48°W., 42 lks. dist. mkd. ¼ S 4 B T. (Old B.T. accepted)

Cor. 380 ft. below sec. cor.

Chains

The course of this half mile is therefore S.89°50'W., and the distance 39.61 chs. Thence continue west

40.05 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor. for sec. 33 only, with brass cap marked

¼ S 33

1915

from which

A pinon pine 7 ins. dia., bears N.7°45'W., 44 lks. dist. mkd. ¼ S 33 B T.

A pinon pine 10 ins. diam., bears N.79°15'W., 36 lks. dist. mkd. ¼ S 33 B T.

This ¼ cor. set on line bet. ¼ sec. cor. sec. 4 and cor. of secs. 4, 5, 32 and 33.

Thence over nearly level mesa.

59.55 Leave heavy timber, thence across sagebrush flat.

63.10 Wash, 20 lks. wide, 45 ft. below ¼ sec. cor., drains S.

60.11 Fall 19 lks. S. of the cor. of secs. 4, 5, 32 and 33, which is a porphyry stone, 12x12x8 ins. above ground, marked 4 notches on E. and 2 notches on W. edges, with mound of stone on W.

I re-establish this cor. as follows:

Set an iron post, 3 ft. long, 3 ins. in diam., 28 ins. in the ground, in place of old stone, for cor. of secs. 4, 5, 32 and 33, with brass cap marked

T 28 S R 23 E
S 32 | S 33
S 5 | S 4
T 29 S R 23 E
1915

from which

A pinon pine 30 ins. dia., bears N.60°E., 355 lks. dist. mkd. T 28 S R 23 E S 33 B T.

No other trees within limits; rebuild mound of stone, 3 ft. base, 1½ ft. high W. of cor.

The course of this half mile is therefore N.59°34'W., and the distance 40.50 chs.

Land rolling.

RESURVEY

SOUTH BOUNDARY OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | Soil: E. 60.11chs., very rocky; 4th rate. W. 20.00 chs., light sandy loam; 1st rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | West, bet. secs. 5 and 32, retracing. |
| | Over nearly level sagebrush desert. |
| 32.70 | Road, bears NW. and SE. (Old main road from Moab to Monticello.) |
| 40.00 | Fall 2 lks. S. of the old ¼ sec. cor., which is a red sandstone, 18 x 12 x 6 ins. above ground, marked ¼ on N. face. Pits obliterated. |
| | I re-establish cor. as follows: |
| | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, in place of old stone, for ¼ sec. cor., with brass cap marked |
| | ¼ S 32 / S 5 / 1915 |
| | Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. |
| | The course of this half-mile is therefore N.89°58'W. and the distance 40.00 chs. |
| 80.00 | Fall 3 lks. S. of the old cor. of secs. 5, 6, 31 and 32, which is a porphyry stone, 18 x 12 x 8 ins. above ground, marked 5 notches on E. and 1 notch on W. edges, with mound of stone W. of cor. |
| | I re-establish cor. as follows: |
| | Set an iron post, 3 ft. long, 3 ins. in diam., 28 ins. in the ground, in place of old stone, for cor. of secs. 5, 6, 31 and 32, with brass cap marked |

T 28 S R 23 E
S 31 | S 32
S 6 | S 5
T 29 S R 23 E
1915

RESURVEY

SOUTH BOUNDARY OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | Rebuild mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | The course of this half-mile is therefore N.89°59'W. and the distance 40.00 chs. |
| | Land, nearly level. |
| | Soil, light sandy loam; 1st rate. |
| | Timber, a few scattering cedars and pinon pines. |
| | Undergrowth, sagebrush. |
| | West, bet. secs. 6 and 31, retracing, |
| | Over rolling land, through undergrowth of sagebrush. |
| 2.00 | Enter scattering timber; descend over sandstone ledges, bearing N. and S. |
| 10.16 | Ravine, 30 ft. below sec. cor., drains SW. |
| 40.00 | No trace of old cor.; set temp. ¼ sec. cor. |
| 40.10 | Proportionate distance. |
| | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground and mound of stone, for ¼ sec. cor., with brass cap marked |
| | ¼ S 31 / S 6 / 1915 |
| | from which |
| | A pinon pine 14 ins. diam. bears N.35°E., 220 lks. dist., marked ¼ S 31 B T. |
| | A cedar 16 ins. diam. bears S.1°W., 37 lks. dist., marked ¼ S 6 B T. |
| 79.00 | Intersect the cor. of Tps. 28 and 29 S., Rs. 22 and 23 E., which is a red sandstone 18 x 9 x 6 ins. above ground, marked 6 notches on N., S., E. and W. edges, from which |
| | A cedar 10 ins. diam. bears S.25°E., 72 lks. dist., marked T 29 S R 23 E S 6 B T. |
| | A cedar 4 ins. diam. bears S.15°45'W., 99 lks. dist., marked T 29 S R 22 E S 1 B T. |

SOUTH BOUNDARY OF T. 28 S. R. 23 E.

Chains

Pinon pine 5 ins. dia., bears N.56°30'E.,
70 lks. dist. mkd. T 28 S R 23 E S 31 B T.
Cedar 12 ins. dia., bears N.30°30'W.,
35 lks. dist. mkd. T 28 S R 22 E S 36 B T.

I re-establish cor. as follows:

Set an iron post, 3 ft. long, 3 ins. in diam., 6 ins. in the ground to solid rock, with mound of stone around post, in place of old stone, for cor. of Tps. 28 and 29 S., Rs. 22 and 23 E., with brass cap marked

T 28 S
R 22 E | R 23 E
S 36 | S 31
S 1 | S 6
R 22 E | R 23 E
T 29 S
1915

Accept old bearing trees and

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

Land rolling.

Soil light, sandy loam, some bare sandstone ledges, 1st and 2nd rate.

Timber scattering cedar and pinon pine.

Undergrowth sagebrush.

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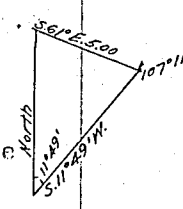
WEST BOUNDARY OF T. 28 S. R. 23 E.

From the cor. of Tps. 28 and 29 S., Rs. 22 and 23 E., described above

North on a random line along the W. bdy. of the Tp., setting temp. ¼ sec. and sec. cors.

287.89 Point below cliff. Set flag. To determine dist. to top of cliff, I triangulate as follows:




From a point on line on top of cliff, I measure a base S.61°E. 5.00 chs. to a point, whence flag bears S.11°49'W., from the flag the E. end of base bears N.11°49'E.

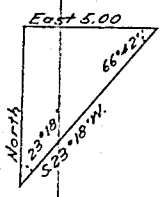
Chains

| | | |
|---|---|---|
| log. 5.00 | = | 0.698970 |
| log sin 107°11' | = | 9.980169 |
| colog sin 11°49' | = | 0.688711 |
| | | 1.367850 = |

23.33 which added to 287.89 =

311.22 Point of triangulation.

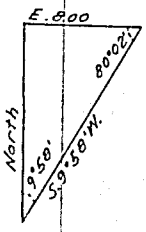
314.58 Top of cliff on S. side of deep canyon. Impossible to chain farther. Set flag here and proceed to point on line below cliff; then measure a base E. 5.00 chs. to a point, whence the flag on line bears S.23°18'W., from the flag the E. end of base bears N.23°18'E., therefore the dist. is tan. 66°42' x 5.00 or 2.32197 x 5.00 = 11.61 chs., which added to 314.58 makes 326.19 to point of triangulation; thence south 2.19 chs. to




324.00 Set temp. witness cor. to cor. of secs. 7, 12, 13 and 18, 4.00 chs. N. of true point for temp. cor.

331.61 Point for triangulation to be used later.

357.36 Temp. point for witness cor. to ¼ sec. cor. at base of sandstone cliff. Impossible to continue chaining, so I proceed to flag at 331.61 ch. point on line, on top of cliff, and triangulate as follows:




Measure a base E. 8.00 chs. to a point, whence the flag bears S.9°58'W., from the flag the E. end of base bears N.9°58'E., therefore the dist. is tan. 80°02' x 8.00 or 5.69064 x 8.00 = 45.53 chs., which added to 331.61 makes

377.14 To point of triangulation on top of cliff.

400.00 Set temp. cor. for secs. 1, 6, 7 and 12.

440.00 Set temp. ¼ sec. cor. for secs. 1 and 6.

486.38 Fall 284 lks. E. of the cor. of Tps. 27 and 28 S., Rs. 22 and 23 E., which is a 3 inch iron post, 6 ins. above ground, marked and witnessed as described by the surveyor general.

Thence

WEST BOUNDARY OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | S.0°20'E., on a true line bet. secs. 1 and 6, |
| | Ascending steep N. slope, over sandstone ledges, on S. side of Cane Springs wash; |
| 3.18 | Top of steep N. slope. Ascend gradually. |
| 40.38 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |
| | S 1 ¼ \| S 6 |
| | 1915 |
| | and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Cor. 840 ft. above Tp. cor. |
| 71.38 | Ridge, 156 ft. above ¼ sec. cor., bears E. and W. |
| | Descend SW. slope, very rocky, over end of high ridge, the main part of which is about 20 chs. E. of line. |
| 86.38 | Set an iron post, 3 ft. long, 3 ins. in diam., 8 ins. in the ground to solid rock, with mound of stone around post, for cor. of secs. 1, 6, 7 and 12, with brass cap marked |
| | T 28 S |
| | R 22 E \| R 23 E |
| | S 1 \| S 6 |
| | S 12 \| S 7 |
| | 1915 |
| | from which |
| | A cedar 5 ins. diam. bears N.43°E., 49 lks. dist., marked T 28 S R 23 E S 6 B T. |
| | A cedar 3 ins. diam. bears S.85°E., 10 lks. dist., marked T 28 S R 23 E S 7 B T. |
| | A cedar 8 ins. diam. bears S.20°W., 31 lks. dist., marked T 28 S R 22 E S 12 B T. |
| | A cedar 5 ins. diam. bears N.51°W., 42 lks. dist., marked T 28 S R 22 E S 1 B T. |
| | Cor. 100 ft. below ridge. |
| | Land, mountainous, very broken. |
| | Soil, nearly all sandstone and porphyry rock; 4th rate. |

WEST BOUNDARY OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | Timber, pinon pine and cedar. |
| | Undergrowth, scattering sagebrush. |
| | S.0°20'E., on a true line bet. secs. 7 and 12, |
| | Descending over steep, rocky S. slope, through scattering timber. |
| 22.86 | Top of cliffs on N. side of canyon, 260 ft. below sec. cor. |
| 40.00 | Point for ¼ sec. cor. falls on cliff. Cor. not set. |
| 42.64 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, witness corner to for the ¼ sec. cor. of sec. 7 and 12, with brass cap marked<br>W C<br>S 12 ¼ \| S 7<br>1915<br>and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Cor. stands at base of sandstone cliff bearing NW. and SE. |
| 48.60 | Deep wash, drains W. |
| 59.25 | Wash, drains W. |
| 68.39 | Triangulation point. |
| 76.00 | Set an iron post, 3 ft. long, 3 ins. in diam., on solid rock, with mound of stone around post, for witness cor. to cor. of secs. 7, 12, 13 and 18, with brass cap marked<br>WC<br>T 28 S<br>R 22 E \| R 23 E<br>S 12 \| S 7<br>S 13 \| S 18<br>1915<br>from which<br>A pinon pine 12 ins. diam. bears N.36°45'E., 194 lks. dist., marked W C T 28 S R 23 E S 7 B T.<br>A pinon pine 12 ins. diam. bears N.12°W., 219 lks. dist., marked W C T 28 S R 22 E S 12 B T. |

| Chains | |
|---|---|
| | and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Cor. 640 ft. below top of cliff. |
| 80.00 | True point for cor. falls on cliff. Cor. not set. |
| | Land, very broken, mountainous, steep and rugged. |
| | Soil, nearly all red sandstone and porphyry rock; 4th rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, scattering sagebrush. |
| | S.0°20'E., on a true line bet. secs. 13 and 18, |
| | Over deep canyon. |
| 5.42 | Triangulation point, on S. side of canyon. |
| | Thence over broken land. |
| 8.78 | Top of cliff, bearing NW. and SE. |
| 20.00 | Base of high red sandstone cliff, bears N.70°W. and S. 70°E. |
| | Thence over level sand flat. |
| 25.90 | Old road, Moab to Monticello, bears N.70°W. and S.70°E. |
| 32.11 | Triangulation point, on sandy flat. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in ground surrounded by a mound of stone, for ¼ sec. cor., with brass cap marked. |
| | S 13 ¼ \| S 18<br>1915 |
| | from which |
| | A pinon pine 8 ins. diam. bears S.52°45'E., 45 lks. dist., marked ¼ S 18 B.T. |
| | A cedar 8 ins. diam. bears S.30°30'W., 26 lks. dist., marked ¼ S 13 B.T. |
| | Cor. stands on small rocky ledge. |
| | Descend rocky S. slope, over small sandstone ledges. |
| 46.00 | Dry creek bed, very crooked, drains S.50°W.; general course W.; 90 ft. below ¼ sec. cor. |
| | Ascend. |

WEST BOUNDARY OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| 67.43 | Top of red sandstone rock, 30 ft. high, extends 50 lks. E. and 50 lks. W. of line. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 28 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, with brass cap marked |

T 28 S
R 22 E | R 23 E
S 13 | S 18
S 24 | S 19
1915

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

Cor. 350 ft. above creek bed.

Land, broken mountainous.

Soil, nearly all rock (red sandstone); 4th rate.

Timber, cedar and pinon pine.

Undergrowth, sagebrush.

---

S.0°20'E., on a true line bet. secs. 19 and 24,

Over open, sandy flat, through scattering timber and sagebrush.

| | |
|---|---|
| 20.65 | Ascend to gently rolling bench. |
| 38.00 | Descend rocky SE. slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

S 24 ¼ | S 19
1915

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

| | |
|---|---|
| 40.40 | Rocky ravine, 25 ft. below top of bench. drains N.30°E. Ascend steep N. slope of rocky spur. |
| 42.24 | Top of small rocky spur, projects W. Descend. |
| 42.70 | Rocky wash, drains NW. Ascend. |
| 50.90 | Top of bench. |
| 60.00 | Descend from bench. Leave scattering and enter heavy |

WEST BOUNDARY OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | timber, bearing NE. and SW. |
| 72.00 | Rocky wash, drains NE. Ascend gradually. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 20 ins. in the ground to solid rock, with mound of stone around post, for cor. of secs. 19, 24, 25 and 30, with brass cap marked |

T 28 S
R 22 E | R 23 E
S 24 | S 19
S 25 | S 30
1915

from which

A pinon pine 14 ins. diam. bears N.29°E., 39 lks. dist., marked T 28 S R 23 E S 19 B T.

A pinon pine 10 in. diam. bears S.32°30'E., 66 lks. dist., marked T 28 S R 23 E S 30 B T.

A cedar 14 ins. diam. bears S.31°W., 52 lks. dist., marked T 28 S R 22 E S 25 B T.

A pinon pine 9 ins. diam. bears N.73°15'W., 90 lks. dist., marked T 28 S R 22 E S 24 B T.

Cor. 68 ft. above wash at 42.70 chs.

Land, rolling and somewhat broken.

Soil, very rocky, coarse red sand; much bare sandstone; 3rd and 4th rate.

Timber, pinon pine and cedar.

Undergrowth, sagebrush.

---

S.0°20'E., on a true line bet. secs. 25 and 30,

Over rolling land, through heavy timber.

Ascend.

| | |
|---|---|
| 12.00 | Leave heavy timber, bearing E. and W.; thence over nearly level sagebrush desert; scattering timber along gentle W. slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

S 25 ¼ | S 30
1915

WEST BOUNDARY OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | from which |
| | A cedar 15 ins. diam. bears S.5°E., 3 lks. dist., marked ¼ S.30 B T. |
| | A pinon pine 30ins. diam. bears S.20°30'W., 122 lks. dist., marked ¼ S 25 B T. |
| | Cor. 65 ft. above sec. cor. |
| 80.00 | Set an iron post, 3 ft. long, 3 ins. in diam., 26 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, with brass cap marked |

T 28 S
R 22 E | R 23 E
S 25 | S 30
S.36 | S 31
1915

| | |
|---|---|
| | from which |
| | A pinon pine 14 ins. diam. bears S.38°45'W., 18 lks. dist., marked T 28 S R 22 E S 36 B T. |
| | No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, nearly level and rolling. |
| | Soil, sandy loam; some bare sandstone; 1st and 2nd rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, sagebrush. |
| | S.0°20'E., on a true line bet. secs. 31 and 36, |
| | Over nearly level sagebrush desert. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

S 36 ¼ | S 31
1915

| | |
|---|---|
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. W. of cor. |
| 80.00 | The cor. of Tps. 28 and 29 S., Rs. 22 and 23 E., described on page 25, this book. |
| | Land, nearly level sagebrush desert. |

WEST BOUNDARY OF T. 28 S., R. 23 E.

Chains

Soil, sandy loam; some bare sandstone; 1st and 2nd rate.

Timber, cedar and pinon pine.

Undergrowth, sagebrush.

---

RESURVEY

SOUTH BOUNDARY OF T. 27 S., R. 23 E.

From the cor. of Tps. 27 and 28 S., Rs. 23 and 24 E., described on page 19, this book,

West, along the S. bdy. of sec. 36, retracing,

Ascending out of W. side of gulch, through juniper and pinon pine timber, and undergrowth of buck brush.

12.30 Irregular spur, 20 ft. above cor., projects N.

18.04 Sandstone and humus.

Descend through juniper and pinon pine timber.

21.00 Wash in gulch, drains from SE. to W.; follow wash to

26.12 Edge of wash, bears NW. and E.; leave wash, drains NW.

31.08 Enter scattering service brush and pinon pine, bearing NW. and SE.

40.12 Fall 26 lks. N. of the old ¼ sec. cor., which is a disintegrated sandstone, 10 x 5 x 6 ins. above ground, marked and witnessed as described by surveyor general.

Re-establish cor. as follows:

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, beside old stone for ¼ sec. cor. for sec. 36 only, with brass cap marked

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

from which

A pinon pine 7 ins. diam. bears N.41°W., 18 lks. dist., marked ¼ S 36 B T.

Destroy marks pertaining to sec. 1.

The course of this half-mile is therefore S.89°38'W. and the distance 40.12 chs.

Continue west from ¼ sec. cor.

Ascend gradually through pinon pine and juniper timber.

RESURVEY

SOUTH BOUNDARY OF T. 27 S., R. 23 E.

| Chains | |
|---|---|
| 7.60 | Trail to Moab, bears N.60°W. and S.60°E: Descend gradually through open sagebrush. |
| 15.00 | Ascend gradually through open sagebrush. |
| 25.00 | Enter sandstone, sandy loam, junipers and sagebrush |
| 31.00 | Enter grove of juniper and pinon pine timber, continuing gradual ascent. |
| 40.14 | Fall 11 lks. N. of the old cor. of secs. 1, 2, 35 and 36, which is a sandstone 6 x 5 x 4 ins. above ground, marked 1 notch on E. and 5 notches on W. edges; destroy marks on old cor. pertaining to secs. 1 and 2, and re-establish cor. as follows: Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground beside old stone for cor. of secs. 35 and 36 only, with brass cap marked T 27 S \| R 23 E / S 35 \| S 36 / 1916 from which A pinon pine 12 ins. diam. bears N.52°E., 68 lks. dist., marked T 27 S R 23 E S 36 B T. A pinon pine 5 ins. diam. bears N.26°W., 16 lks. dist., marked T 27 S R 23 E S 35 B T. The course of this half-mile is therefore S.89°51'W. and the distance 40.14 chs. Land, mountainous. Soil, a mixture of sandy and clay loam. Timber, juniper and pinon pine. Undergrowth, sagebrush. |
| | West, along the S. bdy. of sec. 35, retracing. Ascending gradually through pinon pine and juniper timber and undergrowth of sagebrush. |
| 7.00 | Sandstone outcroppings. |
| 14.00 | Slightly rolling land, sandstone outcroppings, pinon pine and juniper timber. |

RESURVEY

SOUTH BOUNDARY OF T. 27 S., R. 23 E.

| Chains | |
|---|---|
| 20.00 | Top of ascent, 130 ft. above cor., bears N. and S. Sandstone and granite; pinon pine and juniper timber. |
| 30.00 | Descend, over sandstone and granite, through juniper and pinon pine timber. |
| 40.19 | Fall 14 lks. N. of the old ¼ sec. cor., which is a sandstone, 14 x 9 x 5 ins., loosely set in the ground, marked and witnessed as described by the surveyor general. Destroy marks on cor. pertaining to sec. 2, and re-establish cor. as follows: |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground beside old stone for ¼ sec. cor. for sec. 35 only, with brass cap marked |
| | ¼ S 35 / 1916 |
| | from which |
| | A juniper 6 ins. diam. bears N.10°E., 31 lks. dist., marked ¼ S 35 B T. |
| | Cor. 90 ft. below top of ascent. |
| | The course of this half-mile is therefore S.89°48'W. and the distance 40.19 chs. |
| | Continue west from ¼ sec. cor. |
| | Descend over sandstone ledges, through pinon pine and juniper timber. |
| 17.71 | Gulch, 340 ft. below ¼ sec. cor., drains SW. |
| | Ascend over rough sandstone, through juniper and pinon pine. |
| 25.00 | Ridge, 30 ft. above gulch, bears NE. and SW. Descend. |
| 40.18 | Fall 10 lks. N. of the old cor. of secs. 2, 3, 34 and 35, which is a sandstone, 12 x 6 x 6 ins. above ground, properly marked and witnessed. Destroy marks on cor. pertaining to secs. 2 and 3; leave old bearing trees for secs. 34 and 35, and |
| | Set an iron post, 3 ft. long, 3 ins. in diam., 26 ins. in the ground beside old stone for cor. of secs. 34 and 35 only, |

RESURVEY

SOUTH BOUNDARY OF T. 27 S., R. 23 E.

| Chains | |
|---|---|
| | with brass cap marked<br>T 27 S \| R 23 E<br>S 34 \| S 35<br>1916 |
| | Old bearing trees accepted, for secs. 34 and 35. |
| | The course of this half-mile is therefore S.89°51'W. and the distance 40.18 chs. |
| | Land, rolling mountainous. |
| | Soil, rocky, shallow, sandstone and granite formation. |
| | Timber, juniper and pinon pine and cedar. |
| | Undergrowth, sagebrush. |
| | Note: The retracement of the remainder of the S. bdy. of T. 27 S., R. 23 E., agrees with the survey made by Eric H. Anderson in 1911, under Group No. 15, and his courses and distances are accepted. |
| | SUBDIVISION OF T. 28 S., R. 23 E. |
| | From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., heretofore described, |
| | North, on a sectional guide meridian, bet. secs. 35 and 36. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Set temp. sec. cor. |
| | From the cor. of secs. 25 and 36, on the E. bdy. of the Tp., heretofore described, |
| | West, on a sectional correction line, bet. secs. 25 and 36, for distance only. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.85 | Intersect N. and S. line bet. secs. 35 and 36, 71 lks. N. of the temp. cor. At this point |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, with brass cap marked |

SUBDIVISION OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | T 28 S. R 23 E<br>S 26 \| S 25<br>S 35 \| S 36<br>1915 |
| | Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. |
| | From the cor. of secs. 1, 2, 35 and 36, on S. bdy. of Tp., North, on a sectional guide meridian, bet. secs. 35 and 36, |
| | Over level sagebrush flat. |
| 1.14 | Coyote creek, 4 lks. wide, 4 ins. deep, course SW., in wash about 30 ft. deep. |
| 4.60 | Old road, La Sal to Moab, bears E. and W. |
| 5.10 | Ascend S. slope, through heavy timber. |
| 28.23 | Top of rocky ledge, bears NW. and SE., 247 ft. above sec. cor. |
| | Thence over slightly rolling mesa. |
| 37.48 | Cedar, 9 ins. diam. on line. Mark with 2 notches on N. and S. faces. |
| 39.00 | Leave timber; enter sagebrush flat. |
| 40.71 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 35 ¼ \| S 36<br>1915<br>from which<br>A pinon pine 10 ins. diam., bears S.69°30'W., 109 lks. dist., marked ¼ S 35 B T.<br>A cedar 8 ins. diam. bears S.7°E., 209 lks. dist., marked ¼ S 36 B T. |
| | Cor. 260 ft. above sec. cor. |
| | Descend very gradually over gentle N. slope. |
| 80.71 | The cor. of secs. 25, 26, 35 and 36. |
| | Land, rolling. |
| | Soil, south 20.00 chs., very rocky, 3rd rate; remainder, |

| Chains | |
|---|---|
| | light, sandy clay loam, 1st rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | From the cor. of secs. 25 and 36, on the E. bdy. of the Tp., heretofore described. |
| | West, on a true line bet. secs. 25 and 36, |
| | Over nearly level land, through heavy timber. |
| 8.35 | Telephone line, Moab to La Sal, bears NW. and SE. |
| 18.75 | Small wash, drains SW. |
| | Leave heavy and enter scattering timber. |
| 20.10 | Woven wire fence, bears N. and S. |
| 21.20 | Deep wash, drains S. |
| 29.85 | Leave timber. |
| 34.85 | Enter cultivated land. Leave sagebrush. |
| 39.85 | Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 25 / S 36. 1915 |
| | Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. |
| 41.75 | Leave cultivated land, bearing N. and S. |
| 61.65 | Woven wire fence, bears N. and S. |
| 61.85 | Road, bears N. and S. |
| 69.85 | Ascend gentle slope. |
| 79.85 | The cor. of secs. 25, 26, 35 and 36. |
| | Land, nearly level. |
| | Soil; light sandy clay loam; 1st rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, sagebrush. |
| | North, on a sectional guide meridian, bet. secs. 25 and 26, |

| Chains | |
|---|---|
| | Over nearly level sagebrush desert, descending gentle NE. slope. |
| 17.30 | Enter timber, bearing NE. and SW. |
| 19.29 | Small ravine, 65 ft. above sec. cor., drains NW. |
| | Enter more rolling land. |
| 30.00 | Small ravine, drains NW. |
| 33.29 | Enter nearly level mesa. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground and mound of stone, for ¼ sec. cor., with brass cap marked<br>S 26 ¼ \| S 25<br>1915<br>from which<br>A cedar 14 ins. diam. bears S.62°30'W., 44 lks. dist., marked ¼ S 26 B T.<br>A pinon pine 14 ins. diam. bears N.79°30'E., 87 lks. dist., marked ¼ S 25 B T. |
| 40.30 | Leave timber; enter sagebrush. |
| 42.04 | Telephone line, bears NW. and SE. |
| 57.29 | Re-enter scattering timber. |
| | Descend NE. slope. |
| 64.34 | Creek, 2 lks. wide, 3 ins. deep, 110 ft. below ¼ sec. cor., course W. Large spring, head of stream, about 2 chs. E. of line. (Brown's Hole Spring) |
| 65.54 | Road, bears E. and W. |
| | Ascend S. slope. |
| 73.46 | New state road, Moab to La Sal and Monticello, bears N.70°W. and S.70°E. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in the ground and mound of stone, for cor. of secs. 23, 24, 25 and 26, with brass cap marked<br>T 28 S R 23 E<br>S 23 \| S 24<br>S 26 \| S 25<br>1915<br>from which |

| Chains | |
|---|---|
| | A pinon pine 15 ins. diam. bears N.83°E., 90 lks. dist., marked T 28 S R 23 E S 24 B T. |
| | A pinon pine 10 ins. diam. bears S.47°E., 66 lks. dist., marked T 28 S R 23 E S 25 B T. |
| | A pinon pine 8 ins. diam. bears S.7°W., 93 lks. dist., marked T 28 S R 23 E S 26 B T. |
| | A pinon pine 6 ins. diam. bears N.26°45'W., 21 lks. dist., marked T 28 S R 23 E S 23 B T. |
| | Cor. 120 ft. above creek. |
| | Land, rolling and broken. |
| | Soil, on sagebrush flat, light sandy clay loam, 1st rate; remainder, very rocky sand, 2nd and 3rd rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, sagebrush. |
| | East, on a random line bet. secs. 24 and 25. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.13 | Intersect the E. bdy. of the Tp. 17 lks. south of the cor. of secs. 24 and 25, heretofore described. |
| | Thence |
| | S.89°53'W., on a true line bet. secs. 24 and 25, |
| | Over flat top of ridge. |
| 22.33 | Descend slope of ridge, bearing N.70°E. and S.70°W. |
| 38.13 | Ravine, 152 ft. below top of ridge, drains S.20°W. |
| | Ascend. |
| 40.13 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

¼ S 24
S 25
1915

from which

A pinon pine 6 ins. diam. bears N.5°E., 29 lks. dist., marked ¼ S 24 B T.

A pinon pine 10 ins. diam. bears S.50°15'W., 16 lks. dist., marked ¼ S 25 B T.

SUBDIVISION OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | Thence along S. slope of ridge, through heavy timber. |
| 80.13 | The cor. of secs. 23, 24, 25 and 26, 15 ft. above ravine. |
| | Land, rolling mountainous. |
| | Soil, very rocky (sandstone) clay loam; 4th rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, sagebrush. |
| | North, on a sectional guide meridian, bet. secs. 23 and 24. |
| | Over broken land, through heavy timber. Ascend S. slope of ridge. |
| 3.90 | Ridge, 60 ft. above cor., bears E. and W. Descend N. slope. |
| 19.78 | Small ravine, 70 ft. below ridge, drains W. |
| | Thence over level land. |
| 29.78 | Ascend gentle S. slope. |
| 31.78 | Small ridge, bears E. and W. |
| | Descend gentle N. slope. |
| 37.20 | Small ravine, drains W. |
| | Ascend short S. slope. |
| 38.20 | Small ridge, bears E. and W. |
| | Descend NW. slope. |
| 38.80 | New state road, Moab to La Sal, bears N.35°E. and S. 35°W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground and mound of stone, for ¼ sec. cor., with brass cap marked |
| | S 23 ¼ \| S 24<br>1915 |
| | from which |
| | A pinon pine 12 ins. diam. bears S.37°45'E., 27 lks. dist., marked ¼ S 24 B T. |
| | A cedar 6 ins. diam. bears S.32°45'W., 27 lks. dist., marked ¼ S 23 B T. |

| Chains | |
|---|---|
| 40.70 | Large ravine, drains SW. |
| | Ascend S. slope. |
| 41.80 | New state road, bears E. and W. |
| 57.85 | Top of small spur, 140 ft. above ¼ sec. cor., projects W. |
| | Descend NW. slope. |
| 71.75 | Ravine, 105 ft. below spur, drains W. |
| | Ascend SW. slope. |
| 77.75 | Ridge, 25 ft. above ravine, bears NE. and SW. |
| | Descend NW. slope. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in the ground and mound of stone, for cor. of secs. 13, 14, 23 and 24, with brass cap marked |

T 28 S | R 23 E
S. 14 | S 13
S 23 | S 24
1915

from which

A pinon pine 12 ins. diam. bears N.25°30'E., 23. lks. dist., marked T 28 S R 23 E S 13 B T.

A cedar 10 ins. diam. bears S.76°30'E., 14 lks. dist., marked T 28 S R 23 E S 24 B T.

A pinon pine 10 ins. diam. bears S.24°W., 28 lks. dist., marked T 28 S R 23 E S 23 B T.

A cedar 5 ins. diam. bears N.62°W., 28 lks. dist., marked T 28 S R 23 E S 14 B T.

Cor. 15 ft. below ridge.

Land, rolling and somewhat broken.

Soil, very rocky clay loam; 2nd and 3rd rate.

Timbor, cedar and pinon pine.

Undergrowth, scattering sagebrush.

---

N.89°53'E., on a random line bet. secs. 13 and 24.

| | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |
| 80.36 | Intersect the E. bdy. of the Tp. 7 lks. south of the cor. of secs. 13 and 24, heretofore described. |

| Chains | |
|---|---|
| | Thence |
| | S.89°50'W., on a true line bet. secs. 13 and 24, |
| | Descending over rolling land. |
| 40.36 | Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground and mound of stone, for ¼ sec. cor., with brass cap marked |
| | ¼ S 13 / S 24 1915 |
| | from which |
| | A pinon pine 10 ins. diam. bears N.21°W., 73 lks. dist., marked ¼ S 13 B T. |
| | A cedar 6 ins. diam. bears S.8°30'E., 31 lks. dist., marked ¼ S 24 B T. |
| | Cor. 135 ft. below sec. cor. |
| 50.36 | Descend gradually over nearly W. slope of ridge. |
| 60.36 | Run along N. slope. |
| | Descend over NW. slope. |
| 70.36 | Small wash, drains SW. |
| | Thence along top of low, flat ridge. |
| 80.36 | The cor. of secs. 13, 14, 23 and 24, 145 ft. below ¼ sec. cor. |
| | Land, rolling. |
| | Soil, very rocky clay loam; 3rd rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, scattering sagebrush. |
| | North, on a sectional guide meridian, bet. secs. 13 and 14, |
| | Over rolling mountainous land, through heavy timber. |
| | Descend gentle NW. slope. |
| 5.00 | Ravine, 19 ft. below cor., drains W. |
| | Ascend gentle SW. slope. |
| 23.70 | Small spur, 160 ft. above ravine, projects W. |
| | Descend gentle NW. slope. |

| Chains | |
|---|---|
| 28.75 | Ravine, 15 ft. below spur, drains W. |
| | Ascend gentle SE. slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 14 ¼ \| S 13<br>1915<br>from which<br>A pinon pine 7 ins. diam. bears N.38°E., 32 lks. dist., marked ¼ S 13 B T.<br>A pinon pine 5 ins. diam. bears S.3°45'W., 87 lks. dist., marked ¼ S 14 B T. |
| | Cor. 60 ft. above ravine. |
| 44.00 | Ridge, 12 ft. above ¼ sec. cor., bears E. and W. |
| | Descend gentle NW. slope. |
| 48.00 | Ravine, 15 ft. below ridge, drains SW. |
| | Ascend gradual SE. slope. |
| 50.00 | Top of flat ridge, bears E. and W.; thence over level ridge top. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, with brass cap marked<br>T 28 S \| R 23 E<br>S 11 \| S 12<br>S 14 \| S 13<br>1915<br>from which<br>A pinon pine 8 ins. diam. bears N.32°45'E., 52 lks. dist., marked T 28 S R 23 E S 12 B T.<br>A pinon pine 6 ins. diam. bears S.37°15'E., 53 lks. dist., marked T 28 S R 23 E S 13 B T.<br>A pinon pine 8 ins. diam. bears S.22°W., 35 lks. dist., marked T 28 S R 23 E S 14 B T.<br>A pinon pine 8 ins. diam. bears N.62°30'W., 63 lks. dist., marked T 28 S R 23 E S 11 B T. |
| | Land, rolling mountainous. |

| Chains | |
|---|---|
| | Soil, very rocky (sandstone) sandy loam; 3rd rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, small trees and sagebrush. |
| | N.89°50'E., on a random line bet. secs. 12 and 13. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.45 | Intersect the E. bdy. of the Tp. 9 lks. south of the cor. of secs. 12 and 13, heretofore described. |
| | Thence |
| | S.89°46'W., on a true line bet. secs. 12 and 13, |
| | Over level mesa. |
| 9.45 | Small wash, drains S. |
| 19.45 | Descend from mesa, over broken NW. slope. |
| 26.25 | Small gorge, 75 ft. deep, 2 chs. bet. walls, 80 ft. below top of mesa. |
| | Ascend gradual SW. slope. |
| 31.45 | Small ridge, 40 ft. above gorge, bears N. and S. |
| | Descend gentle SW. slope. |
| 39.45 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 12 / S 13 1915 |
| | from which |
| | A pinon pine 7 ins. diam. bears N.38°W., 59 lks. dist., marked ¼ S 12 B T. |
| | A pinon pine 8 ins. diam. bears S.48°15'E., 33 lks. dist., marked ¼ S 13 B T. |
| | Cor. 18 ft. below ridge. |
| 52.45 | Small ravine, 18 ft. below ¼ sec. cor., drains SE. |
| | Ascend gentle NE. slope. |
| 55.45 | Top of ascent. |
| 60.20 | Small wash, drains SW. |
| 73.45 | Small wash, drains SW. |
| | Thence over level mesa. |

| Chains | |
|---|---|
| 79.45 | The cor. of secs. 11, 12, 13 and 14, 20 ft. above ravine. |
| | Land, rolling mountainous, somewhat broken. |
| | Soil, sandy loam with a great deal of sandstone; 3rd and 4th rate. |
| | Timber, pinon and cedar. |
| | Undergrowth, small timber and sagebrush. |
| | North, on a sectional guide meridian, bet. secs. 11 and 12, |
| | Over level mesa, through pinon pine and juniper timber and undergrowth of sagebrush. Descend. |
| 6.00 | Bottom of gulch, 75 ft. below cor., drains SE. |
| | Old corral on line. Ascend. |
| 19.72 | Top of spur, 120 ft. above gulch, projects E. |
| | Descend over rolling land. |
| 27.00 | Bottom of descent, 35 ft. below spur, drains E. Ascend. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

¼

S 11 | S 12

1916

from which

A pinon pine 8 ins. diam. bears N.12°W., 38 lks. dist., marked ¼ S 11 B T.

A pinon pine 7 ins. diam. bears S.41°E., 58 lks. dist., marked ¼ S 12 B T.

| | |
|---|---|
| | Cor. 180 ft. above hollow. |
| | Thence over high, rolling mesa. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, with mound of stone, 4 ft. base, around post, for cor. of secs. 1, 2, 11 and 12, with brass cap marked |

SUBDIVISION OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | T 28 S R 23 E<br>S 2 \| S 1<br>S 11 \| S 12<br>1916 |
| | from which |
| | A juniper 6 ins. diam. bears N.37°40'E., 47 lks. dist., marked T 28 S R 23 E S 1 B T. |
| | A pinon pine 8 ins. diam. bears S.37°10'W., 62 lks. dist., marked T 28 S R 23 E S 11 B T. |
| | A pinon pine 7 ins. diam. bears S.59°18'E., 70 lks. dist., marked T 28 S R 23 E S 12 B T. |
| | A pinon pine 7 ins. diam. bears N.52°35'W., 38 lks. dist., marked T 28 S R 23 E S 2 B T. |
| | Land, rolling mountainous and mesa; general SE. drainage. |
| | Soil, sandy and stony loam, shallow sandstone formation. |
| | Timber, juniper and pinon pine. |
| | Undergrowth, sagebrush. |
| | N.89°46'E. on random line bet. secs. 1 and 12. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.05 | Intersect the E. bdy. of the Tp. 9 lks. north of the cor. of secs. 1 and 12, heretofore described. |
| | Thence |
| | S.89°50'W., on a true line bet. secs. 1 and 12, |
| | Ascending over rolling mountainous land. |
| 11.55 | Spur, 10 ft. above cor., projects S.25°W. |
| | Descend. |
| 26.65 | Canyon, 195 ft. below spur, drains S. |
| 38.05 | Ascend gradual SE. slope, through pines and junipers. |
| 39.05 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |
| | ¼ S 1 / S 12<br>1916 |
| | from which |

Chains

A pinon pine 7 ins. diam. bears N.86°E., 39 lks. dist., marked ¼ S 1 B T.

A pinon pine 9 ins. diam. bears S.49°W., 19 lks. dist., marked ¼ S 12 B T.

17.05 Top of sandstone ridge, 200 ft. above canyon.

Descend over loose sandstone, through grove of pinon pine and junipers.

73.05 The cor. of secs. 1, 2, 11 and 12, 365 ft. below ridge.

Land, rolling mountainous; general drainage to the south.

Soil, sandy loam and rock, shallow, sandstone formation.

Timber, cedar and pinon pine.

Undergrowth, sagebrush.

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Knowing that I will not close on the cor. of secs. 1, 2, 35 and 36 within limit,

North, on a sectional guide meridian, bet. secs. 1 and 2.

Descending gradually, through dense juniper and pinon pine timber.

1.40 Wash, 15 ft. below sec. cor., drains N.65°W.

Ascend gradually.

7.50 Leave dense juniper and pinon; enter sagebrush opening and scattering pinon and juniper, bearing NW. and SE.

Descend gradually.

30.50 Leave sagebrush opening; enter dense juniper and pinon pine, bearing E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, with mound of stone around post, for ¼ sec. cor., with brass cap marked

¼

S 2 | S 1

1916

from which

A cedar 7 ins. diam. bears S.60°E., 95 lks. dist., marked ¼ S 1 B T.

A pinon pine 6 ins. diam. bears S.21°W., 65

| Chains | |
|---|---|
| | 15 lks. dist., marked ¼ S 2 B T. |
| 48.00 | Leave timber; enter sagebrush opening, bearing E. and W. |
| 67.30 | Leave sagebrush opening; enter timber and scattering sagebrush, bearing E. and W. |
| 85.92 | Intersect the N. bdy. of the Tp. 123 lks. N.89°51'E. of the cor. of secs. 35 and 36, heretofore described. |
| | At intersection |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 1 and 2, with brass cap marked |

T 27 S R 23 E
S 36
S 2 | S 1
CC
T 28 S R 23 E
1916

from which

A pinon pine 9 ins. diam. bears S.45°E., 73 lks. dist., marked C C T 28 S R 23 E S 1 B T.

A pinon pine 8 ins. diam. bears S.39°W., 60 lks. dist., marked C C T 28 S R 23 E S 2 B T.

Land, rolling mesa; general NE. slope.

Soil, sandy and loose sandstone, shallow, sandstone formation.

Timber, cedar and pinon pine.

Undergrowth, sagebrush.

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

N.0°01'W., bet. secs. 34 and 35.

| | |
|---|---|
| 40.07 | Set temp. ¼ sec. cor. |
| 80.00 | Set temp. sec. cor. |

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

West, on a sectional correction line, bet. secs. 26 and 35, for distance only.

| | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |

SUBDIVISION OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| 79.78 | Intersect N. and S. line bet. secs. 34 and 35, 7 lks. N. of the temp. cor. At this point |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground and mound of stone, for cor. of secs. 26, 27, 34 and 35, with brass cap marked |
| | T 28 S R 23 E<br>S 27 \| S 26<br>S 34 \| S 35<br>1915 |
| | from which |
| | A pinon pine 5 ins. diam. bears N.33°45'E., 41 lks. dist., marked T 28 S R 23 E S 26 B T. |
| | A cedar 10 ins. diam. bears S.32°E., 24 lks. dist., marked T 28 S R 23 E S 35 B T. |
| | A pinon pine 6 ins. diam. bears S.65°30'W., 26 lks. dist., marked T 28 S R 23 E S 34 B T. |
| | A cedar 5 ins. diam. bears N.40°W., 37 lks. dist., marked T 28 S R 23 E S.27 B T. |
| | From the cor. of secs. 2, 3, 34 and 35, N.0°01'W., on a true line bet. secs. 34 and 35, |
| | Over mountainous land, through heavy timber. Ascend steep, rocky SW. slope. |
| 5.83 | Enter level timbered mesa, 115 ft. above sec. cor. |
| 12.00 | Descend gentle N. slope. |
| 22.20 | Small ravine, 67 ft. below ridge, drains W. Ascend gentle S. slope. |
| 26.00 | Leave slope, 28 ft. above ravine; thence over nearly level mesa. |
| 40.07 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |
| | S 34 ¼ \| S 35<br>1915 |
| | from which |
| | A pinon pine 14 ins. diam. bears S.13°E., 69 lks. dist., marked ¼ S 35 B T. |
| | A pinon pine 14 ins. diam. bears N.85°W., 25 |

SUBDIVISION OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | lks. dist., marked ¼ S 34 B T. |
| 47.34 | Descend NE. slope. |
| 63.15 | Thence along broken W. slope on E. side of rough ravine about 4 chs. W. of line. |
| 80.07 | The cor. of secs. 26, 27, 34 and 35, 325 ft. below ¼ sec. cor. |
| | Land, rolling and broken mountainous. |
| | Soil, very rocky clay loam; 2nd and 3rd rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | From the cor. of secs. 25, 26, 35 and 36 West, on a true line bet. secs. 26 and 35, |
| | Over nearly level sagebrush desert. |
| 18.00 | Enter heavy timber, bearing N. and S. |
| 20.00 | Descend W. slope. |
| 26.80 | Wash, 10 ft. below sec. cor., drains N. |
| | Ascend gentle E. slope. |
| 39.89 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 26 / S 35 1915 |
| | from which |
| | A cedar 5 ins. diam. bears N.6°W., 37 lks. dist., marked ¼ S 26 B T. |
| | A cedar 14 ins. diam. bears S.9°E., 37 lks. dist., marked ¼ S 35 B T. |
| | Cor. 60 ft. above wash. |
| 41.00 | Leave timber; thence across level sagebrush desert. |
| 54.00 | Re-enter heavy timber, bearing N. and S. |
| 61.50 | Descend abruptly over broken W. slope. |
| 79.78 | The cor. of secs. 26, 27, 34 and 35, 267 ft. below mesa. |
| | Land, E. 61.50 chs., nearly level; remainder, steep, broken W. slope. |

| Chains | |
|---|---|
| | Soil, 61.50 chs., light sandy clay loam, 1st rate; remainder, very rocky clay loam, 3rd rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | N.0°01'W., bet. secs. 26 and 27, |
| | Over broken land, through heavy timber. Descend over broken NW. slope. |
| 12.30 | Ravine, 100 ft. below sec. cor., drains N.15°E.; thence along E. slope on W. side of ravine. |
| 15.80 | Same ravine, drains NW. |
| 17.70 | Same ravine, drains NE. |
| 24.70 | Same ravine, drains NW. Ascend SW. slope. |
| 27.00 | Descend gradually over NW. slope on E. side of ravine. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground and mound of stone, for ¼ sec. cor., with brass cap marked<br>S 27, ¼ \| S 26<br>1915<br>from which.<br>A pinon pine 18 ins. diam. bears N.55°45'E., 43 lks. dist., marked ¼ S 26 B T.<br>A pinon pine 6 ins. diam. bears S.76°W., 28 lks. dist., marked ¼ S 27 B T. |
| | Cor. 15 ft. above sec. cor. |
| 50.30 | Small ravine, 75 ft. below ¼ sec. cor., drains W. Ascend S. slope. |
| 68.30 | Low ridge, 145 ft. above ravine, bears E. and W. Descend open N. slope. |
| 74.80 | Wash, 10 lks. wide, 10 ft. deep, 40 ft. below ridge, drains W.; thence over level sagebrush flat. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, with brass cap marked |

SUBDIVISION OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | T 28 S R 23 E<br>S 22 \| S 23<br>S 27 \| S 26<br>1915 |
| | Dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. |
| | Land, badly broken. |
| | Soil, very rocky clay; 4th rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | East, on a random line bet. secs. 23 and 26. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.72 | Intersect N. and S. line 8 lks. N. of the cor. of secs. 23, 24, 25 and 26. |
| | Thence |
| | N.89°57'W., on a true line bet. secs. 23 and 26. |
| | Over level mesa, through heavy timber. |
| 14.32 | New state road, Moab to La Sal, bears NW. and SE. |
| | Leave timber; enter level sagebrush flat. |
| 29.72 | Leave sagebrush; re-enter timber. |
| 30.93 | Descend over W. slope. |
| 39.86 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked |
| | ¼ S 23<br>S 26<br>1915 |
| | from which |
| | A pinon pine 7 ins. diam. bears N.21°W., 83 lks. dist., marked ¼ S 23 B T. |
| | A pinon pine 24 ins. diam. bears S.21°E., 27 lks. dist., marked ¼ S 26 B T. |
| | Cor. 180 ft. below mesa. |
| 42.52 | Telephone line, bears NW. and SE., enter cultivated land. |

| Chains | |
|---|---|
| 45.32 | Road, at bottom of slope, bears N. and S. Log house of W. W. Alred 2 chs. N. of line. Leave timber; |
| 52.22 | Leave cultivated land. |
| 55.42 | Small wash, drains NW. Undergrowth here is very dense, almost impassable, sagebrush and salt brush, 10 ft. high, grown and matted together. |
| | Thence over level sagebrush flat. |
| 79.72 | The cor. of secs. 22, 23, 26 and 27. |
| | Land, mostly level, 16 chs. broken W. slope. |
| | Soil, 16 chs. very rocky clay, 4th rate; remainder light sandy clay loam, 1st rate. |
| | Timber, pinon and cedar. |
| | Undergrowth, sagebrush and salt brush. |
| | N.0°01'W., bet. secs. 22 and 23, |
| | Over level creek bottom land, through dense chico and sagebrush undergrowth. |
| 7.20 | Wash, 8 ft. deep, drains SW. |
| 8.30 | Road, bears E. and W. |
| 14.00 | Wash, 15 ft. deep, drains SW. |
| | Ascend steep rocky SE. slope, through timber. |
| 34.00 | Ridge, 300 ft. above sec. cor., bears E. and W. |
| | Descend gentle NE. slope. |
| 39.40 | Telephone line, Moab to La Sal, bears NW. and SE. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked S 22 ¼ \| S 23 1915 |
| | from which |
| | A pinon pine 20 ins. diam. bears N.71°E., 61 lks. dist., marked ¼ S 23 B T. |
| | A pinon pine 16 ins. diam. bears N.69°30'W., 81 lks. dist., marked ¼ S 22 B T. |
| | Cor. 15 ft. below ridge. |

SUBDIVISION OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| 50.00 | Leave timber, bearing NE. and SW.; enter sagebrush flat. |
| 59.20 | New state road, Moab to La Sal and Monticello, bears NE. and SW. |
| 60.00 | Ascend gradual S. slope, through scattering timber. |
| 75.75 | Top of flat ridge, bears E. and W., 150 ft. above ¼ sec. cor.; thence across top of same. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, with brass cap marked |

T 28 S R 23 E
S 15 | S 14
S 22 | S 23
1915

from which

A pinon pine 5 ins. diam. bears N.43°E., 38 lks. dist., marked T 28 S R 23 E S 14 B T.

A cedar 8 ins. diam. bears S.46°30'E., 43 lks. dist., marked T 28 S R 23 E S 23 B T.

A cedar 14 ins. diam. bears S.56°W., 53 lks. dist., marked T 28 S R 23 E S 22 B T.

A pine 6 ins. diam. bears N.12°W., 28 lks. dist., marked T 28 S R 23 E S 15 B T.

Land, rolling mountainous.

Soil, sandy clay loam, much sandstone; 3rd rate.

Timber, pinon pine and cedar.

Undergrowth, sagebrush and chico.

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| | |
|---|---|
| | S.89°57'E., on a random line bet. secs. 14 and 23. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.94 | Intersect N. and S. line 8 lks. S. of the cor. of secs. 13, 14, 23 and 24. |
| | Thence |
| | West, on a true line bet. secs. 14 and 23, |
| | Descending gentle NW. slope. |
| 4.05 | Small ravine, drains SW. |
| | Ascend gentle SE. slope. |

SUBDIVISION OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| 9.94 | Small spur, projects SW. |
| | Descend gentle SW. slope. |
| 16.94 | Ravine, drains SW. |
| 23.44 | Ascend E. slope. |
| 30.04 | Small ridge, 122 ft. above ravine, bears NE. and SW.; thence over flat top of same. |
| 35.94 | Ascend gentle SW. slope. |
| 39.97 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 14 / S 23 1915 |
| | from which |
| | A cedar 15 ins. diam. bears N.36°30'W., 47 lks. dist., marked ¼ S 14 B T. |
| | A pine 10 ins. diam. bears S.21°E., 13 lks. dist., marked ¼ S 23 B T. |
| | Cor. 75 ft. below ridge. |
| | Thence over gently rolling table land. |
| 51.94 | Small ravine, drains SW. |
| | Ascend gentle SE. slope. |
| 69.94 | Top of flat ridge; thence along top, through heavy pinon pine and cedar timber. |
| 79.94 | The cor. of secs. 14, 15, 22 and 23. |
| | Land, rolling. |
| | Soil, sandy clay loam, much sandstone; 4th rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |

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| | |
|---|---|
| | N.0°01'W., bet. secs. 14 and 15, |
| | Over rolling mountainous land, through heavy timber. Descend rocky N. slope. |
| 11.70 | Wash in bottom of broad ravine, 135 ft. below sec. cor., drains W. Ascend open S. slope; no timber. |
| 23.50 | Top of ascent, 105 ft. above ravine; thence over level |

SUBDIVISION OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | mesa. Re-enter heavy timber, bearing E. and W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor., with brass cap marked<br>S 15 ¼ \| S 14<br>1915<br>from which<br>A pinon pine 5 ins. diam. bears N.74°45'E., 41 lks. dist., marked ¼ S 14 B T.<br>A pinon pine 7 ins. diam. bears S.58'45'W., 43 lks. dist., marked ¼ S 15 B T. |
| 52.00 | Descend N. slope. |
| 58.50 | Wash in bottom of ravine, 55 ft. below ¼ sec. cor., drains SW. Leave timber. Ascend SE. slope. |
| 63.00 | Ridge, 46 ft. above ravine, bears NE. and SW. Re-enter timber, bearing E. and W. Descend short NW. slope. |
| 67.50 | Wash in bottom of ravine, 10 ft. below ridge, drains SW. Leave timber. Ascend short SE. slope. |
| 69.85 | Top of ascent, 25 ft. above ravine; thence over level mesa. Re-enter heavy timber, bearing E. and W. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to solid rock, with mound of stone around post, for cor. of secs. 10, 11, 14 and 15, with brass cap marked<br>T 28 S R 23 E<br>S 10 \| S 11<br>S 15 \| S 14<br>1915<br>from which<br>A pinon pine 5 ins. diam. bears N.38°45'E., 38 lks. dist., marked T 28 S R 23 E S 11 B T.<br>A cedar 5 ins. diam. bears S.28°15'E., 110 lks. dist., marked T 28 S R 23 E S 14 B T.<br>A cedar 6 ins. diam. bears N.36°W., 30 lks. dist., marked T 28 S R 23 E S 10 B T. |

| Chains | |
|---|---|
| | A pinon pine 6 ins. diam. bears S.89°W., 77 lks. dist., marked T 28 S R 23 E S 15 B T. |
| | Land, rolling mountainous. |
| | Soil, very rocky (sandstone) sandy clay loam; 4th rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | East, on a random line bet. secs. 11 and 14. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Intersect N. and S. line 16 lks. N. of the cor. of secs. 11, 12, 13 and 14. |
| | Thence |
| | N.89°53'W., bet. secs. 11 and 14, on a true line, |
| | Over level mesa, through heavy timber. Descend very gradual W. slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor., with brass cap marked ¼ S 11 / S 14 1915 |
| | from which |
| | A pinon pine 9 ins. diam. bears N.32°15'E., 42 lks. dist., marked ¼ S 11 B T. |
| | A pinon pine 9 ins. diam. bears S.23°45'E., 31 lks. dist., marked ¼ S 14 B T. |
| | Cor. 25 ft. below sec. cor. |
| 80.00 | The cor. of secs. 10, 11, 14 and 15, 60 ft. below ¼ sec. cor. |
| | Land, rolling mountainous. |
| | Soil, sandy loam, a great deal of sandstone; 3rd rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush and small trees. |

| Chains | |
|---|---|
| | N.0°01'W., bet. secs. 10 and 11, |
| | Descending gradually over mountainous land, through dense juniper and pine timber; soil, sandy loam. |
| 4.10 | Wash, 30 ft. below sec. cor., drains S.80°W. |
| | Ascend gradually. |
| 9.00 | Spur, 29 lks. above wash, projects W. |
| | Descend gradually. |
| 16.70 | Gully, 40 ft. below spur, drains W. |
| | Ascend gradually. |
| 20.00 | Spur, 15 ft. above gully, projects S.75°W. |
| | Descend gradually. |
| 25.75 | Descend abrupt N. slope into canyon. |
| 30.00 | Bottom of canyon, 175 ft. below spur, drains N.80°W. |
| | Ascend gradually. |
| 31.50 | Point of ridge, 10 ft. above canyon, bears E. and W. |
| | Descend gradually. |
| 32.80 | Canyon, 10 ft. below point of ridge, drains S.80°W. |
| | Ascend steep rocky slope. |
| 38.71 | Point of ledge, 70 ft. above canyon, bears E. and W. |
| | Descend gradually. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked |
| | ¼<br>S 10 \| S 11<br>1915 |
| | from which |
| | A pinon pine 8 ins. diam. bears N.42°E., 43 lks. dist., marked ¼ S 11 B T. |
| | A pinon pine 7 ins. diam. bears S. 2°W., 36 lks. dist., marked ¼ S 10 B T. |
| 44.00 | Gully, 15 ft. below point of ridge, drains S.80°W. |
| | Ascend gradually. |
| 68.00 | Ridge, 60 ft. above gully, bears N.35°E. and S.35°W. |
| | Descend gradually. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. |

| Chains | |
|---|---|
| | in the ground, for cor. of secs. 2, 3, 10 and 11, with brass cap marked<br>T 28 S R 23 E<br>S 3 \| S 2<br>S 10 \| S 11<br>1916<br>from which<br>A cedar 7 ins. diam. bears N.51°E., 69 lks. dist., marked T 28 S R 23 E S 2 B T.<br>A pinon pine 8 ins. diam. bears S.29°E., 50 lks. dist., marked T 28 S R 23 E S 11 B T.<br>A pinon pine 6 ins. diam. bears S.71°W., 50 lks. dist., marked T 28 S R 23 E S 10 B T.<br>A cedar 8 ins. diam. bears N.68°W., 41 lks. dist., marked T 28 S R 23 E S 3 B T.<br>Cor. stands on NE. slope, 15 ft. below ridge.<br>Land, mountainous; drainage to the SW.<br>Soil, rocky and sandy loam; 4th rate.<br>Timber, cedar and pinon pine.<br>Undergrowth, scattering sagebrush. |
| | S.89°53'E. on random line bet. secs. 2 and 11. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.76 | Intersect N. and S. line 5 lks. S. of the cor. of secs. 1, 2, 11 and 12. |
| | Thence |
| | N.89°55'W., on a true line bet. secs. 2 and 11, |
| | Over level mesa, through timber. |
| 1.76 | Small wash, 10 ft. deep, drains S.20°W. |
| 9.76 | Leave timber, bearing E. and W.; enter sagebrush opening. |
| 14.76 | Leave sagebrush opening; enter timber, bearing E. and W. |
| 30.16 | Descend steep W. slope. |
| 39.88 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

| Chains | |
|---|---|
| | $\frac{1}{4}$ $\frac{S\ 2}{S\ 11}$ 1916 |
| | from which |
| | A pinon pine, 9 ins. dia., bears N.17°E., 32 lks. dist., marked $\frac{1}{4}$ S 2 B T. |
| | A pinon pine 6 ins. dia., bears S.53°E., 10 lks. dist., marked $\frac{1}{4}$ S 11 B T. |
| | Cor. stands on steep W. slope, 215 ft. below top of mesa. |
| 43.62 | Canyon, 130 ft. below $\frac{1}{4}$ sec. cor., drains S.40°W. Ascend gradually. |
| 59.76 | Rocky ridge, 195 ft. above canyon, bears N.15°E. and S.15°W. Descend gradually through dense pine and juniper timber. |
| 79.76 | The cor. of secs. 2, 3, 10 and 11, 175 ft. below ridge. |
| | Land, mountainous; general SW. slope. |
| | Soil, rocky and sandy loam, shallow, sandstone formation. |
| | Timber, cedar, pinon pine and juniper. |
| | Undergrowth, sagebrush. |
| | For reasons already explained, |
| | N.0°01'W., bet. secs. 2 and 3, on a true line, |
| | Descending gradually over NE. slope, through dense pinon pine and juniper timber and scattering sagebrush. |
| 5.15 | Canyon, 90 ft. below cor., drains S.80°W. Ascend steep rocky slope. |
| 19.80 | Top of steep slope, 410 ft. above canyon; thence ascend gentle slope. |
| 28.60 | Ridge, 480 ft. above canyon, bears N.50°E. and S.50°W. Descend gradually. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked |

SUBDIVISION OF T. 28 S., R. 23 E.

Chains

$\frac{1}{4}$

S 3 | S 2

1916

from which

A cedar 12 ins. diam. bears S.80°E., 6 lks. dist., marked $\frac{1}{4}$ S 2 B T.

A cedar 7 ins. diam. bears S.68°W., 22 lks. dist., marked $\frac{1}{4}$ S 3 B T.

Cor. stands on NW. slope, 155 ft. below ridge.

59.95 Canyon, 410 ft. below ridge, drains S.50°W.

Ascend abruptly over broken ledges.

82.20 Butte, 140 ft. above canyon.

Descend gradually.

85.70 Intersect the N. bdy. of the Tp. 138 lks. N.89°51'E. of the cor. of secs. 34 and 35, heretofore described.

At intersection

Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for closing cor. of secs. 2 and 3, with brass cap marked

T 27 S R 23 E
S 35

S 3 | S 2
T 28 S | R 23 E

CC
1916

from which

A pinon pine 8 ins. diam. bears S.19°E., 12 lks. dist., marked C C T 28 S R 23 E S 2 B T.

A pinon pine 5 ins. diam. bears S.52°W., 19 lks. dist., marked C C T 28 S R 23 E S 3 B T.

Cor. 15 ft. below butte.

Land, rough mountainous; drainage to the SW.

Soil, rocky and sandy loam, shallow, sandstone formation.

Timber, cedar and pinon pine.

Undergrowth, scattering sagebrush.

| Chains | |
|---|---|
| | From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., heretofore described, |
| | N.0°01'W., bet. secs. 33 and 34. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Set temp. sec. cor. |
| | From the cor. of secs. 26, 27, 34 and 35, |
| | West, on a sectional correction line bet. secs. 27 and 34, for distance only. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.04 | Intersect N. and S. line bet. secs. 33 and 34, 10 lks. N. of the temp. cor. At this point |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, with brass cap marked |

T 28 S R 23 E

| | |
|---|---|
| S 28 | S 27 |
| S 33 | S 34 |

1915

from which

A cedar 9 ins. diam. bears N.70°15'E., 59 lks. dist., marked T 28 S R 23 E S 27 B T.

A pinon pine 12 ins. diam. bears S.43°45'E., 43 lks. dist., marked T 28 S R 23 E S 34 B T.

A pinon pine 18 ins. diam. bears S.71°15'W., 18 lks. dist., marked T 28 S R 23 E S 33 B T.

A cedar 8 ins. diam. bears N.42°15'W., 32 lks. dist., marked T 28 S R 23 E S 28 B T.

| | |
|---|---|
| | From the cor. of secs. 3, 4, 33 and 34, |
| | N.0°01'W., on a true line bet. secs. 33 and 34, |
| | Over mountainous land, through scattering timber; no undergrowth. Ascend rocky S. slope. |
| 12.48 | Ridge, 195 ft. above sec. cor., bears E. and W. |
| | Thence over nearly level mesa, through heavy timber. |
| | Descend very gradual N. slope. |
| 26.90 | Small ravine, 44 ft. below mesa, drains NW. |
| | Ascend short S. slope. |

| Chains | |
|---|---|
| 31.00 | Small ridge, 6 ft. above ravine, bears NW. and SE. Descend long N. slope. |
| 40.10 | Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground and mound of stone, for ¼ sec. cor., with brass cap marked<br>S 33 ¼ \| S 34<br>1915<br>from which<br>A pinon pine 7 ins. diam. bears S.21°E., 81 lks. dist., marked ¼ S 34 B T.<br>A cedar 8 ins. diam. bears S.40°15'W., 60 lks. dist., marked ¼ S 33 B T. |
| 80.10 | The cor. of secs. 27, 28, 33 and 34, 42 ft. below small ridge.<br>Land, broken and rolling.<br>Soil, gray clay loam, much porphyry rock; 4th rate.<br>Timber, cedar and pinon pine.<br>Undergrowth, a little sagebrush. |
| | West, on a true line bet. secs. 27 and 34,<br>Over rolling mountainous land, through cedar and pinon pine timber. Descend NW. slope. |
| 3.19 | Ravine, drains N.<br>Ascend NE. slope. |
| 24.04 | Thence along general N. slope, descending and ascending. No particular ravines nor ridges. |
| 40.02 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>¼ S 27<br>S 34<br>1915<br>from which<br>A pinon pine 8 ins. diam. bears N.54°E., 61 lks. dist., marked ¼ S 27 B T.<br>A pinon pine 8 ins. diam. bears S.38°W., 100 lks. dist., marked ¼ S 34 B T. |

| Chains | |
|---|---|
| 52.89 | Ravine, drains NE. |
| | Ascend gentle SE. slope. |
| 60.04 | Low ridge, 30 ft. above ravine, bears NE. and SW. |
| | Descend NW. slope. |
| 63.04 | Ravine, 40 ft. below ridge, drains N. |
| 66.09 | Ascend NE. slope, over flat top of ridge. |
| 73.04 | Low ridge, 50 ft. above ravine, bears N. and S. |
| | Descend gentle NW. slope. |
| 80.04 | The cor. of secs. 27, 28, 33 and 34, 45 ft. below ridge. |
| | Land, rolling and broken mountainous. |
| | Soil, sandy clay loam, much sandstone; 3rd and 4th rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | N.0°01'W., bet. secs. 27 and 28, |
| | Over rolling land, through heavy pinon pine and cedar timber. Gradual descent to N. |
| 37.22 | Small ravine, drains NE. |
| 38.71 | Same ravine, drains NW. |
| | Continue gradual descent. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked S 28 ¼ \| S 27 1915 |
| | from which |
| | A cedar 6 ins. diam. bears S.56°E., 51 lks. dist., marked ¼ S 27 B T. |
| | A pinon pine 8 ins. diam. bears N.82°W., 88 lks. dist., marked ¼ S 28 B T. |
| | Cor. 180 ft. below sec. cor. |
| 68.60 | Descend abruptly over NE. slope, sandstone slide rock. |
| 74.22 | Enter level sagebrush bench; scattering timber. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. |

Chains

in the ground, for cor. of secs. 21, 22, 27 and 28, with brass cap marked

T 28 S R 23 E
S 21 | S 22
S 28 | S 27
1915

from which

A cedar 5 ins. diam. bears N.78°30'E., 42 lks. dist., marked T.28 S R.23 E S 22 B T.

A pinon pine 8 ins. diam. bears S.51°15'E., 212 lks. dist., marked T 28 S R 23 E S 27 B T.

A pinon pine 11 ins. diam. bears S.10°15'W., 311 lks. dist., marked T 28 S R 23 E S 28 B T.

A pinon pine 14 ins. diam. bears N.47°45'W., 297 lks. dist., marked T 28 S R 23 E S 21 B T.

Cor. 140 ft. below ¼ sec. cor.

Land, rolling and somewhat broken.

Soil, sandy clay loam, with much sandstone rock; 3rd rate.

Timber, pinon pine and cedar.

Undergrowth, sagebrush.

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

40.00 Set temp. ¼ sec. cor.

80.04 Intersect N. and S. line 7 lks. S. of the cor. of secs. 22, 23, 26 and 27.

Thence

S.89°57'W., on a true line bet. secs. 22 and 27,

Over level bottom land, through very dense sagebrush, greasewood and chico undergrowth 8 ft. high.

8.04 Creek, 3 lks. wide, 4 ins. deep, in deep wash, course SW.

9.14 Brush fence at top of bank of creek, bears NE. and SW.; thence through dense sagebrush and greasewood.

11.14 Road, bears NE. and SW.

15.04 Ascend SE. slope, to flat top of spur.

| Chains | |
|---|---|
| 18.24 | Spur, 50 ft. above creek, projects S.; Thence through timber, Descend SE. slope. |
| 26.04 | Bottom of descent; leave timber. |
| 31.29 | Road, bears N.70°W. and S.70°E. |
| 33.69 | Enter wash. |
| 39.19 | Creek, 2 lks. wide, 3 ins. deep, in deep wash, 126 ft. below spur, course N.70°W. Ascend NE. slope. |
| 40.02 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>¼ S 22<br>S 27<br>1915<br>Dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor. |
| 44.24 | Top of NE. slope; enter timber bearing N. and S.; thence along broken N. slope. |
| 46.04 | House (log 14 x 18 ft.) of O. D. Bliss, bears N., 13 chs. dist. |
| 56.65 | Spur, 75 ft. above ¼ sec. cor., projects NW. Descend steep, rocky N. slope. |
| 62.04 | Bottom of slope, 115 ft. below spur; thence over open sagebrush flat, through scattering timber. |
| 80.04 | The cor. of secs. 21, 22, 27 and 28. |
| | Land, mostly broken; some level bottom land. |
| | Soil, along creek bottom, sandy loam, 1st rate; remainder, very rocky clay loam, 3rd and 4th rate. |
| | Timber, pinon pine and cedar; some cottonwoods along creek. |
| | Undergrowth, sagebrush, greasewood and chico. |

---

N.0°01'W., bet. secs. 21 and 22.

Over rolling sagebrush flat, through scattering pinon pine and cedar timber.

Chains

5.85 Road, bears NE. and SW.

12.75 Road, bears E. and W., to O. D. Bliss' lower field.

13.20 Creek, 2 lks. wide, 3 ins. deep, 35 ft. below sec. cor., course W.

Ascend steep S. slope.

25.50 Ridge, 230 ft. above creek, bears E. and W.

Descend broken N. slope.

36.17 Bottom of ravine, 160 ft. below ridge, drains W.

Ascend steep SW. slope.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor., with brass cap marked

S 21 ¼ | S 22

1915

from which

Point on sandstone ledge, 8 ft. high, bears S.87°45'E., 8 lks. dist., marked S 22 ¼ X BO.

A pinon pine 6 ins. diam. bears N.53°W., 7 lks. dist., marked ¼ S 21 B T.

Cor. 55 ft. above ridge.

Continue ascent over broken SW. slope and sandstone ledges; many large sandstone boulders.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to solid rock, with mound of stone around post, for cor. of secs. 15, 16, 21 and 22, with brass cap marked

T 28 S R 23 E
S 16 | S 15
S 21 | S 22

1915

from which

A pinon pine 10 ins. diam. bears N.52°15'E., 115 lks. dist., marked T 28 S R 23 E S 15 B T.

A pinon pine 12 ins. diam. bears S.46°15'E., 61 lks. dist., marked T 28 S R 23 E S 22 B T.

A pinon pine 6 ins. diam. bears S.22°15'W., 47

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| Chains | |
|---|---|
| | 1ks. dist., marked T 28 S R 23 E S 21 B T. |
| | No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Cor. stands on top of high ridge bearing NW. and SE., 310 ft. above ¼ sec. cor. |
| | Land, broken mountainous. |
| | Soil, sandy clay loam, very rocky, much sandstone; 4th rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, sagebrush. |
| | N.89°57'E., on a random line bet. secs. 15 and 22. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.90 | Intersect N. and S. line 14 lks. S. of the cor. of secs. 14, 15, 22 and 23. |
| | Thence |
| | S.89°51'W., on a true line bet. secs. 15 and 22, |
| | Descending over very rocky NW. slope, through heavy timber, and scattering undergrowth. |
| 17.90 | Leave timber, bearing N. and S.; thence across level sagebrush flat. |
| 23.80 | Telephone line, Moab to La Sal, bears NW. and SE. |
| 24.60 | New state road, Moab to La Sal and Monticello, bears N. and S. |
| 39.95 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 15 / S 22 / 1915 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Cor. 170 ft. below sec. cor. |
| | Ascend gentle NE. slope. |
| 41.90 | Low spur, projects N. |
| | Descend broken NW. slope, through sagebrush and scattering timber. |

| Chains | |
|---|---|
| 63.40 | Small arroyo, 160 ft. below ¼ sec. cor., drains NW. |
| | Ascend rocky NE. slope, through heavy timber and scattering undergrowth. |
| 79.90 | The cor. of secs. 15, 16, 21 and 22, 150 ft. above arroyo. |
| | Land, broken and rolling. |
| | Soil, sandy clay loam, much sandstone rock; 3rd and 4th rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, sagebrush. |
| | N.0°01'W., bet. secs. 15 and 16, |
| | Over broken mountainous land, through heavy timber. |
| | Descend broken, rocky NW. slope. |
| 30.80 | Wash in bottom of ravine, 240 ft. below sec. cor., drains N.70°W. |
| | Ascend rocky SW. slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor., with brass cap marked<br>S 16 ¼ \| S 15<br>1915<br>from which<br>A pinon pine 6 ins. diam. bears N.40°45'E., 75 lks. dist., marked ¼ S 15 B T.<br>A pinon pine 10 ins. diam. bears S.73°W., 30 lks. dist., marked ¼ S 16 B T.<br>Cor. 85 ft. above ravine. |
| 50.60 | Top of ascent, bearing NW. and SE.; thence across gently rolling timbered mesa, 190 ft. above ¼ sec. cor. |
| 78.00 | Small ravine, drains NW. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, with brass cap marked |

| Chains | |
|---|---|
| | T 28 S R 23 E<br>S 9 \| S 10<br>S 16 \| S 15<br>1915 |
| | from which |
| | A pinon pine 6 ins. diam. bears N.30°E., 20 lks. dist., marked T 28 S R 23 E S 10 B T. |
| | A pinon pine 7 ins. diam. bears S.80°E., 46 lks. dist., marked T 28 S R 23 E S 15 B T. |
| | A pinon pine 8 ins. diam. bears S.58°W., 53 lks. dist., marked T 28 S R 23 E S 16 B T. |
| | A cedar 14 ins. diam. bears N.45°W., 8 lks. dist., marked T 28 S R 23 E S 9 B T. |
| | Land, broken mountainous. |
| | Soil: South 50.00 chs., nearly all sandstone and porphyry rock, 4th rate; remainder, light sandy clay loam, 2nd rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, sagebrush. |
| | N.89°51'E., on a random line bet. secs. 10 and 15. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.90 | Intersect N. and S. line at the cor. of secs. 10, 11, 14 and 15. |
| | Thence |
| | S.89°51'W., on a true line bet. secs. 10 and 15, |
| | Descending over gentle W. slope, through heavy timber. |
| 33.30 | Ravine, drains SW. |
| | Ascend short SE. slope. |
| 35.90 | Low ridge, bears NE. and SW. |
| | Descend over rolling land. |
| 39.95 | Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor., with brass cap marked<br>¼ S 10<br>S 15<br>1915 |

SUBDIVISION OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | from which |
| | A pinon pine 9 ins. diam. bears N.72°W., 43 lks. dist., marked ¼ S 10 B T. |
| | A cedar 6 ins. diam. bears S.58°15'E., 108 lks. dist., marked ¼ S 15 B T. |
| 59.32 | Telephone line, Moab to La Sal, bears NW. and SE. |
| | Land less rolling from here westward. |
| 62.90 | Leave timber, bearing N. and S.; thence across sagebrush flat. |
| 71.70 | New state road, Moab to La Sal and Monticello, brs. N. and S. |
| 76.90 | Enter heavy timber. |
| 79.90 | The cor. of secs. 9, 10, 15 and 16, 15 ft. below ¼ sec. cor. |
| | Land, rolling mesa. |
| | Soil, very rocky (sandstone and porphyry) clay loam; 4th rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, sagebrush. |
| | N.0°01'W., bet. secs. 9 and 10, |
| | Over broken mountainous land, through scattering timber and undergrowth. |
| 4.80 | Descend abruptly over steep, broken N. slope. |
| 16.80 | Rocky ravine, 265 ft. below sec. cor., drains W. |
| | Ascend steep S. slope, through large sandstone boulders. |
| 17.50 | Telephone line (50 ft. in air), bears NW. and SE. Moab to LaSal. |
| 24.85 | New state road, Moab to La Sal and Monticello, bears NW. and E. |
| 25.80 | Set stake, 105 ft. above ravine. Stop work. |
| | Donald B. Clement. |
| | Thomas C. Rathbone: |
| | Begin at point left by Donald B. Clement. Ascend abruptly over large boulders, through dense pinon pines and junipers and scattering sagebrush; soil, |

| Chains | |
|---|---|
| | very rocky. |
| 30.00 | Ridge, 95 ft. above point, bears N.75°E. and S.75°W. |
| | Descend abrupt NW. slope. |
| 33.53 | Road, Moab to Monticello, bears N.50°E. and S.50°W. |
| 34.00 | Bottom of canyon, 95 ft. below ridge, drains S.60°W. |
| | Ascend abruptly over broken sandstone ledges. |
| 38.90 | Same road, bears N.60°W. and S.60°E. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, with mound of stone around post, for ¼ sec. cor., with brass cap marked |
| | ¼<br>S 9 \| S 10<br>1916 |
| | from which |
| | A juniper 9 ins. diam. bears S.41°E., 12 lks. dist., marked ¼ S 10 B T. |
| | A pinon pine 10 ins. diam. bears S.75°30'W., 89 lks. dist., marked ¼ S 9 B T. |
| | Cor. stands on rocky SE. slope, 65 ft. above canyon. |
| 49.00 | Top of steep slope. Ascend gentle S. slope; soil, sandy loam. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, with brass cap marked |
| | T 28 S \| R 23 E<br>S 4 \| S 3<br>S 9 \| S 10<br>1916 |
| | from which |
| | A pinon pine 7 ins. diam. bears N.70°E., 84 lks. dist., marked T 28 S R 23 E S 3 B T. |
| | A juniper 10 ins. diam. bears S.85°E., 61 lks. dist., marked T 28 S R 23 E S 10 B T. |
| | A juniper 6 ins. diam. bears S.30°W., 48 lks. dist., marked T 28 S R 23 E S 9 B T. |
| | A pinon pine 6 ins. diam. bears N.78°W., 37 |

| Chains | |
|---|---|
| | 1ks. dist., marked T 28 S R 23 E S 4 B T. |
| | Cor. stands on gentle S. slope, 240 ft. above canyon. |
| | Land, rough mountainous; drainage to the SW. |
| | Soil, rocky, sandy loam, loose sandstone, shallow. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, scattering sagebrush. |
| | N.89°51'E. on random line bet. secs. 3 and 10. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Intersect N. and S. line 7 lks. N. of the cor. of secs. 2, 3, 10 and 11. |
| | Thence |
| | S.89°54'W., on a true line bet. secs. 3 and 10, |
| | Descending gradually. |
| 8.10 | Canyon, 205 ft. deep, drains S.40°W. |
| 18.20 | Ascend abruptly. |
| 23.30 | Wash, 15 ft. deep, drains S.15°W. |
| 36.46 | Ravine, drains S.35°W. |
| | Ascend gentle S. slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, with mound of stone around post, for ¼ sec. cor., with brass cap marked ¼ S 3 / S 10 1916 |
| | from which |
| | A cedar 10 ins. diam. bears N.19°W., 46 lks. dist., marked ¼ S 3 B T. |
| | A cedar 5 ins. diam. bears S.66°E., 36 lks. dist., marked ¼ S 10 B T. |
| | Cor. stands on gentle S. slope, 40 ft. above ravine. |
| | Descend gentle slope. |
| 60.50 | Swale, drains S.10°W. |
| 80.00 | The cor. of secs. 3, 4, 9 and 10, 155 ft. below ¼ sec. cor. |
| | Land, mountainous; general SW. drainage. |

| Chains | |
|---|---|
| | Soil, sandy, stony loam, shallow, sandstone formation.<br>Timber, cedar, pinon pine and juniper.<br>Undergrowth, sagebrush. |
| | For reasons already explained,<br>N.0°01'W., bet. secs. 3 and 4, on a true line,<br>Over mesa, through dense pinon pine and cedar timber and undergrowth of sagebrush; soil, sandy loam. |
| 16.00 | Leave mesa; descend abruptly over broken sandstone ledge, bearing E. and W. |
| 23.50 | Canyon, 180 ft. below ledge, drains N.75°W.<br>Ascend gradually. |
| 30.00 | Spur, 20 ft. above canyon, projects N.80°W.<br>Descend gradually. |
| 40.00 | On sandstone ledge, 50 ft. below spur, mark cross (+) and<br>Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in a mound of stone, for ¼ sec. cor., with brass cap marked<br>S 4 \| ¼ S 3<br>1916<br>from which<br>A pinon pine 5 ins. diam. bears N.72°E., 73 lks. dist., marked ¼ S 3 B T.<br>A pinon pine 7 ins. diam. bears S.85°15'E., 38 lks. dist., marked ¼ S 3 B T. |
| 43.50 | Canyon, drains S.80°W.<br>Ascend gradually over sandstone ledges. |
| 50.40 | Top of sandstone ledge, 50 ft. above canyon, bears E. and W. Descend abruptly. |
| 55.00 | Canyon, 125 ft. below ledge, drains N.40°W.<br>Ascend gradually. |
| 80.50 | Spur, 80 ft. above canyon, projects N.75°W.<br>Descend gradually. |

| Chains | |
|---|---|
| 85.82 | Intersect the N. bdy. of the Tp. 165 lks. E. of true point for cor. of secs. 33 and 34, and 146 lks. E. of witness cor. to cor. of secs. 33 and 34, which is a 3-inch iron post, marked and witnessed as described by the surveyor general. At intersection |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in a mound of stone, on sandstone ledge, 30 ft. below spur, on north slope, for closing cor. of secs. 3 and 4, with brass cap marked |
| | T 27 S R 23 E<br>S 34<br>S 4 \| S 3<br>T 28 S \| R 23 E<br>CC<br>1916 |
| | from which |
| | A pinon pine 8 ins. diam. bears S.28°30'E., 46 lks. dist., marked C C T 28 S R 23 E S 3 B T. |
| | A pinon pine 7 ins. diam. bears S.40°W., 92 lks. dist., marked C C T 28 S R 23 E S 4 B T. |
| | Destroy marks on witness cor. and on bearing trees pertaining to secs. 3 and 4; also destroy marks on ¼ sec. cor. bet. secs. 3 and 34 pertaining to sec. 3. |
| | Land, mountainous; drainage to the west. |
| | Soil, rocky (sandstone) loam, shallow and loose. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., heretofore described, |
| | N.0°02'W., bet. secs. 32 and 33. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Set temp. sec. cor. |
| | From the cor. of secs. 27, 28, 33 and 34, |
| | West, on a sectional correction line bet. secs. 28 and 33, for distance only. |
| 40.00 | Set temp. ¼ sec. cor. |

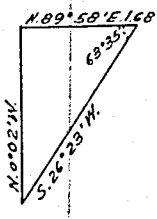
| Chains | |
|---|---|
| 80.20 | Intersect N. and S. line bet. secs. 32 and 33, 2 lks. N. of the temp. cor. At this point |
| | Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in a mound of stone on solid rock, for cor. of secs. 28, 29, 32 and 33, with brass cap marked |
| | T 28 S R 23 E<br>S 29 \| S 28<br>S 32 \| S 33<br>1915 |
| | from which |
| | A pinon pine 8 ins. diam. bears N.67°E., 170 lks. dist., marked T 28 S R 23 E S 28 B T. |
| | A pinon pine 9 ins. diam. bears S.35°30'E., 150 lks. dist., marked T 28 S R 23 E S 33 B T. |
| | A pinon pine 14 ins. diam. bears S.58°15'W., 154 lks. dist., marked T 28 S R 23 E S 32 B T. |
| | A cedar 14 ins. diam. bears N.41°W., 90 lks. dist., marked T 28 S R 23 E S 29 B T. |
| | From the cor. of secs. 4, 5, 32 and 33, |
| | N.0°02'W., on a true line bet. secs. 32 and 33. |
| | Over nearly level sagebrush desert. |
| 22.00 | Enter scattering cedar and pinon pihe timber. |
| | Thence over gently rolling land. |
| | Ascend gentle S. slope. |
| 40.02 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked |
| | S 32 ¼ \| S 33<br>1915 |
| | Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| | Thence over level sagebrush flat. |
| 79.00 | Small ledge of red sandstone; enter scattering timber. |
| 80.02 | The cor. of secs. 28, 29, 32 and 33. |
| | Land, rolling and somewhat broken. |
| | Soil, sandy clay loam, some bare sandstone; 2nd and |

| Chains | |
|---|---|
| | 3rd rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | West, on a sectional correction line bet. secs. 28 and 33. |
| | Descending NW. slope. |
| 4.78 | Small ravine, drains NW. |
| | Ascend NE. slope. |
| 6.70 | Spur, 25 ft. above ravine, projects N. |
| | Descend NW. slope. |
| 14.50 | Small ravine, 105 ft. below spur, drains N. |
| 20.47 | Ascend NE. slope, to flat spur. |
| 25.50 | Flat spur, 25 ft. above ravine, projects NW. |
| | Descend W. slope. |
| 30.40 | Ravine, 40 ft. below spur, drains N. |
| | Ascend E. slope. |
| 32.85 | Ridge, 32 ft. above ravine, bears N. and S. |
| | Descend rocky SW. slope. |
| 40.10 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 28 / S 33 1915 from which |
| | A cedar 7 ins. diam. bears N.85°15'E., 66 lks. dist., marked ¼ S 28 B T. |
| | A pinon pine 9 ins. diam. bears S.8°E., 97 lks. dist., marked ¼ S 33 B T. |
| | Cor. 105 ft. below ridge. |
| 57.22 | Small wash, 110 ft. below ¼ sec. cor., drains N. |
| | Ascend gradual NE. slope. |
| 80.20 | The cor. of secs. 28, 29, 32 and 33, 20 ft. above wash. |
| | Land, rolling. |
| | Soil, sandy clay loam, very rocky; 2nd rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, scattering sagebrush. |

| Chains | |
|---|---|
| | N.0°02'W., bet. secs. 28 and 29, |
| | Over rolling land, through scattering timber and dense sagebrush undergrowth. Descend gentle N. slope. |
| 18.00 | Leave scattering timber; enter sagebrush flat. |
| 31.80 | Old road, little used, bears E. and W. |
| 37.90 | Old road, little used, bears NW. and SE. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>S 29 ¼ \| S 28.<br>1915<br>Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor. |
| | Cor. 80 ft. below sec. cor. |
| | Ascend gentle S. slope. |
| 44.00 | Low ridge, bears E. and W. |
| | Enter scattering timber; thence along broken W. slope on E. side of gulch. |
| 47.80 | Descend broken NW. slope. |
| 64.95 | A pinon pine, 10 ins. diam., on line, marked with two notches on N. and S. faces. |
| 75.61 | Edge of canyon, 165 ft. below ridge, about 100 ft. deep, perpendicular walls of red sandstone, drains W., heads about 1.75 chs. E. of line. Offset as follows:<br>East, 2.00 chs.; then, on offset line:<br>N.0°02'W., 4.39 chs.; then<br>West, 2.00 chs., to |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in a mound of stone on solid rock, for cor. of secs. 20, 21, 28 and 29, with brass cap marked<br>T 28 S R 23 E<br>S 20 \| S 21<br>S 29 \| S 28<br>1915<br>from which<br>A pinon pine 10 ins. diam. bears N.31°E., 58 |

| Chains | |
|---|---|
| | lks. dist., marked T 28 S R 23 E S 21 B T. |
| | A pinon pine 10 ins. diam. bears S.78°30'E., 50 lks. dist., marked T 28 S R 23 E S 28 B T. |
| | A pinon pine 6 ins. diam. bears S.37°30'W., 37 lks. dist., marked T 28 S R 23 E S 29 B T. |
| | A pinon pine 9 ins. diam. bears N.63°45'W., 30 lks. dist., marked T 28 S R 23 E S 20 B T. |
| | Cor. 50 lks. N. of cliff on N. side of canyon. |
| | Land, south 44.00 chs., nearly level sagebrush flat; remainder, badly broken W. and NW. slopes. |
| | Soil, south 44.00 chs., sandy loam, 1st rate; remainder, mostly bare red sandstone, 4th rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush; some shadscale on S. half mile. |
| | East, on a random line bet. secs. 21 and 28. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.06 | Intersect N. and S. line 2 lks. N. of the cor. of secs. 21, 22, 27 and 28. |
| | Thence |
| | N.89°59'W., on a true line bet. secs. 21 and 28, |
| | Ascending over rocky NE. slope, through scattering timber. |
| 2.66 | Old road, little used, bears NE. and SW. |
| 32.96 | Top of rocky NE. slope; leave timber; thence over nearly level land. |
| 40.03 | Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor., with brass cap marked ¼ S 21 / S 28 1915 and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 65.91 | Small sandstone ridge, bears N. and S., 100 ft. above sec. cor. |

| Chains | |
|---|---|
| | Re-enter scattering timber. |
| | Descend SW. slope, over sandstone ledges and broken land. |
| 80.06 | The cor. of secs. 20, 21, 28 and 29, 120 ft. below ridge. |
| | Land, rolling and somewhat broken. |
| | Soil, sandy loam, much sandstone rock; 2nd and 3rd rate. |
| | Timber, pinon pine and cedar. |
| | Undergrowth, sagebrush. |
| | N.0°02'W., bet. secs. 20 and 21, |
| | Over broken mountainous land, through scattering timber and dense sagebrush undergrowth. Ascend rocky SW. slope. |
| 20.60 | Rocky spur, 190 ft. above sec. cor., projects S.70°E. |
| | Descend NE. slope. |
| 38.00 | South wall of canyon. 150 ft. deep, nearly perpendicular, wall of gray sandstone. Impossible to chain. To determine the dist. across I proceed as follows: Set a flag on line, then proceed to a point 1 ch. N.0°02'W. of dry creek in bottom of canyon, from which point I measure a base N.89°58'E.1.68 chs. dist. to point from which flag bears S.26°23'W., from flag the east end of base bears N.26°23'E.; therefore, the dist. is tan. 63°35' x 1.68 chs., or 2.01302 x 1.68 = 3.38 chs., which added to 38.00, makes |
| 41.38 | Bottom of canyon, 320 ft. below ridge. |
| | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for witness cor. to ¼ sec. cor., with brass cap marked |




WC

S 20 ¼ | S 21

1915

from which

A pinon pine 12 ins. diam. bears N.12°E., 151

| Chains | |
|---|---|
| | lks. dist., marked W C ¼ S 21 B T. |
| | A cedar 8 ins. diam. bears N.64°15'W., 23 lks. dist., marked W C ¼ S 20 B T. |
| | Note: True point for ¼ sec. cor. falls on steep cliff. Cor. not set. |
| | Ascend S. slope, over sandstone ledges, through scattering timber. |
| 50.00 | Top of ascent, 230 ft. above creek bottom; thence over nearly level mesa. |
| 53.00 | Leave scattering timber, bearing E. and W.; thence over sagebrush flat. |
| 74.35 | Re-enter scattering timber, bearing NE. and SW. Descend gradual NW. slope into small ravine. |
| 77.00 | Small ravine, 30 ft. deep, drains SW. Ascend gentle SW. slope. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in the ground and mound of stone, for cor. of secs. 16, 17, 20 and 21, with brass cap marked |

T 28 S R 23 E
S 17 | S 16
S 20 | S 21
1915

from which

A cedar 14 ins. diam. bears N.69°E., 42 lks. dist., marked T 28 S R 23 E S 16 B T.

A pinon pine 14 ins. diam. bears S.58°E., 94 lks. dist., marked T 28 S R 23 E S 21 B T.

A pinon pine 9 ins. diam. bears S.76°W., 16 lks. dist., marked T 28 S R 23 E S 20 B T.

A pinon pine 12 ins. diam. bears N.73°W., 140 lks. dist., marked T 28 S R 23 E S 17 B T.

Cor. 25 ft. above ravine.

Land, broken mountainous.

Soil, great deal of bare sandstone, sandy loam, 4th rate.

Timber; cedar and pinon pine.

Undergrowth, sagebrush.

| Chains | |
|---|---|
| | S.89°59'E., on a random line bet. secs. 16 and 21. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.03 | Intersect N. and S. line 14 lks. N. of the cor. of secs. 15, 16, 21 and 22. |
| | Thence |
| | N.89°53'W., on a true line bet. secs. 16 and 21, |
| | Over level top of ridge. |
| 2.58 | Descend from ridge bearing NW. and SE. |
| | Descend gradually over SW. slope, through large sandstone boulders. |
| 40.01½ | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked |
| | ¼ S 16 / S 21 1915 |
| | from which |
| | A pinon pine 6 ins. diam. bears N.67°E., 74 lks. dist., marked ¼ S 16 B T. |
| | A pinon pine 8 ins. diam. bears S.56°W., 20 lks. dist., marked ¼ S 21 B T. |
| | Cor. 275 ft. below ridge. |
| 44.93 | Thence over level flat, 90 ft. below ¼ sec. cor. |
| | Ascend gradual SE. slope. |
| 78.78 | Rocky ridge, bears NE. and SW. |
| | Descend SW. slope. |
| 80.03 | The cor. of secs. 16, 17, 20 and 21, 25 ft. below ridge. |
| | Land, broken mountainous. |
| | Soil, sandy loam, much sandstone and porphyry rock; 4th rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | N.0°02'W., bet. secs. 16 and 17, |
| | Over broken mountainous land, through scattering timber. |

| Chains | |
|---|---|
| | Descend NW. slope, over broken sandstone ledges. |
| 7.70 | Wash in bottom of canyon, 122 ft. below sec. cor., drains SW. Thence across very rocky level land. |
| 11.30 | Sandstone ledge, 40 ft. high, bears NW. and SE. |
| | Ascend through sandstone boulders on S. slope. |
| 24.58 | Top of rocky butte, 250 ft. above wash, bears E. and W. |
| | Descend N. slope over broken ledge and large boulders. |
| 37.09 | Ravine, 100 ft. below ridge, drains E. Ascend gradually over rolling SE. slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

S 17 ¼ | S 16

1915

from which

A pinon pine 14 ins. diam. bears S.50°E., 55 lks. dist., marked ¼ S 16 B T.

A pinon pine 12 ins. diam. bears S.32°W., 90 lks. dist., marked ¼ S 17 B T.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, with brass cap marked

T 28 S R 23 E

S 8 | S 9

S 17 | S 16

1915

from which

A cedar 18 ins. diam. bears N.36°E., 20 lks. dist., marked T 28 S R 23 E S 9 B T.

A pinon pine 5 ins. diam. bears S.69°E., 36 lks. dist., marked T 28 S R 23 E S 16 B T.

A pinon pine 7 ins. diam. bears S.66°W., 32 lks. dist., marked T 28 S R 23 E S 17 B T.

A pinon pine 5 ins. diam. bears N.56°W., 4 lks. dist., marked T 28 S R 23 E S 8 B T.

Cor. 170 ft. above ¼ sec. cor.

| Chains | |
|---|---|
| | Land, broken mountainous. |
| | Soil, sandy loam, nearly all sandstone rock; 4th rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush and greasewood. |
| | S.89°53'E., on a random line bet. secs. 9 and 16. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.88 | Intersect N. and S. line at the cor. of secs. 9, 10, 15 and 16. |
| | Thence |
| | N.89°53'W., on a true line bet. secs. 9 and 16, |
| | Over nearly level mesa. |
| 12.88 | Descend rocky NW. slope. |
| 39.94 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 9 / S 16 1915 |
| | from which |
| | A pinon pine 10 ins. diam. bears S.55°E., 38 lks. dist., marked ¼ S 16 B T. |
| | A pinon pine 9 ins. diam. bears N.70°W., 88 lks. dist., marked ¼ S 9 B T. |
| | Cor. 375 ft. below mesa. |
| 44.58 | Ravine, drains SW. |
| | Ascend gradual SE. slope. |
| 49.88 | Small spur, 35 ft. above ravine, projects S. |
| | Descend gradual NW. slope. |
| 54.48 | Ravine, 20 ft. below spur, drains SW. |
| | Ascend gradual SE. slope. |
| 64.38 | Small spur, 95 ft. above ravine, projects S. |
| | Descend gradual SW. slope. |
| 70.88 | Ravine, 82 ft. below spur, drains SE. |
| | Ascend broken SE. slope. |
| 79.88 | The cor. of secs. 8, 9, 16 and 17, 155 ft. above ravine. |

| Chains | |
|---|---|
| | Land, broken mountainous. |
| | Soil, sandy loam, nearly all rock, many bare red sandstone ledges; 4th rate. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | N.0°02'W., bet. secs. 8 and 9, |
| | Ascending abruptly, through scattering cedar and pinon pine; soil very rocky. |
| 5.46 | Ridge, 80 ft. above cor., bears N.70°W. and S.70°E. |
| | Descend gradually. |
| 18.46 | Canyon, 80 ft. below ridge, drains E. |
| | Ascend abruptly over broken sandstone ledges. |
| 33.00 | Top of level mesa, 310 ft. above canyon, bears E. and W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked<br>¼<br>S 8 \| S 9<br>1916<br>from which<br>A cedar 8 ins. diam. bears S.63°30'E., 94 lks. dist., marked ¼ S 9 B T.<br>A pinon 9 ins. diam. bears N.73°15'W., 20 lks. dist., marked ¼ S 8 B T. |
| 45.00 | Leave timber, enter level sagebrush flat, bearing E. and W. |
| 69.10 | Enter scattering cedar, pinon pine and sagebrush, bearing NE. and W. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, with brass cap marked<br>T 28 S R 23 E<br>S 5 \| S 4<br>S 8 \| S 9<br>1916<br>from which |

| Chains | |
|---|---|
| | A cedar 14 ins. diam. bears N.38°35'E., 73 lks. dist., marked T 28 S R 23 E S 4 B T. |
| | A cedar 10 ins. diam. bears S.48°E., 67 lks. dist., marked T 28 S R 23 E S 9 B T. |
| | A cedar 12 ins. diam. bears S.65°50'W., 50 lks. dist., marked T 28 S R 23 E S 8 B T. |
| | A pinon pine 8 ins. diam. bears N.30°15'W., 78 lks. dist., marked T 28 S R 23 E S 5 B T. |
| | Corner falls on level mesa. |
| | Land, rough mountainous and mesa. |
| | Soil, rocky and loose sandstone on slopes, and sandy loam, shallow, on mesa. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | B.89°53'E. on random line bet. secs. 4 and 9. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.96 | Intersect N. and S. line 16 lk. S. of the cor. of secs. 3, 4, 9 and 10. |
| | Thence |
| | West, on a true line bet. secs. 4 and 9, |
| | Over rolling mesa, through scattering cedar and pinon pine timber. |
| 24.46 | Ravine, 30 ft. deep, drains S.70°W. |
| 39.98 | Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 4 / S 9 / 1916 |
| | from which |
| | A pinon pine, 8 ins. diam. bears N.4°10'W., 39 lks. dist., marked ¼ S 4 B T. |
| | A pinon pine 8 ins. diam. bears S.24°W., 47 lks. dist., marked ¼ S 9 B T. |
| | Cor. stands on gentle NE. slope. |
| 44.36 | Wash, 45 ft. below ¼ sec. cor., drains S.40°W. |
| | Ascend gradually to |

| Chains | |
|---|---|
| 53.96 | Top of ascent. |
| 64.36 | Telephone line, bears N.35°W. and S.35°E. Moab to La Sal. |
| 65.06 | Leave timber, bearing NE. and SW. |
| 74.36 | Re-enter timber, bearing N. and S. |
| 74.56 | Road, Moab to Monticello, bears N.40°E. and S.40°W. |
| 79.96 | The cor. of secs. 4, 5, 8 and 9. |
| | Land, mountainous, mesa, general S. slope. |
| | Soil, dry sandy loam on sandstone subsoil, shallow. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |

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For reasons already explained,

N.0°02'W., bet. secs. 4 and 5, on a true line,

Descending over gentle N. slope, through scattering pine and cedar timber and undergrowth of sagebrush.

| | |
|---|---|
| 6.85 | Road, Moab to Monticello, bears N.35°W. and S.35°E. |
| 15.20 | Telephone line, bears N.40°W. and S.40°E. Moab to La Sal. |
| 34.55 | Top of ledge, 45 ft. below cor.; descend abruptly from mesa, bearing NW. and SE. |
| 35.65 | Road, Moab to Monticello, bears N.80°E. and S.80°W. |
| 38.00 | Small wash, drains W. |
| | Descend gradually. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |

¼

S 5 | S 4

1916

from which

A pinon pine 10 ins. diam. bears N.37°10'E., 65 lks. dist., marked ¼ S 4 B T.

A pinon pine 7 ins. diam. bears S.66°15'W., 34 lks. dist., marked ¼ S 5 B T.

Cor. on N. slope, 210 ft. below ledge.

| | |
|---|---|
| 70.80 | Wash, 210 ft. below ¼ sec. cor., drains NW. |
| | Ascend gradually. |

| Chains | |
|---|---|
| 80.25 | Road, Moab to Monticello, bears N.60°W. and S.60°E. |
| 83.80 | Spur, 50 ft. above wash, drains W. Descend gradually. |
| 85.76 | Intersect the N. bdy. of the Tp. 155 lks. E. of angle point, which is a 3 inch iron post, marked |

A.P.
Sec.5
T 28 S R 23 E
1916

This point was thus marked by me when retracing the S. bdy. of T. 27 S. R. 23 E. and bearing trees were changed to read T 28 S R 23 E Sec 5 A P B T. The marks on the ¼ sec. cor. bet. secs. 4 and 33 were changed to read for sec. 33 only. Left pipe marked

¼ 33
1911

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

T 27 S R 23 E
S 33
S 5 | S 4
T 28 S | R 23 E
CC
1916

from which

A pinon pine 5 ins. dia., bears S.60°E., 31 lks. dist. mkd. CC T 28 S R 23 E S 4 B T.

A pinon pine 6 ins. dia., bears S.34°30'W., 97 lks. dist. mkd. CC T 28 S R 23 E S 5 B T.

Cor. stands on N. slope, 20 ft. below spur.

Land rough mountainous, general NW. drainage.

Soil rocky and sandy loam and loose sandstone.

Timber cedar and pinon pine.

Undergrowth sagebrush.

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From the cor. of secs. 28, 29, 32 and 33

West on a sectional correction line bet. secs. 29 and 32.

| | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Set temp. sec. cor. |

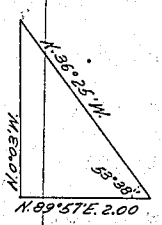
Chains

From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., heretofore described,

N.0°03'W. bet. secs. 31 and 32, for distance only.

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

62.79 From this point I triangulate to top of perpendicular red sandstone cliff as follows:




Set a flag on top of cliff; then from point measure a base N.89°57'E., 2.00 chs. to a point from which the flag bears N.36°25'W., from the flag the E. end of base bears S.36°25'E., therefore the dist. to top of cliff is tan. 53°38' x 2.00 chs., or 1.35802 x 2.00 = 2.72 chs., which added to 62.79 makes 65.51.

79.94 Intersect E. and W. line bet. secs. 29 and 32, 10 lks. E. of the temp. cor. At this point

Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, with brass cap marked

T 28 S R 23 E
S 30 | S 29
S 31 | S 32
1915

from which

A pinon pine 19 ins. diam., bears N.47°E., 289 lks. dist., marked T 28 S R 23 E S 29 B T.

A cedar 15 ins. diam., bears S.60°30'E., 21 lks. dist. marked T 28 S R 23 E S 32 B T.

A pinon pine 18 ins. diam., bears S.67°45'W., 123 lks. dist., marked T 28 S R 23 E S 31 B T.

A cedar 24 ins. diam., bears N.85°45'W., 96 lks. dist. marked T 28 S R 23 E S 30 B T.

From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp.,

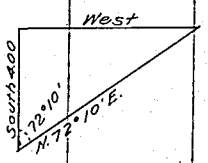
N.0°03'W. bet. secs. 31 and 32.

Over nearly level sagebrush desert.

39.94 Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

| Chains | |
|---|---|
| | S 31 $\frac{1}{4}$ \| S 32 |
| | 1915 |
| | Dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. |
| 45.65 | Old road, Moab to Monticello, bears NW. and SE. |
| 65.51 | Top of sandstone cliff. |
| | Continue ascent over sandstone ledges. |
| 69.55 | Top of sandstone ridge, 160 ft. above plain, bears NW. and SE. |
| | Descend NE. slope, through scattering timber. |
| 77.35 | Small wash, drains NE. Enter small basin, 115 ft. below ridge. |
| 79.94 | The cor. of secs. 29, 30, 31 and 32. |
| | Land south 62.00 chs., sagebrush desert; remainder broken sandstone ledges. |
| | Soil 62.00 chs., sandy loam, 1st rate, remainder mostly bare red sandstone and coarse red sand, 4th rate. |
| | Timber pinon pine and cedar. |
| | Undergrowth sagebrush. |
| | From the cor. of secs. 28, 29, 32 and 33 |
| | West on a sectional correction line bet. secs. 29 and 32. |
| | Over nearly level sagebrush flat. |
| 22.00 | Enter scattering timber, bearing N. and S. |
| 39.95 | Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap marked |
| | $\frac{1}{4}$ S 29 |
| | S 32 |
| | 1915 |
| | Dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. |
| 59.60 | Small ravine, drains N. |
| 78.10 | Small wash drains N. |

| Chains | |
|---|---|
| 79.90 | The cor. of secs. 29, 30, 31 and 32. |
| | Land nearly level. |
| | Soil red sandy loam, some bare red sandstone, 1st and 2nd rate. |
| | Timber scattering pinon pine and cedar. |
| | Undergrowth, sagebrush. |
| | West on a true line bet. secs. 30 and 31. |
| | Over broken mountainous land, through scattering timber and sagebrush, across small level basin. |
| 6.00 | Ascend abruptly over sandstone ledges. |
| 9.93 | Top of sandstone ridge, 124 ft. above sec. cor., bears N. and S., and top of perpendicular red sandstone cliff, faces W. Set flag here and proceed to flat below ridge. Set instrument in line W. of flag and measure a base south 4.00 chs. to a point, from which flag bears N.72°10'E., from the flag the S. end of base bears S.72° 10'W., therefore the dist. is tan. 72°10' x 4.00 or 3.10842 x 4.00 = 12.43 chs., which added to 9.93 makes |
| 22.36 | Sagebrush flat, 250 ft. below top of cliff. Thence over nearly level sagebrush desert. |
| 24.10 | Old road, Moab to Monticello, bears N. and S. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground for $\frac{1}{4}$ sec. cor. with brass cap marked |
| | $\frac{1}{4}$ S 30 |
| | S 31<br>1915 |
| | Dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist. and raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. |
| 79.37 | Intersect W. bdy. of Tp. at the cor. of secs. 25, 30, 31 and 36, heretofore described. |
| | Land 24.00 chs. broken mountainous, remainder level sagebrush desert. |
| | Soil 24.00 chs. nearly all bare red sandstone, 4th |



| Chains | |
|---|---|
| | rate; remainder, sandy loam, 1st rate. |
| | Timber cedar and pinon pine. |
| | Undergrowth sagebrush. |
| | N.0°03'W. bet. secs. 29 and 30. |
| | Over broken land, through scattering timber. |
| 9.40 | Ascend SE. slope of bare red sandstone over N. end of sandstone ridge. |
| 17.05 | Sandstone ridge, 125 ft. above sec. cor., bears NE. and SW. |
| | Descend over NE. slope, red sand soil. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 28 ins. in the ground, for ¼ sec. cor. with brass cap marked<br>S 30 ¼ \| S 29<br>1915<br>from which<br>A pinon pine 6 ins. dia., bears N.45°E., 19 lks. dist. mkd. ¼ S 29 B T.<br>A pinon pine 8 ins. dia., bears S.86°W., 78 lks. dist. mkd. ¼ S 30 B T. |
| | Corner 155 ft. below ridge. |
| 49.20 | Old road bears E. and W. |
| 63.90 | Descend NE. slope over sandstone ledges. |
| 78.00 | Shallow gulch, 165 ft. below ¼ sec. cor., drains N.20°E. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 30 ins. in the ground for cor. of secs. 19, 20, 29 and 30, with brass cap marked<br>T 28 S R 23 E<br>S 19 \| S 20<br>S 30 \| S 29<br>1915 |

Chains

from which

A pinon pine 22 ins. dia., bears N.41°15'E., 7 lks. dist. marked T 28 S R 23 E S 20 B T.

A pinon pine 14 ins. dia., bears S.29°E., 40 lks. dist. mkd. T 28 S R 23 E S 29 B T.

A pinon pine 12 ins. dia., bears S.20°15'W., 100 lks. dist. mkd. T 28 S R 23 E S 30 B T.

A pinon pine 15 ins. dia., bears N.22°W., 200 lks. dist. mkd. T 28 S R 23 E S 19 B T.

Corner in small sandy pocket; cliffs bearing E., S. and N.

Land rolling and broken mountainous.

Soil very rocky, coarse red sand, much bare red sandstone, 4th rate.

Timber pinon pine and cedar.

Undergrowth sagebrush.

---

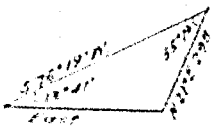
East on a random line bet. secs. 20 and 29.

40.00 Set temp. ¼ sec. cor.

48.18 W. edge of canyon. Impossible to chain across.

To determine dist. I proceed as follows:

Set a flag on line on east edge, from which I measure a base N.21°E., 2.98 chs. to a point, from which the flag on west edge bears S.76°19'W., from the flag the N. end of base bears N.76°19'E., therefore the dist. is



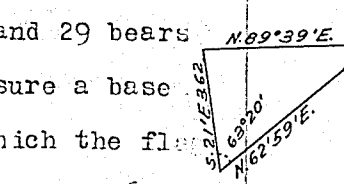
$$\frac{\sin 55°19' \times 2.98}{\sin 13°41'}$$

| | | |
|---|---|---|
| log sin 55°19' | = | 9.915035 |
| log sin 13°41' | = | 9.373933 |
| | | .541102 |
| log. 2.98 | = | .474216 |
| | | 1.015318 |

equals 10.36 chs., which added to 48.18 makes 58.54 chs.

58.54 East edge of canyon. Thence across level, rocky, timbered plateau.

| Chains | |
|---|---|
| 72.82 | W. edge of canyon. Impossible to chain farther. To determine distance I proceed as follows: |
| | From this point cor. of secs. 20, 21, 28 and 29 bears N.89°39'E. From point on W. edge I measure a base S.0°21'E., 3.62 chs. to a point, from which the fla[illegible] at the cor. of secs. 20, 21, 28 and 29 bears N.62°59' E.; from the cor. the S. end of base bears S.62°59'W.; therefore, the dist. is tan. 63°20' x 3.62 chs., or 1.99116 x 3.62 = 7.21 chs. From triangulation point I continue east 7.21 chs., which added to 72.82 - |
| 80.03 | Intersect N. and S. line 11 lks. S. of the cor. of secs. 20, 21, 28 and 29. |
| | Thence |
| | S.89°55'W., on a true line bet. secs. 20 and 29, |
| | Over rough mountainous land, across canyon, 100 ft. deep, draining N.70°W.; perpendicular walls of red sandstone. |
| 7.31 | W. edge of canyon. Thence across level, rocky, timbered plateau. |
| 21.59 | E. edge of canyon, 250 ft. deep, perpendicular walls of red sandstone; canyon drains NE., heads 15 chs. SW. |
| 31.85 | W. edge of canyon. |
| 40.01½ | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |
| | ¼ S 20 / S 29 / 1915 |
| | from which |
| | A cedar 12 ins. diam. bears N.14°15'E., 111 lks. dist., marked ¼ S 20 B T. |
| | A pinon pine 10 ins. diam. bears S.11°15'E., 56 lks. dist., marked ¼ S 29 B T. |
| | Ascend NE. slope, over broken sandstone ledges. |
| 45.03 | Small ridge, bears N. and S. |
| | Descend over small sandstone ledges, bearing N. and S. |



SUBDIVISION OF T. 2[illegible] S., R. 23 E.

[illegible]

[illegible] Thence across open sagebrush mesa, sandy. Leave timber bearing N. and S.

[illegible] Descend broken SE. slope over sandstone ledges.

[illegible] Shallow wash, drains S.

[illegible] The cor. of secs. 19, 20, 29 and 30.

Land, broken mountainous.

Soil, very rocky (sandstone) red sand, much bare red sandstone; 4th rate.

Timber, cedar and pinon pine.

Undergrowth, sagebrush.

---

Dist. on a random line bet. secs. 19 and 30.

[illegible] Set temp. ¼ sec. cor.

[illegible] Intersect W. bdy. of Tp. 2 lks. S. of the cor. of secs. 19, 24, 25 and 30, heretofore described.

Thence

S.89°59'E., on a true line bet. secs. 19 and 30.

Over rolling land, through heavy timber.

[illegible] Low flat ridge, bears N. and S., 50 ft. above sec. cor. Timber very scattering from here.

[illegible] Descend over rocky NE. slope.

[illegible] Ravine, 65 ft. below ridge, drains S.

Ascend NE. slope.

[illegible] Low ridge, 60 ft. above ravine, bears N. and S.

Descend very gradual N. slope.

[illegible] Old road, Moab to Monticello, bears N. and S.

[illegible] Set an iron post, 3 ft. long, 1 in. in diam., on solid rock, 30 ins. in a mound of stone, for ¼ sec. cor., with brass cap marked

¼ S 19
———
S 30
1915

from which

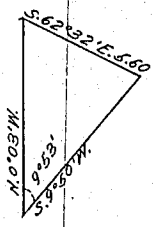
A pinon pine 15 ins. diam. bears N.46°15'W., 261 lks. dist., marked A S 30 S T.

B cedar [illegible] ins. diam. bears N.65°45'W., 11[illegible] lks. dist., marked ¼ S 19 S T.

| Chains | |
|---|---|
| 44.45 | Small wash, drains N. |
| 49.85 | Small wash, drains NW. |
| 59.05 | Old road, branch of Moab-Monticello road, bears N. and S. |
| 60.85 | Enter heavy timber, bearing N. and S. |
| 68.85 | Ascend gentle W. slope. |
| 71.56 | Sandy ridge bears N. and S. Descend into small sandy pocket, almost surrounded by cliffs. |
| 79.77 | The cor. of secs. 19, 20, 29 and 30. |
| | Land rolling. |
| | Soil coarse red sand, much bare sandstone, 4th rate. |
| | Timber pinon pine and cedar. |
| | Undergrowth sagebrush. |
| | N.0°03'W. bet. secs. 19 and 20. |
| | Over broken mountainous land, through scattering timber and undergrowth. |
| 2.20 | Shallow wash drains NW. |
| | Ascend S. slope over bare red sandstone ledges. |
| 7.20 | Top of ascent, 135 ft. above sec. cor. |
| | Thence over nearly level sandy bench, through scattering timber and sagebrush. |
| 32.00 | Descend N. slope, 60 ft. to |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 8 ins. in the ground to solid rock, with mound of stone around post for ¼ sec. cor., with brass cap marked |
| | S 19 ¼ \| S 20<br>1915 |
| | from which |
| | A pinon pine 18 ins. dia., bears N.69°45'E., 47 lks. dist. mkd. ¼ S 20 B T. |
| | A pinon pine 8 ins. dia., bears S.27°15'W., 47 lks. dist. mkd. ¼ S19 B T. |
| 46.75 | Edge of canyon, 65 ft. below ¼ sec. cor., perpendicular walls of red sandstone, 300 ft. high. Impossible to |

Chains

chain farther. Set a flag on line and proceed to top of cliff on N. side, from which I measure a base S.62°32'E. 5.60 chs. to a point, from which the flag bears S.9°50'W., from the flag the east end of base bears N.9°50'E., therefore the dist. is




log.sin 107°38' = 9.979737
log.sin 9°53' = 9.234625
.745112
log. 5.60 = .748188
1.493300 =

31.14, distance across canyon, which added to 46.75 makes

77.89 Top of red sandstone cliffs on N. side of canyon. Thence over sandy bench.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, with brass cap marked

T 28 S R 23 E
S 18 | S 17
S 19 | S 20
1915

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

Land broken mountainous.

Soil very sandy loam, much bare sandstone and all very rocky, 2nd, 3rd and 4th rate.

Timber cedar and pinon pine.

Undergrowth sagebrush.

Good grass on bench on S. side of canyon.

---

N.89°55'E. on a random line bet. secs. 17 and 20.

40.00 Set temp. ¼ sec. cor.

80.05 Intersect N. and S. line at the cor. of secs. 16, 17, 20 and 21.

Thence

S.89°55'W. on a true line bet. secs. 17 and 20.

| Chains | |
|---|---|
| | Descending NW. slope, over sandstone ledges. |
| 6.80 | Wash, in bottom of canyon, drains SW. |
| | Ascend broken SE. slope. |
| 21.05 | Low saddle, 130 ft. above wash, bears N. and S. |
| | Descend gentle NW. slope. |
| 29.55 | Small ravine, 35 ft. below saddle, drains SW. |
| | Ascend SE. slope. |
| 40.02½ | Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor., with brass cap marked |

$$\frac{\frac{1}{4}\ S\ 17}{S\ 20}$$
1915

from which

A pinon pine 8 ins. diam. bears S.15°15'W., 95 lks. dist., marked ¼ S 20 B T.

A pinon pine 9 ins. diam. bears N.32°45'W., 53 lks. dist., marked ¼ S 17 B T.

Cor. 50 ft. above ravine.

| | |
|---|---|
| 55.05 | Spur of small ridge, 100 ft. above ¼ sec. cor., projects S. |
| 58.45 | Small arroyo, drains S. Leave heavy and enter scattering timber. Thence over nearly level bench. |
| 80.05 | The cor. of secs. 17, 18, 19 and 20. |

Land, rolling and broken mountainous.

Soil, 20.00 chs., light sandy loam, 1st rate; remainder red sandstone and coarse red sand, 4th rate.

Timber, pinon pine and cedar.

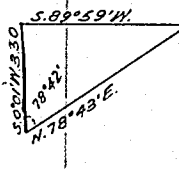
Undergrowth, sagebrush.

Good growth of grass on W. 20.00 chs.

---

N.89°59'W., on a random line bet. secs. 18 and 19.

| | |
|---|---|
| 4.02 | Top of sandstone cliff. Impossible to chain farther. Set a flag on line and proceed to a point at base of cliff, from which I measure a base S.0°01'W., 3.30 |



Chains

chs. to a point, from which the flag bears N.78°43'E.; from the flag the S. end of base bears S.78°43'W.; therefore the distance is tan. 78°42' x 3.30 chs., or 5.00451 x 3.30 = 16.51, which added to 4.02, makes.

20.53 Point of triangulation.

40.00 Set temp. ¼ sec. cor.

80.39 Intersect the W. bdy. of the Tp. 4 lks. N. of the cor. of secs. 13, 18, 19 and 24, heretofore described.

Thence

N.89°59'E., on a true line bet. secs. 18 and 19,

Descending over gentle NE. slope.

26.19 Ravine, drains N.; rocky and broken. "Mormon Tanks," large natural rock(holes contain water) about 2 chs. N. in the ravine.

Ascend over rolling plains and SW. slope.

31.39 Old road, Moab to Monticello, bears NW. and SE.

33.89 Bare, smooth sandstone spur, 110 ft. above ravine, projects NW. End of spur 50 lks. NW. of line.

Descend NE. slope.

37.39 Small ravine, 85 ft. below spur, drains NW.

Ascend short SW. slope.

38.69 Small spur, 15 ft. above ravine, projects NW.

Descend NE. slope.

40.39 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor., with brass cap marked

¼ S 18
S 19
1915

from which

A pinon pine 14 ins. diam. bears S.59°30'E., 110 lks. dist., marked ¼ S 19 B T.

A pinon pine 12 ins. diam. bears N.21°30'E., 37 lks. dist., marked ¼ S 18 B T.

Cor. 25 ft. below spur.

40.69 Small ravine, drains NW.

| Chains | |
|---|---|
| | Ascend short SW. slope. |
| 41.99 | Top of small red sandstone ridge, 20 ft. above ravine, bears NW. and SE. |
| | Descend NE. slope. |
| 48.69 | Road bearing NW. and SE. Moab to Monticello, in dry creek bed draining NW., 80 ft. below ridge; road doubles back from head of gulch which is just N. of line. |
| 49.99 | Same road, bears NW. and SE. Thence over rolling sandy flat in bottom of canyon. |
| 59.86 | Bottom of sandstone cliff. |
| 76.37 | Top of cliff, 365 ft. high. Triangulation point. |
| 80.39 | The cor. of secs. 17, 18, 19 and 20, 365 ft. above bottom of cliff. |
| | Land broken mountainous. |
| | Soil light sandy and bare red sandstone, 4th rate. |
| | Timber pinon pine and cedar. |
| | Undergrowth sagebrush. |
| | N.0°03'W. bet. secs. 17 and 18. |
| | Over level sandy bench, through scattering timber. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to solid rock with mound of stone around post for $\frac{1}{4}$ sec. cor. with brass cap marked S 18 $\frac{1}{4}$ \| S 17 1915 and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. |
| 42.00 | Ascend rocky SW. slope. |
| 48.00 | Spur of rocky ridge, 65 ft. above $\frac{1}{4}$ sec. cor., projects SW. Descend N. slope into small gulch. |
| 50.00 | Gulch 20 ft. below ridge, drains SW. |
| | Ascend rocky S. slope. |
| 61.30 | Rocky spur, 205 ft. above gulch, projects W. |
| | Descend NW. slope. |

| Chains | |
|---|---|
| 72.85 | Ravine, 75 ft. below spur, drains SW. |
| | Ascend broken SE. slope. |
| 77.75 | Small spur, 60 ft. above ravine, projects SW. |
| | Descend into small grassy basin, about 5 acres in area. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground to solid rock, with mound of stone around post, for cor. of secs. 7, 8, 17 and 18, with brass cap marked |
| | T 28 S R 23 E<br>S 7 \| S 8<br>S 18 \| S 17<br>1915 |
| | and raise a mound of stone 2 ft. base, 1½ ft. high. W. of cor. |
| | Land S. half mile, nearly level bench; remainder broken mountainous. |
| | Soil S. half mile sandy loam, 1st rate, remainder nearly all sandstone and porphyry rock 4th rate. |
| | Timber cedar and pinon pine. |
| | Undergrowth sagebrush. |
| | Good grass on bench on S. half mile. |
| | N.89°55'E. on a random line bet. secs. 8 and 17. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.86 | Intersect N. and S. line 5 lks. N. of the cor. of secs. 8, 9, 16 and 17. |
| | Thence |
| | S.89°57'W. on a true line bet. secs. 8 and 17. |
| | Over mountainous land through heavy pinon and cedar timber. |
| | Ascend SE. slope. |
| 36.60 | Top of ascent bears N. and S. |
| | Thence over level mesa, 400 ft. above sec. cor. |
| 39.93 | Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to solid rock, with mound of stone around post, for ¼ sec. cor. with brass cap marked |
| | ¼ S 8<br>S 17<br>1915 |

| Chains | |
|---|---|
| | and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| 60.00 | Descend abruptly over rocky SW. slope. |
| 70.10 | Small ravine drains SW., 225 ft. below ¼ sec. cor. Ascend short SE. slope. |
| 74.15 | Small ridge projects S., 35 ft. above ravine. Descend gradually. |
| 79.86 | The cor. of secs. 7, 8, 17 and 18, 400 ft. below mesa. |
| | Land mountainous. |
| | Soil nearly all sandstone andporphyry rock, 4th rate. |
| | Timber pinon pine and cedar. |
| | Undergrowth sagebrush. |
| | West on a random line bet. secs. 7 and 18. |
| 40.00 | Set temp. ¼ sec. cor. |
| 70.63 | Edge of smooth sandstone cliff, over which it is impossible to chain. Offset as follows: N.0°20'W. 7.00 chs., then on offset line West, 10.32 chs. to |
| 80.95 | Intersect the W. bdy. of the Tp. 3.05 chs. N. of the witness cor. to cor. of secs. 7, 12, 13 and 18, which is 4.00 chs. N.0°20'W. of true point. This is equivalent to a falling of 5 lks. N.0°20'W. of true point for cor. |
| | Thence |
| | N.89°58'E. on an offset line bet. secs. 7 and 18. |
| | Over broken mountainous land, through scattering timber. |
| 10.32 | Edge of smooth sandstone cliff, bears NE. and SW. Ascend NW. slope over red sandstone ledges. |
| | Thence |
| | S.0°20'E. 7 chs. to true line. |
| 27.95 | Top of ascent. Leave scattering timber bearing N. and S. |
| 40.95 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. |

| Chains | |
|---|---|
| | in the ground for $\frac{1}{4}$ sec. cor. with brass cap marked<br>$\frac{1}{4}$ S 7<br>S 18<br>1915<br>Dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist. and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. |
| 48.95 | Small wash, drains NW., thence across nearly level grassy bench, scattering sage. |
| 51.95 | Re-enter scattering timber. Ascend gentle SW. slope. |
| 73.95 | Small spur, 305 ft. above bench, projects S. Descend. |
| 80.95 | The cor. of secs. 7, 8, 17 and 18, 35 ft. below spur. |
| | Land broken mountainous. |
| | Soil 34.00 chs. on bench, light sandy loam, 1st rate, remainder nearly all sandstone and porphyry rock, 4th rate. |
| | Timber scattering pinon pine and cedar. |
| | Undergrowth sagebrush. |
| | Good grass on bench. |
| | N.0°03'W. bet. secs. 7 and 8. |
| | Over rough mountainous land, through scattering sagebrush undergrowth and pinon pine and cedar timber; soil very rocky. |
| | Ascend gradually. |
| 19.50 | Ascend abruptly over broken sandstone ledges, bearing E. and W. |
| 26.40 | Top of level mesa, 300 ft. above cor., bears E. and W. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked<br>S 7 \| $\frac{1}{4}$ \| S 8<br>1916<br>from which<br>A cedar 8 ins. dia., bears N.58°40'E., 31 lks. dist. mkd. $\frac{1}{4}$ S 8 B T. |

SUBDIVISION OF T. 28 S., R. 23 E.

| Chains | |
|---|---|
| | A pinon pine 7 ins. diam. bears N.9°50'W., 79 lks. dist., marked ¼ S 7 B T. |
| | Cor. stands on level mesa, 30 ft. east of edge. |
| 74.50 | Descend abruptly from rim, bearing NW. and SE. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, with brass cap marked |

T 28 S | R 23 E
S 6 | S 5
S 7 | S 8

1916

from which

A cedar 10 ins. diam. bears N.55°30'E., 51 lks. dist., marked T 28 S R 23 E S 5 B T.

A cedar 9 ins. diam. bears S.67°20'E., 68 lks. dist., marked T 28 S R 23 E S 8 B T.

A pinon pine 7 ins. diam. bears S.65°45'W., 90 lks. dist., marked T 28 S R 23 E S 7 B T.

A pinon pine 6 ins. diam. bears N.39°30'W., 108 lks. dist., marked T 28 S R 23 E S 6 B T.

Cor. stands on NE. slope, 225 ft. below mesa.

Land, rough mountainous ledges.

Soil, loose sand-rock, stony and sand; 4th rate.

Timber, cedar and pinon pine.

Undergrowth, scattering sagebrush.

---

N.89°57'E. on random line bet. secs. 5 and 8.

40.00 Set temp. ¼ sec. cor.

79.99 Intersect N. and S. line 21 lks. N. of the cor. of secs. 4, 5, 8 and 9.

Thence

N.89°54'W., on a true line bet. secs. 5 and 8,

Over rolling and level mesa, through scattering cedar and pinon pine timber.

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

| Chains | |
|---|---|
| — | $\frac{1}{4}$ $\frac{S\ 5}{S\ 8}$ 1916 |
| | from which |
| | A pinon pine 6 ins. diam. bears N.24°15'W., 26 lks. dist., marked $\frac{1}{4}$ S 5 B T. |
| | A pinon pine 5 ins. diam. bears S.58°50'E., 20 lks. dist., marked $\frac{1}{4}$ S 8 B T. |
| 41.89 | Descend abruptly from top of level mesa, bearing NW. and SE., over broken sandstone ledges. |
| 51.99 | Bottom of basin, 175 ft. below mesa. Ascend gradually. |
| 79.99 | The cor. of secs. 5, 6, 7 and 8. |
| | Land, W. half mile, mountainous; E. half mile, rolling and level mesa. |
| | Soil, on slopes, very rocky, loose sandstone and sandstone outcroppings; on mesa, sandy loam, shallow, on sandstone. |
| | Timber, cedar and pinon pine. |
| | Undergrowth, sagebrush. |
| | S.89°57'W. on random line bet. secs. 6 and 7. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 81.30 | Intersect the W. bdy. of the Tp. 2 lks. S. of the cor. of secs. 1, 6, 7 and 12, heretofore described. |
| | Thence |
| | N.89°58'E., on a true line bet. secs. 6 and 7. |
| | Ascending abruptly over ledges, bearing NW. and SE. |
| 23.47 | Top of rocky spur, projects S.20°W. |
| 41.30 | Set an iron post, 3 ft. long, 1 in. in diam., in a mound of stone, on sandstone ledge on S. edge of mesa, for $\frac{1}{4}$ sec. cor., with brass cap marked |
| | $\frac{1}{4}$ $\frac{S\ 6}{S\ 7}$ 1916 |
| | and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, |

| Chains | |
|---|---|
| | N. of cor. |
| 57.80 | Descend gradually from mesa, through scattering pinon pine and cedar timber and scattering undergrowth of sagebrush. |
| 81.30 | The cor. of secs. 5, 6, 7 and 8, 245 ft. below mesa. Land mesa and rocky ledges on rim of mesa. Soil generally very rocky and loose sandstone out-croppings. Timber cedar and pinon pine. Undergrowth sagebrush. |
| | For reasons already explained N.0°03'W. on a true line bet. secs. 5 and 6. Descending gradually, through scattering pinon pine and cedar timber and scattering undergrowth of sagebrush; soil very rocky. |
| 23.70 | Ravine, 230 ft. below cor.; drains N.75°W., Ascend steep, rocky slope. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground on steep SW. slope, for ¼ sec. cor. with brass cap marked |
| | S 6 \| ¼ \| S 5<br>1916 |
| | from which |
| | A pinon pine 7 ins. dia., bears S.77°45'E., 50 lks. dist. mkd. ¼ S 5 B T. |
| | A pinon pine 6 ins. dia., bears N.59°W., 56 lks. dist. mkd. ¼ S 6 B T. |
| 48.60 | Top of point of level mesa, 280 ft. above ravine, bears E. and W. |
| 50.70 | North edge of mesa, bears E. and W. Descend abruptly. |
| 85.90 | Intersect the N. bdy. of the Tp. 170 lks. E. of angle point, which is a 3-inch iron post, marked A P Sec 6 T 28 S R 23 E 1916. This point was thus marked by me when retracing the S. bdy. of T. 27 S., R. 23 E. |

Chains

and bearing trees were changed to read T 28 S R 23 E S 6 A P B T. The marks on the ¼ sec. cor. for sec. 5 were changed to read A P Sec 5 1916 and change bearing tree to read A P Sec 5 B T. The ¼ sec. cor. for sec. 6 was changed to an angle point and remarked A P Sec 6 1916, and bearing trees were changed to read A P Sec 6 B T.

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

T 27 S R 23 E
S 32

| | |
|---|---|
| S 6 | S 5 |
| T 28 S | R 23 E |

CC
1916

from which

A pinon pine 5 ins. dia., bears S.41°E., 30 lks. dist. mkd. C C T 28 S R 23 E S 5 B T.

A pinon pine 10 ins. dia., bears S.26°40'W., 33 lks. dist. mkd. C C T 28 S R 23 E S 6 B T.

Land rough mountainous ledges from mesa.

Soil generally very rocky, sandstone outcroppings, sandy loam, very shallow.

Timber cedar and pinon pine.

Undergrowth sagebrush.

## GENERAL DESCRIPTION

(Donald B. Clement)

This township lies at the foot of the La Sal mountains, on the W. side of same, at an elevation of about 7,000 ft. The land ranges all the way from level sagebrush desert to broken, rugged mountains. In secs. 25, 26, 35 and 36 there is a large sagebrush mesa which can be cultivated, and in secs. 31 and 32 there is a sagebrush flat which can be dry farmed. Small tracts of land in secs. 21, 22 and 23 are all of the remaining cultivable land in the township.

There are settlers in the town as follows:

R. J. Thompson, in secs. 25 and 36, has about 40 acres under cultivation, about 160 acres under fence, is building a house. Dry farming.

W. W. Allred, in SW¼ sec. 23, has about 20 acres under cultivation, irrigated; house, barns and several outbuildings. Residence, about 15 years.

O. D. Bliss, in secs. 21 and 22, has about 30 acres under cultivation, irrigated; has house, barns and several outbuildings. Residence, about 20 years.

The township is watered by several good sized springs, all good water.

As a whole the township is heavily timbered with pinon pine and cedar. None of it is of commercial size.

## GENERAL DESCRIPTION

(Thomas C. Rathbone)

Land, generally rugged mountainous, varying from rolling, high mesas on the east to rugged, broken slopes and deep canyons on the west. Porphyry and granite on the east and sandstone on the west. The

deeper canyons cut below the Dakota sandstone, forming perpendicular walls. General drainage, westerly, into Cane Springs canyon.

Soil, some sandy loam on mesas on the east. Varies from bed rock to two feet or more, but soil is generally very rocky, loose sand-rock and sandstone ledges.

Generally covered with juniper and pinon pine timber, scrub oak and buck and service on high land on the east, and sagebrush all over.

The carnotite strata occur about 100 ft. above top of Dakota bed. Hermatite (specular) and some manganese float in gulches on the east side.

No settlers.

State road and Midland Telegraph Company line are the improvements.

T. 28 S., R. 23 E.

Latitudes, Departures and Closing Errors.

| Lines Designated | True Bearing | Dist. | Latitudes | | Departures | |
|---|---|---|---|---|---|---|
| | | | N. | S. | E. | W. |
| | | Chs. | Chs. | Chs. | Chs. | Chs. |
| East Bdy. | N.0°06'W. | 46.14 | 46.14 | | | .08 |
| | N.0°14'E. | 39.99 | 39.99 | | .16 | |
| | N.0°32'W. | 40.27 | 40.27 | | | .37 |
| | N.0°45'E. | 39.61 | 39.61 | | .52 | |
| | N.1°04'E. | 39.99 | 39.98 | | .75 | |
| | N.0°42'W. | 40.37 | 40.37 | | | .49 |
| | N.1°56'W. | 39.77 | 39.75 | | | 1.35 |
| | N.0°32'E. | 39.73 | 39.73 | | .37 | |
| | North | 40.02 | 40.02 | | | |
| | N.0°11'W. | 40.02 | 40.02 | | | .13 |
| | N.0°15'E. | 40.15 | 40.15 | | .18 | |
| | N.0°18'W. | 40.18 | 40.18 | | | .21 |
| North Bdy. | S.89°38'W. | 40.12 | | .26 | | 40.12 |
| | S.89°51'W. | 40.14 | | .11 | | 40.14 |
| | S.89°48'W. | 40.19 | | .14 | | 40.19 |
| | S.89°51'W. | 40.18 | | .11 | | 40.18 |
| | S.89°49'W. | 40.25 | | .13 | | 40.25 |
| | West | 279.70 | | | | 279.70 |
| West Bdy. | S.0°20'E. | 486.38 | | 486.38 | 2.83 | |
| South Bdy. | East | 79.00 | | | 79.00 | |
| | S.89°59'E. | 40.00 | | .01 | 40.00 | |
| | S.89°58'E. | 40.00 | | .02 | 40.00 | |
| | S.89°34'E. | 40.50 | | .30 | 40.50 | |
| | N.89°50'E. | 39.61 | .12 | | 39.61 | |
| | N.89°48'E. | 40.01 | .14 | | 40.01 | |
| | East | 39.92 | | .06 | 39.92 | |
| | S.89°32'E. | 79.72 | | .65 | 79.72 | |
| | N.89°45'E. | 39.95 | .18 | | 39.95 | |
| | N.89°50'E. | 39.90 | .12 | | 39.90 | |
| Convergency | | | | | | .57 |
| | | | 486.77 | 488.11 | 483.42 | 483.78 |
| | | | | 486.77 | | 483.42 |
| | | | | 1.34 | | .36 |

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Page

4—080

BOOK A-431

# CERTIFICATE OF ASSISTANTS.

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

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.....

of the ..... Meridian, in the State of .....

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

| NAME. | PERIOD OF SERVICE. | | CAPACITY. |
|---|---|---|---|
| | BEGUN. | ENDED. | |
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Subscribed and certified to before me on the dates of the final service as shown above.

.....

4—270

*U. S. Surveyor.*

CERTIFICATE TRANSITMAN.

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

I, Donald B. Clement, U. S. Transitman, ~~Surveyor~~, do certify on honor ~~solemnly swear~~ that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 20 day of July, 1915, 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 Township 28 South, Range No. 23 East

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

Donald B. Clement
~~U. S. Surveyor.~~
U. S. Transitman.

Subscribed ~~by said~~ April 9, 1917, ~~and sworn to before me this day of, 191~~

SEAL

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 191

The foregoing field notes of the survey of

executed by

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

*U. S. Surveyor General.*

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

*U. S. Surveyor General.*

6—2761

BOOK A-421

# CERTIFICATE OF ASSISTANTS.

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

.....

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of the ..... Meridian, in the State of .....

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

| NAME. | PERIOD OF SERVICE. | | CAPACITY. |
|---|---|---|---|
| | BEGUN. | ENDED. | |
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Subscribed and certified to before me on the dates of the final service as shown above.

.....

6—2764 *U. S. Surveyor.*

CERTIFICATE

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

I, Thomas C. Rathbone, U. S. Surveyor, do ~~solemnly swear~~ certify on honor that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 20 day of July, 1915, 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 Townships 27 and 28 South, Range No. 23 East

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

Thos. C. Rathbone
*U. S. Surveyor.*

Subscribed ~~by said~~ March 31, 1917, ~~and sworn to before me this day of, 191~~

SEAL

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 31, 1917.

The foregoing field notes of the ~~survey of~~ resurvey of the east and south boundaries and survey of the west boundary and subdivision of Township No. 28 South, Range No. 23 East; and resurvey of part of the south boundary of Township No. 27 South, Range No. 23 East, of the Salt Lake Base and Meridian, Utah

executed by Donald B. Clement and Thomas C. Rathbone under ~~his~~ special instructions dated July 20, 1915, having been critically examined, and the necessary corrections and explanations made, the ~~said~~ field notes, and the resurveys and surveys they describe, are hereby approved.

N. C. Thorsen
*U. S. Surveyor General.*

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

6—2761

*U. S. Surveyor General.*

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4—679

BOOK A-421

K.J.B.

# FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT AND RESURVEY OF SECOND GUIDE MERIDIAN WEST

THROUGH

TOWNSHIP NO. 23 SOUTH, BETWEEN RANGES NOS. 7 AND 8 WEST;

RETRACEMENT AND RESURVEY SOUTH, WEST, AND NORTH BOUNDARIES;

AND

SURVEY OF SUBDIVISION

O F

TOWNSHIP NO. 23 SOUTH, RANGE NO. 8 WEST

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

*In the State of* U T A H

EXECUTED BY

SCOTT P. STEWART AND EDWARD N. THOMPSON

*In the capacity of U. S. Surveyor* and U.S. Transitman, *under instructions dated* August 30, *1915,*

*issued by the United States Surveyor General to govern surveys included in*

*Group No.* 46, *which were approved by the Commissioner of the General Land*

*Office,* September 18, *1915;* and under assignment instructions,

ated November 11, 1915, issued by the Assistant Supervisor of Surveys,

or the District of Utah.

*Survey commenced* November 18, *1915.*

*Survey completed* December 4, *1915.*

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BOOK A-421

# INDEX DIAGRAM.

*Township* 23 South, *Range* 8 West

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 18 | | 19 | | 20 | | 20 | | 21 | | 22 | | |
| | | 18 | | 17 | | 17 | | 17 | | 17 | | 16 | | |
| 37 | 39 | 6 | 91 | 5 | 78 | 4 | 70 | 3 | 61 | 2 | 51 | 1 | 15 | 8 |
| | | 90 | | 90 | | 78 | | 69 | | 60 | | 50 | | |
| 37 | 38 | 7 | 89 | 8 | 77 | 9 | 69 | 10 | 60 | 11 | 49 | 12 | 14 | 8 |
| | | 88 | | 87 | | 76 | | 68 | | 59 | | 48 | | |
| 32 | 32 | 18 | 86 | 17 | 75 | 16 | 67 | 15 | 58 | 14 | 47 | 13 | 13 | 7 |
| | | 86 | | 85 | | 75 | | 66 | | 57 | | 46 | | |
| 31 | 34 | 19 | 84 | 20 | 74 | 21 | 65 | 22 | 56 | 23 | 45 | 24 | 12 | 7 |
| | | 83 | | 82 | | 73 | | 65 | | 55 | | 44 | | |
| 31 | 35 | 30 | 81 | 29 | 72 | 28 | 64 | 27 | 53 | 26 | 43 | 25 | 11 | 6 |
| | | 81 | | 80 | | 71 | | 63 | | 52 | | 41 | | |
| 31 | 36 | 31 | 79 | 32 | 71 | 33 | 62 | 34 | 51 | 35 | 41 | 36 | 9 | 6 |
| | | 25 | | 24 | | 24 | | 24 | | 23 | | 23 | | |
| | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | |

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Page

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley.....Chainman.
Jay Morrison.....Chainman.
Walter Byergo.....Chainman.
Basil H.McIntosh.....Chainman.
P.Glen Graham.....Cornerman.
Austin M.Farnsworth.....Axman and Cornerman.
De Vara Morrison.....Flagman.
Harmel L.Peterson.....Axman and Flagman.

BOOK A-421

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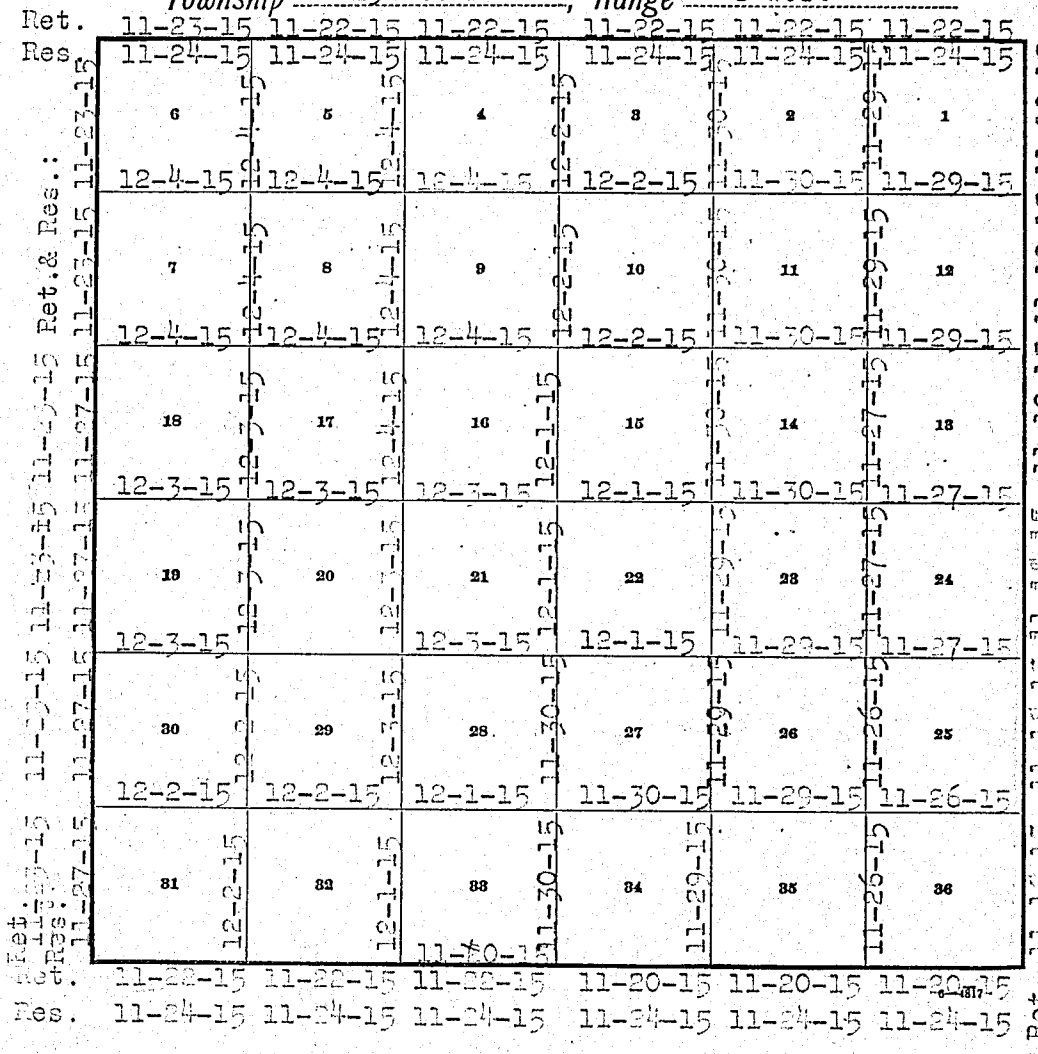
# INDEX DIAGRAM.

FOR DATES.

*Township* 23 South, *Range* 8 West




Lines in above diagram along which dates are colored red were surveyed by Scott P.Stewart, U.S.Surveyor; and lines along which dates are colored black, were surveyed by Edward N.Thompson, U. S.Transitman.

RETRACEMENT

2nd GUIDE MERIDIAN WEST THROUGH T.23 SOUTH.

Chains.

Survey commenced Nov.17, 1915, and executed with Young & Sons' light mountain transits Nos.8584 and 8296, with Smith solar attachments. The horizontal limbs are provided each with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

Five-chain tapes and clinometers were used in all measurements; and the reduced horizontal distances only appear in these field notes. The tapes were tested frequently by comparison with a standard one-chain tape kept for that purpose only.

The instruments were approved for use in this survey by the Assistant Supervisor of Surveys for the District of Utah, conditional upon satisfactory field tests.

The adjustments of the transits were examined and level and collimation errors corrected; then to test the solar apparati by comparing indications resulting from solar observations made during a.m.and p.m.hours,with a meridian determined by observations on Polaris, proceed as follows:

Test of instrument No.8584 by Scott P.Stewart, U.S.Surveyor:

At the cor.of Tps.23 and 24 S., R.7 W., which is a lava stone 16 x 10 x 5 ins.above ground, loosely set, marked with 6 notches on N.and S.edges ( no other marks visible), with plain traces of old mound of earth with a few stones; longitude 112° 40'W.; lat.38° 46'N.

At 3h 45m p.m.l.m.t.

I set off 38° 46'N.on the lat.arc; 16° 53'S.on the decl.arc; and determine with the solar a meridian and mark a point thereof by a tack in a stake driven in the ground 5.00 chs.N.of the cor.

November 17, 1915.

RETRACEMENT

2nd GUIDE MERIDIAN WEST THROUGH T.23 SOUTH.

Nov.18: At 3h 40.9m a.m.l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined by a tack in a stake driven in the ground 5.00 chs.N.of the corner.

At 8h 45m a.m.l.m.t., I set off 19° 3'S.on the decl.arc; 38° 46'N.on the lat.arc; and determine a meridian with the solar, and mark the point by a tack in the stake set 5.00 chs.N.of the cor.

At 9h 0m a.m.l.m.t., I set off 1° 28' to the E.from the mark established by Polaris observation, and find this gives a point almost midway between the a.m.and p.m.solar line, viz: 0.23 ins.E.of the p.m., and 0.22 ins.W.of the a.m., or about 9 " W.in p.m., and 9" E. in a.m.hours; and I consider the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 9 h 10 m a.m.is N.16° 25'W.; the angle thus determined gives the mag.decl.16° 25'E.

---

Test of instrument No.8296 by Edward N.Thompson, U.S. Transitman:

Nov.26, 1915:At the cor.of secs.23,24,25, and 26 T.23 S. R.8 W., described in the notes of the subdivision of said Tp.,lat.38° 48'N.; long.112° 41'W., I set off 38° 48'N.on the lat.arc; 20° 50'S.on the decl.arc; and at 4h 0m p.m.l.m.t., determine with the solar a meridian, and mark a point thereof by a tack in a stake driven in the ground 5.00 chs.N.of the cor.

November 26, 1915.

---

November 27,1915:

At 3h 06m a.m.l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and

RETRACEMENT

2nd GUIDE MERIDIAN WEST THROUGH T.23 SOUTH.

mark a point in the line thus determined by a tack in a stake driven in the ground 5.00 chs.N.of my station.

At 7h 0m a.m.l.m.t., I lay off the azimuth of Polaris 1° 28' to the east, and mark the meridian thus determined by a tack in the stake already set 5.00 chs.N.of my station; this mark falls 0.2 ins.E.of the mark determined by the solar.

At 8h 0m a.m.l.m.t., I set off 38° 48'N.on the lat.arc; 20° 45'S.on the decl.arc; and mark a point in the meridian thus determined by a tack in the stake already set 5.00 chs.N.of my station; this mark falls 0.4 ins.E. of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians, respectively about 0' 10" W. and 0' 21" E.of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h 30m a.m. is N.16° 27'W., which gives the mag.decl.16° 27'E.

---

From the cor.of Tps.23 and 24 S., R.7 W., already described, which I reset firmly in the ground, and alongside of which I

Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for re-established cor.of Tps.23 and 24 S. R.7 W., with brass cap marked

T 23 S
S 36 | T 23 S
R 8 W ——— S 31
S 1 | o——— R 7 W
S 6
T 24 S T 24 S
1915

from which

A cedar, 12 ins.dia., bears N.9° 15'E. 551 lks.

Chains. dist., marked T 23 S R 7 W S 31 B T

Raise a mound of stone 3 ft. base, 2 ft. high E. of cor.

No other bearing trees within limits. Thence

North on retracement line along W. side of sec. 31, T. 23 S., R. 7 W.

7.80 Fall 4½ lks. W. of the old closing cor. of Tps. 23 and 24 S. R. 8 W., which is a lava stone 12 x 6 x 4 ins. loose in old mound of earth, marked with 6 notches on N., S., E., and W. edges; no other marks discernible.

40.50 Fall 23½ lks. W. of the old ¼ sec. cor., which is a black lava stone 8 x 8 x 4 ins. above ground, plainly marked "¼"; firmly set; but not witnessed.

80.68 Fall 51½ lks. W. of old cor. of secs. 25, 30, 31, and 36, which is a black lava stone 8 x 8 x 4 ins. above ground firmly set, and marked with 1 notch on S., and 5 notches on N. edges; from which

A cedar, 18 ins. dia., bears S. 67° 10' E. 84 lks. dist., marked R 7 W 31; other marks not discernible.

A cedar, 12 ins. dia., bears S. 52° 30' W. 153 lks. dist., marked R 8 W ; other marks not distinct.

A cedar, 6 ins. dia., bears N. 5° 30' W. 13 lks. dist. marked T 23 S R 8 W B T

The course of the south half-mile is therefore N. 0° 20' E. and distance 40.50 chs.; and the north half-mile N. 0° 24' E. 40.18 chs.

---

North on retracement line along W. side of sec. 30,

40.40 Fall 17½ lks. W. of the old ¼ sec. cor., which is a black lava stone 8 x 8 x 4 ins. above ground, firmly set, and marked ¼ on W. face; not witnessed.

80.00 After diligent search I find no trace of the old cor. of

| Chains. | |
|---|---|
| | secs.19,24,25, and 30. One old bearing tree with traces of markings found; but no trace of the others; they evidently having been pulled out by the roots by wood-haulers, as is the custom here, I am told. I do not consider the evidence of the one bearing tree as sufficient to locate the corner point. I set temp.cor.at this point. |
| | I continue my line, from temp.point set for cor.of secs. 19,24,25, and 30, North along W.side of sec.19, |
| 40.00 | After diligent search I am unable to find any trace of the old ¼ sec.cor; nor any evidence of the old bearing trees. |
| 81.42 | Fall 88 lks.W.of old cor.of secs.13,18,19, and 24, which is a cedar post, 18 ihs.above ground, 3 ins.square, marked with 3 notches on N.and S.edges, T 23 S on NE; R 8 W on SW.faces; plain traces of old pits and mound remain. The post is in good state of preservation. The course of the south half-mile of sec.30 is therefore N.0° 15'E., and distance 40.40 chs. The falling of 88 lks.for the line between the ¼ sec.cor. of secs.25 and 30 and the old cor.of secs.13,18,19, and 24 answers to a correction of 0° 20'; therefore the course is N.0° 20'E., and the distance of each half-mile 40.34 chs. |
| | From the old cor.of secs.13,18,19, and 24 North, along W.side of sec.13, |
| 40.00 | After diligent search I find no trace of the old ¼ sec. cor. |

RETRACEMENT

2nd GUIDE MERIDIAN WEST THROUGH T.23 SOUTH.

| Chains. | |
|---|---|
| 80.00 | After diligent search I find no trace of the old cor. of secs. 7, 12, 13, and 18. |
| | I continue my line, and at |
| 122.07 | Fall 113½ lks. W. of old ¼ sec. cor., which is a volcanic stone 5 x 5 x 4 ins. loose on top of old mound, with plain traces of pits. The stone is plainly marked "¼" the mark nearly covering one face of the stone. The original notes call for a post corner; but no post can be found. |
| | I decide this to be the old cor. point. |
| | The distance and falling answer to a correction of 40.69 chs. for each half-mile, from cor. of secs. 13, 18, 19 and 24; and a course of N. 0° 32' E. |
| | I offset over the ¼ sec. cor., and continue |
| | North along the W. side of sec. 7, and at |
| 161.72 | Fall 2 lks. W. of the old cor. of secs. 1, 6, 7, and 12, which is a cedar stake 40 ins. long, 2 ins. square, marked with 1 notch on N. and 5 notches on S. edges; S on NE. R 7 W on SE.; R 8 W on NW. faces, with slight traces of other markings. I find the post loose in top of old mound of earth, with plain traces of 4 old pits; and decide that the corner is in the original position. |
| | The course of the last half-mile is therefore N. 0° 02' E., and the distance 39.65 chs. |

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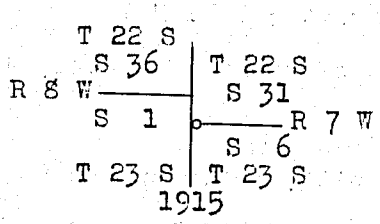
| | |
|---|---|
| | From the old cor. of secs. 1, 6, 7, and 12, |
| | North along W. side of sec. 6, |
| 40.42 | Fall 14 lks. W. of old ¼ sec. cor., which is the lower end of a stake, 10 ins. long, full length in the ground, in old mound; old pits plainly visible. |
| 80.84 | Fall 28 lks. W. of the old cor. of Tps. 22 and 23 S., R. 7 W. which is a stump of the old post, 12 ins. long, full |

Chains.

length in the ground, in old mound of earth, no marks on the stump, the marked portion having been destroyed; but plain traces of 4 old pits remain.

I decide this to be the original corner point. I re-establish it as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, alongside of old cor., for cor. of Tps. 22 and 23 S., R.7 W., with brass cap marked




Dig pits 30 x 24 x 12 ins. on each line N. and S. of post, 4 ft., and E. of post 8 ft. dist.; and raise a mound of earth 5 ft. base, 2½ ft. high E. of cor.

The course of this mile is therefore N.0° 12'E., and distance 80.84 chs.

RESURVEY 2nd GUIDE MERIDIAN WEST T.23 SOUTH.

I return to the re-established corner of Tps. 23 and 24 S., R.7 W.; thence

N.0° 20'E. on W. side of sec. 31,

Over rolling land; through scattering cedar and dense undergrowth; descending.

7.80 The closing cor. of Tps. 23 and 24 S., R.8 W., heretofore described.

30.00 Swale, 24 ft. below Tp. cor., course N.70° W.

Difference between measurement of 40.50 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set 40.49 chs.

By 2d set 40.51 chs.; the mean of which is

40.50 The old ¼ sec. cor., heretofore described, alongside of which I

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

Chains.

the ground, for ¼ sec. cor. sec. 31 only, with brass cap marked

¼ S 31
1915

from which

A cedar, 10 ins. dia., bears N.53° E. 121 lks. dist. marked ¼ S 31 B T

A cedar, 14 ins. dia., bears N.84° 50'E. 292 lks. dist., marked ¼ S 31 B T

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

Thence N.0°24'E., with continuous measurement,

46.20 Old wood road, bearing N.50° W., and S.50° E.

48.20 Enter heavy cedar timber, bearing E. and W.

56.70 Enter black lava rocks, bearing E. and W.

Difference between measurements of 80.68 chs. by two sets of chainmen is 2 lks.; position of middle point.

By 1st set 80.67 chs.

By 2d set 80.69 chs.; the mean of which is

80.68 The old corner of secs. 25, 30, 31, and 36, heretofore described, alongside of which I

Set an iron post, 3 ft. long, 3 ins. in dia., 10 ins. in the ground, on solid rock, with mound of stone around post, for cor. of secs. 30 and 31 T.23 S., R.7 W. only, with brass cap marked

T 23 S
S 25 | S 30
S 36 | S 31
R 8 W | R 7 W
1915

from which

A cedar, 14 ins. dia., bears N.54° 10'E. 108 lks. dist., marked T 23 S R 7 W S 30 B T (New B.T.).

A cedar, 18 ins. dia., bears S.67° 10'E. 84 lks. dist., marked T 23 S R 7 W S 31 B T (Old B.T.).

The marks on the two west bearing trees, accessories to old corner, are defaced.

| Chains. | |
|---|---|
| | Land, rolling. |
| | Soil, south half-mile clay loam; north half-mile volcanic rock and clay loam. |
| | Undergrowth, shadscale and white sage. |
| | Timber, cedar. Some grass for grazing. |
| | N.0° 15'E. on W. side of sec. 30, |
| | Over rolling, mountainous land; ascending through heavy cedar timber and short dense undergrowth. |
| 10.00 | Spur, 5 ft. above sec. cor., projects W. Descend. |
| 18.70 | Leave timber, bearing E. and W. |
| | Difference between measurements of 40.40 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 40.39 chs. |
| | By 2d set 40.41 chs.; the mean of which is |
| 40.40 | The old ¼ sec. cor., heretofore described, alongside of which I. |
| | Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, to solid rock, with mound of stone around post, for ¼ sec. cor. sec. 30 only, with brass cap marked |
| | 1915 \| ¼ S 30 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high E. of cor. |
| | Corner is 25 ft. below spur, |
| | Thence N.0° 20'E., with continuous measurement, |
| 55.00 | Foot of steep descent bearing E. and W. Leave lava rock. |
| 66.15 | Road, from Kanosh to Blackrock, bears N.35° E., and S. 35° W.; branch road, bears S.80° W., and N.35°E. |
| 79.00 | Enter cedar timber, bearing E. and W. |
| | Difference between measurements of 80.74 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 80.73 chs. |
| | By 2d set 80.75 chs., the mean of which is |
| 80.74 | The proportionate point for re-established sec. cor. |

RESURVEY 2nd GUIDE MERIDIAN WEST, THROUGH T.23 SOUTH.

Chains.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 19 and 30, T.23 S., R.7 W. only, with brass cap marked

T 23 S
S 24 | S 19
S 25 | S 30
R 8 W | R 7 W
1915

from which

A cedar, 12 ins. dia., bears N.5° E. 25 lks. dist. marked T 23 S R 7 W S 19 B T

A cedar, 8 ins. dia., bears S.17° E., 158 lks. dist. marked T 23 S R 7 W S 30 B T

Corner is 50 ft. below ¼ sec. cor.

Land, rolling.

Soil, gravelly and rocky, volcanic stone, sandy and clay loam.

Undergrowth, shadscale, greasewood and yellow brush.

Timber, cedar. Some grass for grazing.

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N.0° 20'E. on W. side of sec. 19,

Descending gradually, over rolling land; through scattering cedar timber and dense short undergrowth.

20.70 Corner of pasture fence bears S.89° 30'W. 26 lks. dist.

Difference between measurements of 40.34 chs. by two sets of chainmen is 1 lk.; position of middle point

By 1st set 40.33½ chs.

By 2d set 40.34½ chs.; the mean of which is

40.34 The proportionate point for restored ¼ sec. cor.

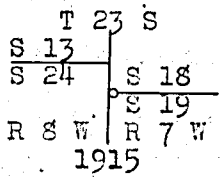
Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. sec. 19 only, with brass cap mkd.

¼ S 19
1915

from which

A cedar, 12 ins. dia., bears N.6° 30'E. 387 lks.

| Chains. | |
|---|---|
| | dist., marked ¼ S 19 B T |
| | A cedar, 12 ins. dia., bears S.86° 22'E. 327 lks. dist., marked ¼ S 19 B T |
| | Corner is 40 ft. below sec. cor. |
| 44.40 | Leave timber, bearing E. and W. |
| 46.00 | Old road, bears N.80° E., and S.80° W. |
| 57.00 | Center of gate, and road to pasture, bearing E. and W. |
| | Difference between measurements of 80.68 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 80.67 chs. |
| | By 2d set 80.69 chs.; the mean of which is |
| 80.68 | The old corner of secs. 13, 18, 19, and 24, heretofore described, alongside of which I |
| | Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 18 and 19 T.23 S., R.7 W. only, with brass cap marked |




| | |
|---|---|
| | Dig pits 24 x 24 x 12 ins. NE. and SE. of post, 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high E. of corner. Corner stands 20 ft. below ¼ sec. cor. |
| | From this corner a prominent peak bears S.49° 01'W. about 3 miles distant. |
| | Land, rolling. |
| | Soil, sandy and clay loam. |
| | Undergrowth, shadscale and white sage. |
| | Timber, scattering cedar. Some grass for grazing. |

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| | |
|---|---|
| | N.0° 32'E. along W. side of sec. 18, |
| | Over nearly level land; through short dense undergrowth; descending. |
| 5.50 | Enter plowed land, bearing E. and W. |
| 40.67 | Corner of pasture fence bearing N.89° 25'W. and S.0°32'W. |

Chains.

Difference between measurements of 40.69 chs. by two sets of chainmen is 1 lk.; position of middle point

By 1st set 40.68½ chs.

By 2d set 40.69½ chs.; the mean of which is

40.69 The proportionate point for restored ¼ sec. cor.

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

| ¼ S 18
1915

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high E. of cor. Corner stands 20 ft. below sec. cor.

Difference between measurements of 81.38 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set 81.37 chs.

By 2d set 81.39 chs.; the mean of which is

81.38 The proportionate point for restored sec. cor.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 7 and 18, T.23 S., R.7 W. only, with brass cap marked

T 23 S
S 12 | S 7
S 13 | S 18
R 8 W | R 7 W
1915

Dig pits 24 x 24 x 12 ins. NE. and SE. of post, 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high E. of cor. Corner is 20 ft. below ¼ sec. cor.

Land, level.

Soil, sandy and clay loam.

Undergrowth, shadscale and white sage.

No timber. Some grass for grazing.

---

N. 0° 32' E. along W. side of sec. 7,

Over plowed land, nearly level; descending gently.

37.40 Old road, bears S. 10° W., and NE.

Chains.

Difference between measurements of 40.69 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set 40.68 chs.

By 2d set 40.70 chs.; the mean of which is

40.69 The old ¼ sec. cor. heretofore described, alongside of which I

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. sec. 7 only, with brass cap mkd.

¼ S 7
1915

Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high E. of cor. Corner is 10 ft. below sec. cor.

From this corner a new well, 5 ft. dia., by 8 ft. deep, (dry) bears N.73° 21'E. 7.48 chs. dist.

Center of corral bears N.77° 25'E. 8.00 chs. dist.

Thence N.0° 02'E. with continuous measurement.

49.60 Road from Meadow to Blackrock bears N.88°15'W. and S.88°E.

Difference between measurements of 80.34 chs. by two sets of chainmen is 1 lk.; position of middle point

By 1st set 80.33½ chs.

By 2d set 80.34½ chs.; the mean of which is

80.34 The old cor. of secs. 1, 6, 7, and 12, heretofore described, alongside of which I

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 6 and 7 T.23 S.R.7 W. only, with brass cap marked

T 23 S
S 1 | S 6
S 12 | S 7
R 8 W | R 7 W
1915

Dig pits 24 x 24 x 12 ins. NE. and SE. of post, 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high E. of cor. Corner is 10 ft. below ¼ sec. cor.

Land, level.

Soil, clay loam.

RESURVEY 2nd GUIDE MERIDIAN WEST THROUGH T.23 SOUTH.

| Chains. | |
|---|---|
| | No timber. Some grass for grazing. |
| | N.0° 12'E.along W.side of sec.6, |
| | Over plowed land. |
| 39.80 | Leave plowed land, bearing E.and W.Enter dense undergrowth. |
| | Difference between measurements of 40.42 chs.by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 40.41 chs. |
| | By 2d set 40.43 chs.; the mean of which is |
| 40.42 | The old $\frac{1}{4}$ sec.cor.heretofore described,alongside of which I set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor.sec.6 only,with brass cap mkd. $\frac{1}{4}$ S 6 1915 |
| | Dig pits 18 x 18 x 12 ins.N.and S.of post, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high E.of cor. Corner is 10 ft.below sec.cor. |
| | Difference between measurements of 80.84 chs.by two sets of chainmen is 1 lk.; position of middle point |
| | By 1st set 80.84$\frac{1}{2}$chs. |
| | By 2d set 80.83$\frac{1}{2}$ chs.; the mean of which is |
| 80.84 | The re-established cor.of Tps.22 and 23 S., R.7 W. |
| | Corner is 10 ft.below $\frac{1}{4}$ sec.cor. |
| | Land, nearly level. |
| | Soil, sandy and clay loam. |
| | Undergrowth, white sage and shadscale. |
| | Some grass for grazing. No timber. |
| | RETRACEMENT NORTH BOUNDARY T.23 S.R.8 W. |
| | From the cor.of Tps.22 and 23 S., R.7 W. |
| | North between Rs.7 and 8 W. |
| 9.40 | Find evidence of pits and mound of earth, but no marked stone, nor other trace of corner. I assume this to be the point for old closing cor.of Tps.22 and 23 S.R.8 W. |

RETRACEMENT NORTH BOUNDARY T.23 S.R.8 W.

| Chains. | |
|---|---|
| | Thence west, on random retracement line, between Tps. 22 and 23 S., R.8 W. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| | The old $\frac{1}{4}$ sec. cor. for secs. 1 and 36, marked and witnessed as described by the surveyor-general, bears S.33° 17' W.66 lks. dist. I destroy this cor. |
| 80.00 | Set temp. sec. cor. |
| | After diligent search find no trace of the old cor. of secs. 1, 2, 35, and 36. |
| | West, between secs. 2 and 35, |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. Find no trace of old $\frac{1}{4}$ sec. cor. |
| 80.00 | Set temp. cor. for cor. of secs. 2, 3, 34, and 35. No trace of the old sec. cor. could be found. |
| | West between secs. 3 and 34, |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 42.60 | Fall 1.43 chs. N. of old $\frac{1}{4}$ sec. cor., marked and witnessed as described by the surveyor general I destroy this cor. |
| 80.00 | Set temp. cor. for cor. of secs. 3, 4, 33, and 34. |
| | West between secs. 4 and 33, |
| 3.09 | Fall 1.03 chs. N. of old cor. of secs. 3, 4, 33, and 34, marked and witnessed as described by the surveyor general. I destroy this corner. |
| 40.00 | Set temp, $\frac{1}{4}$ sec. cor. |
| 43.41 | Fall 97 lks. N. of old $\frac{1}{4}$ sec. cor., marked and witnessed as described by the surveyor-general. I destroy this cor. |
| 80.00 | Set temp. cor. for cor. of secs. 4, 5, 32, and 33. |
| | West between secs. 5 and 32. |

RETRACEMENT NORTH BOUNDARY T.23 S., R.8 W.

| Chains. | |
|---|---|
| 3.64 | Fall 42 lks.N.of the old cor.of secs.4,5,32, and 33, marked and witnessed as described by the surveyor-general. I destroy this cor. |
| 40.00 | Set temp.$\frac{1}{4}$ sec.cor. |
| 44.34 | Fall 36 lks.N.of the old $\frac{1}{4}$ sec.cor., marked and witnessed as described by the surveyor-general I destroy this cor. |
| 80.00 | Set temp.corner for cor.of secs.5,6,31 and 32. |

West, between secs.6 and 31,

| | |
|---|---|
| 4.54 | Fall 34 lks.N.of the old corner of secs.5,6,31, and 32, marked and witnessed as described by the surveyor-general. I destroy this corner. |
| 40.00 | Set temp.$\frac{1}{4}$ sec.cor. No trace found of the old $\frac{1}{4}$ sec.cor. |
| 84.80 | Fall 15 lks.N.of the old cor.of Tps.22 and 23 S., Rs.8 and 9 W., which consists of pits and mound of earth and cedar stake in E.pit; no marked stone found, nor other evidence of corner. |

I assume this to be the point for old cor.of Tps.22 and 23 S., Rs.8 and 9 W.

The falling answers to a correction of 0° 1'S.per mile counting from the NE.corner of the Tp.

N.89° 59'E.on true resurvey line between secs.6 and 31,

Over rolling land; through dense undergrowth.

| | |
|---|---|
| 29.80 | Small depression, 15 ft.below Tp.cor. |
| 34.80 | Elongated sand knoll, 10 ft.above depression, bearing N.and S. |
| 44.80 | 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 |

$$\frac{S\ \frac{31}{1/4}}{S\ \ 6}$$
1915

RESURVEY NORTH BOUNDARY T.23 S., R.8 W.

Chains.

Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

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

T 22 S
S 31 | S 32
R 8 W
S 6 | S 5
T 23 S
1915

Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, rolling.

Soil, sandy loam.

Undergrowth, shadscale, greasewood, and yellow brush.

No timber.

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N. 89° 39' E. bet. secs. 5 and 32,

Over rolling land; through dense undergrowth of greasewood, and over sandy knolls.

20.00 Leave sand knolls and greasewood. Thence through shadscale and yellow brush.

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

S 32
¼
S 5
1915

Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 4, 5, 32, and 33, with brass cap marked

T 22 S
S 32 | S 33
R 8 W
S 5 | S 4
T 23 S
1915

RESURVEY NORTH BOUNDARY T. 23 S., R. 8 W.

| Chains. | |
|---|---|
| | Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.<br>Land, rolling.<br>Soil, sandy and clay loam.<br>Undergrowth greasewood, shadscale and yellow brush.<br>No timber. |
| | N. 89° 59' E. bet. secs. 4 and 33,<br>Over level land; through dense shadscale. |
| 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>S 33 / ¼ / S 4<br>1915 |
| | Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 3, 4, 33, and 34, with brass cap marked<br>T 22 S<br>S 33 \| S 34<br>R 8 W<br>S 4 \| S 3<br>T 23 S<br>1915 |
| | Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.<br>Land, level.<br>Soil, sandy loam.<br>Undergrowth, shadscale and bud sage.<br>No timber. |
| | N. 89° 59' E. bet. secs. 3 and 34,<br>Descending over rolling land; through dense shadscale. |
| 15.00 | Leave sandy soil, bearing N. and S. |

| Chains. | |
|---|---|
| 40.00 | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked<br>S 34<br>$\frac{1}{4}$<br>S 3<br>1915<br>Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. |
| 70.80. | Enter broken sandy land bearing N. and S. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 2, 3, 34, and 35, with brass cap marked<br>T 22 S<br>S 34 \| S 35<br>R 8 W<br>S 3 \| S 2<br>T 23 S<br>1915<br>Dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.<br>Corner is 10 ft. below sec. cor.<br>Land. rolling.<br>Soil, sand and clay loam.<br>Undergrowth, shadscale, greasewood and yellow brush.<br>No timber. |
| | N. 89° 59' E. bet. secs. 2 and 35,<br>Ascending through dense undergrowth; over broken sandy land. |
| 5.00 | Small depression, 5 ft. below sec. cor. |
| 9.50 | Leave broken sandy land, bearing N. and S. |
| 16.00 | Old trail bearing N. 20° W. and S. 20° E. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked<br>S 35<br>$\frac{1}{4}$<br>S 2<br>1915<br>Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; |

RESURVEY NORTH BOUNDARY T. 23 S., R.8 W.

Chains.

and raise a mound of earth 3½ ft.base, 1½ ft.high N. of cor.

52.70 Wash, 1 ft.deep, 5 lks.wide, course SW.

80.00 25 ft.above depression,

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

T 22 S
S 35 | S 36
R 8 W
S 2 | S 1
T 23 S
1915

Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, level.

Soil, white clay loam.

Undergrowth, shadscale, bud sage, and white sage.

No timber.

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N.89° 59'E.bet.secs.1 and 36,

Ascending through dense shadscale; 10 ft.above sec.cor.at

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

S 36
¼
S 1
1915

Dig pits 18 x 18 x 12 ins. E.and W.of post 3 ft.dist.; and raise a mound of earth 3½ft.base, 1½ ft.high N.of cor.

80.00 The closing corner of Tps.22 and 23 S., R.8 W., 20 ft. above last sec.cor., which I remonument as follows:

Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for closing cor.of Tps.22 and 23 S., R.8 W. with brass cap marked

T 22 S | T 22 S
S 36 | S 31
R 8 W — C C
R 7 W
S 1 | S 6
T 23 S | T 23 S
1915

RESURVEY NORTH BOUNDARY T. 23 S., R.8 W.

| Chains. | |
|---|---|
| | Dig pits 30 x 24 x 12 ins. crosswise on each line N. and S. 4 ft., and W. of post 8 ft. dist.; and raise a mound of earth 5 ft. base, 2½ ft. high W. of cor. |
| | Land level, |
| | Soil, heavy white clay loam. |
| | Undergrowth, shadscale. |
| | No timber. |

RETRACEMENT SOUTH BOUNDARY T.23 S.R.8 W.

| | |
|---|---|
| | From the old closing cor. of Tps. 23 and 24 S., R.8 W., heretofore described, |
| | West on random retracement line bet. secs. 1 and 36, |
| 40.00 | Set temp. ¼ sec. cor. |
| 40.70 | Fall 13 lks. S. of old ¼ sec. cor., which is a black lava stone 7 x 12 x 6 ins. above ground, well set, and mkd. ¼ on N. face, with trace of old pits and mound. I destroy this cor. |
| 80.00 | Set temp. cor. for secs. 1, 2, 35, and 36. No trace of old sec. cor. at this point. |

| | |
|---|---|
| | West bet. secs. 2 and 35, |
| 1.53 | Fall 28 lks. S. of the old cor. of secs. 1, 2, 35, and 36, which is a lava stone 6 x 6 x 4 ins. above ground, well set and mkd. with 5 notches on W., and 1 on E. edge, with trace of old pits. I destroy this corner. |
| 40.00 | Set temp. ¼ sec. cor. |
| 42.22 | Fall 32 lks. S. of the old ¼ sec. cor., which is a blue limestone 6 x 6 x 8 ins. above ground, well set, and mkd. "¼" on N. face. I destroy this corner. |
| 80.00 | Set temp. cor. of secs. 2, 3, 34, and 35. |
| | No trace of old corner could be found, after diligent search. It has evidently been carried away by flood |

RETRACEMENT SOUTH BOUNDARY T. 23 S., R.8 W.

| Chains. | |
|---|---|
| | waters at some time. |
| | West bet. secs. 3 and 34, |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 43.46 | Fall 32 lks. S. of old $\frac{1}{4}$ sec. cor., which is a black lava stone 8 x 6 x 4 ins., lying loose on top of ground, marked "$\frac{1}{4}$" on one face. I destroy this corner. |
| 80.00 | Set temp. cor. of secs. 3, 4, 33, and 34. |
| | West bet. secs. 4 and 33, |
| 4.22 | Fall 45 lks. S. of the old cor. of secs. 3, 4, 33, and 34, which is a lava stone 10 x 8 x 6 ins. above ground, well set and marked 3 notches on E. and W. edges; with trace of old pits remaining. I destroy this corner. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 44.92 | Fall 58 lks. S. of the old $\frac{1}{4}$ sec. cor., which is a lava stone 8 x 6 x 6 ins. above ground, firmly set, and mkd. $\frac{1}{4}$ on N. face; not witnessed. I destroy this cor. |
| 80.00 | Set temp. cor. of secs. 4, 5, 32, and 33. |
| | West bet. secs. 5 and 32, |
| 5.44 | Fall 110 lks. S. of the old cor. of secs. 4, 5, 32, and 33, which is a light-colored lava stone 10 x 8 x 6 ins. above ground, well set, and marked with 4 notches on E. and 2 notches on W. edges; not witnessed. I destroy this corner. |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| | After diligent search I find no trace of old $\frac{1}{4}$ sec. cor. |
| 80.00 | Set temp. cor. of secs. 5, 6, 31, and 32. |
| | After diligent search I find no trace of old cor. of secs. 5, 6, 31, and 32. |

RETRACEMENT SOUTH BOUNDARY T. 23 S., R.8 W.

| Chains. | |
|---|---|
| | West bet. secs. 6 and 31, |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 45.81 | Fall 147 lks. S. of the old $\frac{1}{4}$ sec. cor., which is a volcanic stone 10 x 6 x 3 ins., lying loose on top of the ground, marked "$\frac{1}{4}$" on one face. I destroy this cor. |
| 82.81 | Fall 154½ lks. S. of the cor. of Tps. 23 and 24 S., Rs. 8 and 9 W., which is a light-colored volcanic stone 5 x 5 x 3 ins. above ground, marked with 6 notches on N., S., E. and W. edges, with plain traces of 4 old pits and mound of earth. |
| | I re-establish this corner as follows: |
| | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of Tps. 23 and 24 S., Rs. 8 and 9 W. with brass cap marked |

T 23 S
S 36 | S 31
R 9 W ——— R 8 W
S 1 | S 6
T 24 S
1915

| | |
|---|---|
| | Raise a mound of stone 2 ft. base, 1½ ft. high S. of cor. |
| | Corber set alongside of old corner. |
| | The falling answers to a correction of 0° 11' N. per mile counting from the SE. cor. of the township. |

RESURVEY SOUTH BOUNDARY T. 23 S., R.8 W.

| | |
|---|---|
| | From the re-established cor. of Tps. 23 and 24 S., Rs. 8 and 9 W. |
| | S. 89° 49' E. bet. secs. 6 and 31, |
| | Over rolling land, through dense short undergrowth; ascending. |
| 2.50 | Top of bench, 10 ft. above Tp. cor., bearing N. 30° W. and S. 30° E. |
| 4.00 | Descend from bench bearing N. 20° E. and S. |
| 28.90 | Old road, bearing N. 80° E. and S. 76° W. |
| 42.81 | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the |

RESURVEY SOUTH BOUNDARY T.23 S., R.8 W.

| Chains. | |
|---|---|
| | ground, for ¼ sec. cor., with brass cap marked<br>S 31<br>¼<br>S 6<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| | Corner is 80 ft. below bench. |
| 62.50 | Wash, 20 lks. wide, 4 ft. deep, course N.20° E. |
| 63.50 | Old road, bears N.20° E. and S.20° W. |
| 71.20 | Enter heavy cedar timber, bearing N. and S. |
| 76.80 | Leave timber, bearing N. and S. |
| 82.81 | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 6, 31, and 32, with brass cap marked<br>T 23 S<br>S 31 \| S 32<br>R 8 W<br>S 6 \| S 5<br>T 24 S<br>1915 |
| | from which |
| | A cedar, 18 ins. dia., bears N.83° 14'W. 600 lks. dist., marked T 23 S R 8 W S 31 B T |
| | A cedar 8 ins. dia., bears S.83° 20'W. 608 lks. dist., marked T 24 S R 8 W S 6 B T |
| | No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Corner is 10 ft. below ¼ sec. cor. |
| | Land, rolling. |
| | Soil, gravelly and sandy loam. |
| | Undergrowth, sage and shadscale. |
| | Very little grass for grazing. |
| | Timber, cedar. |
| | S.89° 49'E. bet. secs. 5 and 32, |
| | Over rolling land; through dense short undergrowth; ascending gradually. |
| 17.00 | Enter scattering cedar timber, bearing N. and S. |

RESURVEY SOUTH BOUNDARY T.23 S., R.8 W.

| Chains. | |
|---|---|
| 25.00 | Enter heavy cedar timber, bearing N.and S. |
| 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>S 32<br>¼<br>S 5<br>1915<br>from which<br>A cedar.16 ins.dia., bears N.36° E.92 lks.dist. marked ¼.S 32 B.T<br>A cedar 12.ins.dia., bears S.37° 30'W.47 lks. dist., marked ¼ S 5 B T<br>Corner is 20 ft.above sec.cor. |
| 45.00 | Spur, 10 ft.above ¼ sec.cor., bearing N.and S. Descend. |
| 48.00 | Leave timber, bearing N.and S. |
| 55.20 | Swale, 5 ft.below spur, course N.10° E. Ascend. |
| 70.40 | Leave valley; ascend foot hills bearing N.and S. |
| 72.40 | Spur of ridge, 60 ft.above swale, projects S. Descend. |
| 80.00 | Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of secs.4,5,32, and 33,with brass cap marked<br>T 23 S<br>S 32 \| S 33<br>R 8 W<br>S 5 \| S 4<br>T 24 S<br>1915<br>Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.<br>Corner is 30 ft.below ridge.<br>Land, rolling.<br>Soil, gravelly and rocky, clay and sandy loam.<br>Undergrowth, black and white sage,and shadscale.<br>Very little grass for grazing.<br>Timber, cedar. |

S.89° 49'E.bet.secs.4 and 33,

Over rolling, mountainous land; descending through dense short undergrowth.

RESURVEY SOUTH BOUNDARY T.23 S., R.8 W.

| Chains. | |
|---|---|
| 10.00 | Leave foot hills; enter flat, bearing N.30° 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., with brass cap marked<br>S 33 / ¼ / S 4<br>1915<br>Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.<br>Corner stands 35 ft. below sec. cor. |
| 46.20 | Old road, bears N.65° W. and S.65° E. |
| 68.85 | Old road, bears N.65° E. and S.65° W. |
| 70.25 | Road from Kanosh to Blackrock bears N.65° E. and S.65° W. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 3, 4, 33, and 34, with brass cap marked<br>T 23 S<br>S 33 \| S 34<br>R 8 W<br>S 4 \| S 3<br>T 24 S<br>1915<br>Raise a mound of stones 2 ft. base, 1½ ft. high W. of cor.<br>Land, west half-mile rolling; east half-mile level.<br>Soil, gravelly and sandy clay loam.<br>Undergrowth, white sage, yellow brush, and shadscale.<br>Very little grass for grazing.<br>No timber. |
| | S.89° 49' E. bet. secs. 3 and 34,<br>Over level land; through dense short undergrowth; ascending. |
| 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>S 34 / ¼ / S 3<br>1915<br>Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| 74.40 | Wash, 10 lks. wide, 2 ft. deep, course N. |

RESURVEY SOUTH BOUNDARY T. 23 S., R. 8 W.

| Chains. | |
|---|---|
| 80.00 | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 2, 3, 34, and 35, with brass cap marked<br>T 23 S.<br>S 34 \| S 35<br>R 8 W. ——+——<br>S 3 \| S 2<br>T 24 S.<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Land, level. |
| | Soil, gravelly and clay. |
| | Undergrowth, white sage and shadscale. |
| | Very little grass for grazing. |
| | No timber. |
| | S. 89° 49' E. bet. secs. 2 and 35, |
| | Over level land; through dense short undergrowth. |
| .90 | Wash, 6 lks. wide, 3 ft. deep, course N. |
| 3.50 | Wash, 10 lks. wide, 3 ft. deep, course N. |
| 10.00 | Spur, 5 ft. above sec. cor., projects N. |
| 29.55 | Old road, bears NE. and SW. |
| 39.80 | Old road, bears N. and S. |
| 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>S 35<br>¼<br>——————<br>S 2<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| | Corner is 30 ft. below spur. |
| 49.80 | Plowed furrow, bearing N. and S. |
| 77.50 | Wash, 3 lks. wide, 2 ft. deep, course N. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, with brass cap marked<br>T 23 S<br>S 35 \| S 36<br>R 8 W ——+——<br>S 2 \| S 1<br>T 24 S<br>1915 |

RESURVEY SOUTH BOUNDARY T. 23 S., R. 8 W.

| Chains. | |
|---|---|
| | Raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. |
| | Corner is 50 ft. below ¼ sec. cor. |
| | Land, almost level. |
| | Soil, gravelly and clay loam. |
| | Undergrowth, shadscale, yellow brush, and white sage. |
| | Very little grass for grazing. |
| | No timber. |
| | S. 89° 49' E. bet. secs. 1 and 36, |
| | Over almost level land; through dense short undergrowth; descending. |
| 35.00 | Swale, 40 ft. below sec. cor., course N. 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 |

S 36
¼
S 1
1915

| | |
|---|---|
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| | Corner is 3 ft. above swale. |
| 55.20 | Old road, bears NW. and SE. |
| 76.50 | Wash, 3 lks. wide, 3 ft. deep, course N. |
| 80.00 | The closing cor. of Tps. 23 and 24 S., R. 8 W., 20 ft. below ¼ sec. cor. |
| | I re-establish this corner as follows: |
| | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for closing cor. of Tps. 23 and 24 S., R. 8 W., with brass cap marked |

T 23 S, T 23 S
S 36.
R 8 W — CC
S 1 S 31
R 7 W
S 6
T 24 S T 24 S
1915

| | |
|---|---|
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Land, almost level. |
| | Soil, gravelly and clay loam. |

RESURVEY SOUTH BOUNDARY T.23 S., R.8 W.

| Chains. | |
|---|---|
| | Undergrowth, white sage and shadscale.<br>Very little grass for grazing.<br>No timber. |

RETRACEMENT WEST BOUNDARY T. 23 S., R.8 W.

| | |
|---|---|
| | From the cor. of Tps. 23 and 24 S., Rs. 8 and 9 W., heretofore described, |
| | North on retracement line bet. secs. 31 and 36, |
| 40.33 | Fall 21 lks. W. of old ¼ sec. cor., which is a trachyte stone 6 x 5 x 5 ins. above ground, in stone mound, plainly marked "¼". |
| 80.29 | Fall 21 lks. W. of the old cor. of secs. 25, 30, 31, and 36 which is a trachyte stone 16 x 6 x 4 ins. lying loose on top of ground, marked with 1 notch on one edge, and 5 notches on opposite edge. |
| | North, bet. secs. 25 and 30, |
| 40.44 | Fall 8 lks. W. of old ¼ sec. cor., which is a trachyte stone 10 x 10 x 6 ins., lying loose on top of the ground, plainly marked "¼". |
| 80.90 | Fall 23 lks. W. of old cor. of secs. 19, 24, 25, and 30, which is a gray limestone 16 x 12 x 11 ins., firmly set, mkd 2 notches on S. and 4 notches on N. edges; not witnessed |
| | North bet. secs. 19 and 24, |
| 40.42 | Fall 55 lks. W. of the old ¼ sec. cor., which is a trachyte stone 14 x 7 x 5 ins., lying loose on top of the ground plainly marked "¼" on one face |
| 81.27 | Fall 57 lks. W. of the old cor. of secs. 13, 18, 19, and 24, which is a trachyte stone 12 x 6 x 4 ins. lying loose |

RETRACEMENT WEST BOUNDARY T. 23 S., R. 8 W.

| Chains. | |
|---|---|
| | on top of the ground, but plainly marked with 3 notches on two opposite edges. |
| | North bet. secs. 13 and 18, |
| 40.00 | Find no trace of old ¼ sec. cor., after diligent search. |
| 80.81 | Fall 42 lks. E. of the old cor. of secs. 7, 12, 13, and 18, which is a trachyte stone 8 x 6 x 4 ins. above ground, firmly set and marked with 4 notches on S., and 2 notches on N. edges. I re-establish this cor. as follows: |
| | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, alongside of old cor., for cor. of sections 7, 12, and 13, with brass cap marked |
| | T 23 S<br>R 9 W \| R 8 W<br>S 12<br>S 13 \| S 7<br>S 18<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | The distances from the cor. of Tps. 23 and 24 S., Rs. 8 and 9 W. are out of limits; therefore I decide to destroy the old intermediate corners and run on a true line S. 0° 4' W. from cor. of secs. 12 and 13 to the township corner, placing the excess distance in the south half of the mile bet. secs. 13 and 18, in order to protect the old area in north half of sec. 7, T. 23 S., R. 9 W. |
| | From the re-established cor. of secs. 12 and 13, |
| | S. 0° 04' W. on E. side of sec. 13, |
| | Ascending gently over rolling land; through dense short undergrowth. |
| 7.30 | Old road, bears N. 85° E. and S. 84° W. |

RESURVEY WEST BOUNDARY T. 23 S., R. 8 W.

| Chains. | |
|---|---|
| 18.40 | Leave valley, and ascend over foot hills bearing N.60° E. and S.60° W. |
| 33.30 | Spur of ridge, 110 ft. above sec. cor., projects W. |
| 40.00 | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., sec. 13 only, with brass cap marked<br>¼ S 13 \| 1915<br>from which<br>A cedar, 6 ins. dia., bears N.40° 15'W. 250 lks. dist., marked ¼ S 13 B T<br>Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.<br>From this cor. water tank on S.P.L.A. & S.L.R.R. bears N. 8° W. about 3½ miles dist.<br>Wind mill bears N.8° 10'W.<br>Section house bears N.8° 16'W.<br>Corner 35 ft. below ridge.<br>Bunch of 6 cedars. |
| 48.60 | Swale, 8 ft. below ¼ sec. cor., course W.<br>Ascend. |
| 80.90 | Spur of ridge, 245 ft. above swale, projects W.<br>Descend. |
| 83.27 | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 18, 19, and 24, with brass cap marked<br>T 23 S.<br>R 9 W \| R 8 W<br>S 13 \| S 18<br>S 24 \| S 19<br>1915<br>from which<br>A cedar 12 ins. dia., bears S.49° 05'W. 302 lks. dist., marked T 23 S R 9 W S 24 B T<br>A cedar 8 ins. dia., bears S.26° 20'E. 319 lks. dist., marked T 23 S R 8 W S 19 B T<br>No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |

RESURVEY WEST BOUNDARY T.23 S., R.8 W.

| Chains. | |
|---|---|
| | Corner is 25 ft. below spur. Small bunch of cedars at cor. I destroy the old cor. of secs. 13, 18, 19, and 24. |
| | Land, rolling. |
| | Soil, gravelly and rocky; average depth 1 to 4 ft., clay loam and volcanic formation. |
| | Undergrowth, sage, yellow brush, and shadscale. |
| | Some grass for grazing. |
| | Timber, few scattering cedars. |
| | S.0° 04'W. bet. secs. 19 and 24, |
| | Descending over rolling land; through dense short undergrowth. |
| 1.50 | Swale, 15 ft. below sec. cor., course N.30° W. Ascend. |
| 20.00 | Broad ridge, 70 ft. above swale, bearing E. and W. Desc. |
| 25.60 | Draw, 30 ft. below ridge, course S.80° E. from S.20° 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 S 24 \| S 19<br>1915<br>from which<br>A cedar 10 ins. dia. bears N.3° 05'E. 238 lks. dist. marked ¼ S 19 B T<br>A cedar, 8 ins. dia., bears N.33° 35'W. 154 lks. dist., marked ¼ S 24 B T<br>I also raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Corner stands 75 ft. above draw. Destroy old ¼ sec. c |
| 46.20 | Ridge, 30 ft. above ¼ sec. cor., bearing N.20° E. and S.20° W. Descend. |
| 52.50 | Draw, 35 ft. below ridge, course S.80° E. Ascend. |
| 62.40 | Spur, 20 ft. above draw, projects E. Descend. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 19, 24, 25, and 30, with brass cap marked<br>T 23 S<br>R 9 W \| R 8 W<br>S 24 \| S 19<br>S 25 \| S 30<br>1915 |

RESURVEY, WEST BOUNDARY T.23 S., R.5 W.

| Chains. | |
|---|---|
| | Corner 80 ft. below spur. |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | From corner prominent peak in Tp. bears S.85°25'W. about 3½ miles dist. Monument on top of peak bears S.13° 21' W. about 1½ miles dist. |
| | Destroy old cor. of secs. 19, 24, 25, and 30. |
| | Land, rolling. |
| | Soil, sandy and clay loam, and rocky. |
| | Undergrowth, shadscale and short sage. |
| | Very little grass for grazing. |
| | Timber few scattering cedars. |
| | S.0° 04'W. bet. secs. 25 and 30, |
| | Descending over rolling land; through dense short undergrowth. |
| 10.80 | Old road, bears N.80° E. and W. |
| 12.10 | Swale, 15 ft. below sec. cor., course E. Ascend. |
| 22.10 | Small spur, 10 ft. above swale, projects F. Descend. |
| 31.50 | Head of draw, 5 ft. below spur, course N.70° E. Ascend. |
| 40.00. | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 25 \| S 30 1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Corner is 25 ft. above draw. Destroy old ¼ sec. cor. |
| | Prominent peak in Tp. bears N.86° 24'E. about 3½ miles dist. |
| | Monument 6 ft. high, 6 ft. dia., on peak bears S.22°51' W. about 1 mile dist. |
| 52.00 | Small spur, 15 ft. above ¼ sec. cor., projects E. Descend. |
| 57.00 | Swale, 5 ft. below spur, course E. Ascend. |
| 63.50 | Old road, bears NW. and SE. |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, with brass |

RESURVEY WEST BOUNDARY T.23 S., R.8 W.

| Chains. | |
|---|---|
| | cap marked<br>T 23 S<br>R 9 W R 8 W<br>S 25 \| S 30<br>S 36 \| S 31<br>1915<br>Raise a mound of stone 4 ft. base, 4 ft. high W. of cor.<br>Corner is 65 ft. above swale.<br>Destroy all trace of old cor. of secs. 25, 30, 31, and 36.<br>Land, rolling.<br>Soil, heavy clay loam and rocky.<br>Undergrowth, shadscale, sage.<br>Very little grass for grazing.<br>No timber. |
| | S. 0° 04' W. bet. secs. 31 and 36,<br>Over rolling land; through dense short undergrowth; ascending. |
| 8.30 | Spur, 45 ft. above cor., projects E. Descend. |
| 16.40 | Draw, 20 ft. below spur, course E. Ascend. |
| 20.00 | Spur, 15 ft. above draw, projects E.<br>Descend. |
| 23.80 | Draw, 30 ft. below spur, course E. Ascend. |
| 25.30 | Spur, 45 ft. above draw, projects E.<br>Descend. |
| 38.40 | Draw, 55 ft. below spur, course E.<br>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<br>¼ S 36 \| S 31<br>1915<br>Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.<br>Corner on spur, projecting E., 15 ft. above draw.<br>Destroy all trace of old ¼ sec. cor. |
| 45.00 | N. edge of bench, sloping E.<br>Descend gently. |

RESURVEY WEST BOUNDARY T. 23 S., R. 8 W.

| Chains. | |
|---|---|
| 60.50 | Old road, bearing NE. and SW. |
| 78.60 | S.edge of bench, bearing W., and S.30° E. |
| 80.00 | The cor.of Tps.23 and 24 S., Rs.8 and 9 W. |
| | Land, rolling. |
| | Soil, clay and sandy loam and rocky. |
| | Undergrowth, shadscale. |
| | Very little grass for grazing. |
| | No timber. |

From identified point for cor.of Tps.22 and 23 S., Rs.8 and 9 W.

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

| | |
|---|---|
| 40.00 | After diligent search I find no evidence of old ¼ sec.cor. |
| 80.73 | Fall 74 lks.E.of the old cor.of secs.1,6,7, and 12,which is a granite lying loose on surface of the ground, marked and witnessed as described by the surveyor general. |

The course of this line is therefore S.0°32' W., and distance 80.73 chs.

South bet.secs.7 and 12,

| | |
|---|---|
| 40.31 | Fall 39 lks.W.of old ¼ sec.cor., which is a granite stone 6 x 5 x 4 ins.lying loose on top of ground, plainly marked "¼". |

The course of this half-mile is therefore S.0° 33'E. and distance 40.31 chs.

| | |
|---|---|
| 80.85 | Fall 73 lks.W.of old cor.of secs.7,12,13, and 18, heretofore described. |

The course of the south half-mile is therefore S.0° 29' E., and distance 40.54 chs.

RESURVEY, WEST BOUNDARY T.23 S., R.8 W.

| Chains. | |
|---|---|
| | From the cor. of secs. 7, 12, 13, and 18, |
| | N.0° 29'W. bet. secs. 7 and 12, |
| | Through dense shadscale; over rolling land; descending. |
| 11.30 | Old road between Blackrock and Meadow, bears E. and W. |
| 40.00 | Swale, 50 ft. below sec. cor., course N.60° W. |
| 40.54 | The old ¼ sec. cor., which I remonument for sec. 12 only, as follows: |
| | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. sec. 12, with brass cap marked |
| | ¼ S 12 \| 1915 |
| | Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor. |
| | Thence N.0° 33'W., with continuous measurement, |
| 50.80 | Wash, 1½ ft. deep, 6 lks. wide, course NW. |
| 63.10 | Old road, bears E. and W. |
| 80.64 | Plowed furrow bearing NE. and SW., purpose unknown. |
| 80.85 | The old cor. of secs. 1, 6, 7, and 12, which I remonument as follows, for secs. 1 and 12 only: |
| | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1 and 12, with brass cap mkd. |
| | T 23 S<br>S 1 \| S 6<br>S 12 \| S 7<br>R 9 W \| R 8 W<br>1915 |
| | Dig pits 24 x 24 x 12 ins. NW. and SW. of post 6 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. |
| | Land, rolling. |
| | Soil, gravel and white clay loam. |
| | Undergrowth, shadscale and yellow brush. |
| | No timber. |

Chains.

N. 0°32' E. bet. secs. 1 and 6,

Over level land; through dense undergrowth.

40.36½ I again make diligent search for old ¼ sec. cor.; but fail to find any evidence of it. Therefore I establish cor. for sec. 1 only as follows:

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

¼ S 1
1915

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

60.73 The cor. of Tps. 22 and 23 S., Rs. 8 and 9 W. I remonument cor. as follows:

Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of Tps. 22 and 23 S., Rs. 8 and 9 W., with brass cap marked

T 22 S
S 36 | S 31
R 9 W ——— R 8 W
S 1 | S 6
T 23 S
1915

Dig pits 24 x 24 x 12 ins. N., E., and W. of post 4 ft., and S. of post 8 ft. dist.; and raise a mound of earth 5 ft. base, 2½ ft. high S. of cor.

Land, level.

Soil, S. 20.73 chs. heavy white clay loam; north 60.00 chs. sandy loam.

Undergrowth, greasewood, shadscale, and yellow brush.

No timber.

BOUNDARIES OF T.23 S., R.8 W.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

| Lines Designated | True Bearing | Dist. | Latitudes, Departures. | | | |
|---|---|---|---|---|---|---|
| | | chs. | N. chs. | S. chs. | E. chs. | W. chs. |
| Second Guide Mer. West, | N. 0°20'E. | 32.70 | 32.70 | ..... | .19 | ..... |
| | N. 0°24'E. | 40.18 | 40.18 | ..... | .28 | ..... |
| | N. 0°15'E. | 40.40 | 40.40 | ..... | .18 | ..... |
| | N. 0°20'E. | 121.02 | 121.02 | ..... | .70 | ..... |
| | N. 0°32'E. | 122.07 | 122.07 | ..... | 1.14 | ..... |
| | N. 0°02'E. | 39.65 | 39.65 | ..... | .02 | ..... |
| | N. 0°12'E. | 80.84 | 80.84 | ..... | .28 | ..... |
| | North | 9.40 | 9.40 | ..... | ..... | ..... |
| North Boundary | S.89°59'W. | 484.80 | ..... | .14 | ..... | 484.80 |
| West Boundary | S. 0°32'W. | 80.73 | ..... | 80.73 | ..... | .75 |
| | S. 0°33'E. | 40.31 | ..... | 40.31 | .38 | ..... |
| | S. 0°29'E. | 40.54 | ..... | 40.54 | .34 | ..... |
| | S. 0°04'W. | 323.27 | ..... | 323.27 | ..... | .37 |
| South Boundary | S.89°49'E. | 482.81 | ..... | 1.54 | 482.81 | ..... |
| Convergency | | | | | | .59 |
| Totals | | | 486.26 | 486.53 | 486.32 | 486.51 |
| | | | | 486.26 | | 486.32 |
| Errors in lat. and dep. | | | | .27 | | .19 |

| Chains. | |
|---|---|
| | From the cor. of secs. 1, 2, 35, and 36, on the S. bdy. of the Tp., heretofore described, |
| | N. 0° 19' E., parallel to the mean course of the E. bdy. of the township, with proper allowance for convergency. Descending through dense shadscale. |
| 3.10 | Wash, 1½ ft. deep, 4 lks. wide, course NE., 5 ft. below sec. cor. |
| 27.00 | Small wash, 5 lks. wide, 5 ft. deep, course NE., 25 ft. below sec. cor. 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<br>¼ S 35 \| S. 36<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| 63.90 | Top of rocky spur, 55 ft. above wash, projects NE. Descend. |
| 68.50 | Draw, 15 ft. below spur, course NE. Ascend. |
| 80.00 | 5 ft. above draw, |
| | 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>T 23 S \| R 8 W<br>S 26 \| S 25<br>S 35 \| S 36<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Land, rolling. |
| | Soil, volcanic rock and clay loam. |
| | Undergrowth, shadscale and white sage. |
| | No timber. |
| | S. 89° 49' E. on a random line bet. secs. 25 and 36, |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.09 | Intersect E. bdy. of Tp. 7.11 chs. N. 0° 15' E. of the cor. of |

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| | secs.30 and 31, T.23 S., R.7 W., heretofore described. |
| | Set an iron post 3 ft.long, 2 ins.in dia., 18 ins.in the ground, to solid rock, with mound of stone around post, for closing cor.of secs.25 and 36, with brass cap marked |
| | T 23 S<br>S 25 \| S 30<br>R 8 W ——o CC.<br>S 36 —R 7 W<br>S 31<br>1915 |
| | from which |
| | A cedar, 12 ins.dia., bears N.21° W.6 lks.dist. marked T 23 S R 8 W S 25 B T |
| | A cedar, 14 ins.dia., bears S.21° 15'W.23 lks. dist., marked T 23 S R 8 W S 36 B T |
| | Thence |
| | N.89° 49'W.on true line bet.secs.25 and 36, |
| | Descending through cedar timber. |
| 15.59 | Leave timber, bearing S.20° E. and N.20° W. |
| 16.89 | Old road, bearing N.20° W. and S.20° E. |
| 21.29 | Old road, bearing NW. and SE. |
| 22.30 | Old road, bearing N.20° W. and S.20° E. |
| 38.89 | Wash, 1 ft.deep, 3 lks.wide, 80 ft.below sec.cor., course NW. |
| 40.04½ | 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>S 25<br>S 36<br>1915 |
| | Dig pits 18 x 18 x 12 ins.E.and W.of post, 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N. of cor. |
| 43.59 | Wash, 1 ft.deep, 3 lks.wide, course NE. |
| 48.99 | Old road, bearing N.20° W. and S.20° E. |
| | Ascend through dense shadscale, to |
| 80.09 | The cor.of secs.25,26,35, and 36,45 ft.above wash. |

| Chains. | |
|---|---|
| | Land, rolling. |
| | Soil, volcanic rock and clay loam. |
| | Undergrowth shadscale and white sage. |
| | Timber cedar, on E.15.59 chs. |
| | N.0° 19'E.bet.secs.25 and 26, |
| | Over rolling land; through shadscale and white sage undergrowth; ascending. |
| 7.60 | Spur, 10 ft.above sec.cor., projects E. |
| | Descend. |
| 11.30 | Main road between Kanosh and Blackrock, bearing N.50° E. and S.50° W. |
| 26.60 | Draw, 50 ft.below spur, course NE. |
| | Ascend. |
| 37.20 | Point of spur, 20 ft.above draw, projects E. |
| 40.00 | Set an iron post 3 ft.long, 1 in.in dia., 18 ins.in the ground, with mound of stone around post, for ¼ sec.cor. with brass cap marked<br>¼ S 26 \| S 25<br>1915 |
| | Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. |
| | Natural obstacles prevent setting post over 18 ins.in the ground. |
| 54.46 | Fence bears S.89° 55'E., and N.89° 55'W. |
| 63.80 | Old road, bears NW. and SE. |
| 80.00 | 35 ft.below spur, |
| | 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<br>T 23 S R 8 W<br>S 23 \| S 24<br>S 26 \| S 25<br>1915 |
| | Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 5 ft.base, 3 ft.high W.of cor. |
| | Land, rolling. |

Chains.

Soil, south 20.00 chs. volcanic rock and clay loam; north 60.00 chs. clay loam.

Undergrowth, shadscale and white sage.

No timber. Some grass for grazing.

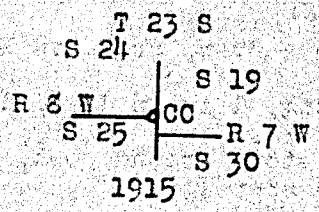
---

S.89° 49'E. on a random line bet. secs. 24 and 25,

40.00 Set temp. ¼ sec. cor.

80.12 Intersect E. bdy. of Tp. 6. 45 chs. N.0° 20'E. of the cor. of secs. 19 and 30, T.23 S., R.7 W., heretofore described.

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 24 and 25, with brass cap marked




from which

A cedar 10 ins. dia., bears N.19° 30'W. 138 lks. dist., marked T 23 S R 8 W S 24 B T

A cedar, 14 ins. dia., bears S.34°30'W. 64 lks. dist., marked T 23 S R 8 W S 25 B T

Thence

N.89° 49'W. on true line bet. secs. 24 and 25,

Descending through cedar timber, with undergrowth of shadscale, white sage and greasewood.

16.62 Small swale, 5 ft. below sec. cor., course N.

Leave timber, bearing N. and S.

Ascend.

20.47 Fence bearing N.38'W. and S.38'E.

25.12 Top of small sand ridge, 5 ft. above swale, bears N.30° W. and S.30° E.

36.62 Enter scattering cedar timber.

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

| Chains. | |
|---|---|
| | ground, for $\frac{1}{4}$ sec.cor., with brass cap marked |
| | $\frac{1}{4}$ S 24 / S 25 1915 |
| | from which |
| | A cedar, 12 ins.dia., bears N.45° 41'E. 83 lks. dist., marked $\frac{1}{4}$ S 24 B T |
| | A cedar, 14 ins.dia., bears S.56° 55'E. 69 lks. dist., marked $\frac{1}{4}$ S 25 B T |
| 41.92 | Old road, bears NE. and SW. |
| 46.52 | Wash, in bottom of swale, 2 ft.deep, 5 lks.wide, course N. Ascend. |
| 51.82 | Small knoll, 5 ft.above wash. |
| 53.52 | Leave scattering cedar timber, bearing N.and S. |
| 57.72 | Wash, in bottom of swale, 3 ft.deep, 8 lks.wide, course NE |
| 61.52 | Old road, bears N.60° W. and S.60° E. |
| | Ascend through dense shadscale, to |
| 80.12 | The cor.of secs.23,24,25, and 26, 30 ft.above wash. |
| | From this cor. the SW.cor.of fence bears S.46°24'W. |
| | Spring bears N.65° 26'W.about 36.00 chs. |
| | Land, rolling. |
| | Soil,E.40.00 chs.sandy loam; west 40.12 chs.clay loam. |
| | Undergrowth, shadscale, white sage, and greasewood. |
| | Timber, cedar. Very little grass for grazing. |
| | N.0° 19'E.bet.secs.23 and 24, |
| | Descending through dense shadscale and yellow brush. |
| 7.30 | Road, bears N.60° W. and S.60° E. |
| 12.20 | SW.cor.of plowed land bears N.77° 05'E.4.60 chs. dist. |
| | SE.cor.of plowed land bears N.85° 30'E. about 25.00 chs.dist. |
| 25.30 | Road, bears N.65° E. and S.65° W. |
| 26.40 | Enter plowed land, bearing N.75° 30'E. and S.70° 30'W. |
| 27.50 | Leave plowed land. |
| 33.40 | Enter plowed land bearing E.and W. |

SUBDIVISION T.23 S., R.8 W.

| 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 S 23 \| S 24<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| 61.20 | Leave plowed land, bearing E. and W. |
| 80.00 | 15 ft. below last sec. cor. |
| | Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 14, 23, and 24, with brass cap marked<br>T 23 S R 8 W<br>S 14 \| S 13<br>S 23 \| S 24<br>1915 |
| | Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 5 ft. base, 2 ft. high W. of cor. |
| | Land, gentle north slope. |
| | Soil, heavy clay loam. |
| | Undergrowth, shadscale and white sage. |
| | No timber. Very little grass for grazing. |
| | S. 89° 49' E. on a random line bet. secs. 13 and 24, |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.10 | Intersect E. bdy. of Tp. 5.75 chs. N. 0° 32' E. of the cor. of secs. 18 and 19 T. 23 S., R. 7 W., heretofore described. |
| | Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 13 and 24, with brass cap marked<br>T 23 S<br>S 13 \| CC<br>S 24 \| S 18<br>S 19<br>R 8 W \| R 7 W.<br>1915 |
| | Dig pits 24 x 18 x 12 ins. crosswise on each line N. and S. of post 3 ft., and W. of post 7 ft. dist.; raise a mound of earth 4 ft. base, 2 ft. high W. of cor. |

| Chains. | |
|---|---|
| | Thence N.89° 49'W.on true line bet.secs.13 and 24, |
| | Over rolling land; through dense undergrowth. |
| 40.05 | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., with brass cap marked<br>¼ S 13 / S 24<br>1915 |
| | Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor. |
| 40.10 | Small swale, course N. 20 ft.below sec.cor. |
| | Ascend. |
| 48.10 | Old road, bears NE. and SW. |
| 70.10 | Small sand ridge, bearing NW. and SE., 15 ft.above swale. |
| | Descend. |
| 77.20 | Wash, 4 ft.deep, 8 lks.wide, course NW. |
| | Ascend. |
| 80.10 | The cor.of secs.13,14,23, and 24, 5 ft.below ridge. |
| | Land, rolling. |
| | Soil, heavy clay loam. |
| | Undergrowth, shadscale and white sage. |
| | No timber. Very little grass. |
| | N.0° 19'E.bet.secs.13 and 14, |
| | Descending through dense undergrowth. |
| 17.70 | Wash, 3 ft.deep, 6 lks.wide, 15 ft.below sec.cor., course N.20° W. |
| 30.00 | Enter heavy greasewood brush, bearing E.and W. |
| 35.51 | Fence line bearing S.89° 25'E. and N.89° 25'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 S 14 \| S 13<br>1915 |
| | Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W. |

SUBDIVISION T.23 S., R.8 W.

Chains.

of cor., 30 ft. below sec. cor.

From this corner north twin peak bears S.41° W.

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, with brass cap marked

T 23 S R 8 W
S 11 | S 12
S 14 | S 13
1915

Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

From this corner north twin peak bears S.34° 10'W.

Corner 20 ft. below ¼ sec. cor.

Land, sloping. Soil, heavy clay loam.

Undergrowth, shadscale, greasewood, and white sage.

No timber. Very little grass for grazing.

---

S.89° 49'E. on a random line bet. secs. 12 and 13,

40.00 Set temp. ¼ sec. cor.

80.37 Intersect E. bdy. of Tp. 4.35 chs. N.0° 32'E. of the cor. of secs. 7 and 18 T.23 S., R.7 W., heretofore described;

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

T 23 S
S 12 | C C
S 13 | S 7
S 18
R 8 W | R 7 W
1915

Dig pits 24 x 18 x 12 ins. N. and S. of post 3 ft., and W. of post 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Thence

N.89° 49'W. on true line bet. secs. 12 and 13,

Descending gradually through dense undergrowth.

| Chains. | |
|---|---|
| .57 | Old road, bears N.and S. |
| 40.18½ | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., with brass cap markdd. |

¼
S 12
S 13
1915

Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N. of cor., 10 ft.below sec.cor.

| | |
|---|---|
| 52.67 | Wash, 1 ft.deep, 4 lks.wide, course N.5 ft.below ¼ sec.cor. |
| 66.17 | Old road, bears NW. and SE. |
| 80.37 | The cor.of secs.11,12,13, and 14. |

Land, gradual slope.

Soil, heavy clay loam.

Undergrowth, shadscale and white sage.

No timber. Very little grass for grazing.

---

N.0° 19'E.bet.secs.11 and 12,

Descending through dense undergrowth.

| | |
|---|---|
| 29.80 | Old road, bearing N.70° E. and S.70° W. |
| 40.00 | Swale, 10 ft.below sec.cor., course W. |

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

¼ S 11 | S 12
1915

Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor.

| | |
|---|---|
| 49.30 | Road between Blackrock and Meadow, bears E.and W. |
| 80.00 | 10 ft.above small swale, |

Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.1,2,11, and 12, with brass cap marked

T 23 S R 8 W
S 2 | S 1
S 11 | S 12
1915

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| | Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. |
| | Land, rolling. |
| | Soil, heavy clay loam. |
| | Undergrowth, shadscale, greasewood, and short sage. |
| | No timber. Very little grass for grazing. |
| | S. 89° 49' E. bet. secs. 1 and 12, |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.28 | Intersect E. bdy. of Tp. 4.03 chs. N. 0° 12' E. of the cor. of secs. 6 and 7, T. 23 S., R. 7 W. heretofore described. |
| | Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 1 and 12, with brass cap marked |
| | T 23 S<br>S 1 \| C C<br>S 12 \| S 6<br>R 8 W \| S 7<br>R 7 W<br>1915 |
| | Dig pits 24 x 18 x 12 ins. N. and S. 3 ft., and W. of post 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. |
| | Thence |
| | N. 89° 49' W. on true line bet. secs. 1 and 12, |
| | Over level land; through dense undergrowth. |
| 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 |
| | S ¼ 1<br>S 12<br>1915 |
| | Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor. |
| 80.28 | The cor. of secs. 1, 2, 11, and 12. |
| | Land, level. |

| Chains. | |
|---|---|
| | Soil, heavy clay loam. |
| | Undergrowth, shadscale and white sage. |
| | No timber. Very little grass for grazing. |
| | N.0° 19'E.bet.secs.1 and 2, on random line, |
| 40.00 | Set temp. $\frac{1}{4}$ sec.cor. |
| 85.98 | Intersect N.bdy.of Tp.1 lk.E.of the cor.of secs.1,2,35, and 36, heretofore described. Thence |
| | S.0° 19'W.on true line bet.secs.1 and 2, |
| | Over level land; through dense undergrowth. |
| 45.22 | Old trail bearing E.and W. |
| 45.98 | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked $\frac{1}{4}$ S 2 \| S 1 / 1915 |
| | Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W. of cor. |
| 85.98. | The cor.of secs.1,2,11, and 12. |
| | Land, level. |
| | Soil, heavy clay loam. |
| | Undergrowth, shadscale, bud sage and greasewood. |
| | No timber. Very little grass for grazing . |
| | From the cor.of secs.2,3,34, and 35, on S.bdy.of Tp., heretofore described, |
| | N.0° 19'E.bet.secs.34 and 35, |
| | Descending gradually, over rolling land; through short dense undergrowth. |
| 5.10 | Wash, 10 lks.wide, 2 ft.deep, course N.60° W. |
| 40.00 | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked $\frac{1}{4}$ S 34 \| S 35 / 1915 |

SUBDIVISION T.23 S, R.8 W.

| Chains. | |
|---|---|
| | Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor., 60 ft. below sec. cor. |
| 49.70 | Road, from Kanosh to Blackrock bears N.62° E. and S.67° W. |
| 50.00 | Swale, 10 ft. below ¼ sec. cor., course N.60° E. |
| | Ascend gradually, 50 ft. to |
| 80.00 | Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 26, 27, 34, and 35, with brass cap marked |

T 23 S R 8 W
S 27 | S 26
S 34 | S 35
1915

from which

A cedar 14 ins. dia., bears N.0° 44'E. 444 lks. dist., marked T 23 S R 8 W S 26 B T

A cedar, 8 ins. dia., bears N.26° 48'W. 335 lks. dist., marked T 23 S R 8 W S 27 B T

Dig pits 18 x 18 x 12 ins. SE. and SW. of post 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. No other bearing trees within limits.

Land, rolling.

Soil, sandy and clay loam.

Undergrowth, sage, yellow brush, and shadscale.

Some grass for grazing.

Timber, few scattering cedars.

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The cor. of secs. 25, 26, 35, and 36 being plainly visible, I run for said corner,

S.89° 51'E. on a random line bet. secs. 26 and 35,

| | |
|---|---|
| 40.00 | Set temp. ¼ sec. cor. |
| 79.98 | Intersect N. and S. line at the cor. of secs. 25, 26, 35, and 36. Thence |

N.89° 51'W. on true line bet. secs. 26 and 35,

| Chains. | |
|---|---|
| | Over rolling land; through dense short undergrowth; ascending. |
| 12.18 | Top of spur, 10 ft. above sec. cor., bears N.30° E., and SW. Descend. |
| 24.98 | Road, from Kanosh to Blackrock bears N.65° E., and S.52°W. |
| 28.18 | Swale, 25 ft. below spur, course N.65° E. |
| | Ascend. |
| 30.28 | Old road, bears N.32° E., and S.57°W. |
| 39.99 | 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>S 26<br>¼<br>S 35<br>1915<br>from which<br>A cedar, 12 ins. dia., bears N.41° 45'W. 202 lks. dist., marked ¼ S 26 B T<br>A cedar, 14 ins. dia., bears S.46° 57'W. 330 lks. dist., marked ¼ S 35 B T |
| | Corner 25 ft. above swale. |
| 42.78 | Enter scattering cedar timber, bearing N. and S. Ascend. |
| 58.98 | Leave scattering cedar timber, bearing N.50° W., and S. |
| 79.98 | The corner of secs. 26, 27, 34, and 35, 80 ft. above ¼ sec. cor. |
| | Land, rolling. |
| | Soil, east half gravelly and rocky and clay loam; west half, sandy, clay loam. |
| | Undergrowth, sage, yellow brush, and shadscale. |
| | Some grass for grazing. |
| | Timber, scattering cedars. |
| | N.0° 19'E. bet. secs. 26 and 27, |
| | Ascending over rolling mountainous land; through short dense undergrowth. |
| 4.40 | Enter scattering cedar timber, bearing E. and S.70° W. |

| Chains. | |
|---|---|
| 7.00 | Leave valley; enter foot hills bearing E.and W. |
| 40.00 | Set an iron post, 3 ft.long, 1 in.in dia., 6 ins.in the ground, on solid rock, with mound of stones around post, for ¼ sec.cor., with brass cap marked<br>¼ S 27 \| S 26<br>1915<br>from which<br>A ledge, 15 ft.long, 8 ft.high, bears S.56° E.12 lks.dist., which I mark B O with a cross.<br>A cedar 14 ins.dia., bears S.80° W. 126 lks.dist. marked ¼ S 27 B T<br>Corner 310 ft.above sec.cor. |
| | Leave timber, bearing E.and W. Ascend abruptly. |
| 46.80 | Foot of ledges, bearing N.60° W., and S.60° E. |
| 49.12 | Top of east side of peak projecting S.80° E., 200 ft. above ¼ sec.cor. Descend. |
| | SW.cor.of fence bears N.84° 02'E. |
| 49.70 | Leave main ledges bearing N.80° W., and S.80° E. Thence through scattering ledges and boulders. |
| 55.95 | Top of ledge, 15 ft.high, 50 ft.long, bears E.and W. |
| 57.85 | Draw, 190 ft.below peak, drains SE. Ascend. |
| 63.60 | Ridge, 75 ft.above draw, bearing N.10° E., and S.60° W. Descend. |
| 64.76 | Working of new mine, open cut in rock, bears N.80° W. This cut is 40 ft.long, 10 ft.average height, 8 ft. average width, with timber chute 120 ft.long below, for loading ore. Well defined vein, iron ore, magnetite. |
| 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>T 23 S \| R 8 W<br>S 22 \| S 23<br>S 27 \| S 26<br>1915<br>from which<br>A lone cedar, 8 ins.dia., bears S.85° 05'W.469 lks.dist., marked T 23 S R 8 W S 27 B T |

| Chains. | |
|---|---|
| | No other trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Corner is 225 ft. below ridge. |
| | From this corner same new mine working bears S.73°25'W. |
| | Land, rolling, mountainous. |
| | Soil, S.15.00 chs. sandy and clay loam; N.65.00 chs. gravelly and rocky. |
| | Undergrowth, sage and shadscale. |
| | Some grass for grazing. |
| | Timber, cedar. |
| | S.89° 51'E. on a random line bet. secs. 23 and 26, |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.04 | Intersect N. and S. line 2 lks. S. of the cor. of secs. 23, 24, 25, and 26. Thence |
| | N.89° 52'W. on true line bet. secs. 23 and 26, |
| | Ascending over rolling mountainous land; through dense short undergrowth. |
| 12.54 | Old road, bearing N.35° W., and S.35° E. |
| 16.54 | Old road, bearing N.30° W., and S.30° E. |
| 31.49 | Post and barbed-wire fence, (3 wires), bearing N.29°37' W. and S.29° 37'E. At about 4.25 chs. S.29° 37'E. fence turns S.3° E. |
| | Begin abrupt ascent, bearing N.29° 37'W., and S.29°37'E. |
| 40.02 | Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in the ground, surrounded by mound of stone, for ¼ sec. cor. with brass cap marked |
| | S 23 / ¼ / S 26 / 1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| | Corner is 180 ft. above sec. cor. |
| | From this corner a spring bears N.25° E. about 16.00 chs. dist.; flows 1 gallon in 2½ minutes at this time; water alkaline, fit for stock watering only. |

| Chains. | |
|---|---|
| 40.26 | In line with wire fence about 17.00 chs. N.0° 31'E., bears N.0° 31'E. |
| 58.14 | Spur ledge, 130 ft. above ¼ sec. cor., bears N. and S.30° W. Descend. |
| 65.74 | Draw, 25 ft. below spur, course N. Ascend. |
| 73.64 | Spur, 115 ft. above draw, projects N.5° W. Descend. |
| 80.04 | The cor. of secs. 22, 23, 26, and 27, 10 ft. below spur. |
| | Land, rolling, mountainous. |
| | Soil, east 30.04 chs. sandy and clay loam; west 50.00 chs. gravelly and rocky. |
| | Undergrowth, sage and shadscale. |
| | Some grass for grazing. |
| | No timber. |
| | N.0° 19'E. bet. secs. 22 and 23, |
| | Over rolling mountainous land; through dense short undergrowth; descend. |
| 32.30 | Leave foot hills; enter valley bearing N.40° W., and S. 60° E. |
| 39.00 | Road, bears N.60° W., and S.70° E. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, with mound of stone around post, for ¼ sec. cor., with brass cap marked ¼ S 22 \| S 23 1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Corner is 245 ft. below sec. cor. |
| 61.00 | Enter scattering cedar timber, bearing N.60° E. and S.60° W. |
| 64.00 | Old road, bears NW. and SE. |
| 70.00 | Enter heavy timber, bearing E. and W. |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, with brass cap marked |

Chains.

T 23 S R.8.W
S 15 | S 14
S 22 | S 23
1915

from which

A cedar 12 ins. dia. bears N.49° 35'E.124 lks. dist. marked T 23 S R 8 W S 14 B T

A cedar, 6 ins. dia., bears S.33° 04'E.115 lks. dist., marked T 23 S R 8 W S 23 B T

A cedar, 10 ins. dia., bears S.60° 08'W.206 lks. dist., marked T 23 S R 8 W S 22 B T

A cedar, 8 ins. dia., bears N.74° 15'W.165 lks. dist., marked T 23 S R 8 W S 15 B T

Corner is 85 ft. below ¼ sec. cor.

Land, rolling.

Soil, south half-mile gravelly and rocky; north half, sandy and clay loam.

Undergrowth, sage, yellow brush, greasewood, and shadscale. Some grass for grazing.

Timber, cedar.

---

S.89° 52'E. on random line bet. secs. 14 and 23,

40.00 Set temp. ¼ sec. cor.

79.94 Intersect N. and S. line 9 lks. N. of the cor. of secs. 13, 14, 23, and 24. Thence

N.89° 48'W. on true line bet. secs. 14 and 23,

Over level land; through dense short undergrowth.

3.10 Enter plowed land, bearing N.5° W. and S.5° E.; extends south 5.00 chs. and north about 35.00 chs.

15.20 Leave plowed land, bearing N.5° W. and S.5° E.

17.70 Old road, bearing N.30° W. and S.30° 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

S 14
¼
S 23
1915

| Chains. | |
|---|---|
| | Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor. Corner is 10 ft. above sec. cor. |
| | From corner point corner of fence bears S.0° 45'W. 496 lks. dist. |
| 59.76 | Fence, bears N.2° 41'E. and S.2° 41'W.; corner of fence 460 lks. dist. |
| | Enter scattering cedar timber, bearing N. and S. |
| 79.94 | The cor. of secs. 14, 15, 22, and 23, 20 ft. above ¼ sec. cor. |
| | Land, almost level. |
| | Soil, sandy and clay loam. |
| | Undergrowth, white and black sage, yellow brush, and shadscale. Some grass for grazing. |
| | Timber, scattering cedar. |
| | N.0° 19'E. bet. secs. 14 and 15, |
| | Over almost level land; through heavy cedar timber and dense short undergrowth. Descend. |
| 22.00 | Leave timber, bearing NE. and N.30° W. |
| 35.90 | The fence corner to the east bears S.89° 47'E.; this is the general bearing of the west part of the fence line. |
| 39.40 | Old road, bears N.56° 30'E. and S.58° 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 ¼ S 15 \| S 14 1915 |
| | Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor. Corner is 50 ft. below sec. cor. |
| | Corner of fence bears S.79° E. |
| 49.45 | Old road, bears N.80° E. and S.80° W. |
| 65.00 | Old road, bears NE. and SW. |
| 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 |

| Chains | |
|---|---|
| | T 23 S R 8 W<br>S 10 \| S 11<br>S 15 \| S 14<br>1915 |
| | Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. |
| | Corner is 35 ft. below ¼ sec. cor. |
| | From sec. cor., corner of fence bears S.25° 53'E. |
| | Prominent peak bears S.13° 18'W. |
| | Land, rolling. |
| | Soil, sandy and clay loam. |
| | Undergrowth, yellow brush and shadscale. |
| | Very little grass for grazing. |
| | Timber, cedar. |
| | The corner of secs. 11, 12, 13, and 14 being plainly visible, I run for said corner, |
| | S.89° 56'E. on a random line bet. secs. 11 and 14, |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.96 | Intersect N. and S. line at the cor. of secs. 11, 12, 13, and 14. Thence |
| | N.89° 56'W. on true line bet. secs. 11 and 14, |
| | Over level land; through dense short undergrowth. |
| 12.36 | Wash, 10 lks. wide, 2 ft. deep, course N.10° E. |
| 28.26 | Old road, bears N.50° E. and S.50° W. |
| 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 |
| | S 11<br>¼<br>S 14<br>1915 |
| | Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor. |
| 64.96 | Old road, bears NE. and SW. |
| 79.96 | The cor. of secs. 10, 11, 14, and 15. |
| | Land, level. |

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| Chains. | |
|---|---|
| | Soil, sandy and clay loam. |
| | Undergrowth, shadscale. Very little grass for grazing. |
| | No timber. |
| | N.0° 19'E.bet.secs.10 and 11, |
| | Over level land; through dense short undergrowth. |
| 23.30 | Old road, bears NE. and 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 S 10 \| S 11<br>1915 |
| | Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W. of cor. |
| | Corner is 20 ft.below sec.cor. |
| 44.00 | Old road, from Meadow to Blackrock, bears N.77°E. and S. 81° W. |
| 80.00 | Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.2,3,10, and 11, with brass cap marked<br>T 23 S R 8 W<br>S 3 \| S 2<br>S 10 \| S 11<br>1915 |
| | Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor. |
| | Corner 10 ft.below ¼ sec.cor. |
| | Land, level. Soil, clay loam. |
| | Undergrowth, shadscale. |
| | Very little grass for grazing. |
| | No timber. |
| | S.89° 56'E.on a random line bet.secs.2 and 11, |
| 40.00 | Set temp.¼ sec.cor. |

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| 80.00 | Intersect N.and S.line 2 lks.N.of the cor.of secs.1,2, 11, and 12. Thence |
| | N.89° 55'W.on true line bet.secs.2 and 11, |
| | Over level land; through short, dense undergrowth. |
| 40.00 | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked |
| | S 2 / $\frac{1}{4}$ / S 11 / 1915 |
| | Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist., raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor. |
| 66.40 | Old road, bears N.30° E.and S.30° W. |
| 80.00 | The cor.of secs.2,3,10, and 11. |
| | Land, level. |
| | Soil, clay loam. |
| | Undergrowth, shadscale. No grass for grazing. |
| | No timber. |
| | N.0° 19'E.on a random line bet.secs.2 and 3, |
| 40.00 | Set temp.$\frac{1}{4}$ sec.cor. |
| 85.86 | Intersect N.bdy.of Tp.$4\frac{1}{2}$ lks.E.of the cor.of secs.2,3, 34, and 35, heretofore described. |
| | Thence, |
| | S.0° 17'W.on true line bet.secs.2 and 3, |
| | Over level land; through short dense undergrowth. Asc. |
| 45.86 | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked |
| | $\frac{1}{4}$ S 3 \| S 2 / 1915 |
| | Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W. of cor. Corner 10 ft.above sec.cor. |
| 51.36 | Old road, bears NE. and SW. |
| 85.86 | The cor.of secs.2,3,10, and 11, 10 ft.above $\frac{1}{4}$ sec.cor. |

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| | Land, level. |
| | Soil, sandy and clay loam. |
| | Undergrowth, south 65.00 chs. shadscale; north 20.86 chs. yellow brush and greasewood. |
| | Very little grass for grazing. |
| | No timber. |
| | From the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the township, heretofore described, |
| | N.0° 18'E. bet. secs. 33 and 34, |
| | Descending through dense undergrowth. |
| 5.00 | Depression, drains W. Ascend. |
| 6.20 | Road from Kanosh to Blackrock, bearing NE. and SW. |
| 25.10 | Old road, 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 |
| | $\frac{1}{4}$ S 33 \| S 34<br>1915 |
| | Dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.; raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. Cor. 30 ft. above sec. cor. |
| 62.80 | Enter timber, scattering cedar, bearing E. and W.; enter foot-hills, bearing E. and W. |
| 68.70 | Point of spur, 50 ft. above depression, projects W. |
| 74.40 | Swale, 5 ft. below spur, drains S.10° W. Ascend. |
| 80.00 | 10 ft. above swale, |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 27, 28, 33, and 34, with brass cap marked |
| | T 23 S R 8 W<br>S.28 \| S.27<br>S 33 \| S 34<br>1915 |
| | from which |
| | A cedar, 16 ins. dia., bears N.87° 40'E. 191 lks. dist., marked T 23 S R 8 W S 27 B T |
| | A cedar, 10 ins. dia., bears S.80° 05'E. 165 lks. |

| Chains. | |
|---|---|
| | dist., marked T 23 S R 8 W S 34 B T |
| | A cedar 14 ins.dia., bears S.45° 55'W.200 lks. |
| | dist., marked T 23 S R 8 W S 33 B T |
| | A cedar 14 ins.dia., bears N.66° 40'W.193 lks. |
| | dist., marked T 23 S R 8 W S 28 B T |
| | Land, rolling. |
| | Soil, gravel and clay loam. |
| | Undergrowth, sagebrush, shadscale, white sage, and yellow brush. |
| | Timber, cedar. Very little grass for grazing. |
| | S.89° 49'E.on a random line bet.secs.27 and 34, |
| 40.00 | Set temp.$\frac{1}{4}$ sec.cor. |
| 80.02 | Intersect N.and S.line at the cor.of secs.26,27,34, and 35. Thence |
| | N.89° 49'W.on true line bet.secs.27 and 34, |
| | Over rolling land; through dense undergrowth. Asc.35 ft.to |
| 40.01 | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked |
| | S 27 / $\frac{1}{4}$ / S 34 / 1915 |
| | Raise a mound of stone 2 ft.base, 1½ ft.high N.of cor. |
| 47.02 | Enter scattering cedars, bearing N.and S. |
| 55.02 | Enter foot hills bearing S.30° W., and NE. Ascend. |
| 61.02 | Spur,, projects S. 35 ft.above sec.cor. Descend. |
| 63.92 | Draw, 15 ft.below spur, course S. |
| | Ascend. |
| 66.92 | Spur, 10 ft.above draw, projects S. |
| | Descend. |
| 71.92 | Draw, 10 ft.below spur, course S. |
| | Ascend. |
| 77.62 | Spur, 15 ft.above draw, projects S. |
| | Descend 5 ft.to |
| 80.02 | The cor.of secs.27,28,33, and 34. |

Chains.

Land, rolling.

Soil, gravel and clay loam.

Undergrowth, sagebrush, shadscale, and white sage.

Timber, cedar. Very little grass for grazing.

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N.0° 18'E.bet.secs.27 and 28,

Ascending through dense sagebrush and scattering cedars.

33.00 Leave scattering cedars, bearing E. and W.

40.00 Set an iron post 3 ft.long, 1 in.in dia., 10 ins.in the ground, to solid rock, with mound of stones around post, for ¼ sec.cor., with brass cap marked

¼ S 28 | S 27
1915

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

43.70 Ridge, 130 ft.above sec.cor. bears E.and W.

Descend.

49.40 Enter scattering cedars bearing E.and W.

52.00 Wash,3 ft.deep, 8 lks.wide, 70 ft.below spur, course NW.

62.00 Draw, 155 ft.below ridge, course NW. Ascend.

64.30 Spur, 5 ft.above draw, projects NW. Descend.

80.00 75 ft.below spur,

Set an iron post 3 ft.long, 2 ins.in dia., 14 ins.in the ground, to solid rock, with mound of stones around post, for cor.of secs.21,22,27, and 28, with brass cap marked

T 23 S R 8 W
S 21 | S 22
S 28 | S 27
1915

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

Land, rolling, mountainous.

Soil, gravel and clay loam.

Undergrowth, sagebrush, shadscale, black sage, and chaparral.

Timber, cedar. Very little grass.

| Chains. | |
|---|---|
| | S.89° 49'E.on a random line bet.secs.22 and 27, |
| 40.00 | Set temp.¼ sec.cor. |
| 80.05 | Intersect N.and S.line 8 lks.N.of the cor.of secs.22,23, 26, and 27. Thence |
| | N.89° 46'W.on true line bet.secs.22 and 27, |
| | Over rolling mountainous land; through dense undergrowth and few scattering cedars. Descending. |
| 9.25 | Draw, 110 ft.below sec.cor., course N. |
| | Ascend. |
| 13.35 | Spur, 10 ft.above draw, projects N. Descend. |
| 15.65 | Draw, 5 ft.below spur, course NE. Ascend. |
| 25.15 | Old road, bears NE. and SW. |
| 25.55 | Spur, 105 ft.above draw, projects NE. |
| | Descend. |
| 27.35 | Draw, 10 ft.below spur, course N.10° E. |
| | Ascend. |
| 37.65 | Spur, 80 ft.above draw, projects NE. Desc.30 ft.to |
| 40.02½ | Set an iron post 3 ft.long, 1 in.in dia., 4 ins.in the ground, to solid rock, with mound of stones around post, for ¼ sec.cor., with brass cap marked |
| | S 22<br>¼<br>S 27<br>1915 |
| | Raise a mound of stone 2 ft.base, 1½ ft.high N.of cor. |
| 80.05 | The cor.of secs.21,22,27, and 28, 260 ft.below spur. |
| | Land, rolling, mountainous. |
| | Soil, gravel, quartzite boulders, and clay loam. |
| | Undergrowth, shadscale, sagebrush, black sage, and yellow brush. |
| | Timber, cedar. Very little grass for grazing. |
| | N.0° 18'E.bet.secs.21 and 22, |
| | Descending through dense sagebrush and scattering cedar. |
| 20.00 | Leave foot hills bearing E. and S.65° W. |

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| 30.10 | Old road, bears E. and 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 S 21 \| S 22<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Corner 120 ft. below sec. cor. |
| 80.00 | 210 ft. below sec. cor. |
| | Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, with brass cap marked<br>T 23 S R 8 W<br>S 16 \| S 15<br>S 21 \| S 22<br>1915 |
| | from which |
| | A cedar 16 ins. dia., bears N.56° 25'E. 513 lks. dist., marked T 23 S R 8 W S 15 B T |
| | A cedar 18 ins. dia., bears S.7° E. 215 lks. dist. marked T 23 S R 8 W S 22 B T |
| | A cedar, 10 ins. dia., bears S.52° 10'W. 527 lks. dist., marked T 23 S R 8 W S 21 B T |
| | A cedar 18 ins. dia., bears N.83° 30'W. 99 lks. dist., marked T 23 S R 8 W S 16 B T |
| | Land, gradual slope. |
| | Soil, gravel and sandy loam. |
| | Undergrowth, sagebrush, greasewood, shadscale, black sage, and yellow brush. |
| | Timber, cedar. Very little grass for grazing. |
| | S.89° 46'E. on a random line bet. secs. 15 and 22, |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.97 | Intersect N. and S. line 9 lks. N. of the cor. of secs. 14, 15, 22, and 23. Thence |
| | N.89° 42'W. on true line bet. secs. 15 and 22, |
| | Ascending over rolling land; through dense undergrowth. |

| Chains. | |
|---|---|
| | and scattering cedar timber. |
| 33.57 | Old road, bears SE.and W. |
| 39.27 | Recross road, bearing W.and NE. |
| 39.98½ | 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>S 15<br>¼<br>S 22<br>1915<br>from which<br>A cedar, 12 ins.dia., bears S.53° 55'E.113 lks. dist., marked ¼ S 22 B T<br>A cedar, 16 ins.dia., bears N.49° 15'W.183 lks. dist., marked ¼ S 15 B T |
| | Old corral, 1.00 ch.dia., 2.00 chs.N.of ¼ sec.cor. |
| | Corner 40 ft.above sec.cor. |
| 44.97 | Old road, bearing NW. and E. |
| 53.07 | Old road, bearing NW. and SE. |
| 54.97 | Small swale, 5 ft.below ¼ sec.cor., course N. Ascend. |
| 79.97 | The cor.of secs.15,16,21, and 22, 10 ft.above swale. |
| | Land, rolling. |
| | Soil, sandy loam. |
| | Undergrowth, greasewood, chaparral, black sage, yellow brush, and shadscale.Very little grass for grazing. |
| | Timber, scattering cedar. |
| | N.0° 18'E.bet.secs.15 and 16, |
| | Descending through dense undergrowth and scattering cedars. |
| 8.80 | Old road, bears N.60° W. and S.60° E. |
| 23.40 | Leave scattering cedars bearing E.and 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 S 16 \| S 15<br>1915. |
| | Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor. |
| | Corner 40 ft.below sec.cor. |

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| 80.00 | 55 ft. below sec. cor. |
| | Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 9, 10, 15, and 16, with brass cap marked |
| | T 23 S R 8 W<br>S 9 \| S 10<br>S 16 \| S 15<br>1915 |
| | Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. |
| | Land, level. |
| | Soil, gravel and sandy loam. |
| | Undergrowth, sagebrush, shadscale, yellow brush, greasewood, and white sage. Very little grass for grazing. |
| | Timber, scattering cedars. |
| | The cor. of secs. 10, 11, 14, and 15 being plainly visible, therefore, |
| | S.89°41'E. on a random line bet. secs. 10 and 15, |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.98 | Intersect N. and S. line at the corner of secs. 10, 11, 14 and 15. Thence, |
| | N.89° 41'W. on true line bet. secs. 10 and 15, |
| | Ascending through dense shadscale. |
| 9.98 | Old road, bears NE. and SW. |
| 39.99 | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., with brass cap marked |
| | S 10<br>¼<br>S 15<br>1915 |
| | Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor. |
| | Corner 10 ft. above sec. cor. |
| 53.18 | Old road, bears NW. and SE. |
| 79.98 | The cor. of secs. 9, 10, 15, and 16, 5 ft. above ¼ sec. cor. |
| | Land, level prairie. Soil, heavy clay loam. Undergrowth, shadscale. No timber. |

| Chains. | |
|---|---|
| | N.0° 18'E.bet.secs.9 and 10, |
| | Descending, through dense shadscale. |
| 15.70 | Old road, bearing NW. and SE. |
| 25.50 | Road between Meadow and Blackrock bearing N.80° E. and S.80° 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 S 9 \| S 10<br>1015 |
| | Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor. 20 ft.below sec.cor. |
| 50.00 | 20 ft.below sec.cor. |
| | 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>T 23 S R 8 W<br>S 4 \| S 3<br>S 9 \| S 10<br>1015 |
| | Dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor. |
| | Land, level, nearly. |
| | Soil, heavy clay loam. Undergrowth, shadscale. |
| | No timber. Very little grass for grazing. |
| | The corner of secs.2,3,10, and 11 being plainly visible; therefore |
| | S.89° 45'E.on a random line bet.secs.3 and 10, |
| 40.00 | Set temp.¼ sec.cor. |
| 79.97 | Intersect N.and S.line at the cor.of secs.2,3,10, and 11; thence |
| | N.89° 45'W.on a true line bet.secs.3 and 10, |
| | Over level land; through dense shadscale. |
| 37.17 | Old road, bearing S.10° W. and N.10° E. |
| 39.98½ | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the |

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
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| | ground, for $\frac{1}{4}$ sec.cor., with brass cap marked<br>S 3<br>$\frac{1}{4}$<br>S 10<br>1915 |
| | Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist.; raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor. |
| 79.97 | The cor.of secs.3,4,9, and 10. |
| | Land, level prairie. |
| | Soil, heavy clay loam. |
| | Undergrowth, shadscale. |
| | No timber. Very little grass for grazing. |
| | N.0° 18'E.on a random line bet.secs.3 and 4, |
| 40.00 | Set temp.$\frac{1}{4}$ sec.cor. |
| 85.46 | Intersect N.bdy.of Tp.8 lks.E.of the cor.of secs.3,4,33, and 34, heretofore described. Thence |
| | S.0° 15'W.on true line bet.secs.3 and 4, |
| | Ascending through dense shadscale. |
| 45.46 | 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>$\frac{1}{4}$ S 4 \| S 3<br>1915 |
| | Dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W. of cor., 10 ft.above sec.cor. |
| 85.46 | The cor.of secs.3,4,9, and 10, 10 ft.above $\frac{1}{4}$ sec.cor. |
| | Land, level prairie, nearly. |
| | Soil, heavy clay loam. |
| | Undergrowth, shadscale, bud sage, and yellow brush. |
| | No timber. Very little grass for grazing. |

| Chains. | |
|---|---|
| | From the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the Tp., heretofore described, |
| | N.0° 17'E. bet. secs. 32 and 33, |
| | Ascending over rolling land; through dense short undergrowth. |
| 6.50 | Small ridge in valley, 50 ft. above sec. cor., bearing N.70° E. and S.70° W. |
| | Descend. |
| 19.65 | Old road, bearing N.85° E. and S.80° W. |
| 20.00 | Swale, 40 ft. below ridge, course W. Ascend. |
| 34.30 | Small ridge, 15 ft. above swale, bearing N.60° E. and S. 65°W. 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 S 32 \| S 33<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Corner is 15 ft. below ridge. |
| 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>T 23 S R 8 W<br>S 29 \| S 28<br>S 32 \| S 33<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Corner is 40 ft. below ¼ sec. cor. |
| | Land, rolling. |
| | Soil, gravelly and rocky, sandy and clay loam. |
| | Undergrowth, sage and shadscale. |
| | Some grass for grazing. |
| | No timber. |
| | S.89° 49'E. on a random line bet. secs. 28 and 33, |
| 40.00 | Set temp. ¼ sec. cor. |

| Chains. | |
|---|---|
| 80.10 | Intersect N.and S.line 14 lks.S.of the cor.of secs.27, 28,33, and 34; thence |
| | N.59° 55'W.on true line bet.secs.28 and 33, |
| | Ascending over rolling land; through dense short undergrowth, and scattering cedar timber. |
| 5.90 | Spur, 10 ft.above sec.cor.; projects S. Descend. |
| 30.90 | Swale, 45 ft.below spur, course S. |
| | Ascend. |
| 35.90 | Ridge, 15.ft. above swale,bearing N.30° E. and S.30° W. |
| 40.05 | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., with brass cap marked |
| | S ¼ 28 / S 33 1915 |
| | from which |
| | A cedar, 8 ins.dia., bears S.19° 20'E.156 lks. dist., marked ¼ S 33 B T |
| | No other bearing trees within limits; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor. |
| | Corner is 40 ft.below ridge. |
| 47.70 | Foot of abrupt descent from ridge, bears N.and S.20° W. |
| 50.10 | Leave scattering timber, bearing N.and S. |
| 80.10 | The cor.of secs.28,29,32, and 33, 170 ft.below ¼ sec.cor. |
| | Land, rolling. |
| | Soil, gravelly, rocky, sandy, and clay loam. |
| | Undergrowth, black and white sage, and shadscale. |
| | Very little grass for grazing. |
| | Timber, scattering cedar. |
| | N.0° 17'E.bet.secs.28 and 29, |
| | Over almost level land; through dense, short undergrowth; descending. |
| 33.20 | Old road, bears NE. and 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 |

| Chains. | |
|---|---|
| | $\frac{1}{4}$ S 29 \| S 28<br>1915 |
| | Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. |
| | Corner is 20 ft. below sec. cor. |
| 80.00 | Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, with brass cap marked<br>T 23 S R 8 W<br>S 20 \| S 21<br>S 29 \| S 28<br>1915 |
| | Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. |
| | Corner is 20 ft. below $\frac{1}{4}$ sec. cor. |
| | Land, almost level. |
| | Soil, sandy and clay loam. |
| | Undergrowth, white and black sage, yellow brush, and shadscale. |
| | Very little grass for grazing. |
| | No timber. |
| | S. 89° 55' E. on a random line bet. secs. 21 and 28, |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 80.12 | Intersect N. and S. line 4 lks. S. of the cor. of secs. 21, 22, 27, and 28. Thence |
| | N. 89° 57' W. on true line bet. secs. 21 and 28, |
| | Ascending over rolling land; through dense short undergrowth. |
| 15.12 | Spur, 20 ft. above sec. cor., projects N. |
| 40.06 | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked<br>S 21<br>$\frac{1}{4}$<br>S 28<br>1915 |
| | Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. |

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| Chains | |
|---|---|
| | Corner is 60 ft. below spur. |
| 58.62 | Old road, bearing N.30° E. and S.30° W. |
| 80.18 | The cor. of secs. 20, 21, 28, and 29, 65 ft. below ¼ sec. cor. |
| | Land, rolling. |
| | Soil, gravelly, and sandy, east half-mile; sandy and clay loam west half. |
| | Undergrowth, black, and white sage and shadscale |
| | Very little grass for grazing. |
| | No timber. |
| | N.0° 17'E. bet. secs. 20 and 21, |
| | Over almost level land; through dense short undergrowth; descending. |
| 10.10 | Old road, bearing N.80° W. and S.80° 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 S 20 \| S 21<br>1915 |
| | Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor. |
| | Corner is 20 ft. below sec. cor. |
| 80.00 | Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 16, 17, 20, and 21, with brass cap marked<br>T 23 S R 8 W<br>S 17 \| S 16<br>S 20 \| S 21<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Corner is 20 ft. below ¼ sec. cor. |
| | Land, almost level. |
| | Soil, sandy and clay loam. |
| | Undergrowth, black, and white sage, yellow brush, and shadscale. |
| | Very little grass for grazing. |

| Chains. | No timber. |
|---|---|
| | Flag at corner of secs.15,16,21, and 22 being plainly visible; therefore |
| | N.89° 59'E.on random line bet.secs.16 and 21, |
| 40.00 | Set temp.¼ sec.cor. |
| 80.00 | Intersect N.and S.line at the cor.of secs.15,16,21, and 22; thence |
| | S.89° 59'W.on true line bet.secs.16 and 21, |
| | Over level land; through dense short undergrowth, and scattering cedar timber. |
| 1.00 | Leave cedar timber, bearing N.and S. |
| 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>S 16<br>¼<br>S 21<br>1915 |
| | Dig pits 18 x 18 x 18 ins.E.and W.of post 3 ft.dist.; and raised a mound of earth 3½ ft.base, 1½ ft.high N. of cor. |
| 80.00 | The cor.of secs.16,17,20, and 21. |
| | Land, level. |
| | Soil, sandy and clay loam. |
| | Undergrowth, shadscale, white, and black sage, and yellow brush. |
| | Very little grass for grazing. |
| | Timber, scattering cedar. |
| | N.0° 17'E.bet.secs.16 and 17, |
| | Over almost level land; through dense short undergrowth; descending. |
| 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 S 17 \| S 16<br>1915 |

SUBDIVISION T.23 S., R.8 W.

Chains.

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

Corner is 65 ft. below sec. cor.

79.60 Old road, bearing N.50° W. and S.50° E.

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

T 23 S R 8 W
S 8 | S 9
S 17 | S 16
1945

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

Corner is 25 ft. below ¼ sec. cor.

Land, almost level.

Soil, sandy and clay loam.

Undergrowth, shadscale, and black sage.

Very little grass for grazing.

No timber.

From sec. cor. steel water tank on R.R. bears N.31° 02'W.

Peak in Tp. bears S.32° 48'E.

Knoll in Tp. bears S.16° 38'E.

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Flag at corner of secs. 9, 10, 15, and 16 being plainly visible; therefore

S.69° 59'E. on a random line bet. secs. 9 and 16,

40.00 Set temp. ¼ sec. cor.

80.05 Intersect N. and S. line at the cor. of secs. 9, 10, 15, and 16; thence

N.69° 59'W. on true line bet. secs. 9 and 16,

Over nearly level land; ascending gently through dense short undergrowth.

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

Chains.

S 1/4 9
S 16
1915

Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

Corner is 10 ft. above sec. cor.

80.05 The cor. of secs. 8, 9, 16, and 17, 10 ft. above ¼ sec. cor.

Land, almost level.

Soil, sandy and clay loam.

Undergrowth, shadscale.

Very little grass for grazing.

No timber.

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N. 0° 17' E. bet. secs. 8 and 9,

Over almost level land; through dense short undergrowth.

17.60 Old road from Meadow to Blackrock, bearing N. 80° E. and S. 75° 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 S 8 | S 9
1915

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

Corner 20 ft. below sec. cor.

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 4, 5, 8, and 9, with brass cap marked

T 23 S R 8 W
S 5 | S 4
S 8 | S 9
1915

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

Corner is 20 ft. below ¼ sec. cor.

Land, almost level.

Soil, sandy and clay loam.

Undergrowth, shadscale.

Very little grass for grazing. No timber.

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| | Flag at corner of secs.3,4,9, and 10 being plainly visible; therefore |
| | S.89° 58'E.on a random line bet.secs.4 and 9, |
| 40.00 | Set temp.¼ sec.cor. |
| 80.07 | Intersect N.and S.line at the cor.of secs.3,4,9, and 10; thence |
| | N.89° 58'W.on true line bet.secs.4 and 9, |
| | Over almost level land; through dense short undergrowth; ascending. |
| 40.03½ | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., with brass cap marked |
| | S 4 / ¼ / S 9 / 1915 |
| | Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N. of cor. |
| | Corner is 10 ft.above sec.cor. |
| 80.07 | The cor.of secs.4,5,8, and 9; 10 ft.above ¼ sec.cor. |
| | Land, nearly level. |
| | Soil, clay loam. |
| | Undergrowth, shadscale. |
| | Very little grass for grazing. |
| | No timber. |
| | N.0° 17'E.on a random line bet.secs.4 and 5, |
| 40.00 | Set temp.¼ sec.cor. |
| 85.35 | Intersect N.bdy.of Tp.at the cor.of secs.4,5,32, and 33, heretofore described. Thence |
| | S.0° 17'W.on a true line bet.secs.4 and 5, |
| | Over level land; through dense short undergrowth. |
| 45.35 | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., with brass cap marked |
| | ¼ S 5 \| S 4 / 1915 |

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| | Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. |
| 85.35 | The cor.of secs.4,5,8, and 9. |
| | Land, level. |
| | Soil, sandy and clay loam. |
| | Undergrowth, shadscale. |
| | Very little grass for grazing. |
| | No timber. |
| | From the cor.of secs.5,6,31, and 32, on the S.bdy.of Tp. heretofore described, |
| | N.0° 17'E.bet.secs.31 and 32, |
| | Over rolling land; through dense short undergrowth; descending. |
| 9.05 | Road, bearing N.70° E. and S.70° W. |
| 20.00 | Descend into draw, bearing NE. and SW. |
| 26.80 | Old road bearing N.70° E. and S.70° W. |
| 27.60 | Wash, in bottom of draw, 10 lks.wide, 3 ft.deep, course N.70° E.; 40 ft.below sec.cor. Ascend. |
| 33.10 | Top of steep ascent bearing 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., with brass cap marked ¼ S 31 \| S 32 / 1915 |
| | Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. |
| | Corner on top of ascent bearing E.and W., 40 ft.above draw. |
| 50.20 | Enter scattering cedar timber, bearing E.and W. |
| 64.00 | Leave timber, bearing E.and W. |
| 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 T 23 S R 8 W / S 30 \| S 29 / S 31 \| S 32 / 1915 |

SUBDIVISION T.23 S., R.3 W.

| Chains. | |
|---|---|
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Corner is 50 ft. below ¼ sec. cor. |
| | Land, rolling. |
| | Soil, sandy and clay loam. |
| | Undergrowth, black, and white sage, yellow brush, and shadscale. |
| | Some grass for grazing. |
| | Timber, scattering cedar. |
| | Flag at corner of secs. 28, 29, 32, and 33 being plainly visible; therefore |
| | S. 39° 46' E. on a random line bet. secs. 29 and 32, |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Intersect N. and S. line at the cor. of secs. 28, 29, 32, and 33; thence |
| | N. 39° 46' W. on true line bet. secs. 29 and 32, |
| | Over rolling land; through dense short undergrowth; descending. |
| 14.80 | Old road in swale 20 ft. below sec. cor., bearing N. 30° E. and S. 30° W. Swale drains N. 30° E. Ascend. |
| 30.00 | Small ridge, 10 ft. above swale, bears N. and S. 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 |
| | S 29 / ¼ / S 32 / 1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| | Corner is 5 ft. below ridge. |
| 52.20 | East edge of draw, draining N. 20° E. |
| 58.00 | Old road bearing N. 20° E. and S. 20° W. |
| 58.80 | Center of wash 10 lks. wide, 2 ft. deep, in draw, course N. 20° E.; 30 ft. below ¼ sec. cor. Ascend. |
| 67.00 | West edge of draw, bearing N. and S. |
| 80.00 | The cor. of secs. 29, 30, 31, and 32, 25 ft. above draw. |

| Chains. | |
|---|---|
| | Land, rolling. |
| | Soil, sandy and clay loam. |
| | Undergrowth, black and white sage, and shadscale. |
| | Some grass for grazing. |
| | No timber. |
| | Flag at corner of secs.25,30,31, and 36 on W.bdy.of Tp. being plainly visible; therefore |
| | N.59° 46'W.on true line bet.secs.30 and 31, |
| | Over almost level land; through dense short undergrowth; ascending. |
| 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>S 30<br>¼<br>S 31<br>1915 |
| | Raise a mound of stone 2 ft.base, 1½ ft.high N.of cor. |
| | Corner is 20 ft.above sec.cor. |
| 65.00 | Leave valley bearing N.and S.;ascend foot hills. |
| 83.03 | Intersect W.bdy.of Tp.at the cor.of secs.25,30,31, and 36, heretofore described. |
| | Corner is 105 ft.above ¼ sec.cor. |
| | Land, rolling. |
| | Soil, sandy and clay loam; and gravelly. |
| | Undergrowth, black, and white sage, and shadscale. |
| | Some grass for grazing. |
| | No timber. |
| | N.0° 17'E.bet.secs.29 and 30, |
| | Over almost level land; through dense short undergrowth; descending. |
| 40.00 | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., with brass cap marked |

| Chains. | |
|---|---|
| | $\frac{1}{4}$ S 30 \| S 29<br>1915 |
| | Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. |
| | Corner is 10 ft. below sec. cor. |
| 70.00 | Head of draw, 20 ft. below $\frac{1}{4}$ sec. cor., course NW. |
| 80.00 | Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 19, 20, 29, and 30, with brass cap marked |
| | T 23 S R 8 W<br>S 19 \| S 20<br>S 30 \| S 29<br>1915 |
| | Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. |
| | Corner is 5 ft. above draw. |
| | Land, rolling. |
| | Soil, sandy and clay loam. |
| | Undergrowth, sage, yellow brush, and shadscale. |
| | Some grass for grazing. |
| | No timber. |
| | S. 89° 46' E. on a random line bet. secs. 20 and 29, |
| 40.00 | Set temp. $\frac{1}{4}$ sec. cor. |
| 80.02 | Intersect N. and S. line 9 lks. S. of the cor. of secs. 20, 21, 28 and 29. Thence |
| | N. 89° 50' W. on true line bet. secs. 20 and 29, |
| | Over rolling land; through short sage and shadscale undergrowth; descending. |
| 32.00 | E. edge of draw bearing N. and S. |
| 40.01 | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked |
| | S 20<br>$\frac{1}{4}$<br>S 29<br>1915 |
| | Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. |

| Chains. | |
|---|---|
| | of cor. Corner 40 ft. below sec. cor. |
| 56.00 | Bottom of draw, 80 ft. below sec. cor., course N.10° W. |
| | Ascend. |
| 69.00 | W. edge of draw, 35 ft. below ¼ sec. cor., bears N. and S. |
| 80.02 | The cor. of secs. 19, 20, 29, and 30. On ridge bearing N. and S.20° E., 40 ft. above draw. |
| | Land, rolling. |
| | Soil, sandy and clay loam; 2d rate. |
| | Undergrowth, short sage and shadscale. |
| | No timber. |
| | Flag at corner of secs. 19, 24, 25, and 30 on W. bdy. of Tp. being plainly visible; therefore |
| | N.89° 55'W. on true line bet. secs. 19 and 30, |
| | Descending through dense shadscale and sagebrush. |
| 4.89 | Draw, 15 ft. below sec. cor., course N. Ascend. |
| 5.80 | Spur, 5 ft. above draw, projects N. Descend. |
| 10.90 | Draw, 15 ft. below spur, course N. |
| | Ascend. |
| 23.80 | Spur, 25 ft. above draw, projects N. |
| | Descend. |
| 29.60 | Old road, bearing NE. and SW. |
| 30.30 | Wash, in bottom of draw 2 ft. deep, 5 lks. wide, course NE. 25 ft. below spur. 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 |
| | S ¼ 19 / S 30 / 1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| 42.60 | Old road, bearing N. and S. |
| 51.80 | Old road, bearing N.80° E. and S.80° W. |
| 55.63 | Spur, 35 ft. above draw, projects S. |
| 60.60 | Swale, 5 ft. below spur, course NE. |
| 83.36 | Intersect W. bdy. of Tp. at the cor. of secs. 19, 24, 25, and 30, heretofore described. |

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| | Land, rolling hills. |
| | Soil, gravel and clay loam. |
| | Undergrowth, shadscale, greasewood, black sage, and sagebrush. |
| | No timber. Very little grass for grazing. |
| | From cor. of secs. 19, 20, 29, and 30, |
| | N.0° 17'E. bet. secs. 19 and 20, |
| | Descending through dense chaparral and shadscale. |
| 18.10 | Old road, bearing NE. and SW. |
| 18.60 | Wash in bottom of draw, 2 ft. deep, 4 lks. wide, course NE; 45 ft. below sec. cor. Ascend. |
| 27.10 | Spur, 35 ft. above draw, projects NE. 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 S 19 \| S 20<br>1915<br>Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| 45.00 | Swale, 25 ft. below spur, course E. Ascend 15 ft. to |
| 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>T 23 S R 8 W<br>S 18 \| S 17<br>S 19 \| S 20<br>1915<br>from which<br>A cedar, 12 ins. dia., bears S.62° 30'W. 395 lks. dist., marked T 23 S R 8 W S 19 B T<br>A cedar, 8 ins. dia., bears N.76° 05'W. 467 lks. dist., marked T 23 S R 8 W S 18 B T<br>No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Land, rolling. |
| | Soil, gravel and sandy loam. |
| | Undergrowth, chaparral, shadscale, sagebrush and yellow |

| Chains. | |
|---|---|
| | brush. |
| | Timber, few scattering cedars. |
| | Flag at corner of secs.16,17,20, and 21 being plainly visible; therefore |
| | S.89° 48'E.on a random line bet.secs. 17 and 20, |
| 40.00 | Set temp. $\frac{1}{4}$ sec.cor. |
| 79.97 | Intersect N.and S.line at the cor.of secs.16,17,20,and 21; thence |
| | N.89° 48'W.on true line bet.secs.17 and 20, |
| | Descending through dense undergrowth. |
| 24.97 | Small swale, 5 ft.below sec.cor., course N. |
| | Ascend. |
| 27.97 | Small elongated knoll, 5 ft.above swale, bearing N. and S. |
| 39.98½ | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor.,with brass cap marked |
| | S 17 / $\frac{1}{4}$ / S 20 / 1915 |
| | Raise a mound of stone 2 ft.base, 1½ ft.high N.of cor. |
| | Descend. |
| 47.57 | Wash, in bottom of draw, 4 ft.deep, 8 lks.wide, course N.; 15 ft.below knoll. |
| 48.97 | Old road, bearing N.and S. Ascend. |
| 79.97 | The cor.of secs. 17,16,19, and 20, 70 ft.above wash. |
| | Land, rolling prairie. |
| | Soil, gravel and sandy loam. |
| | Undergrowth, chaparral, yellow brush, shadscale, and black sage. Very little grass for grazing. |
| | No timber. |

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| | N.89° 55'W.on a random line bet.secs.18 and 19, |
| 40.00 | Set temp.$\frac{1}{4}$ sec.cor. |
| 83.68 | Intersect W.bdy.of Tp.1 lk.N.of the cor.of secs.13,18, 19, and 24 heretofore described. Thence |
| | S.89° 55'E.on a true line bet.secs.18 and 19, |
| | Over rolling mountainous land; through dense undergrowth; ascending. |
| 3.58 | Ridge, 70 ft.above sec.cor., bearing N.and S. Descend. |
| 10.68 | Swale, 15 ft.below ridge, course S. |
| | Ascend. |
| 15.68 | Top of ledge, 10 ft.above swale, 10 ft.high extends N. and S.100 ft. Descend. |
| 29.56 | Head of draw, 65 ft.below ledge, drains S. |
| | Ascend. |
| 36.08 | Spur, 45 ft.above head of draw; projects S.Desc.10 ft.to |
| 43.68 | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., with brass cap marked |
| | S 18 / $\frac{1}{4}$ / S 19 / 1915 |
| | Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high N.of cor. |
| 59.26 | Enter scattering cedar timber, bearing N.and S. |
| 79.76 | Leave timber. |
| 80.76 | Old road, bearing N.and S. |
| 83.68 | The cor.of secs.17,18,19, and 20,230 ft.below spur. |
| | Land, rolling, mountainous. |
| | Soil, gravel, rock, and sandy loam. |
| | Undergrowth, greasewood, chaparral, shadscale, yellow brush, and sagebrush.Very little grass for grazing. |
| | Timber, scattering cedars. |
| | N.0° 17'E.bet.secs.17 and 18, |
| | Ascending through dense undergrowth. |
| 5.00 | Spur, 5 ft.above sec.cor., projects E. |

| Chains. | |
|---|---|
| | Descend. |
| 10.00 | Old road, bearing NE. and 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 S 18 \| S 17<br>1915 |
| | Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor., 40 ft. below spur. |
| 60.60 | Old road, bearing N.10° W. and S.10° E. |
| 66.10 | Recross old road, bearing N.80° E. and S.80° W. |
| 77.10 | Old road, bearing 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. 7, 8, 17, and 18, with brass cap marked<br>T 23 S R 18 W<br>S 7 \| S 8<br>S 18 \| S 17<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. |
| | Corner is 75 ft. below spur. |
| | Land gradual slope to the north. |
| | Soil gravelly and clay loam. |
| | Undergrowth, chaparral, shadscale, and yellow brush. |
| | No timber. Very little grass for grazing. |

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|---|---|
| | Flag at corner of secs. 5, 8, 16, and 17 being plainly visible; therefore |
| | S.89° 48' E. on random line bet. secs. 8 and 17, |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.85 | Intersect N. and S. line at the cor. of secs. 5, 8, 16, and 17; thence |
| | N.89° 48' W. on true line bet. secs. 8 and 17, |
| | Over level land; through dense undergrowth. |
| .34 | Old road, bears NW. and SE. |
| 39.94 | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the |

| Chains. | |
|---|---|
| | ground, for $\frac{1}{4}$ sec. cor., with brass cap marked<br>S 8<br>$\frac{1}{4}$<br>S 17<br>1915 |
| | Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. |
| 52.98 | Wash, $4\frac{1}{2}$ ft. deep, 10 lks. wide, course N. |
| 71.88 | Old road, bearing N.30° E. and S.30° W. |
| 79.88 | The cor. of secs. 7, 8, 17, and 18. |
| | Land, level prairie. |
| | Soil, heavy clay loam. |
| | Undergrowth, shadscale and white sage. |
| | No timber. Very little grass for grazing. |
| | N.89° 55'W. on true line bet. secs. 7 and 18, |
| | Ascending through dense undergrowth. |
| 2.90 | Old road, bearing NW. and SE. |
| 27.60 | Old road, bearing N.80° E. and S.80° W. |
| 30.00 | Spur, 5 ft. above sec. cor., projects N. |
| 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>S 7<br>$\frac{1}{4}$<br>S 18<br>1915 |
| | Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. |
| 84.17 | Intersect W. bdy. of Tp. 3.30 chs. S.0° 04'W. of the cor. of secs. 12 and 13, T.23 S., R.9 W., heretofore described; 10 ft. below spur. |
| | Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 7 and 18, with brass cap marked |

SUBDIVISION T.23 S., R.8 W.

Chains.

T 23 S
S 12 | S 7
S 13 | S 18
CC
R 9 W | R 8 W
1915

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

Land, rolling.

Soil, gravel and clay loam.

Undergrowth, shadscale, white sage, and bud sage.

No timber. Very little grass for grazing.

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

N. 0° 17' E. bet. secs. 7 and 8,

Over gradual north slope; through dense undergrowth.

6.50 Old road, bearing N. 80° E. and S. 80° W.

18.60 Old road, bearing NW. and SE.

18.90 Wash, 2 ft. deep, 8 lks. wide, 10 ft. below sec. cor., course NW.

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

¼ S 7 | S 8
1915

Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

80.00 20 ft. below wash,

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

T 23 S | R 8 W
S 6 | S 5
S 7 | S 8
1915

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

Land, gradual north slope.

Soil, heavy clay loam.

Undergrowth, shadscale and bud sage.

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| | No timber. Very little grass for grazing. |
| | Flag at corner of secs.4,5,8, and 9 being plainly visible; therefore |
| | S.89° 48'E.on a random line bet.secs.5 and 8, |
| 40.00 | Set temp.¼ sec.cor. |
| 79.87 | Intersect N.and S.line at the cor.of secs.4,5,8, and 9; thence |
| | N.89° 48'W.on true line bet.secs.5 and 8, |
| | Over level land; through dense undergrowth. |
| 39.93½ | 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>S 5<br>¼<br>S 8<br>1915 |
| | Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N. of cor. |
| 69.87 | Small wash, 1 ft.deep, 5 lks.wide, course N. |
| 74.97 | Wash, 1½ ft.deep, 5 lks.wide, course N. |
| 79.87 | The cor.of secs.5,6,7, and 8. |
| | Land, level. |
| | Soil, heavy clay loam. |
| | Undergrowth, shadscale. |
| | No timber. Very little grass for grazing. |
| | N.89° 55'W. on true line bet.secs.6 and 7, |
| | Over level land; through dense 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>S 6<br>¼<br>S 7<br>1915 |

Chains.

Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

73.60 Plowed furrow, bearing NE. and SW.; evidently dry farm claim.

85.21 Intersect W. bdy. of Tp. S. 0° 33' E. 4.04 chs. of corner of secs. 1 and 12 T. 23 S., R. 9 W., heretofore described.

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

T 23 S
S 1 | S 6
S 12 | S 7
CC
R 9 W | R 8 W
1915

Dig pits 24 x 18 x 12 ins. crosswise on each line N. and S. of post 4 ft., and E. of post 8 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high E. of cor.

Land, level.

Soil, E. 60.00 chs. clay loam; W. 25.21 chs. sandy loam.

Undergrowth, shadscale, yellow brush, bud sage, and black sage.

No timber.

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

N. 0° 17' E. bet. secs. 5 and 6,

40.00 Set temp. ¼ sec. cor.

84.98 Intersect N. bdy. of Tp. 11 lks. E. of the cor. of secs. 5, 6, 31, and 32, heretofore described; thence

S. 0° 12' W. on true line bet. secs. 5 and 6,

Over sand hills.

24.98 Leave sand hills, bearing E. and W.

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

¼ S 6 | S 5
1915

SUBDIVISION T.23 S., R.8 W.

| Chains. | |
|---|---|
| | Dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor. |
| 84.98 | The cor. of secs. 5, 6, 7, and 8. |
| | Land, level, and sand hills. |
| | Soil, S. 60.00 chs. heavy clay loam; N. 24.98 chs. sandy loam. |
| | Undergrowth, shadscale, bud sage, greasewood, and rabbit brush. |
| | No timber. |

Note:

Tests of instruments prior to commencement, and frequent tests made during the execution of the survey of this township, prove them to have remained in satisfactory adjustment.

GENERAL DESCRIPTION.

This township is principally an almost level valley of desert character, having a general elevation of 4800 ft. above sea level. The general slope and drainage are to the northwest. Covering a portion of secs. 21, 22, 23, 26, 27, 28, 33, and 34 is a low, rolling mountainous country, the highest point of which is about 1000 ft. above the valley.

The soil in the valley is generally a heavy, light-colored clay loam; in the mountainous portion it is gravelly and rocky; and adjacent to the mountains, extending about a mile therefrom in each direction, it is sandy, mixed with gravel in parts and with clay in other parts.

A main road from Meadow to Goss, R.R. station, crosses through the northern portion; and the main road Blackrock, R.R. station, to Kanosh, crosses the SE. corner of the township.

The township is covered with an undergrowth, principally shadscale about 12 ins. high; and, where it is protected from stock, some grass. The township is chiefly used as winter grazing grounds.

There is a scattering growth of cedar timber in secs. 22, 23, 24, 25, 26, 27, 28, and 36; but it is a scrub variety, not valuable, except for fuel.

The following settlers have improvements in this township:

Leroy George, in secs. 13 and 14, has about 30 acres of cultivated land and a fence on north and west of his claim; value $700.00.

Owen George, in secs. 13 and 24, has no cultivated land, but has a fence on the east and north of his claim; value $400.00.

Elizabeth George, in secs. 23 and 24, has about 40 acres cultivated, and a fence on the west side of her claim; value $360.00.

GENERAL DESCRIPTION.

Weldow George, in secs. 23, 24, 25, and 26, has about 40 acres cultivated, and a fence on the west and south sides of his claim; value $600.00.

W. Leslie Walbeck, in secs. 24 and 25, has about 10 acres of cultivated land, and a fence on the south and east sides of his claim; value $520.00.

In secs. 25 and 36, Frank. L. Hickman has staked a claim of 320 acres, and has a plough furrow partly around same, and, I was told, claims the S½ of SE¼ and E½ of SW¼ sec. 25, and the N½ of the NE¼ and N½ of NW¼ sec. 36. Value of improvements $10.00.

Mary A. Hickman claims 320 acre tract, the SE¼, S½ of NE¼ and S½ of NW¼ sec. 36; and has a plough furrow around part of same. Value of improvements $10.00.

There are no settlers living within the township; and the claims indicated above are not resided upon, except during the time of improvement.

There is a prospect in section 27, claimed by J. C. Price of Salt Lake City, Utah, and W. J. Huff, of Oasis, Utah. There is an open cut 40 ft. long, 10 ft. high, 8 ft. wide, cost about $300.00; and a timber chute, 120 ft. long to load wagons; cost about $100.00. There is a road leading to the prospect. The ore in sight is iron martite.

Probably the N½ of sec. 27 should be classed as mineral land.

There were no indications of coal found in the township.

There is a small spring in sec. 23 flowing about 600 gallons daily at this season of the year.

BOOK A-421

# CERTIFICATE OF ASSISTANTS.

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

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of the ..... Meridian, in the State of .....

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

| NAME. | PERIOD OF SERVICE. | | CAPACITY. |
|---|---|---|---|
| | BEGUN. | ENDED. | |
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Subscribed and certified to before me on the dates of the final service as shown above.

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6—2764 *U. S. Surveyor.*

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

I, Scott P. Stewart, U. S. Surveyor, ~~do solemnly swear~~ certify that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 30 day of August, 191 5, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the retracement and resurvey of Second Guide Meridian West, through Township No. 23 S., between Rs. 7 and 8 W.; retracement and resurvey of south and west boundaries, and survey of the subdivision of Township No. 23 South, Range No. 8 West

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and index diagram on page 2 of same, as having been executed by me, and under my direction and on dates shown on said diagram; and I do further ~~solemnly swear~~ certify 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.

Scott P. Stewart
*U. S. Surveyor.*

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

SEAL

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 191

The foregoing field notes of the survey of

executed by

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

*U. S. Surveyor General.*

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

*U. S. Surveyor General.*

6—2761

BOOK A-421

# CERTIFICATE OF ASSISTANTS.

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

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of the ..... Meridian, in the State of .....

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

| NAME. | PERIOD OF SERVICE. | | CAPACITY. |
|---|---|---|---|
| | BEGUN. | ENDED. | |
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Subscribed and certified to before me on the dates of the final service as shown above.

.....

6—2761 *U. S. Surveyor.*

CERTIFICATE TRANSITMAN.

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

I, Edward N. Thompson, U. S. ~~Surveyor~~ Transitman ~~do solemnly swear~~ certify that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 30 day of August, 1915, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the retracement and resurvey of the north and west boundaries, and survey of the subdivision of Township No. 23 South, Range No. 8 West

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes and index diagram on page 2 of same as having been executed by me, and under my direction and on the dates shown on said diagram and I do further ~~solemnly swear~~ certify 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.

Edward N. Thompson.

~~U. S. Surveyor.~~ ~~U. S. Transitman.~~

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

SEAL

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 19, 1917.

The foregoing field notes of the ~~survey of~~ retracement and resurvey of the Second Guide Meridian West, through Township No. 23 South, between Ranges Nos. 7 and 8 West; the retracement and resurvey of the South, West, and North boundaries, and survey of the subdivision of Township No. 23 South, Range No. 8 West of the Salt Lake Base and Meridian, Utah

executed by Scott P. Stewart and Edward N. Thompson under ~~his~~ their special instructions dated August 30, 1915, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys they describe~~ retracements, resurveys, and surveys they describe, are hereby approved.

U. S. Surveyor General.

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

U. S. Surveyor General.

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4—679

BOOK A-421

KFB. A.

# FIELD NOTES

OF THE SURVEY OF THE

SIXTH STANDARD PARALLEL SOUTH

THROUGH

RANGES NOS. 1 AND 2 EAST

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

*In the State of* U T A H

EXECUTED BY

SCOTT P. STEWART

*In the capacity of U. S. Surveyor, under instructions dated* May 4, *1914, issued by the United States Surveyor General to govern surveys included in Group No.* 27, *which were approved by the Commissioner of the General Land Office,* May 29, *1914;* assignment instructions issued by the Assistant Supervisor of Surveys for the District of Utah, May 6, 1915:

*Survey commenced* May 20, *1915*

*Survey completed* May 25, *1915.*

6—151

BOOK A-421

# INDEX DIAGRAM.

*Township* 30 South, *Range* 2 East

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
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BOOK A-421

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# INDEX DIAGRAM.

*Township* 30 South, *Range* 1 East

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

6—4517

Survey commenced May 20, 1915, and executed with a Young & Sons solar transit No.8584. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the lat. and decl. arcs, and the full vertical circle.

The instrument was approved by the assistant supervisor of surveys for the District of Utah, conditional upon satisfactory field test.

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

At the standard cor. of Tp. 30 S., Rs. 1 E. and 1 W., which is Forest Reserve boundary post No.125, a 4-in. iron post extending 2 ft. above ground, firmly set in a mound of stone, and marked and witnessed as described by the surveyor general; lat. 38° 09' N.; long. 111° 54' W., at 3h 56m p.m. l.m.t., I set off 19° 57' N. on the decl. arc; 38° 09' N. on the lat. arc, and determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground 5 chs. N. of the cor.

May 20, 1915.

---

May 21: At this cor. at 3h 40.4m a.m. l.m.t. I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, by a tack driven in a stake set in the ground 5 chs. N. of the cor.

At 6h 40m a.m. l.m.t., I lay off the azimuth of Polaris 1° 27' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set May

20, on which the meridian falls 0.20 ins. west of the p.m. solar line.

At 6h 56m a.m. l.m.t., I set off 20° 04'N. on the decl. arc, 38° 09'N. on the lat. arc; and determine a meridian with the solar at above corner. This mark falls 0.24 ins. west of the Polaris line.

The solar apparatus by p.m. and a.m. observations defines positions respectively 0° 10" east and 0' 13" west of the Polaris line; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h 10m a.m. is N.16° 25'E.

From a point 1½ lks. S. of the standard cor. already described I run, by secant method, easterly, setting temp. cors. at intervals of 40.00 chs.; the first temp. cor., for secs. 31 and 32, however is set at 28.02 chs. in compliance with the special instructions; and at 11 mi. 26.21 chs. I intersect the Fremont Valley Guide Meridian at a point N.0° 19'W. 5.69 chs. from the standard cor. of Tp. 30 S., Rs. 2 and 3 E., which is a trachyte stone 6 x 6 x 15 ins. above ground, marked and witnessed as described by the surveyor general. I destroy the marks on the NW. and SW. bearing trees, leaving the two bearing trees to the east as marked; and remonument the cor. as follows:

Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground for standard corner of Tp. 30 S., R. 3 E.

T 30 S
S 31 R 3 E
S 6
T 31 S
1915

At point of intersection of standard, which is 0.4 lks. N. of intersection of secant with the guide meridian, and N.0° 19'W. 5.69 chs. from last described corner, I

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

Chains.

ground, to solid rock, and surrounded by a mound of stone, 3 ft. base, for closing standard corner of T. 30 S., R. 2 E., with brass cap marked

T 30 S
S 36 | S 31
R 2 E —o CC
— R 3 E
T 31 S
1915

from which

A spruce 12 ins. dia., bears S. 71° 48' W. 60 lks. dist., marked T 31 S R 2 E S 1 B T

A spruce, 26 ins. dia., bears N. 56° 15' W. 100 lks. dist., marked T 30 S R 2 E S 36 B T

From point 4 lks. S. of this closing cor., on secant, I run,

N. 89° 58' W. on secant S. of sec. 36,

Descending gently, over rolling, mountainous land; through heavy pine and aspen timber.

9.70 Draw, 10 ft. below closing cor., course N. Ascend.

20.70 Spur, 10 ft. above draw, projects SE.

Descend.

23.40 Draw, 10 ft. below spur, course SE. Ascend.

28.20 Spur, 15 ft. above draw, projects SE.

Descend.

30.80 Draw, 10 ft. below spur, course SE.

Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point,

By 1st set 39.99 chs.

By 2d set 40.01 chs.; the mean of which is

40.00 N. 2 lks. from the secant,

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

S ¼ 36
1915

from which

A pine, 16 ins. dia., bears N. 44° E. 46 lks. dist.

| Chains. | |
|---|---|
| | marked ¼ S 36 B T |
| | A pine, 16 ins. dia., bears N.84° 50'W.152 lks. dist., marked ¼ S 36 B T |
| 40.30 | Spur, 15 ft. above draw, projects S. Descend. |
| 51.90 | Draw, 45 ft. below spur, course N. Ascend. |
| 56.10 | Ridge, 5 ft. above draw, bears N. and S. Descend. |
| 62.00 | Leave aspen timber, bearing N. and S.; enter undergrowth. |
| 63.05 | Old road, bears N. and S. |
| 63.80 | Draw, 55 ft. below spur, course N.20° W. Ascend. |
| 72.80 | Spur, 5 ft. above draw, projects NE. Descend. |
| 75.55 | Swale, 15 ft. below spur, course N. |
| | Old road bears NW. and SE. |
| 77.70 | Spur, 10 ft. above swale, projects NE. |
| | Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 80.01 chs. |
| | By 2d set 79.99 chs.; the mean of which is |
| 80.00 | On the secant, |
| | Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 35 and 36, with brass cap marked |
| | T 30 S \| R 2 E<br>S 35 \| S 36<br>1915 |
| | Raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. |
| | Land, rolling, mountainous. |
| | Soil, gravelly and rocky, volcanic formation. |
| | Undergrowth, sage and yellow brush. |
| | Good grass for grazing. |
| | Timber, aspen, spruce, and pine. |
| | N.89° 58'W. on the secant, through sec. 35, |
| | Descending over rolling, mountainous land; through dense short undergrowth. |
| 8.40 | Draw, 20 ft. below sec. cor., course NE. Ascend. |

| Chains. | |
|---|---|
| 14.80 | Ridge, 40 ft. above draw, bears NE. and SW. |
| | Descend. |
| 34.10 | Draw, 45 ft. below ridge, course N.20° W. Ascend. |
| | Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 40.01 chs. |
| | By 2d set, 39.99 chs.; the mean of which is |
| 40.00 | S.1 lk. from the secant, |
| | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap marked |
| | S $\frac{1}{4}$ 35 / 1915 |
| | Raise a mound of stone 3 ft. base, 3 ft. high N. of cor. |
| | Corner is 20 ft. above draw. |
| 45.20 | Spur, 10 ft. above $\frac{1}{4}$ sec. cor., bears NW. and SE. |
| 78.05 | Old road bears N.20° W. and S.20° E. |
| | Difference between measurement of 80.00 chs. by two sets of chainmen is 1 lk.; position of middle point |
| | By 1st set 80.00½ chs. |
| | By 2d set 79.99½ chs.; the mean of which is |
| 80.00 | S.2 lks. from the secant, |
| | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 34 and 35, with brass cap marked |
| | T 30 S \| R 2 E<br>S 34 \| S 35<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| | Corner is 40 ft. below spur. |
| | Land, rolling, mountainous. |
| | Soil, gravelly and rocky, volcanic formation. |
| | Undergrowth sage and yellow brush. |
| | No timber. Good grass for grazing. |

---

N.89° 59'W. on the secant, through sec. 34,

Descending, over rolling mountainous land; through dense

| Chains. | |
|---|---|
| | short undergrowth. |
| 6.30 | Draw, 5 ft. below cor., course SW. |
| | Ascend. |
| 29.80 | Ridge, 35 ft. above draw, bears N.30° E. and SW. Descend. |
| | Difference between measurement of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point |
| | By 1st set 40.02 chs. |
| | By 2d set 39.98 chs.; the mean of which is |
| 40.00 | S.3 lks. from the secant, |
| | Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., with brass cap marked |
| | $\frac{S\ 34}{\frac{1}{4}}$ 1915 |
| | Raise a mound of stone 3 ft. base, 3 ft. high N. of cor. |
| | Corner 25 ft. below ridge. |
| 48.80 | Draw, 60 ft. below $\frac{1}{4}$ sec. cor., course N.20° W. Ascend. |
| 63.00 | Spur, 60 ft. above draw, bears N.20° W. and S. 20° E. |
| | Descend. |
| 72.90 | Draw, 20 ft. below spur, course N.20° E. |
| | Ascend. |
| 78.10 | Spur, 15 ft. above draw, bears N. and S. |
| | Difference between measurement of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 80.01 chs. |
| | By 2d set 79.99 chs.; the mean of which is |
| 80.00 | S.3 lks. from the secant, |
| | Set an iron post 3 ft. long, 3 ins. in dia., 18 ins. in the ground, for solid rock, with mound of stone around post, for standard cor. of secs. 33 and 34, with brass cap marked |
| | T 30 S \| R 2 E<br>S 33 \| S 34<br>1915 |
| | Raise a mound of stone 4 ft. base, 3 ft. high N. of cor. |
| | Corner is 5 ft. below spur. |
| | Land, rolling, mountainous. |

| Chains. | |
|---|---|
| | Soil, gravelly and rocky, volcanic formation. |
| | Undergrowth, sage and yellow brush. |
| | Good grass for grazing. |
| | No timber. |
| | May 24, 1915: At this cor. I set off 20° 41' N. on the decl. arc; and at 11h 57m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 38° 09' N. |
| | West on the secant through sec. 33, |
| | Descending over rolling mountainous land; through dense short undergrowth. |
| 6.80 | Draw, 10 ft. below corner, course N. 20° E. |
| | Ascend. |
| 17.00 | Ridge, 25 ft. above draw, bears N. and S. |
| | Descend. |
| 30.00 | Draw, 15 ft. below ridge, course N. Ascend. |
| | Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 40.01 chs. |
| | By 2d set 39.99 chs.; the mean of which is |
| 40.00 | S. 3 lks. from the secant, |
| | Set an iron post 3 ft. long, 1 in. in dia., 16 ins. in the ground, to solid rock, with mound of stone around post, for standard $\frac{1}{4}$ sec. cor., with brass cap marked |
| | $\frac{S\ 33}{\frac{1}{4}}$ |
| | 1915 |
| | Raise a mound of stone 4 ft. base, 3 ft. high N. of cor. |
| | Corner is 20 ft. above draw. |
| 46.80 | Ridge, 10 ft. above $\frac{1}{4}$ sec. cor., bears NE. and S. |
| | Difference between measurement of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 80.01 chs. |
| | By 2d set 79.99 chs.; the mean of which is |

Chains.
80.00 S.2 lks. from the secant,

Set an iron post 3 ft. long, 3 ins. in dia., 16 ins. in the ground, to solid rock, with mound of stone around post, for standard cor. of secs. 32 and 33, with brass cap marked

T 30 S | R 2 E
S 32 | S 33

1915

Raise a mound of stone 4 ft. base, 3 ft. high N. of cor.

Corner is 40 ft. below ridge.

Land, rolling, mountainous.

Soil, rocky, volcanic formation.

Undergrowth, sagebrush and yellow brush. Grass for grazing.

No timber.

---

S. 89° 59' W. on the secant through sec. 32,

Descending gradually, over rolling, mountainous land; through short undergrowth.

Difference between measurement of 40.00 chs. by two sets of chainmen is 1½ lks.; position of middle point

By 1st set 40.00¾ chs.

By 2d set 39.99¼ chs.; the mean of which is

40.00 S. 1 lk. from the secant,

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

S 32
¼

1915

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

Corner 50 ft. below sec. cor.

67.80 Swale, 35 ft. below ¼ sec. cor., course SW.

Difference between measurement of 80.00 chs. by two sets of chainmen is 1½ lks.; position of middle point

By 1st set 80.00¾ chs.

Chains.

By 2d set 79.99¾ chs.; the mean of which is

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

T 30 S | R 2 E
S 31 | S 32

1915

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

Corner is on ridge, 10 ft. above swale, bearing NE. and SW.

Land, rolling, mountainous.

Soil, gravelly; volcanic formation.

Undergrowth, sage and yellow brush. Good grass for grazing.

No timber.

---

S. 89° 58' W. on the secant through sec. 31,

Descending over rolling mountainous land; through dense short undergrowth.

6.80 Foot of descent and east edge of bench, bearing N. and S.

39.00 Leave bench; descend bearing N. and S.

Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set 39.99 chs.

By 2d set 40.01 chs.; the mean of which is

40.00 N. 2 lks. from the secant,

Set an iron post 3 ft. long, 1 in. in dia., 14 ins. in the ground, to solid rock, with mound of stone around post, for standard ¼ sec. cor., with brass cap marked

S 31
¼

1915

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

Corner is 45 ft. below sec. cor.

Difference between measurement of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point

Chains.

By 1st set 80.01 chs.

By 2d set 79.99 chs.; the mean of which is

80.00 N.4 lks. from the secant,

Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of T.30 S., Rs.1 E. and 2 E. with brass cap marked

T 30 S
R 1 E | R 2 E
S 36 | S 31

1915

Raise a mound of stone 3 ft. base, 2½ ft. high N. of cor.

Corner is 100 ft. below ¼ sec. cor.

Land, rolling, mountainous.

Soil, gravelly; volcanic formation.

Undergrowth sage and yellow brush. Good grass for grazing.

No timber.

May 24, 1915.

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Sixth Standard Parallel South, Through Range 1 East

May 25, 1915: At 6h 57m a.m.l.m.t., I set off 20° 51'N. on the decl. arc; 38° 09'N. on the lat. arc; and determine a meridian with the solar at the standard cor. of Tp.30 S.Rs.1 and 2 E., above described.

From a point 4 lks. S. of said cor., on the secant,

N.89° 58'W. on the secant, through sec.36,

Ascending, over rolling mountainous land; through dense short undergrowth.

8.80 Top of spur, 20 ft. above Tp. cor., bearing N. and S.

Descend.

17.90 Wash, 20 lks. wide, 2½ ft. deep, in hollow, 20 ft. below spur, course NE.

Ascend.

21.45 Old road, Loa to Antelope Springs, bears NE. and S.20° W.

Difference between measurement of 40.00 chs. by two sets

| Chains. | |
|---|---|
| | of chainmen is 1 lks; position of middle point |
| | By 1st set 40.00½ chs. |
| | By 2d set 39.99½ chs.; the mean of which is |
| 40.00 | N.2 lks. from the secant, |
| | 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 |
| | S ¼ 36 / 1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| | Corner is 65 ft. above hollow. |
| 40.80 | Top of broad, rolling ridge 1 ft. above ¼ sec. cor., bearing NE. and SW. Descend. |
| 43.80 | Draw, 10 ft. below ridge, course N.20° E. |
| | Ascend. |
| 48.80 | Small ridge 5 ft. above draw, bears NE. and SW. |
| | Descend. |
| 50.80 | Wash, 20 lks. wide, 2 ft. deep, course N.30° E. |
| | Difference between measurement of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 79.99 chs., |
| | By 2d set 80.01 chs.; the mean of which is |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 35 and 36, with brass cap marked |
| | T 30 S \| R 1 E / S 35 \| S 36 / 1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| | Corner is 40 ft. above wash. |
| | Land, rolling, mountainous. |
| | Soil, gravelly and rocky, 3d rate; west half volcanic. |
| | Undergrowth, short sage and yellow brush |
| | No timber. |

| Chains. | |
|---|---|
| | N.89° 58.6'W.on the secant through sec.35, |
| | Ascending, over rolling mountainous land, along S.side of Broad Hollow, through dense, short undergrowth. |
| 21.80 | Leave Broad Hollow, bearing NE. and SW., and draining NE. Ascend. |
| | Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 39.99 chs. |
| | By 2d set 40.01 chs.; the mean of which is |
| 40.00 | S.1 lk.from the secant, |
| | Set an iron post 3 ft. long, 1 in.in dia., 26 ins.in the ground, for standard $\frac{1}{4}$ sec.cor., with brass cap mkd. |
| | $\frac{S\ 35}{\frac{1}{4}}$ |
| | 1915 |
| | Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. |
| | Corner is 65 ft.above sec.cor. |
| 68.40 | Top of main broad ridge, 30 ft.above $\frac{1}{4}$ sec.cor., bearing N.25° E. and S.25° W. |
| | Difference between measurement of 80.00 chs.by two sets of chainmen is 4 lks.; position of middle point |
| | By 1st set 79.98 chs. |
| | By 2d set 80.02 chs.; the mean of which is |
| 80.00 | S.2 lks.from the secant, |
| | Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for standard cor.of secs.34 and 35, with brass cap marked |
| | T 30 S \| R 1 E<br>S 34 \| S 35 |
| | 1915 |
| | Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. |
| | Corner is 30 ft.below ridge. |
| | Land, rolling, mountainous. |
| | Soil, gravelly and rocky, volcanic, 3d rate; 1 to 4 ft. deep. |
| | Undergrowth, short sage and yellow brush. |

| Chains. | |
|---|---|
| | No timber. |
| | N.89° 59.3' W.on the secant through sec.34, |
| | Descending, over rolling, mountainous land; through dense, short undergrowth. |
| 5.00 | Draw, 15 ft.below cor., course NE. Ascend. |
| 14.80 | Small ridge, 10 ft.above draw, bears N.20° W. and S.20° E. Descend. |
| 31.80 | Draw, 25 ft.below ridge, course NW. Ascend. |
| 38.00 | Spur, 20 ft.above draw, bears NW. and SE. |
| | Descend. |
| | Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 39.99 chs . |
| | By 2d set 40.01 chs.; the mean of which is |
| 40.00 | S.3 lks.from the secant, |
| | Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for standard $\frac{1}{4}$ sec.cor., with brass cap marked |
| | $\frac{S\ 34}{\frac{1}{4}}$ |
| | 1915 |
| | Raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. |
| 55.50 | Draw, 20 ft.below $\frac{1}{4}$ sec.cor., course N. Ascend. |
| 58.80 | Spur, 25 ft.above draw, bears N.and S. |
| | Descend. |
| 65.80 | Draw, 15 ft.below spur, course NE. |
| | Ascend. |
| 74.60 | Spur, 25 ft.above draw, bears N.20° E. and S.20° W. |
| | Descend. |
| | Difference between measurement of 80.00 chs. by two sets of chainmen is 4 lks; position of middle point |
| | By 1st set 79.98 chs. |
| | By 2d set 80.02 chs.; the mean of which is |
| 80.00 | S.3 lks.from the secant, |

| | |
|---|---|
| Chains. | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 33 and 34, with brass cap marked<br>T 30 S \| R 1 E<br>S 33 \| S 34<br>1915<br>Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.<br>Corner is 15 ft. below spur.<br>Land, rolling, mountainous.<br>Soil, gravelly and rocky; 3d rate, 1 to 3 ft. deep.<br>Undergrowth, sage and yellow brush.<br>Good grass for grazing.<br>No timber. |
| | S. 89° 59.3' W. on the decant, through sec. 33,<br>Over rolling, mountainous land; through dense, short undergrowth. |
| 4.55 | Draw, 3 ft. below corner, course N. Ascend. |
| 13.10 | Spur, 50 ft. above draw, bears N. and S.<br>Descend. |
| 32.10 | Draw, 115 ft. below spur, course N. Ascend.<br>Difference between measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point<br>By 1st set 39.99 chs.<br>By 2d set 40.01 chs.; the mean of which is |
| 40.00 | S. 3 lks. from the secant,<br>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>S ¼ 33<br>1915<br>Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.<br>Corner is 35 ft. above draw. |
| 46.80 | Spur, 1 ft. above ¼ sec. cor., bears NW. and SE.<br>Difference between measurement of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point |

| Chains. | |
|---|---|
| | By 1st set 79.98 chs. |
| | By 2d set 80.02 chs.; the mean of which is |
| 80.00 | S.2 lks. from the secant, 110 ft. below ¼ sec. cor., |
| | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 32 and 33, with brass cap marked |
| | T 30 S \| R 1 E<br>S 32 \| S 33<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| | Land, rolling, mountainous. |
| | Soil, gravelly and rocky; 3d rate, 1 to 2 ft. deep. |
| | Undergrowth, sage and yellow brush. |
| | Good grass for grazing. |
| | No timber. |
| | S.89° 58.6'W. on the secant, through sec. 32, |
| | Descending, over rolling, mountainous land; through dense short undergrowth. |
| 20.80 | Enter Broad Hollow, bearing N.80° E. and S.80° W., draining SW. |
| 23.80 | Wash in hollow, 50 ft. below cor., course S.70° W. |
| 35.30 | Leave Broad Hollow, bearing NE. and SW. Ascend. |
| 39.80 | Top of ascent, on S. edge of knoll 45 ft. above hollow. |
| | Descend. |
| | Difference between measurement of 40.00 chs. by two sets of chainmen is 1 lk.; position of middle point |
| | By 1st set 39.99½ chs. |
| | By 2d set 40.00½ chs.; the mean of which is |
| 40.00 | S.1 lk. from the secant, |
| | Set an iron post 3 ft. long, 1 in. in dia., 16 ins. in the ground, to solid rock, with mound of stone around post, for standard ¼ sec. cor., with brass cap marked |
| | S 32<br>¼<br>1915 |

| Chains. | |
|---|---|
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| 48.30 | Lowest point in saddle, bearing E. and W., 20 ft. below ¼ sec. cor. |
| 75.00 | Monument for county line bears north 16 lks. dist. |
| 76.80 | Ridge 105 ft. above saddle, bears N. and S. |
| | Descend. |
| | Difference between measurement of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 79.99 chs. |
| | By 2d set 80.01 chs., the mean of which is |
| 80.00 | Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 31 and 32, with brass cap marked |
| | T 30 S \| R 1 E<br>S 31 \| S 32<br>1915 |
| | Raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. |
| | Land, mountainous, rolling. |
| | Soil, gravelly and rocky, volcanic stone, 2d and 3d rate. |
| | Undergrowth, short sage and yellow brush. |
| | Good grass for grazing. |
| | No timber. |
| | S. 89° 58' W. on the secant, through sec. 31, |
| | Descending over rolling mountainous land; through dense short undergrowth |
| 1.50 | Rocky draw, 10 ft. below sec. cor., course N. 10° E. |
| | Difference between measurement of 26.21 chs. by two sets of chainmen is 2 lks.; position of middle point |
| | By 1st set 26.20 chs. |
| | By 2d set 26.22 chs., the mean of which is |
| 26.21 | N. 1½ lks. from the secant, 85 ft. above draw, |
| | Intersect W. bdy. of Tp. or Salt Lake Meridian, at standard cor. of Tp. 30 S., Rs. 1 E. and 1 W., which is also Forest Reserve bdy. post No. 125, heretofore described. |

SIXTH STANDARD PARALLEL SOUTH THROUGH RANGE 1 EAST.

Land, rolling, mountainous.

Soil, gravelly, volcanic formation.

Undergrowth, sage and yellow brush.

Good grass for grazing.

No timber.

May 24, 1915.

Scott P. Stewart
U.S. Surveyor.

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BOOK A-421

U. S. Surveyor General's Office
NOV 13 1915
SALT LAKE CITY, UTAH.

# CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Scott P. Stewart, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of 6th Standard Parallel through Ranges 1 and 2 East

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 him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

| NAME. | PERIOD OF SERVICE. Begun Ended. BEGUN. | ENDED. | CAPACITY. |
|---|---|---|---|
| William E. Stovall | May 4, 1915 | Sept. 10, 1915 | 2nd Chainman. |
| Walter Byargo | May 10, 1915 | Sept. 10, 1915 | 2nd Chainman. |
| Ulin U. Founder | May 11, 1915 | Sept. 10, 1915 | 2nd Chainman. |
| J. Dallin Southwick | May 11, 1915 | Sept. 10, 1915 | Cornerman Chainman |
| William W. P. Helps | May 11, 1915 | Aug. 12, 1915 | Axeman |
| Roy L. Harding | May 11, 1915 | Sept. 10, 1915 | Flagman. |

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

Scott P. Stewart
U. S. Surveyor.

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# FINAL OATH OF UNITED STATES SURVEYOR.

I, ....., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , 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 .....

For final oath of U.S.Surveyor see book "J" T.27 S., R.1 E.

..... of the ..... Meridian, in the State of ....., which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

.....

*U. S. Surveyor.*

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

SEAL

.....

.....

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 26, 1917.

The foregoing field notes of the survey of the Sixth Standard Parallel South, through Ranges 1 and 2 East, of the Salt Lake Base and Meridian, Utah,

executed by Scott P.Stewart under his special instructions dated May 4, 1914, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

N. O. Thorsen

*U. S. Surveyor General.*

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

.....

*U. S. Surveyor General.*

6—2761