Volume

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R0391

BOOK A-391

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Utah-Nevada 3 dy line

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FIELD NOTES

OF THE SURVEY OF THE

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Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

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In the capacity of U. S. Surveyor...., *under instructions dated*....., *191*...., *issued by the United States Surveyor General to govern surveys included in Group No.* ....., *which were approved by the Commissioner of the General Land Office,* ....., *191*...., *pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced ....., *191*....

Survey completed ....., *191*....

BOOK A-391

INDEX DIAGRAM.

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FIELD NOTES

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Survey commenced ....., *191*...

Survey completed ....., *191*...

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Utah - Nevada Bdy. Line

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FIELD NOTES

[illegible]

By [illegible]

in the State of [illegible]

[illegible]

In the Township of [illegible] under instructions dated [illegible]

issued by the [illegible] included in

Group No. which was approved by the Commissioner of the General Land

Office, [illegible] pursuant to authority contained in the Act of

Congress dated [illegible]

Survey commenced [illegible]

Survey completed [illegible]

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FIELD NOTES

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Survey commenced ....., *191*....

Survey completed ....., *191*....

BOOK A-391

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Township 31 South, Range 20 West

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Utah-Nevada Bdy Line

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FIELD NOTES

OF THE SURVEY OF THE

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Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

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In the capacity of U. S. Surveyor....., *under instructions dated*....., *191*....., *issued by the United States Surveyor General to govern surveys included in Group No.* ....., *which were approved by the Commissioner of the General Land Office,* ....., *191*....., *pursuant to authority contained in the Act of Congress dated* ....., *191*.....

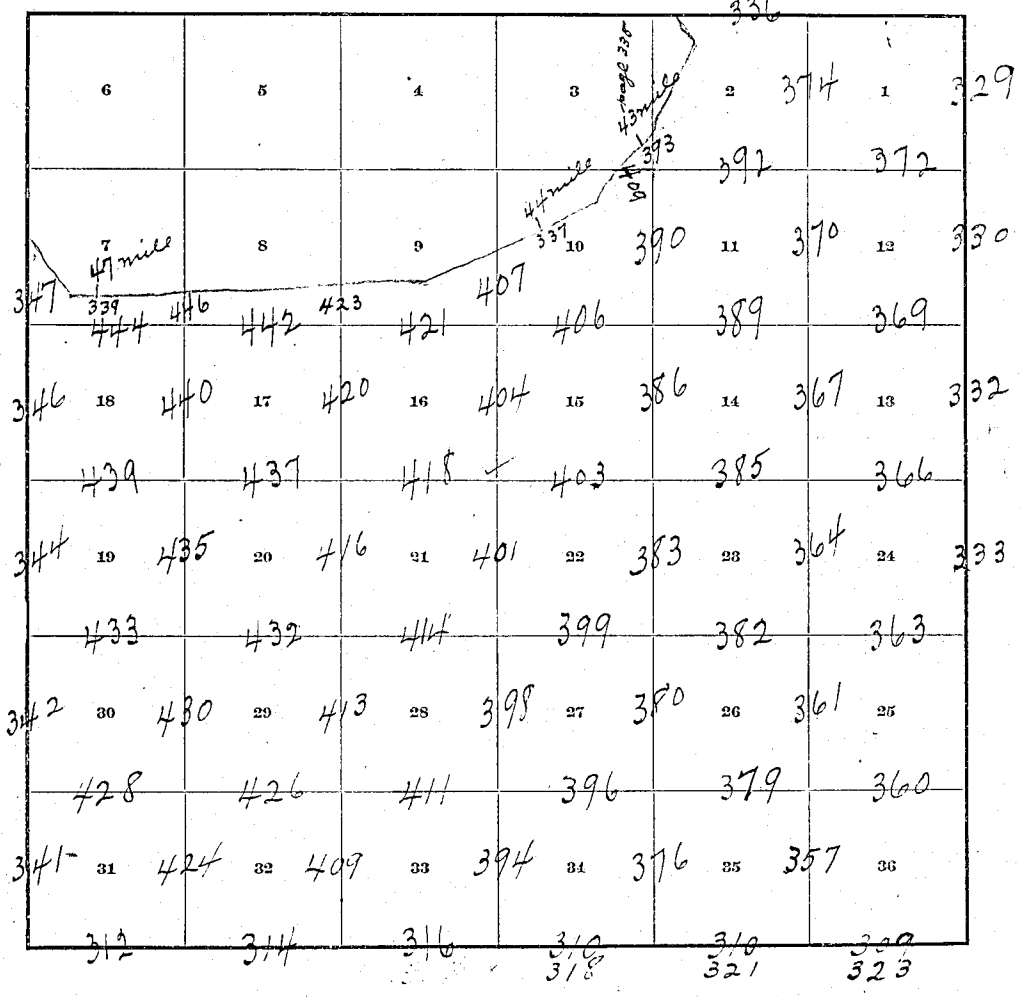
Survey commenced ....., *191*.....

Survey completed ....., *191*.....

BOOK A-393

INDEX DIAGRAM.

Township 11 South, Range 14 East



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FIELD NOTES

OF THE SURVEY OF THE

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In the State of .....

EXECUTED BY

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In the capacity of U. S. Surveyor...., under instructions dated....., *191....,*

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

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

Office..... *191...., pursuant to authority contained in the Act of*

Congress dated ..... *, 191....*

Survey commenced ....., *191....*

Survey completed ....., *191....*

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BOOK A-391

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP No. 33 SOUTH, RANGE No. 20 WEST.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Ralph Gentry

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* August 6, *1910, issued by the United States Surveyor General to govern surveys included in Group No.* 3, *which were approved by the Commissioner of the General Land Office,* Sept. 12, *1910, pursuant to authority contained in the Act of Congress dated* ..... *191*....

Survey commenced April 21, *1911.*

Survey completed July 13, *1911.*

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BOOK A-391

INDEX DIAGRAM.

Township No. 33 South, *Range* No. 20 West.

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6—151

CHAINS

Survey commenced April 21,1911, and executed with the instrument described in book "J " of this survey.
I examine the adjustments of the transit, find them correct;then, to test the solar apparatus, bycomparing its indications, resulting fromsolar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris , I procedd as follows:
At the cor. of secs. 1-2-35 and 36 on the S. bdy. of Tp. heretofore described, in approximate latitude 37° 53' 51" N.,longitude 113° 58'39"W.,I set off 37° 54' on the lat. arc; 11° 46'N.on the decl. arc; and at 4h 29m. p. m.l.m.t., determine a meridian with the solar and mark a point thereof on a stake firmly set in the ground, 5 chs. N. of the cor.

April 21,1911.

April 22: At 5h. 41m. a.m.l.m.t.,I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.
At 7h. 30m. a.m.,I lay off the azimuth of Polaris, 1°29' to the west, and mark the meridian thus determined, by driving a tack in the stake set last evening, on which themeridian falls 0.2 ins. east of the mark determined by the solar.
At 7h 29m a.m.l.m.t.,I set off 37° 54' on the lat. arc; 11° 58'N. on the decl. arc; and mark a point in the meridian determined with the solar,by driving a tack in the stake already set 5 chs. N, of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.
The solar apparatus by p.m. and a.m. observations defines positions forthe meridian, respectively about 0'11" west and 0'16" east of the meridian established by the Polaris observation; therefore, I conclude that the

CHAINS	
	adjustments of the transit are satisfactory.
	The magnetic bearing of the true meridian at 8h. 30m. a.m., is N.16°W., the angle thus determined gives the mag. decl. 16°E.
	Thence I run
	N.0° 01'W, bet. secs. 35 and 36.
	Over mountainous land, through dense timber, and scattering undergrowth of sage brush and bunch grass.
	Descend.
7.90	Ravine, 75 ft. deep, course NE.
	Ascend.
11.00	Top of spur, 25 ft. high, projects NE.
	Descend.
13.50	Power line from Modena to Gold Springs, bears N.30°W., and S.30°E.
15.80	Ravine, 50 ft. deep, course E.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 35 on W. half, and S 36 on E. half; from which
	A cedar, 6 ins, diam., bears N.54°W., 49 lks. dist., marked ¼ S 35 B T.
	A pinon, 8 ins. diam., bears S.64° 15'E., 66 lks. dist., marked ¼ S 36 B T.
	From this cor.
	Cor. No 1, of the Amythist lode, sur. No.5452, bears S.31°41'E.12,15 chs.
41.90	Telephone Line from Modena to Gold Springs bears NW., and SE.
44.00	Top of mountain, 300 ft. high, bears N.30°E., and S.30°W.
	Thence over mountain on nearly level line.
67.00	Descend from mountain, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 25-26-35 and 36, marked on brass cap
	T 33 S S 26 in NW.
	R 20 W S 25 in NE.

CHAINS	
	S 36 in SE., and
	S 35 in SW., quadrant; from which
	A cedar, 12 ins. diam.,bears N.22°E., 383 lks. dist.,marked T 33 S R 20 W S 25 B T.
	A pinon, 12 ins. diam.,bears S.52° 05'E.,212 lks. dist.,marked T 33 S R 20 W S 36 B T.
	A pinon, 6 ins. diam.,bears S.0°25'W.,299 lks. dist.,marked T 33 S R 20 W S 35 B T.
	A pinon, 12 ins. diam.,bears N.13° 10'W.,148 lks. dist.,marked T 33 S R 20 W S 26 B T.
	Land, mountainous.
	Soil, light sandy loam, and loose rock, 4th rate. on a subsoil of clay and loose rock.
	Timber cedars and pinon pine.
	Undergrowth, scattering sage brush and bunch grass.
	April22: At this cor. I set off 12° 01'N. on the decl. arc; and at 11h 59m. a.m. l.m.t., observe the sun on the meridian, the resulting lat. is 37° 55'.
	East, on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect E. bdy. of Tp. 20 lks. S. of cor, of secs. 25-30-31 and 36, heretofore described.
	Thence I run
	S.89°51'W., on a true line bet. secs. 25 and 36.
	Over mountainous land, through dense timber and scattering undergrowth of sage brush and bunch grass.
	Descend.
21.00	Hollow, 425 ft. below sec. cor, course SW.
	Ascend spur.
25.00	Top of spur,15 ft. high, bears SW.
	Descend.
28.00	Ravine, 20 ft.deep, course S.W.
	Ascend.
30.50	Top of spur, 25 ft. high, projects S.W.
	Descend.

CHAINS	
39.99	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 25 on N. half, and S 36 on S. half; from which A pine, 8 ins. diam., bears N.42° 10'W.,28 lks. dist.,marked ¼ S 25 B T. A pinon. 8 ins. diam., bears S.53° 05'E., 71 lks. dist.,marked ¼ S 36 B T.
41.30	Ravine, 100 ft. deep, course SW. Ascend.
44.40	Top of spur,40 ft. High, projects S. From this point Mountain Home Saloon bears S,39°15'W., 705lks. dist. Descend.
47.50	Ravine,75 ft. deep, course S. Running water in bottom of ravine, 4 lks. wide, 1 in. deep. Ascend.
48.30	Road, bears N.and S.
53.00	Road, from Gold Springs to Modena, bears NW. and SE.
64.00	Top of ridge,1150 ft.high, bears NE. and SW.
64.65	U.S.L.M.No.2, bears S.4° 04'E.1.75 chs.dist.
79.30	House on line, claimant unknown.
79.98	The cor. of secs. 25-26-35 and 36. Land, mountainous. Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock. Timber, heavy cedars and pinon pine. Undergrowth of scattering sage brush and bunch grass. April 22,1911.

April 24: At 7h 58m a.m.l.m.t.,I set off 37°55' on the lat. arc; 12°39'W. on the decl arc; and determine a Meridian with the solar at the cor of secs,25-26-35 &36 West, bet. secs, 26 and 35.

Over mountainous land, through heavy timber and scattering sage brush and bunch grass.

Descend.

0.30	Main street of Gold Springs, leading to Fay, bears N.50°E. and S.50°W.
0.80	Hollow, 275 ft. deep, fresh water in bottom 8 lks.

CHAINS	
	wide, 2 ins. deep, course S.50°W.
	Ascend.
4.95	Telephone line, Modena to Gold Springs, bears N. and S.
5.50	Top of ascent, 50 ft. above hollow, bears N. and S.
	Descend.
8.00	Ravine, 25 ft. deep, course, S.
	Ascend over mountain.
22.00	Top of mountain, 230 ft. high, bears N. and SW.
	Descend.
30.00	Enter scattering timber, bears NE. and SW.
34.00	Ravine,100 ft. deep, course SW.
	Ascend.
37.09	Intersect Utah-Nevada bdy., 7.76 chns. dist.N.0°24'W., of the 238.0625th mile post heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for closing cor. of secs. 26 and 35, marked on brass cap
	UTAH on E. half, and
	CC NEVADA on W. half.
	T 33 S S 26 in NE., and
	R 20 W S 35 in SE.,quadrant; from which
	A pinon ,4 ins, diam.,bears N.48°10'E.,60 lks. dist.,marked T 33 S R 20 W S 26 B T.
	A pinon, 6 ins. diam.,bears S.75°50'E., 33 lks. dist.,marked T 33 S R 20 W S 35 B T.
	Land, mountainous .
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, heavy cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.
	From this cor.
	Cor. No 1,of the Jennie No 7 lode, sur. No 5450, bears N.63°16'E.,6.49 chns. dist.
	Cor. No 1 of the Utah Lin mining lode, sur.No 5455, bears S.0° 23'E.,1,13 chns. dist.

CHAINS	
	N.0° 01'W.,bet. secs. 25 and 26.
	Over mountainous land, through timber and scattering undergrowth of sage brush and bunch grass.
	Descend.
0.21	Main street of Gold Springs, bears N.50°E. and S.50°W.
0.90	Hollow, 275 ft. deep, with stream of fresh water, 6 lks. wide, 2 ins. deep, course S.50°W.
	Ascend.
10.00	Top of ascent, 65 ft. above hollow,
	Descend slightly.
11.70	Road, Gold Springs to Fay, bears NW. and SE.
21.15	Ravine, 20 ft. deep, course S,15°E.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor., marked ¼ S 26 on W. half,and S 25 on E. half of brass cap; from which
	A pinon,6 ins. diam., bears S.52° 50'E.,21 lks. dist.,marked ¼ S 25 B T.
	A pinon, 8 ins. diam., bears S.29°W., 7 lks. dist.,marked ¼ S 26 B T.
42.00	Top of ridge, 250 ft. high,bears NE. and SW.
	Thence along W. side of peak, on nearly leved line.
73.00	Descend, from ridge, bears N.15°W.
80.00	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for cor. of secs. 23-24-25 and 26, marked on brass cap
	T 33 S S 23 in NW. [illegible]
	R 20 W S 24 in NE.
	S 25 in SE., and
	S 26 in SW.,quadrant; from which
	A pinon, 6 ins. diam.,bears N.49°25'E., 37 lks. dist.,marked T 33 S R 20 W S 24 B T.
	A pinon, 10 ins. diam.,bears S.37°50'E., 224 lks. dist.,marked T 33 S R 20 W S 25 B T.
	A pinon, 6 ins. dia.,bears S.27°50'W.,155 lks. dist.,marked T 33 S R 20 W S 26 B T.

CHAINS	
	A pinon, 6 ins. diam., bears N.48°15'W.,83 lks. dist.,marked T 33 S R 20 W S 23 B T.
	Land, mountainous .
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber cedars and pinon pine.
	Undergrowth of scattering sage brush and bunch grass.
	April 24: At this cor. I set off12° 42'N. on the decl. arc; and 11h. 58m a.m. l.m.t., observe the dun on the meridian, the resulting lat. is 37° 56'.

	N.89° 51'E.,onarandom line bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect E. bdy. of Tp. 20 lks. N. of the cor. of secs. 19-24-25 and 30, heretofore described.
	Thence I run
	West, on a true line bet. secs. 24 and 25.
	Over mountainous land, through timber and scattering undergrowth of sage brush and bunch grass.
	Descend.
1.50	Ravine, 15 ft. below sec. cor., course SE.
	Ascend.
8.00	Top of ridge, 50 ft. high, bears N. and S.
20.75	Ravine,125 ft. deep, course S.
	Ascend.
28.00	Top of spur,125 ft. high, projects S.
	Descend.
40.03	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 24 on N. half, and S 25 on S. half; from which
	A cedar, 12 ins. diam.,bears N.1°W., 25 lks. dist., marked ¼ S 24 B T.
	A pinon, 6 ins. diam.,bears S.78°30'E., 32 lks. dist.,marked ¼ S 25 B T.
44.00	Ravine, 200 ft. deep, course S.
	Ascend.

CHAINS	
46.00	Top of ridge,50 ft. high, bears N. and S.
	Descend.
50.50	Hollow, 75 ft. deep, course S.
	Ascend.
51.50	Road, Gold Springs to State Line, bears N. and S.
80.06	The cor. of secs. 23-24-25 and 26.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, cedars and pinon pine.
	Undergrowth , scattering sage brush and bunch grass.
	April 24, 1911.

April 25: At 7h. 58m.a.m.l.m.t., I set off 37°56' on the lat. arc; 12° 59'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 -

West, bet. secs. 23 and 26.

Over mountainous land, through scattering timber and undergrowth of sage brush and bunch grass.

Ascend.

2.00 Top of ridge, 30 ft. above secs. cor., bears N.15°W., and S.15°E.

Descend.

37.74 Intersect Utah-Nevada bdy.,4.43 chs. dist.N.0°08'W., of the 237th mile post heretofore described.

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

UTAH on E. half.

CC NEVADA on W. half.

T 33 S S 23 in NE., and

R 20 W S 26 In SE., quadrant;from which

A pinon, 6 ins. diam.,bears N,30°05'E., 42 lks.

CHAINS	
	dist.,marked T 33 S R 20 W S 23 B T.
	A pinon, 6 ins. diam.,bears S.14°E., 23 lks. dist.,marked T 33 S R 20 W S 26 B T.
	Land, mountainous.
	Soil, light sandy loam andloose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.

	N.0° 01'W., bet. secs. 23 and 24.
	Over mountainous land, through scattering timber and mahogany , and undergrowth of sage brush and bunch grass.
	Descend.
2.00	Head of ravine, 20 ft. below sec. cor., course E.
	Ascend.
6.50	Top of spur, 50 ft. high, projects E.
	Descend.
24.00	Ravine,65 ft. deep, course E.
	Ascend.
29.00	Top of spur, 50 ft. high, projects E.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 23 on W. half, and S 24 on E. half; from which
	A pinon, 6 ins. diam.,bears N.57°20'W.,27 lks. dist., marked ¼ S 23 B T.
	A pinon, 6 ins. diam.,bears N.68° 25'E.,33 lks. dist., marked ¼ S 24 B T.
45.50	Hollow, 275 ft. deep, course SE.
	Leave mahogany brush, bears NW. and SE.
	Ascend.
56.30	Road, Gold Springs to Modena, bears N.15°W. and SE.
78.50	A point on W. side of ridge, 125 ft. above hollow.
	Descend.
80.00	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins..in the ground, for cor. of secs. 13-14-23 and 24, marked on

CHAINS	
	brass cap
	T 33 S S 14 in NW.
	R 20 W S 13 in NE.
	S 24 in SE., and
	S 23 in SW., quadrant; from which
	A pinon, 8 ins. diam., bears S.72°30'E.,61 lks. dist.,marked T 33 S R 20 W S 24 B T.
	A pinon, 6 ins. diam.,bears N.27°20'W., 127 lks. dist.,marked T 33 S R 20 W S 14 B T.
	There being no other trees , suitable for bearing trees, I raise a mound of stone, 2½ ft. base, 2 ft. high W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine.
	Undergrowth of sage brush,bunch grass and scattering mahogany brush.
	April 25: At this cor. I set off 13°01'N. on the decl. arc; and at 11h 58m a.m.,l.m.t., observe the sun on the meridian, the resulting lat. is 37° 56'.
	East, on a random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect E. bdy. of Tp. 18 lks. N. of cor. of secs. 13-18-19 and 24, heretofore described.
	Thence I run
	N.89° 52'W., on a true line bet. secs. 13 and 24.
	Over mountainous land, through scattering timber and mahogany, and undergrowth of sage brush and bunch grass.
	Descend. over loose slide rock and lava boulders.
8.00	Leave slide rock, bears N. and S.
39.98	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 13 on N. half, and S 24 on S. half; from which
	A cedar, 12 ins. diam.,bears N.54°50'W.,96 lks.

CHAINS	
	dist.,marked ¼ S 13 B T.
	A pinon, 10 ins. diam.,bears S.79°40'E., 30 lks.
	dist. marked ¼ S 24 B T.
43.20	Hollow, 500 ft. below sec. cor., course SW.
	Ascend.
68.00	Top of ridge,200 ft. high, bears NE. and S.
	Descend.
79.96	The cor, of secs. 13-14-23 and 24.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, scattering cedar s and pinon pine.
	Undergrowth , sage brush, bunch grass and scattering mahogany brush.
	April 25, 1911.

April 26: At 7h. 58m.,a.m.l.m.t.,I set off 37° 56' on the lat. arc; 13° 18'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

West, bet, secs. 14 and 23.

Over mountainous land,through scattering timber and undergrowth of sage brush and bunch grass.

	Descend.
0.50	hollow, 325 ft. deep, course SW.
	Thence on level line across hollow.
3.50	Road, Gold Springs to State Line, bears N. and S.
5.00	Ascend spur, bears N. and S.
14.50	A point, 175 ft. above hollow, on SE. end of spur.
	Descend.
20.00	Ravine,50 ft. deep, course SE.
	Ascend.
24.00	Top of ridge, 75 ft. high, bears N.30°W. and S.30°E.
	Descend.
37.94	Intersect Utah-Nevada bdy., 6.60 chs. dist. N.0°26'W.,of

CHAINS	
	the 236th mile post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for closing cor. of secs. 14 and 23, marked on brass cap
	UTAH on E., and
	CC NEVADA on W.,half.
	T 33 S S 14 in NE.,and
	R 20 W S 23 in SE., quadrant; from which
	A pinon, 6 ins. diam.,bears N.69°30'E., 95 lks. dist.,marked T 33 S R 20 W S 14 B T.
	A pinon, 10 ins. diam.,bears S.77°40'E., 105 lks. dist.,marked T 33 S R 20 W S 23 B T.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine.
	Undergrowth, sage brush and bunch grass.
	N.0° 01'W., bet. secs. 13 and 14.
	Over mountainous land, through scattering timber, and undergrowth of dage brush and bunch grass,
	Descend.
0.40	Hollow, 325 ft. deep, course SW.
	Ascend.
20.00	Road, from Gold Springs to State Line, bears NE. and SW.
36.00	Top of spur, 475 ft. high, projects S.30°E.Enter heavy timber, bears E. and W. Descend slightly along E. side of ridge.
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 14 on W. half, and S 13 on E. half ; false a mound of stone 2½ ft.base, 2 ft.high W.of cor.
	April 26 :At this cor. I set off 13°21'N. On the decl. arc; and at 11h 58m. a.m., l.m.t.,I observe thr sun on the

CHAINS	
	meridian, the resulting lat. is 37° 57'.
52.00	Ravine, 75 ft. deep, course E.
	Ascend.
62.00	Top of spur, 150 ft. high, projects E.
	Descend.
68.00	Ravine, 50 ft. deep, course E.
	Ascend.
70.00	Top of ascent, on E. end of spur, 15 ft. above ravine.
	Descend.
76.00	Ravine, 75 ft. deep, course SE.
	Ascend.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 11-12-13 and 14, marked on brass cap
	T 33 S S 11 in NW.
	R 20 W S 12 in NE.
	S 13 in SE., and
	S 14 in SW., quadrant; from which
	A pinon, 12 ins. diam., bears N.25°40'E., 31 lks. dist., marked T 33 S R 20 W S 12 B T.
	A pinon, 10 ins. diam., bears S.71°55'E., 17 lks. dist., marked T 33 S R 20 W S 13 B T.
	A cedar, 10 ins. diam., bears S.34°30'W., 33 lks. dist., marked T 33 S R 20 W S 14 B T.
	A cedar, 10 ins. dia., bears N.71°10'W., 35 lks. dist., marked T 33 S R 20 W S 11 B T.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, heavy cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.
	April 26, 1911.

April 27: At 7h 58m.,a.m.l.m.t., I set off 37° 57' on the lat. arc; 13° 38'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 11-12-13

CHAINS	
	and 14.
	Thence I run
	S.89° 52'E.,on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect E. bdy. of Tp., 9 lks. N. of cor. of secs.7-12-13 and 18, heretofore described.
	Thence I run
	N.89°48'W., on a true line bet. secs. 12 and 13.
	Over mountainous land, through dense mahogany brush.
	Descend.
16.00	Leave mahogany brush, bears N. and S.Enter sage brush and bunch grass, and scattering timber.
22.00	Ravine, 325 ft. below sec. cor., course SW.
	Ascend.
28.00	Top of spur,40 ft. high, projects SW.
	Descend.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 12 on N. half, and S 13 on S. half; raise a mound of stone 2½ ft. base, 2 ft. high, N. of cor. Pits impracticable.
42.25	Ravine, 125 ft. deep, course SW.
	Ascend.
44.00	Top of spur,35 ft. high,projects S.
	Descend.
56.00	Hollow, 175 ft. deep, course S.
	Ascend.
56.25	Road, Gold Springs to State Line, bears N. and S.
71.50	Top of spur, 250 ft. high, projects S.30°E.
	Descend.
80.08	The cor. of secs. 11-12-13 and 14.
	Land, mountainous.
	Soil, light sandy loam andloose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber scattering cedars and pinon pine.
	Undergrowth, of sage brush, bunch grass and mahogany.
	April 27: At this cor.,I set off 13° 40'N. on the

CHAINS	
	decl. arc.; and at 11h. 58m. a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37° 57'.
	West, bet. secs. 11 and 14.
	Over mountainous land, through scattering timber, and undergrowth of sage brush and bunch grass.
	Ascend.
11.00	Top of ridge, 50 ft. above sec. cor., bears N. and S.
	Descend.
38.76	Intersect Utah-Nevada bdy., 11.44 chs. dist., S.0°26'E., of the 234.75th mile post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 11 and 14, marked on brass cap
	UTAH on E., and
	CC NEVADA on W. half.
	T 33 S S 11 in NE., and
	R 20 W S 14 in SE., quadrant; from which
	A cedar, 10 ins. diam., bears N.62°25'E., 129 lks. dist., marked T 33 S R 20 W S 11 B T.
	A cedar, 12 ins. diam., bears S.38°20'E., 366 lks. dist., marked T 33 S R 20 W S 14 B T.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine,
	Undergrowth of sage brush and bunch grass.
	N.0° 01'W., bet. secs. 11 and 12.
	Over mountainous land, through heavy timber and scattering undergrowth of mahogany, sage brush and bunch grass.
	Ascend.
24.00	Top of spur, 350 ft. above sec. cor., projects S.30°E.
	Descend.
39.00	Ravine, 200 ft. deep, course E.
	Ascend.

CHAINS	
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 11 on W. half, and S 12 on E. half; from which
	A pinon, 10 ins. dia., bears N.67°W., 27 lks. dist., marked ¼ S 11 B T.
	A pinon, 12 ins. dia., bears N.50°05'E., 49 lks. dist., marked ¼ S 12 B T.
	April 27, 1911.
	April 28: At 7h. 58m.,a.m.l.m.t.,I set off 37° 58' on the lat. arc; 13° 57'N. on the decl. arc; and determine a meridian with the solar, at the ¼ sec. cor.
	Thence I continue
	N.0° 01'W., bet, secs. 11 and 12.
	Ascend.
44.00	Top of spur, 50 ft. high, projects SE.
	Descend.
52.00	Ravine,65 ft. deep, course SE.
	Ascend.
74.00	Top of ridge, 375 ft. above ravine,bears E. and S.75°W.
	Descend.
80.00	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked on brass cap
	T 33 S S 2 in NW.
	R 20 W S 1 in NE.
	S 12 in SE., and
	S 11 in SW., quadrant; from which
	A pinon, 8 ins. diam.,bears N.50°E., 34 lks. dist., marked T 33 S R 20 W S 1 B T.
	A pinon, 6 ins. dia.,bears S.80°10'E., 36 lks. dist.,marked T 33 S R 20 W S 12 B T.
	A pinon, 12 ins. dia.,bears S.5°25'W.,75 lks. dist.,marked T 33 S R 20 W S 11 B T.
	A pinon, 10 ins. dia.,bears N.81°05'W., 71 lks. dist.,marked T 33 S R 20 W S 2 B T.
	Land, mountainous.

CHAINS	
	Soil, light sandy loam and loose rock,4th rate, on a subsoil of clay and loose rock.
	Timber, heavy cedars and pinon pine.
	Undergrowth, scattering mahogany, sage brush and bunch grass.

	S.89° 48'E.,on a random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.14	Intersect E. bdy. of Tp. 18 lks. S. of the cor. of secs. 1-6-7 and 12, heretofore described.
	Thence I run
	N.89° 56'W., on a true line bet. secs. 1 and 12.
	Over mountainous land, through scattering long leaf pine and mahogany brush.
	Descend.
8.00	Leave long leaf pine and mahogany brush, enter sage brush and bunch grass.
13.75	Ravine, 200 ft. below sec. cor., drains NW.
	Ascend.
24.00	Enter dense growth of mahogany brush and scattering timber.
30.50	Top of ridge, 350 ft. high, bears N. and S.
	Descend.
38.00	Road, from Gold Springs to State Line, bears N. and S.
39.50	Ravine, 100 ft. deep, course S. Enter scattering mahogany brush bears N. and S.
40.07	Set an iron post, 3 ft. long,1 in. dia.,26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 1 on N. half, and S 12 on S. half, from which
	A pinon, 6 ins. dia.,bears N.17°30'E.,224 lks. dist., marked ¼ S 1 B T.
	A pinon, 12 ins. dia.,bears S.34°10'W., 146 lks. dist.,marked ¼ S 12 B T.
	April 28: At this cor. I set off 13° 59'N. on the decl. arc; and at 11h 58m. a.m.,l.m.t.,observe the sun on the meridian, the resulting lat. is 37°58'.

CHAINS	
44.00	Top of spur,75 ft. high, projects SE.
	Descend.
48.50	Ravine,30 ft, deep, course S.30°E.
	Ascend.
56.00	Top of mountain, 150 ft. above ravine, bears N. and S.
	Descend.
72.00	Ravine,275 ft. deep, course N.15°W.
	Ascend.
80.14	The cor. of secs. 1-2-11and 12.
	Land, mountainous.
	Soil, light sandy loam, and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, scattering long leaf pine, cedars and pinon pine.
	Undergrowth, sage brush, mahogany brush and bunch grass.
	West, bet. secs. 2 and 11.
	Over mountainous land,Through scattering timber and scattering undergrowth of sage and mahogany brush.
	Descend.
8.00	Ravine,125 ft, below sec. cor., course SW. Enter dense mahogany brush, bears NE and SW.
15.00	Top of spur, 25 ft. high, projects SE.
	Descend.
26.00	Ravine,300 ft. deep, course NW. Enter scattering mahogany brush, bears NE. and SW.
	Ascend.
28.00	Top of spur, 40 ft. high, projects N.
	Descend.
32.00	Ravine,65 ft. deep, course, N.
	Ascend.
36.00	Top of spur, 35 ft. high, projects N.
	Descend.
38.70	Intersect, Utah-Nevada bdy.,5.48 chs. dist.,S.0°03'E.,of the 234th mile post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for closing cor. of secs. 2 and 11, marked

CHAINS	
	on brass cap
	UTAH on E.,and
	CC NEVADA on W.,half.
	T 33 S S 2 in NE.,and
	R 20 W S 11 in SE., quadrant,raise a mound of stone $2\frac{1}{2}$ ft. base, 2 ft. high, E of cor. Pits impracticable.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine,
	Undergrowth of mahogany, sage brush and bunch grass.
	April 28, 1911.
	July 13: At 8h 5m.,a.m.l.t.,I set off 37° 58' on the lat. arc; 21°57'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1-2-11 and 12.
	Thence I run
	N.0° 01'W.,on a random line bet. secs. 1 and 2.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
84.85	Intersect N. bdy. of Tp. 14 lks. W. of the cor, of secs. 1-2-35 and 36, heretofore described.
	Thence I run
	S.0° 05'W., on a true line bet. secs. 1 and 2.
	Over mountainous land, through scattering timber,and scattering sage brush and mahogany brush.
	Descend.
9.10	Ravine,65 ft. deep, course E.
	Ascend.
14.50	Top of spur, 125 ft. deep, projects E.
	Descend.
23.00	Ravine, 75 ft. deep, course E.
	Ascend.
36.00	Top of ridge,125 ft. above ravine, bears NW. and SE.
	Enter dense mahogany brush, beass NE. and SW.
	Descend.

CHAINS	
44.85	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 2 on W. half, and S 1 on E.half, from which A mahogany, 6 ins. dia.,bears S.76° 50'W.,21 lks. dist.,marked ¼ S 2 B T. A mahogany, 6 ins. dia.,bears N.41° 50'E.,5 lks. dist.,marked ¼ S 1 B T.
64.40	Ravine,225 ft.deep, course W.
	Ascend.
68.00	Top of spur,50 ft. high, projects W.
	Descend.
70.00	Ravine, 25 ft. deep, course W.
	Ascend.
84.85	The cor. of secs. 1-2-11 and 12.
	Land, mountainous.
	Soil, light sandy loam. and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber scattering cedars and pinon pine.
	Undergrowth, mahogany, and scattering sage brush and bunch grass.
	July 13.1911.

GENERAL DESCRIPTION OF T.33 S.,R.20 W.

This township is mostly rough mountainous land, and the soil, which is mostly a light sandy loam and loose rock, on a subsoil of clay and loose rock, may be classed as 3rd and 4th rate, is covered with a growth of sage brush, mahogany brush and nutritous grasses, and is only fit for grazing purposes.

This township is generally covered with a scattering growthof cedars and pinon pine.

The only water found in this Tp. is in the wash flowing through secs. 25 and 35.

A portion of the State Line Mining District extends through this township, and gold,silver and lead is mined.

The town of Gold Springs is located in the SW¼ sec. 25 & NW¼ sec. 36, and contains one store, a hotel, ~~a store~~ and about 20 dwelling cabins, There are only two famlies living there, at time of this survey.

There are no settlers in this township.

Ralph Gulley
U.S. Transitman

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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 .....

For certificate of assistants see book "X" T. 31 S., R. 20 W.

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

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

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

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

.....

U. S. Surveyor.

6—2761

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 transitman see book "X" T. 31 S., R. 20 W.

_____ 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, Feb.26, 1914. ~~191~~

The foregoing field notes of the survey of the subdivisional lines of Township No.33 South, Range No. 20 West of the Salt Lake Base and Meridian, Utah

executed by Ralph Gentry

under his special instructions dated August 6, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Duell

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

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BOOK A-391

Q.

FIELD NOTES

OF THE SURVEY OF THE

NORTH BOUNDARY

OF

TOWNSHIP No. 33 SOUTH, RANGE No. 20 WEST.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Ralph Gentry

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* August 6, *1910*, *issued by the United States Surveyor General to govern surveys included in Group No.* 3, *which were approved by the Commissioner of the General Land Office,* Sept. 12, *191*0, *pursuant to authority contained in the Act of Congress dated* ....., *191*...

Survey commenced July 10, *191*1

Survey completed July 11, *191*1

6—151

N.Bdy - 01-38-71
Elus - 00-15-40

BOOK A-391

INDEX DIAGRAM.

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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Survey commenced July 10,1911, and executed with the instrument described in book "J " of this survey.
I examine the adjustments of the transit, find them correct; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m.m and p.m.hours, with a meridian determined by observations on Polaris, I proceed as follows:
At the cor. of Tps. 32 and 33 S.,Rs. 19 and 20 W., heretofore described, in approximate latitude 37°59'04" N.,longitudd 113° 58' 39"W.,I set off 37° 59' on the lat. arc; 22° 19'N. on the decl. arc; and at 4h. 5m.p.m.lm.t., determine a meridian with the solar and mark a point thereof on a stake firmly set in the ground, 5 chs. N. of my station.

July 10,1911.

July 11: At 12h 24m. a.m.l.m.t ,I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.
At 7h 30m am.,I lay off the azimuth of Polaris, 1° 29' to the west, and mark the meridian thus determined, by driving a tack in the stake set last evening, on which the meridian falls 0.3 ins. east of the mark determined by the solar.
At 8h. 5m. a.m.l.m.t., I set off 37° 59' on the lat. arc;22°14'N. on the decl. arc; and mark a point in the meridian determined with the solar, by driving a tack in the stake already set 5 chs. N. of my station; this mark falls 0.2 ins. east of the meridian established by the Polaris observation.
The solar apparatus by p.m. and a.m. observations defines positions for the meridian, respectively about 0'16" west and 0'11" east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the transit are satisfactory.

CHAINS	
	The magnetic bearing of the true meridian at 8h. 30m. a.m., is N.16°W., the angle thus determined gives the mag. decl, 16°E.
	Thence I run
	West, on N. bdy. of Tp., bet, secs. 1 and 36.
	Over mountainous land, through scattering timber and mahogany brush, and dense undergrowth of sage brush and bunch grass.
	Descend.
2.00	Ravine, 40 ft. deep, course S.
	Ascend.
16.00	Top of ridge, 200 ft. above sec. cor., bears N.80°E., and S.80°W.
	Descend.
36.00	Ravine, 200 ft. deep, course N.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 1 on S. half, and S 36 on N. half; from which
	A pinon, 6 ins. diam., bears S.70° 25'W., 47 lks. dist., marked ¼ S 1 B T.
	A pinon, 6 ins. diam., bears N.12° 45'W., 73 lks. dist., marked ¼ S 36 B.T
43.00	Top of ridge, bears N. and S.
	Descend.
58.50	Old road, bears N. and S.
58.70	Hollow, 325 ft. deep, course N.
	Ascend.
80.00	Set an iron post, 3 ft. long, 3ins. dia., 24 ins. in the ground, for cor., of secs. 1-2-35 and 36, marked on brass cap
	T 32 S S 35 in NW.
	R 20 W S 36 in NE.
	R 20 W S 1 in SE., and
	T 33 S S 2 in SW., quadrant, from which
	A pinon, 6 ins. diam., bears N.29°30'E., 234 lks. dist., marked T 32 S R 20 W S 36 B T.

CHAINS	
	A mahogany, 6 ins. dia., bears S.42°20'E., 118 lks. dist., marked T 33 S R 20 W S 1 B T.
	There being no other trees available for bearing trees, I raise a mound of stone 2½ ft. base, 2 ft. high W. of cor. Pits impracticable.
	Land mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber scattering cedars and pinon pine.
	Undergrowth of sage brush, bunch grass and scattering mahogany brush.
	July 11: At this cor. I set off 22° 12'N. on the decl. arc; and at 12h. 5m. l.m.t., observe the sun on the meridian, the resulting lat. is 37° 59'.
	West, bet. secs. 2 and 35.
	Over mountainous land, through scattering timber, and undergrowth of sage brush, bunch grass and scattering mahogany brush,
	Ascend.
4.00	Enter dense mahogany brush, bears N. and S,
11.00	Top of mountain, 500 ft. high, bears N. and S.
	Descend.
15.70	Ravine, 25 ft. deep, course N.
	Ascend.
16.00	Leave mahogany brush, bears N. and S.
22.50	Top of spur, 30 ft. high, projects N.
	Descend.
25.40	Ravine, 30 ft. deep, course N. Road in bottom of ravine, Dear Lodge to State Line, bears N. and S.
	Ascend.
30.25	Top of spur, 50 ft. high, projects N.
	Descend.
34.75	Ravine, 55 ft. deep, course N.
	Ascend.

NORTH BOUNDARY OF T.33 S.,R.20 W.

CHAINS

38.71 Intersect Utah-Nevada bdy. 15.40 chs. dist. N.0° 25'E., of the 233rd mile post heretofore described.

Set an iron post, 3 ft.long, 3 ins. dia.,24 ins. in the ground, for closing Tp. cor., of Tps. 32 and 33 S., Rs. 20 W.,marked on brass cap

UTAH on E., half, and

CC NEVADA on W. half.

T 32 S R 20 W S 35 in NE., and

T 33 S R 20 W S 2 in SE.,quadrant; raise a mound of stone 2½ ft. base, 2 ft. high E. of cor. Pits impracticable.

Land mountainous.

Soil, light sandy loam and loose rock, 4th rate on a subsoil of clay and loose rock.

Timber, scattering ceddrs and pinon pine.

Undergrowth of sage brush, bunch grass and mahoganyass. brush.

July 11,1911.

Latitudes, departures, and closing errors.

Line designated	True Bearing	Dist.	Latitudes North.	Latitudes South.	Departures East.	Departures West.
S. bdy. of Tp.	West	115.02				115.02
Ut.- Nev.bdy. Tp.cor. to 238M.	N.1°40'W.	72.28	72.25			2.10
238M to 237M	N.0°24'W	83.43	83.43			0.58
237M to 236M	N.0°08'W	77.95	77.95			0.18
236M to 235 M	N.0°26'W	98.10	98.10			0.74
235M to 234M	N.0°03'W	73.98	73.98			0.07
234M to 233M	North	63.89	63.89			
233M to Tp.cor.	N.0°25'E	15.40	15.40		0.11	
North bdy of Tp.	East	118.71			118.71	
E. bdy. of Tp.	South	485.25		485.25		
Convergency					0.14	
			485.00	485.25	118.96	118.69
				485.00	118.69	
Error in lat. and dep.				0.25	0.27	

Ralph Gurley
Ass't Transitman

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 .....

For certificate of assistants see book "V" T. 31 S., R. 19 W.

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

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

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

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

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., 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 transitman see book "V" T. 31 S., R. 19 W.

..... 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, Feb. 26, 1914, ~~191~~

The foregoing field notes of the survey of the North Boundary of Township No. 33 South, Range No. 20 West of the Salt Lake Base and Meridian, Utah

executed by Ralph Gentry under his special instructions dated August 6, 1910 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Riell
U. S. Surveyor General.

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

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

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BOOK A-391

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FIELD NOTES

OF THE SURVEY OF THE

WEST AND NORTH BOUNDARIES OF TOWNSHIP 32 SOUTH

RANGE 19 WEST

Of the Salt Lake Base and *Meridian,*

In the State of Utah.

EXECUTED BY

Ralph Gentry

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* August 6, *191*0, *issued by the United States Surveyor General to govern surveys included in Group No.* 3, *which were approved by the Commissioner of the General Land Office,* September 12, *191*0, *pursuant to authority contained in the Act of Congress dated* ....., *191*...

Survey commenced June 11, *191*1

Survey completed June 16, *191*1

6—151

N. Bdy - 5-79-76

N. Bdy 5-73-76

BOOK 2-391

INDEX DIAGRAM.

Township 32 South, *Range* 19 West

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Survey commenced June,11,1911,and executed with the instrument described in book"J " of this survey.
I examine the adjustments of the transit,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 the cor.of Tps.32 and 33 S.,Rs.19 and 20 W.,in approximate Lat.37°59'N.,longitude 113°58'39" W.,I set off 37°59'N.on the lat.arc,23°05'N.on the decl.arc,and at 3h.59m.,p.m.,l.m.t.,determine a meridian with the solar and mark a point thereof,on a stone firmly set in the ground,5 chs.N.of my station.

June 11,1911.

June 12:At 2h.13m.,a.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with Manual of Instructions,and mark a point in the line thus determined,on a peg driven in the ground,5 chs.N.of my station.
At 7a.m.,I lay off the azimuth of Polaris,1°29'to the west,and mark the meridian thus determined,by cutting a small groove in the stone set last evening,on which the meridian falls 0.4 ins.east of the mark determined by the solar.
At 7h.59m.,a.m.,l.m.t.,I set off 37°59'N.,on the lat. arc,23°08'N.on the decl.arc;and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station;this mark falls 0.3 ins.east of the meridian established by the Polaris observation.
The solar apparatus by p.m. and a.m.observations defines positions for meridians,respectively about 0'21"west and 0'16"east of the meridian established by the Polaris observations;therefore,I conclude that the adjustments

CHAINS

of the transit are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m.,is N.16°W.,the angle thus determined gives the mag.decl.16°E.

From the Tp.cor.heretofore described,I run North,bet.secs.31 and 36,on West Bdy.of Tp.

Ascend over mountainous land through scattering timber and dense undergrowth.

4.00 Ridge,bears SE.and NW.

Descend.

8.00 Head of hollow,30 ft.deep,course NE.

Ascend.

13.00 Ridge,bears NE.and SW.

Descend.

33.20 Hollow,300ft.deep,course SW.

Ascend.

37.00 Spur,projects W.

Descend.

40.00 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 36 on W.half,S 31 on E.half,from which

A mahogany,6 ins.diam.,bears S.33°30'E.,49 lks. dist.,marked ¼ S 31 BT.

A pinon,10 ins.diam.,bears N.5°40'W.,638 lks. dist.,marked ¼ S 36 BT.

44.30 Hollow,200 ft.deep,course NE.

Ascend.

46.50 Spur,projects E.

Descend.

53.45 Wagon road,in bottom of hollow,250 ft.deep,course NE.

Ascend.Enter heavy timber bears NE.and SW.

60.00 Spur,projects SE.

Descend.

68.00 Head of hollow,50 ft.deep,course SE.

Ascend.

76.00 Leave heavy timber,bears NE.and SW.Enter dense under-

CHAINS	
	growth.
80.00	Set an iron post,3 ft.long,3 ins.diam.,24 ins.in the ground for the cor.of secs.25-30-31 and 36,T.32S.,Rs.19 and 20 W.,marked on brass cap
	T 32 S on N.half,
	R 20 W S 25 in NW.,
	R 19 W S 30 in NE.,
	S 31 in SE.and
	S 36 in SW.quadrant;from which
	A mohagany,7 ins.diam.,bears N.40°35'E.,73 lks. dist.,marked T 32 S R 19 W S 30 BT.
	A pinon,6 ins.diam.,bears S.55°10'E.,65 lks.dist., marked T 32 S R 19 W S 31 BT.
	A pinon,6 ins.diam.,bears S.22°10'W.,69 lks.dist., marked T 32 S R 20 W S 36 BT.
	A pinon,5 ins.diam.,bears N.60°20'W.,59 lks.dist., marked T 32 S R 20 W S 25 BT.
	Land,mountainous,slopes E.
	Soil,clay loam and loose rock,6 to 8 ins.deep,4th rate, on a subsoil of clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush,mohagany and grass.
	Heavily timbered land or land covered with dense undergrowth on 80.00 chs.

	North,bet.secs.25 and 30.
	Ascend over mountainous land through scattering timber and dense undergrowth.
5.25	Ridge,bears NE.and SW.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 25 on W.half,S 30 on E.half,from which
	A cedar,14 ins.diam.,bears S.12°40'E.,95 lks. dist.,marked ¼ S 30 BT.

CHAINS	
	A pinon,6 ins.diam.,bears N.48°25'W.,7 lks.dist., marked ¼ S 25 BT.
	June 12:At this cor.I set off 23°08'N.on the decl.arc and at 11h.59m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°00'N.
	From this cor.
	Cor.No.1 of Sleeper Lode,Sur.No.5135,bears N.7°07'W., 19.39 chs.dist.
	Cor.No.1 of Hard Times Lode,Sur.No.4167,bears N.3°26'E., 11.36 chs.dist.
	Cor.No.1 of Mississippi Lode,Sur.No.5133,bears N.1°10'E., 10.57 chs.dist.
	Cor.No.1 of South Peak Lode,Sur.No.5060,bears N.77°01'E., 18.85 chs.dist.
	Cor.No.1 of Single Standard Lode,Sur.No.4471,bears N.42°12'E.,12.73 chs.dist.
	Cor.No.1 of Utica Lode,Sur.No.4169,bears N.80°W.,12.67 chs.dist.
	Cor.No.1 of Johnny Lode,Sur.No.4168,bears S.86°24'W., 24.85 chs.dist.
	Cor.No.1 of Grand Prize Lode,Sur.No.4353,bears N.82°58' W.,28.17 chs.dist.
	Cor.No.1 of Johnnie No.2 Lode,Sur.No.4905,bears S.87°01' W.,32.32 chs.dist.
	Cor.No.1 of Victor Lode,Sur.No.4352,bears N.63°46'W., 20.75 chs.dist.
	Cor.No.1 of Dewey Mine Lode,Sur.No.5134,bears N.66°39'W., 41.81 chs.dist.
	The shaft of the Little Johnny Mine bears N.12°07'W.
	The cyanide plant of the same mine bears N.31°30'W.
	Note:These ties were made July 21,1911.
44.00	The shaft of the Little Johnny Mine bears N.17°51'W.
	The cyanide plant of the same mine bears N.40°52'W.
	Leave scattering timber,enter dense undergrowth.

CHAINS	
62.85	Wagon road,Fay,Nevada,to State Line,Utah,bears NE.and SW.
64.80	Wagon Road,between same places,bears NE.and SW.
65.30	Stream of water,4 lks.wide,12 ins.deep,in bottom of hollow,300 ft.deep,course NE.
	Ascend.
68.00	Enter heavy timber,bears NE.and SW.
80.00	Set an iron post,3 ft.long,3 ins.diam.,24 ins.in the ground for the cor.of secs.19-24-25 and 30,marked on brass cap
	T 32 S on N.half,.,
	R 20 W S 24 in NW.,
	R 19 W S 19 in NE.,
	S 30 in SE.and
	S 25 in SW.quadrant,from which
	A pinon,6 ins.diam.,bears N.50°05'E.,170 lks. dist.,marked T 32 S R 19 W S 19 BT.
	A pinon,8 ins.diam.,bears S.24°35'E.,71 lks. dist.,marked T 32 S R 19 W S 30 BT.
	A pinon,7 ins.diam.,bears S.13°30'W.,92 lks. dist.,marked T 32 S R 20 W S 25 BT.
	A pinon,7 ins.diam.,bears N.78°35'W.,120 lks. dist.,marked T 32 S R 20 W S 24 BT.
	Land,mountainous.
	Soil,clay loam and loose rock,6 ins.deep,4th rate,on a subsoil of loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush,mohagany and grass.
	Heavily timbered land or land covered with dense under growth on 80.00 chs.

	North,bet.secs.19 and 24.
	Ascend over mountainous land,through heavy timber.
3.00	Spur,projects E.
	Descend.

WEST BOUNDARY OF T.32 S.,R.19 W.

CHAINS	
4.00	Leave heavy timber,bears NE.and SW.Enter dense undergrowth.
13.70	Hollow,300 ft.deep,course SE.
	Ascend.
15.00	Wagon road,bears NW.and SE.
28.00	Enter heavy timber,bears NW.and SE.
32.00	Ridge,bears NE.and SW.
	Descend.
40.00	Hollow,350 ft.deep,course SW.
	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 24 on W.half,S 19 on E.half,from which
	A pinon,7 ins.diam.,bears N.48°05'E.,24 lks.dist., marked $\frac{1}{4}$ S 19 BT.
	A pinon,9 ins.diam.,bears S.83°10'W.,160 lks. dist.,marked $\frac{1}{4}$ S 24 BT. Ascend.
	From the $\frac{1}{4}$ sec.cor Cor.No.4 of Side Winder Lode,Sur.No.6033,bears S.82°01' E.,5.95 chs.dist.
45.00	Spur,projects SW.
	Descend.
50.70	Hollow,50 ft.deep,course SW.
	Ascend.
68.00	Spur,projects E.
	Descend.
74.60	Hollow,75 ft.deep,course SE.
	Ascend.
80.00	Set an iron post,3 ft.long,3 ins.diam.,24 ins.in the ground for the cor.of secs. 13-18-19 and 24,marked on brass cap
	T 32 S on N.half,
	R 20 W S 13 in NW.,
	R 19 W S 18 in NE.,
	S 19 in SE.,and
	S 24 in SW.quadrant,from which
	A mohagany,8 ins.diam.,bears N.43°35'E.,52 lks. dist.,marked T 32 S R 19 W S 18 BT.
	A pinon,9 ins.diam.,bears S.68°50'E.,52 lks. dist.,marked T 32 S R 19 W S 19 BT.

CHAINS	
	A pinon,24 ins.diam.,bears S.20°15'W.,7 lks.dist., marked T 32 S R 20 W S 24 BT.
	A mohagany,7 ins.diam.,bears N.47°30'W.,54 lks. dist.,marked T 32 S R 20 W S 13 BT.
	Land,mountainous.
	Soil,clay loam and loose rock,6 ins.deep,4th rate,on a subsoil of loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush,mohagany and grass.
	Heavily timbered land on 80.00 chs.
	June 12,1911.
	June 13; At 8h.00m.,a.m.,l.m.t.,I set off 38°02'N.on the lat.arc,23°11'N.on the decl.arc and determine a meridian with the solar at the cor, of secs.13-18-19 and 24.
	Thence I run
	North,bet.secs.13 and 18.
	Ascend over mountainous land through heavy timber.
4.00	Leave heavy timber;bears NW.and SE.Enter scattering timber and dense undergrowth.
14.00	Ridge,bears E.and W.
	Descend.
36.00	Hollow,200 ft.deep,course SE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 13 on W.half,S 18 on E.half,from which
	A pinon,6 ins.diam.,bears S.46°25'W.,327 lks. dist.,marked ¼ S 13 BT.
	A pinon,6 ins.diam.,bears N.68°45'E.,146 lks. dist.,marked ¼ S 18 BT.
50.25	Ridge,bears NE.and SW.
	Descend.
80.00	Set an iron post,3 ft.long,3 ins.diam.,24 ins.in the

CHAINS

ground for the cor.of secs.7-12-13 and 18,marked on brass cap

T 32 S on N.half,

R 20 W S 12 in NW.,

R 19 W S 7 in NE.,

S 18 in SE.,and

S 13 in SW.quadrant;from which

A pimon,9 ins.diam.,bears N.45°45'E.,51 lks.dist., marked T 32 S R 19 W S 7 BT.

A pinon,6 ins.diam.,bears S.13°35'E.,32 lks.dist., marked T 32 S R 19 W S 18 BT.

A pinon,12 ins.diam.,bears S.26°W.,41 lks.dist., Marked T 32 S R 20 W S 13 BT.

A pinon,8 ins.diam.,bears N.46°55'W.,5 lks.dist., marked T 32 S R 20 W S 12 BT.

Land,mountainous.

Soil,clay loam and loose rock,6 ins.deep,4th rate,ona subsoil of loose rock.

Timber,cedar and pinon.

Undergrowth,sage brush,mohagany and grass.

Heavily timbered land or land covered with dense under growth on 80.00 chs.

June 13: At this cor.I set off 23°12'N.on the decl.arc and at 12h.00m.M. . .,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°03'N.

North,bet.secs.7 and 12.

Descend over mountainous land ,through scattering timber and dense undergrowth.

31.75 Wagon road,bears E.and W.

32.60 Stream,of water,3 lks.wide,6 ins.deep,in bottom of hollow,250 ft.deep,course E.

Ascend.

35.00 Enter heavy timber,bears NW.and SE.

40.00 Spur,projects E.

CHAINS	
	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 12 on W.half,S 7 on E.half,from which
	A pinon,9 ins.diam.,bears S.28°30'E.,42 lks.dist., marked ¼ S 7 BT.
	A pinon,10 ins.diam.,bears N.77°W.,38 lks.dist., marked ¼ S 12 BT.
	Descend.
	June 13.1911.
	June 14: At 8h.00m.,a.m.,l.m.t.,I set off 38°03'N.on the lat.arc,23°15'N.on the decl.arc,and determine a meridian with the solar at the ¼ sec.cor.bet.sec.7 and 12.
	I continue on same line with continuous measurement.
47.00	Hollow,150 ft.deep,course SE.
	Ascend.
72.00	Ridge,bears SE.and NW.
	Descend.
80.00	Set an iron post,3 ft.long,3 ins.diam.,24 ins.in the ground for the cor.of secs.1-6-7 and 12,marked on brass cap
	T 32 S on N.half,
	R 20 W S 1 in NW.,
	R 19 W S 6 in NE.,
	S 7 in SE.,and
	S 12 in SW.quadrant;from which
	A pinon,8 ins.diam.,bears N.32°30'E.,45 lks.dist., marked T 32 S R 19 W S 6 BT.
	A pinon,9 ins.diam.,bears S.23°45'E.,41 lks.dist., marked T 32 S R 19 W S 7 BT.
	A pinon,14 ins.diam.,bears S.60°40'W.,15 lks. dist.,marked T 32 S R 20 W S 12 BT.
	A pinon,12 ins.diam.,bears N.43°35'W.,34 lks. dist.,marked T 32 S R 20 W S 1 BT.
	Land,mountainous.
	Soil,clay loam and loose rock,6 ins.deep,4th rate,on a

CHAINS	
	subsoil of loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush ,mohagany and grass.
	Heavily timbered land or land covered with dense under growth on 80.00 chs.
	June 14:At this cor.I set off 23°15'N.on the decl.arc and at 12h 00m., M.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°03'N.
	North,bet.secs.1 and 6.
	Descend over mountainous land through heavy timber.
1.50	Head of hollow,50 ft.deep,course NE.
	Ascend.
8.00	Ridge,bears NE.and SW.
	Descend.
21.50	Hollow,150 ft.deep,course NW.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 1 on W.half,S 6 on E.half;from which
	A cedar,12 ins.diam.,bears N.67°25'E.,99 lks. dist.,marked ¼ S 6 BT.
	A pinon,10 ins.diam.,bears S.46°45'W.,108 lks. dist.,marked ¼ S 1 BT.
41.00	Leave heavy timber,bears NW.and SE.,enter dense under-growth.
51.80	Hollow,250 ft.deep,course NE.
	Ascend.
56.00	Enter heavy timber,bears NW.and SE.
67.75	Spur,projects E.
	Descend.
79.76	Set an iron post,3 ft.long,3 ins.diam.,24 ins.in the ground,for the cor.of Tps.31 and 32 S.,Rs.19 and 20 W., marked on brass cap
	T 31 S on N.half,

CHAINS

R 20 W S 36 in NW.;

R 19 W S 31 in NE.,

R 19 W S 6 in SE.,

R 20 W S 1 in SW.quadrant,and

T 32 S on S.half;from which

A pinon,8 ins.diam.,bears N.60°35'E.,13 lks.dist., marked T 31 S R 19 W S 31 BT.

A cedar,12 ins.diam.,bears S.43°45'E.,45 lks.dist., marked T 32 S R 19 W S 6 BT.

A pinon,10 ins.diam.,bears S.30°45'W.,57 lks.dist., marked T 32 S R 20 W S 1 BT.

A pinon,6 ins.diam.,bears N.49°40'W.,17 lks.dist., marked T 31 S R 20 W S 36 BT.

Land,mountainous.

Soil,clay loam and loose rock,6 ins.deep,4th rate,on a subsoil of loose rock.

Timber,cedar and pinon.

Undergrowth,sage brush and grass.

Heavily timbered land or land covered with dense undergrowth on 79.76 chs.

June 14,1911.

NORTH BOUNDARY OF TOWNSHIP 32 SOUTH,RANGE 19 WEST.

June 15:At 8.00 a.m.,l.m.t.,I set off 38°04'N.on the lat.arc,23°18'N.on the decl.arc and determine a meridian with the solar,at the cor.of Tps 31 and 32 S.,Rs.18 and 19 W.

Thence I run

West on a random line,along the N.bdy.of Tp.32 S.,R.19 W.,setting temp.$\frac{1}{4}$ sec.and sec.cors.at intervals of 40.00 chs.;and at 473.76 chs.,intersect the W.bdy of the Tp.26 lks.S.of the cor.of Tps.31 and 32 S.,Rs.19 and 20 W.,heretofore described.

The falling answers to a correction of 0°02',or 4 lks. N.per mile,counting from the NE.cor.of the Tp.

June 15,1911.

June 16:At 8.00 a.m.,l.m.t.I set off 38°04'N.on lat.arc

CHAINS	
	23°21'N.on the decl.arc,and determine a meridian with the solar at the cor.of Tps.31 and 32 S.,Rs.19 and 20 W., thence I run S.89°58'E.,bet.secs.6 and 31,marking and blazing true line.
	Descend over mountainous land,through heavy timber.
24.00	Hollow,100 ft.deep,course NE.
	Ascend.
32.50	Ridge,bears N.and SW.
	Descend.
33.76	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.marked on brass cap,¼ S 31 on N.half,S 6 on S.half;from which
	A cedar,10 ins.diam.,bears N.16°15'E.,13 lks.dist., marked ¼ S 31 BT.
	A cedar,12 ins.diam.,bears S.4°40'W.,10 lks.dist., marked ¼ S 6 BT.
44.75	Hollow,50 ft.deep,course SE.
	Ascend.
51.50	Spur,projects S.
	Descend.
73.76	Set an iron post,3 ft.long,3 ins.diam.,24 ins.in the ground for the cor.of secs.5-6-31 and 32,marked on brass cap
	T 31 S S 31 in NW.,
	R 19 W S 32 in NE.,
	R 19 W S 5 in SE.,and
	T 32 S S 6 in SW.quadrant;from which
	A cedar,8 ins.diam.,bears N.63°15'E.,114 lks.dist., marked T 31 S R 19 W S 32 BT.
	A pinon,12 ins.diam.,bears S.27°15'E.,129 lks. dist.,marked T 32 S R 19 W S 5 BT.
	A pinon,14 ins.diam.,bears S.22°W.,92 lks.dist., marked T 32 S R 19 W S 6 BT.
	A cedar,6 ins.diam.,bears N.16°55'W.,48 lks.dist., marked T 31 S R 19 W S 31 BT.
	Land,mountainous.
	Soil,clay loam and loose rock,6 ins.deep,4th rate,on a

CHAINS	
	subsoil of loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 73.76 chs.

	S.89°58'E.,bet.secs.5 and 32.
	Descend over mountainous land through heavy timber.
1.00	Hollow,75 ft.deep,course S.
	Ascend.
10.50	Spur,projects S.
	Descend.
20.00	Foot of spur,leave mountainous land and enter gently rolling land.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 32 on N.half,S 5 on S.half;from which
	A cedar,6 ins.diam.,bears S.43°30'E.,51 lks.dist., marked ¼ S 5 BT.
	A cedar,8 ins.diam.,bears N.22°15'W.,29 lks.dist., marked ¼ S 32 BT.
46.25	Wash,5 lks.wide,24 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,3 ins.diam.,24 ins.in the ground for the cor.of secs.4-5-32 and 33,marked on brass cap
	T 31 S S 32 in NW.,
	R 19 W S 33 in NE.,
	R 19 W S 4 in SE.and
	T 32 S S 5 in SW.quadrant;from which
	A pinon,7 ins.diam.,bears N.38°55'E.,98 lks.dist., marked T 31 S R 19 W S 33 BT.
	A cedar,6 ins.diam.,bears S.60°35'E.,71 lks.dist., marked T 32 S R 19 W S 4 BT.
	A cedar,8 ins.diam.,bears S.56°25'W.,47 lks.dis t., marked T 32 S R 19 W S 5 BT.
	A cedar,8 ins.diam.,bears N.56°40'W.,42 lks.dist., marked T 31 S R 19 W S 32 BT.

CHAINS

Land,rolling and mountainous.

Soil,clay loam and gravel,6 to 8 ins.deep,3rd rate,on a subsoil of stiff clay and loose rock.

Timber,cedar and pinon.

Undergrowth,sage brush and grass.

Heavily timbered land on 80.00 chs.

S.89°58'E.,bet.secs.4 and 33.

Over gently rolling land through heavy timber.

11.00 Wagon road,bears NE.and SW.

16.00 Leave heavy timber,bears NW.and SE.,enter scattering timber and dense undergrowth.

20.00 Wash,3 lks.wide,12 ins.deep,drains NE.

40.00 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.;marked on brass cap,$\frac{1}{4}$ S 33 on N.half,S 4 on S.half;from which

A cedar,6 ins.diam.,bears S.66°15'W.,408 lks. dist.,marked $\frac{1}{4}$ S 4 BT.

A cedar,9 ins.diam.,bears N.87°10'W.,361 lks. dist.,marked $\frac{1}{4}$ S 33 BT.

42.00 Leave scattering timber.

64.00 Wagon road,bears NE.and SW.

72.25 Wash,3 lks.wide ,15 ins.deep,drains NE.

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

T 31 S S 33 in NW.,

R 19 W S 34 in NE.,

R 19 W S 3 in SE.,and

T 32 S S 4 in SW.quadrant;dig pits 18x18x12 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.

Land,rolling slopes NE.

Soil,clay loam and gravel 6 to 8 ins.deep,on a subsoil of damp stiff clay.Soil,2 nd rate.

CHAINS	
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land or land covered with dense under growth on 80.00 chs.
	June 16: At this cor.I set off 23°21'N.on the decl.arc and at 12h.0m.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 38°04'N.
	S.89°58'E.,bet.secs.3 and 34.
	Over gently rolling land through dense undergrowth.
16.00	Wash,3 lks.wide,12 ins.deep;drains NE.
25.25	Wash,5 lks.wide,12 ins.deep,drains NE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.;marked on brass cap,¼ S 34 on N.half,S 3 on S.half;dig pits 18x18x12 ins.E.and W.of post,3 ft.dist.;and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
53.50	Wagon road,bears NE.and SW.
58.10	Wagon road,bears NE.and SW.
64.40	Wash,8 lks.wide,12 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,3 ins.diam.,24 ins.in the ground for the cor.of secs. 2-3-34 and 35,marked on brass cap T 31 S S 34 in NW., R 19 W S 35 in NE., R 19 W S 2 in SE.,and T 32 S S 3 in SW.quadrant;dig pits 18x18x12 ins.in each sec.,5½ ft.dist.;and raise a mound of earth 4 ft. base,2 ft.high W.of cor.
	Land rolling,slopes NE.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.00 chs.

CHAINS

S.89°58'E.,bet.secs.2 and 35.

Over gently rolling land through dense undergrowth.

2.50 Wash,6 lks.wide,15 ins.deep,drains NE.

40.00 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 35 on N.half,S 2 on S.half;dig pits 18x18x12 ins.E.and W.of post,3 ft.dist.;and raise a mound of earth 3½ ft.base,1½ ft.high N.of cor.

40.50 Wash 5 lks.wide, 1 ft.deep, drs.NE.

73.25 Wash,4 lks.wide,12 ins.deep,drains NE.

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

T 31 S S 35 in NW.,

R 19 W S 36 in NE.,

R 19 W S 1 in SE.and

T 32 S S 2 in SW.quadrant;dig pits 18x18x12 ins.in each sec.,5½ ft.dist.;and raise a mound of earth 4 ft. base,2 ft.high,W.of cor.

Land,rolling,slopes NE.

Soil,clay loam and gravel,6 to 8 ins.deep,3rd rate,on a subsoil of damp stiff clay.

No timber.

Undergrowth,sage brush and grass.

Dense undergrowth on 80.00 chs.

S.89°58'E.,bet.secs. 1 and 36.

Over gently rolling land through dense undergrowth.

40.00 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap ¼ S 36 on N.half,S 1 on S.half;dig pits 18x18x12 ins.E.and W.of post,3 ft.dist.;and raise a mound of earth 3½ ft.base 1½ ft.high N.of cor.

44.00 Wash,4 lks.wide,12 ins.deep,drains NE.

53.30 Wash,3 lks.wide,10 ins.deep,drains N. **Ascend.**

60.00 **Top of ascent, descend into wash.**

74.10 Wash,8 lks.wide,18 ins.deep,drains N.

NORTH BOUNDARY OF T.32 S.,R 19 W.

CHAINS	
76.20	Wagon road,bears NW.and SE.
80.00	The cor.of Tps.31 and 32 S.,Rs.18 and 19 W.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2 nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.00 chs.
	June 16,1911.

For general description of Tp.seesubdivisions of T.32 S., R.19 W.

Table of Latitude and Departures for T.32 S.,R.19 W.

Line Designated	True bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
S.bdy.of T.32.S.,R.19 W.	S.89°59 W.	474.50		.15		474.50
W.bdy.of T.32 S.,R.19 W.	North	479.76	479.76			
N.bdy.of T.32 S.,R.19 W.	S.89°58'E.	473.76		.30	473.76	
E.bdy.of T.32 S.,R.19 W.	South	479.64		479.64		
Convergency					.57	
Totals			479.76	480.09 479.76	474.33	474.50 474.33
Errors in lat.and dep.				.33		.17

Ralph Gurley

U.S.Transitman.

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BOOK A-391

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 .....

For certificate of assistants see book "V" T. 31 S., R. 19 W.

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

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

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

.....

U. S. Surveyor.

6—2764

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 transitman see book "V" T. 31 S., R. 19 W.

..... 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, February 26, 1914.

The foregoing field notes of the survey of the West and North Boundaries of Township No. 32 South, Range No. 19 West of the Salt Lake Base and Meridian, Utah

executed by Ralph Gentry under his special instructions dated August 6, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hall
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

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Ex.V.I.F.

Filed Mar.16, 1912.
WSH

4—679

E.R.

BOOK A-391

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP 32 SOUTH, RANGE 19 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

RALPH GENTRY

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* Aug.6, *191*0, *issued by the United States Surveyor General to govern surveys included in Group No.* 3, *which were approved by the Commissioner of the General Land Office,* Sept.12, *191*0, *pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced June 16, *191*1.

Survey completed July 7, *191*1.

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BOOK A-391

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Township 32 South, *Range* 19 West

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Survey commenced June 16,1911,and executed with the instrument described in book " J" of this survey.
I examine the adjustments of the transit,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 the cor.of secs.1-2-35 and 36,Tps.32 and 33 S.,R.19 W.,heretofore descibed,in approximate latitude 37°59' 04"S.,longitude 113°53'10"W.,I set off 37°59'N.on the lat.arc,23°21'N.on the decl.arc,and at 4.00 p.m.,l.m.t., 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.

June 16,1911.

June 17: At 1h.54m.,a.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with Manual of Instructions,and mark a point in the line thus determined,on a peg driven in the ground,5 chs.N.of my station.
At 7a.m.,I lay off the azimuth of Polaris,1°29' to the west,and mark the meridian thus determined,by cutting a small groove in the stone set last evening,on which the meridian falls 0.4 ins.east of the mark determined by the solar.
At 8h.0m.,a.m.,l.m.t.,I set off 37°59'N.,on the lat. arc,23°23'N.on the decl.arc;and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station;this mark falls 0.3 ins.east of the meridian established by the Polaris observation.
The solar apparatus by p.m.and a.m.observations defines positions for meridians,respectively about 0'21" west and 0'16"east of the meridian established by the Polaris observations;therefore,I conclude that the adjustments

CHAINS	
	of the transit are satisfactory.
	The magnetic bearing of the true meridian at 8h.30m., a.m.,is N.16°W.,the angle thus determined gives the mag.decl.16°E.
	Thence I run
	N.0°01'W.,bet.secs.35 and 36.
	Over gently rolling land,through dense undergrowth.
1.50	Wash,6 lks.wide,18 ins.deep,drains NE.
4.00	Wagon road,Modena to Lund,bears NE.and SW.
22.40	Wash,3 lks.wide,12 ins.deep,drains NE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 35on W.half,S 36 on E.half;dig pits 18x18x12 ins.N.and S.of post,3 ft.dist.;raise a mound of earth 3½ ft.base,1½ ft. high,W.of cor.
41.60	Wash,4 lks.wide,18 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground,for the cor.of secs.25-26-35 and 36,marked on brass cap
	T 32 S S 26 in NW.,
	R 19 W S 25 in NE.,
	S 36 in SE.,and
	S 35 in SW.quadrant;dig pits 18x18x12 ins.in each sec. 5½ ft.dist.;raise a mound of earth 4 ft.base,2 ft.high W.of cor.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.00 chs.

	N.89°59'E.,on a random line bet.secs.25 and 36.
40.00	Set temp.¼ sec.cor.
79.96	Intersect E.bdy.of Tp.9 lks.N.of the cor.of secs.25-30-

CHAINS	
	31 and 36., heretofore described.
	June 17:At this cor.I set off 23°23'N.on the decl.arc, and at 12M.observe the sun on the meridian,the resulting lat.is 38°0'N.
	Thence I run
	N.89°57'W.,on a true line
	Bet.secs.25 and 36.
	Over gently rolling land,through dense undergrowth.
10.50	Wash,3 lks.wide,12 ins.deep,drains NE.
29.00	Wagon road,bears NW.and SE.
39.98	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 25 on N.half,S 36 on S.half;dig pits,18x18x12 ins.E.and W.of post,3 ft.dist.;raise a mound of earth 3½ ft.base,1½ ft. high N.of cor.
40.50	Wash,10 lks.wide 36 ins.deep,drains NE.
42.80	Wagon road,Modena to Lund,bears NE.and SW.
79.96	The cor.of secs.25-26-35 and 36.
	Land,rolling,slopes NE.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 79.96 chs.
	N.0°01'W.,bet.secs.25 and 26.
	Over gently rolling land through dense undergrowth.
9.00	Wash,4 lks.wide,12 ins.deep,drains NE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 26 on W.half,S 25 on E.half;dig pits 18x18x12 ins.N.and S.of the post,3 ft.dist.;raise a mound of earth,3½ ft.base, 1½ ft.high,W.of cor.
48.50	Wagon road,bears E.and W.
73.00	Wash,8 lks.wide,12 ins.deep,drains E.

CHAINS	
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.23-24-25 and 26,marked on brass cap T 32 S S 23 in NW., R 19 W S 24 in NE., S 25 in SE.and S 26 in SW.quadrant;dig pits 18x18x12 ins.in each sec.5½ ft.dist.;raise a mound of earth 4 ft.base,2 ft. high,W.of cor. Land,rolling,slopes NE. Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay. No timber. Undergrowth,sage brush and grass. Dense undergrowth on 80.00 chs. June 17,1911.
	June 19:At 8h.1m.,a.m.,l.m.t.,I set off 38°01'N.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 S.89°57'E.,on a random line,bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
79.94	Intersect E.bdy.of Tp.2 lks.S.of the cor.of secs.19-24-25 and 30, heretofore described. Thence I run N.89°58'W.,on a true line Bet.secs.24 and 25. Over gently rolling land,through dense undergrowth.
21.75	Wash,6 lks.wide,24 ins.deep,drains NE.
39.97	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 24 on N.half,S 25 on S.half;dig pits 18x18x12 ins.E.and W.of post,3 ft.dist.;raise a mound of earth 3½ ft.base,1½ ft. high N.of cor.

CHAINS	
69.00	Wash,8 lks.wide,12 ins.deep,drains SE.
79.94	The cor.of secs.23-24-25 and 26.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 79.94 chs.
	N.0°01'W.,bet.secs.23 and 24.
	Over gently rolling land ,through dense undergrowth.
3.10	Wash,10 lks.wide,18 ins.deep,drains E.
14.10	Wash,3 lks.wide,12 ins.deep,drains SE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap ¼ S 23 on W.half,S 24 on E.half;dig pits 18x18x12 ins.N.and S.of the post,3 ft.dist.;raise a mound of earth,3½ ft.base, 1½ ft.high W.of cor.
64.00	Wagon road,State Line to Lund,bears NE.and SW.
65.70	Descend into ravine,12 ft.deep,drains NE.
68.00	Wash,4 lks.wide,12 ins.deep,in bottom of ravine drains NE.
71.50	Leave ravine.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.13-14-23 and 24,marked on brass cap T 32 S S 14 in NW., R 19 W S 13 in NE., S 24 in SE.and S 23 in SW.quadrant;dig pits 18x18x12 ins.in each sec.5½ ft.dist.;raise a mound of earth,4 ft.base,2 ft. high,W.of cor.
	Land.rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ind.deep,2nd rate,on a subsoil of damp stiff clay.

CHAINS	
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.00 chs.

	S.89°58'E.,on a random line,bet.secs.13 and 24.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.92	Intersect E.bdy.of Tp.5 lks.N.of the cor.of secs.13-18-19 and 24., heretofore described.
	Thence I run
	N.89°56'W.,on a true line
	Bet.secs.13 and 24.
	Over gently rolling land through dense undergrowth.
39.96	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 13 on N.half,S 24 on S.half;dig pits 18x18x12 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.
64.00	Enter ravine,15 ft.deep,drains NE.
67.50	Wash,4 lks.wide,12 ins.deep,in bottom of ravine.
71.60	Leave ravine.
79.92	The cor.of secs.13-14-23 and 24.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 79.92 chs.

	N.0°01'W.,bet.secs.13 and 14.
	Over gently rolling land through dense undergrowth.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 14 on W.half,S 13 on E.half;dig pits 18x18x12 ins.N.and S. of post,3 ft.dist.;raise a mound of earth,$3\frac{1}{2}$ ft.base,

CHAINS	
	$1\frac{1}{2}$ ft.high,W.of cor.
46.40	Wash,4 lks.wide,12 ins.deep,drains NE.
57.00	Wash,5 lks.wide,18 ins.deep,drains NE.
67.20	Wagon road,bears NE.and SW.
78.25	Wash,4 lks.wide,10 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.11-12-13 and 14,marked on brass cap
	T 32 S S 11 in NW.,
	R 19 W S 12 in NE.,
	S 13 in SE.and
	S 14 in SW.quadrant;raise a mound of stone,2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	Land rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.00 chs.
	June 19:At this cor.I set off 23°26'N.on the decl.arc, and at 12h.1m.p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°03'N.
	S.89°56'E.,on a random line,bet.secs.12 and 13.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.90	Intersect E.bdy.of Tp.2 lks.N.of the cor.of secs.7-12-13 and 18, heretofore described.
	Thence I run
	N.89°55'W.,on a true line
	Bet.secs.12 and 13.
	Over gently rolling land through dense undergrowth.
7.75	Wash,3 lks.wide,12 ins.deep,drains SE.
28.25	Same wash,2 lks.wide,10 ins.deep,drains NE.

CHAINS	
39.95	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 12 on N.half,S 13 on S.half;dig pits 18x18x12 ins.E.andW. 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.
54.75	Wash,3 lks.wide,12 ins.deep,drains NE.
66.00	Wagon road,bears NE.and SW.
70.80	Wash,4 lks.wide,15 ins.deep,drains NE.
79.90	The cor.of secs.11-12-13 and 14.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 79.90 chs.

	N.0°01'W.,bet.secs.11 and 12.
	Over gently rolling land through dense undergrowth.
21.80	Wagon road,bears NE.and SW.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 11 on W.half,S 12 on E.half;dig pits,18x18x12 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.
55.50	Wash,3 lks.wide,12 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.1-2-11 and 12,marked on brass cap T 32 S S 2 in NW., R 19 W S 1 in NE., S 12 in SE.and S 11 in SW.quadrant;dig pits 18x18x12 ins.in each sec.$5\frac{1}{2}$ ft.dist.;raise a mound of earth,4 ft.base,2 ft. high W.of cor.
	Land,rolling,slopes NE.

CHAINS	
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil pf damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.00 chs.
	S.89°55'E.,on a random line,bet.secs.1 and 12.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.94	Intersect E.bdy.of Tp.5 lks.N.of the cor.of secs.1-6-7 and 12, heretofore described.
	Thence I run
	N.89°53'W.,on a true line
	Bet.secs.1 and 12.
	Over gently rolling land through dense undergrowth.
27.00	Enter ravine,18 ft.deep,drains NE.
31.00	Wash,3 lks.wide,12 ins.deep,in bottom of ravine.
36.50	Leave ravine.
39.97	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 1 on N.half,S 12 on S.half;dig pits 18x18x12 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.
42.50	Enter ravine,15 ft.deep,course NE.
47.00	Wash,3 lks.wide,12 ins.deep,in bottom of ravine.
52.00	Leave ravine.
79.94	The cor.of secs.1-2-11 and 12.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 79.94 chs.

CHAINS	
	N.0°01'W.,on a random line,bet.secs.1 and 2.
40.00	Set temp.¼ sec.cor.
79.50	Intersect N.bdy.of Tp.10 lks.E.of the cor.of secs.1-2-35 and 36, heretofore described.
	Thence I run
	S.0°05'E.,on a true line
	Bet.secs.1 and 2.
	Over gently rolling land through dense undergrowth.
9.85	Wash,4 lks.wide,12 ins.deep,drains E.
21.25	Wash,3 lks.wide,10 ins.deep,drains NE.
39.25	Wash,5 lks.wide,15 ins.deep,drains E.
39.50	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 2 on W.half,S 1 on E.half;dig pits 18x18x12 ins.N.and S.of post,3 ft.dist.;raise a mound of earth,3½ ft.base,1½ ft.high,W.of cor.
56.00	Enter ravine,12 ft.deep,drains E.
59.00	Wash,4 lks.wide,18 ins.deep,in bottom of ravine.
64.00	Leave ravine.
75.00	Wash,8 lks.wide,24 ins.deep,drains NE.
79.50	The cor.of secs.1-2-11 and 12.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 79.50 chs.

June 19,1911.

June 20:At 8h.1m.,a.m.,l.m.t.,I set off 37°59'N.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 S. bdy.of Tp., heretofore described.

Thence I run

CHAINS	
	N.0°01',bet.secs.34 and 35.
	Over gently rolling land through dense undergrowth.
11.60	Wash,3 lks.wide,12 ins.deep,drains NE.
36.50	Wash,4 lks.wide,18 ins.deep,drains SE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 34 on W.half,S 35 on E.half;dig pits 18x18x12 ins.N.and S.of post,3 ft.dist.;raise a mound of earth 3½ ft.base,1½ ft.high,W.of cor.
74.50	Wash,4 lks.wide,12 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.26-27-34 and 35,marked on brass cap T 32 S S 27 in NW.; R 19 W S 26 in NE., S 35 in SE.,and S 34 in SW.quadrant;dig pits 18x18x12 ins.in each sec. 5½ ft.dist.;raise a mound of earth 4 ft.base,2 ft.high, W.of cor.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.00 chs.

	N.89°59'E.,on a random line,bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line,2 lks.N.of the cor.of secs.25-26-35 and 36.
	Thence I run
	West,on a true line
	Bet.secs.26 and 35.
	Over gently rolling land through dense undergrowth.
30.00	Wash,3 lks.wide,12 ins.deep,drains NE.
40.03	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the

CHAINS	
	ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 26 on N.half,S 35 on S.half;dig pits 18x18x12 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.
72.50	Wash,4 lks.wide,12 ins.deep,drains NE.
80.06	The cor.of secs.26-27-34 and 35.
	Land,rolling,slopes NE.
	Soil,clay loam and gravel,6 to 8 ins.deep,on a subsoil of damp stiff clay.Soil 2nd rate.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.06 chs.
	June 20: At this cor.I set off 23°27'N.on the decl.arc, and at 12h.1m.p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°00'N.

	N.0°01'W.,bet.secs.26 and 27.
	Over gently rolling land through dense undergrowth.
6.30	Wash,4 lks.wide,12 ins.deep,drains E.
34.00	Wagon road,bears NE.and W.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 27 on W.half,S 26 on E.half;dig pits 18x18x12 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.
64.50	Wash,8 lks.wide,36 ins.deep,drains SE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.22-23-26 and 27,marked on brass cap T 32 S S 22 in NW., R 19 W S 23 in NE., S 26 in SE.and S 27 in SW,quadrant;dig pits 18x18x12 ins.in each sec.$5\frac{1}{2}$ ft.dist.;raise a mound of earth,4 ft.base,2 ft. high W.of cor.

CHAINS	
	Land,rolling,slopes NE.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.00 chs.
	East,on a random line,bet.secs.23 and 26.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.10	Intersect N.and S.line,7 lks.S.of the cor.of secs.23-24-25 and 26.
	Thence I run
	S.89°57'W.,on a true line
	Bet.secs.23 and 26.
	Over gently rolling land through dense undergrowth.
6.20	Wash,8 lks.wide,24 ins.deep,drains NE.
29.60	Wash,4 lks.wide,12 ins.deep,drains NE.
40.05	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 23 on N.half,S 26 on S.half;dig pits 18x18x12 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.
80.10	The cor.of secs.22-23-26 and 27.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,ona subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.10 chs.
	N.0°01'W.,bet.secs.22 and 23.
	Over gently rolling land through dense undergrowth.
16.00	Enter ravine,12 ft.deep,drains NE.
21.70	Wash,6 lks.wide,36 ins.deep,in bottom of ravine.

CHAINS	
24.00	Leave ravine.
32.00	Wash,3 lks.wide,12 ins.deep,drains E.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 22 on W.half,S 23 on E.half;dig pits 18x18x12 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.
49.60	Wagon road,State line to Lund,bears NE.and SW.
62.00	Descend into ravine,10 ft.deep,drains NE.
64.00	Wash,4 lks.wide,10 ins.deep,in bottom of ravine.
68.00	Leave ravine.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs. 14-15-22 and 23,marked on brass cap T 32 S S 15 in NW., R 19 W S 14 in NE., S 23 in SE.and S 22 in SW.quadrant;dig pits 18x18x12 ins.in each sec. $5\frac{1}{2}$ ft.dist.;raise a mound of earth 4 ft.base,2 ft.high W.of cor.
	Land rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.00 chs.
	June 20,1911.

June 21: At 8h.1m.,a.m.,l.m.t.,I set off 38°02'N.on the lat.arc,23°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°57'E.,on a random line,bet.secs.14 and 23.

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

CHAINS	
80.08	Intersect N.and S.line,2 lks.S.of the cor.of secs.13-14-23 and 24.
	Thence I run
	S.89°56'W.,on a true line
	Bet.secs.14 and 23.
	Over gently rolling land through dense undergrowth.
28.00	Descend into ravine,6 ft.deep,drains NE.
40.04	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap ¼ S 14 on N.half,S 23 on S.half;dig pits 18x18x12 ins.E.and W.of post,3 ft.dist.;raise a mound of earth 3½ ft.base,1½ ft. high,N.of cor.
43.75	Wash,3 lks.wide,10 ins.deep,in bottom of ravine,drs.NE.
48.00	Leave ravine.
80.08	The cor.of secs.14-15-22 and 23.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate ,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.08 chs.

	N.0°01'W.,bet.secs.14 and 15.
	Over gently rolling land through dense undergrowth.
9.25	Wagon road,bears NE and SW.
11.00	Descend into ravine,6 ft.deep,drains NE.
13.75	Wash,3 lks.wide,12 ins.deep,drains NE.,in bottom of ravine.
16.00	Leave ravine.
19.75	Enter ravine,8 ft.deep,drains NE.
24.00	Wash,4 lks.wide,10 ins.deep,in bottom of ravine.
28.00	Leave ravine.
36.00	Enter ravine,7 ft.deep,drains NE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 15 on

CHAINS	
	W.half,S 14 on E.half;dig pits 18x18x12 ins.N.and S.of post,3 ft.dist.;raise a mound of earth 3½ ft.base,1½ ft. high W.of cor.
40.50	Wash,3 lks.wide,10 ins.deep,drains NE.in bottom of ravine.
44.00	Leave ravine.
44.30	Wagon road,bears NE.and SW.
74.30	Wash,15 lks.wide,18 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.10-11-14 and 15,marked on brass cap T 32 S S 10 in NW., R 19 W S 11 in NE., S 14 in SE.and S 15 in SW.quadrant;dig pits 18x18x12 ins.in each sec. 5½ ft.dist.;raise a mound of earth 4 ft.base,2 ft.high W.of cor.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins. deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth om 80.00 chs.

	N.89°56'E.,on a random line,bet.secs.11 and 14.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,at the cor.of secs.11-12-13 and 14.
	Thence I run S.89°56'W.,on a true line Bet.secs.11 and 14.
	Over gently rolling land through dense undergrowth.
29.70	Wagon road,bears NE.and SW.
40.05	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 11 on N.half,S 14 on S.half;dig pits 18x18x12 ins.E.and W.of

CHAINS	
	post,3 ft.dist.;raise a mound of earth 3½ ft.base,1½ ft. high N.of cor.
54.00	Wash,4 lks.wide,10 ins.deep,drains NE.
72.25	Wash,15 lks.wide,15 ins.deep,drains NE.
80.10	The cor.of secs.10-11-14 and 15.
	Land rolling,slopes NE.
	Soil,clay loam and gravel,6 to 8 ins.deep,on a subsoil of damp stiff clay.Soil 2nd rate.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.10 chs.
	June 21: At this cor.I set off 23°27'N.on the decl.arc, and at 12h.1m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°03'N.

	N.0°01'W.,bet.secs.10 and 11.
	Over gently rolling land through dense undergrowth.
5.75	Wash,3 lks.wide,12 ins.deep,drains NE.
24.00	Descend into ravine,10 ft.deep,drains NE.
29.25	Wash,4 lks.wide,18 ins.deep,in bottom of ravine.
36.00	Leave ravine.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 10 on W.half,S 11 on E.half;dig pits 18x18x12 ins.N.and S.of post,3 ft.dist.;raise a mound of earth 3½ ft.base,1½ ft. high,W.of cor.
44.00	Descend into ravine,12 ft.deep,drains NE.
56.00	Wash,4 lks.wide,12 ins.deep,drains NE.,in bottom of ravine.
60.00	Leave ravine.
68.00	Descend into ravine,14 ft.deep,drains NE.
72.00	Wash,6 lks.wide,12 ins.deep,in bottom of ravine.
74.00	Leave ravine.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.2-3-10 and 11,marked on

CHAINS	
	brass cap
	T 32 S S 3 in NW.,
	R 19 W S 2 in NE.,
	S 11 in SE.and
	S 10 in SW.quadrant;dig pits 18x18x12 ins.in each sec.5½ ft.dist.;raise a mound of earth 4 ft.base,2 ft. high,W.of cor.
	Land,rolling,slopes E,
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	dense undergrowth on 80.00 chs.
	N.89°56'E.,on a random line,bet,secs.2 and 11.
40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line,2 lks.S.of the cor.of secs.1-2-11 and 12.
	Thence I run
	S.89°55'W.,on a true line
	Bet.secs.2 and 11.
	Over gently rolling land through dense undergrowth.
18.75	Wash,8 lks.wide,24 ins.deep,drains NE.
22.10	Wash,5 lks.wide,12 ins.deep,drains NE.
40.06	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 2 on N.half,S 11 on S.half;dig pits 18x18x12 ins.E.and W.of post,3 ft.dist.;raise a mound of earth 3½ ft.base,1½ ft. high,N.of cor.
49.00	Enter ravine,10 ft.deep,drains NE,
51.60	Wash,4 lks.wide,24 ins.deep,in bottom of ravine.
59.75	Leave ravine.
62.75	Enter ravine,12 ft.deep,drains NE.
68.00	Wash,6 lks.wide,18 ins.deep,in bottom of ravine.
72.00	Leave ravine.

CHAINS	
80.12	The cor.of secs.2-3-10 and 11.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.12 chs.
	N.0°01'W.,on a random line,bet.secs.2 and 3.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.66	Intersect N.bdy.of Tp.2 lks.W.of the cor.of secs.2-3-34 and 35, heretofore described.
	Thence I run
	South,on a true line
	Bet.secs.2 and 3.
	Over gently rolling land through denseundergrowth.
2.50	Wash,6 lks.wide,12 ins.deep,drains NE.
22.00	Wash,3 lks.wide,10 ins.deep,drains E.
34.00	Descend into ravine,12 ft.deep,drains NE.
38.50	Wash,4 lks.wide,12 ins.deep,im bottom of ravine.
39.66	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 3 on W.half,S 2 on E.half;dig pits 18x18x12 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.
47.00	Leave ravine.
68.10	Wash,3 lks.wide,12 ins.deep,drains NE.
79.66	The cor.of secs.2-3-10 and 11.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 79.66 chs.
	June 21,1911.

CHAINS	
	June 22: At 8h.2m.,a.m.,l.m.t.,I set off 37°59'N.on the lat.arc,23°28'N.on the decl.arc,and determine a meridian with the solar at the cor.of secs.3-4-33 and 34 on S.bdy.of Tp. heretofore described.
	Thence I run
	N.0°02'W.,bet.secs.33 and 34.
	Over gently rolling land through heavy timber.
8.00	Leave heavy timber ,bears NW.and SE.,enter scattering timber and dense undergrowth.
13.00	Wagom road,Modena to State Line,bears NW.and SE.
21.25	Wash,3 lks.wide,12 ins.deep,drains E.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 33 on W.half,S 34 on E.half;from which
	A cedar,9 ins.diam.,bears S.13°30'E.,101 lks.dist., marked ¼ S 34 BT.
	A cedar,14 ins.diam.,bears S,13°50'W.,133 lks. dist.,marked ¼ S.33 BT.
44.00	Descend into ravine,10 ft.deep,drains E.
47.50	Wash,4 lks.wide,10 ins.deep,in bottom of ravine.
52.00	Leave ravine.
58.00	Descend into ravine,6 ft.deep,drains E.
62.75	Wash,3 lks.wide,8 ins.deep,in bottom of ravine.
65.00	Leave ravine.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.27-28-33 and 34,marked on brass cap
	T 32 S S 28 in NW.,
	R 19 W S 27 in NE.,
	S 34 in SE.and
	S 33 in SW.quadrant;from which
	A cedar,12 ins.diam.,bears N.28°15'E.,116 lks. dist.,marked T 32 S R 19 W S 27 BT.
	A cedar,7 ins.diam.,bears S.34°20'E.,180 lks. dist.,marked T 32 S R 19 W S 34 BT.

CHAINS	
	A cedar,6 ins.diam.,bears S.25°50'W.,66 lks.dist., marked T 32 S R 19 W S 33 BT.
	A cedar,6 ins.diam.,bears N.46°W.,36 lks.dist., marked T 32 S R 19 W S 28 BT.
	Land rolling,slopes E.
	Soilclay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land or land covered with dense undergrowth on 80.00 chs.
	N.89°59'E.,on a random line,bet.secs.27 and 34.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,5 lks.S.of the cor.of secs.26-27-34 and 35.
	Thence I run
	S.89°57'W.,on a true line
	Bet.secs.27 and 34.
	Over gently rolling land through dense undergrowth.
32.00	Enter scattering timber.
40.02	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 27 on N.half,S 34 on S.half;from which;
	A cedar,6 ins.diam.,bears N.1°E.,43 lks.dist., marked ¼ S 27 BT.
	A cedar,6 ins.diam.,bears S.77°30'E.,179 lks.dist., marked ¼ S 34 BT.
80.04	The cor.of secs.27-28-33 and 34.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Scattering timber or dense undergrowth on 80.04 chs.

CHAINS	
	N.0°02'W.,bet.secs.27 and 28.
	Over gently rolling land through scattering timber and dense undergrowth.
3.80	Wash,3 lks.wide,10 ins.deep,drains E.
28.30	Wagon road,bears E.and W.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 28 on W.half,S 27 on E.half;from which
	A cedar,6 ins.diam.,bears S.23°20'E.,316 lks.dist., marked ¼ S 27 BT.
	A cedar,8 ins.diam.,bears S.54°55'W.,96 lks.dist., marked ¼ S 28 BT.
48.00	Wash,10 lks.wide,24 ins.deep,drains NE.
55.30	Wash,4 lks.wide,10 ins.deep,drains E.
66.00	Enter ravine,6 ft.deep,drains E.
71.00	Wash,5 lks.wide,24 ins.deep,in bottom of ravine.
73.00	Leave ravine.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.21-22-27 and 28,marked on brass cap,
	T 32 S S 21 in NW.,
	R 19 W S 22 in NE.,
	S 27 in SE.and
	S 28 in SW.quadrant;from which
	A cedar,12 ins.diam.,bears N.60°55'E.,155 lks. dist.,marked T 32 S R 19 W S 22 BT.
	A cedar,14 ins.diam.,bears S.11°20'E.,101 lks. dist.,marked T 32 S R 19 W S 27 BT.
	A cedar,9 ins.diam.,bears S.31°40'W.,150 lks. dist.,marked T 32 S R 19 W S 28 BT.
	A cedar,7 ins.diam.,bears N.68°45'W.,29 lks. dist.,marked T 32 S R 19 W S 21 BT.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.

CHAINS	
	Undergrowth,sage brush and grass.
	Scattering timber or dense undergrowth on 80.00 chs..
	June 22: At this cor I set off 23°27'N.on the decl.arc and at 12h.2m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°01'N.

	N.89°57'E.,on a random line,bet.secs.22 and 27.
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line 2 lks.N.of the cor.of secs.22-23-26 and 27.
	Thence I run
	S.89°58'W.,on a true line
	Bet.secs.22 and 27.
	Over gently rolling land through dense undergrowth.
32.00	Enter scattering timber.
39.99	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 22 on N.half,S 27 on S.half;from which
	A cedar,6 ins.diam.,bears S.32°35'W.,140 lks.dist., marked ¼ S 27 BT.
	A cedar,8 ins.diam.,bears N.4°25'W.,268 lks.dist., marked ¼ S 22 BT.
62.75	Wagon road,bears NW.and SE.
79.98	The cor.of secs.21-22-27 and 28.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Scattering timber or dense undergrowth on 79.98 chs.

	N.0°02'W.,bet.secs.21 and 22.
	Over gently rolling land through scattering timber.and dense undergrowth.
4.00	Enter ravine,6 ft.deep,drains E.

CHAINS	
9.20	Wash,8 lks.wide,18 ins.deep,in bottom of ravine.
11.50	Leave ravine.
19.25	Wagon road,bears NW.and SE.
22.80	Wash,5 lks.wide,10 ins.deep;drains E.
28.75	Wagon road,~~wagon road~~,bears NE.and SW.
35.35	Wagon road,State Line to Lund,bears NE.and SW.
36.50	Wash,3 lks.wide,12 ins.deep,drains NE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap ¼ S 21 on on W.half,S 22 on E.half;fromwhich A cedar,8 ins.diam.,bears S.87°50'E.,60 lks.dist., marked ¼ S 22 BT. A cedar,10 ins.diam.,bears S.40°35'W.,27 lks.dist., marked ¼ S 21 BT.
59.70	Wash,3 lks.wide,10 ins.deep,drains NE.
69.50	Wash,4 lks.wide,15 ins.deep,drains E.
71.00	Wagon road,bears NE.and SW.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.15-16-21 and 22,marked on brass cap T 32 S S 16 in NW., R 19 W S 15 in NE., S 22 in SE.and S 21 in SW.quadrant;from which A cedar,6 ins.diam.,bears N.70°55'E.,25 lks.dist., marked T 32 S R 19 W S 15 BT. A cedar,7 ins.diam.,bears S.12°30'E.,211 lks.dist., marked T 32 S R 19 W S 22 BT. A cedar,7 ins.diam.,bears S.29°20'W.,25 lks.dist., marked T 32 S R 19 W S 21 BT. A cedar,6 ins.diam.,bears N.47°30'W.,100 lks.dist., marked T 32 S R 19 W S 16 BT. Land,rolling,slopes E. Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay. Timber,cedar and pinon.

CHAINS	
	Undergrowth,sage brush and grass.
	Scattering timber or dense undergrowth on 80.00 chs.
	N.89°58'E.,on a random line,bet.secs.15 and 22.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.02	Intersect N.and S.line,9 lks.S.of the cor.of secs.14-15-22 and 23.
	Thence I run
	S.89°54'W.,on a true line
	Bet.secs.15 and 22.
	Over gently rolling land through scattering timber and dense undergrowth.
13.75	Wagon road, bears NE.and SW.
19.50	Enter ravine,7 ft.deep,drains NE.
24.60	Wash,4 lks.wide,10 ins.deep,in bottom of ravine.
28.00	Leave ravine.
40.01	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 15 on N.half,S 22 on S.half;from which
	A cedar,6 ins.diam.,bears N.59°25'E.,114 lks.dist., marked $\frac{1}{4}$ S 15 BT.
	No other trees available;dig pits 18x18x12 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.
57.20	Wash,4 lks.wide,10 ins.deep,drains NE.
65.80	Wash,3 lks.wide,12 ins.deep,drains NE.
67.10	Wagon road,bears NE.and SW.
80.02	The cor.of secs.15-16-21 and 22.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil ofdamp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Scattering timber or dense undergrowth on 80.02 chs.
	June 22,1911.

CHAINS

June 23: At 8h.2m.,a.m.,l.m.t.,I set off 38°02'N.On the lat.arc,23°28'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.

Over gently rolling land through scattering timber and dense undergrowth.

11.80 Wash,6 lks.wide,12 ins.deep,drains NE.

25.50 Wash,3 lks.wide,10 ins.deep,drains NE.

40.00 Set an iron post,3ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap ¼ S 16 on W.half,S 15 on E.half;from which

A cedar,8 ins.diam.,bears N.25°30'E.,483 lks.dist., marked ¼ S 15 BT.

A cedar,12 ins.diam.,bears N.8°45'W.,400 lks.dist., marked ¼ S 16 BT.

56.00 Descend into ravine,15 ft.deep,drains NE.

62.25 Wash,5 lks.wide,36 ins.deep,in bottom of ravine.

68.00 Leave ravine.

77.75 Wash,3 lks.wide,12 ins.deep,drains NE.

80.00 Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.9-10-15 and 16,marked on brass cap

T 32 S S 9 in NW.,

R 19 W S 10 in NE.,

S 15 in SE.and

S 16 in SW.quadrant;from which

A cedar,9 ins.diam.,bears S.81°05'W.,110 lks. dist.,marked T 32 S R 19 W S 16 BT.

A cedar,8 ins.diam.,bears N.68°25'W.,146 lks. dist.,marked T 32 S R 19 W S 9 BT.

No other trees available;dig pits 18x18x12 ins.in each sec.5½ ft.dist.;raise a mound of earth 4 ft.base,2 ft. high,W.of cor.

Land,rolling,slopes E.

CHAINS	
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Dense undergrowth and scattering timber on 80.00 chs.
	N.89°54'E.,on a random line,bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line,7 lks.N.of the cor.of secs.10-11-14 and 15.
	Thence I run
	S.89°57'W.,on a true line
	Bet.secs.10 and 15.
	Over gently rolling land through scattering timber and dense undergrowth.
17.50	Wash,3 lks.wide,10 ins.deep,drains NE.
40.03	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 10 on N.half,S 15 on S.half; dig pits 18x18x12 ins.E.and W.of post,3 ft.dist.;raise a mound of earth 3½ ft.base,1½ ft. high,N.of cor.
40.50	Wash,3 lks.wide,12 ins.deep,drains NE.
62.00	Enter ravine,12 ft.deep,drains NE.
65.10	Wash,5 lks.wide,36 ins.deep,in bottom of ravine.
68.00	Leave ravine.
76.00	Wash,3 lks.wide,12 ins.deep,drains NE.
80.06	The cor.of secs.9-10-15 and 16.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Scattering timber or dense undergrowth on 80.06 chs.
	June 23: At this cor.I set off 23°27'N.on the decl.arc, and at 12h.2m.,p.m.,l.m.t.,observe the sun on the

CHAINS	
	meridian,the resulting lat.is 38°03'N.
	N.0°02'W.,bet.secs.9 and 10.
	Over gently rolling land through scattering timber and dense undergrowth.
4.00	Wash,3 lks.wide,12 ins.deep,drains SE.
14.00	Enter ravine,8 ft.deep,drains NE.
17.00	Wash,3 lks.wide,12 ins.deep,in bottom of ravine.
20.00	Leave ravine.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 9 on W.half,S 10 on E.half;from which
	A cedar,14 ins.diam.,bears S.79°E.,48 lks.dist., marked ¼ S 10 BT.
	A cedar,14 ins.diam.,bears S.75°50'W.,80 lks. dist.,marked ¼ S 9 BT.
41.20	Wash,3 lks.wide,12 ins.deep,drains NE.
57.50	Wash,4 lks.wide,10 ins.deep,drains NE.
66.25	Wagon road,bears NE.and SW.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.3-4-9 and 10,marked on brass cap
	T 32 S S 4 in NW.,
	R 19 W S 3 in NE.,
	S 10 in SE.and
	S 9 in SW.quadrant;from which
	A cedar,8 ins.diam.,bears N.17°10'E.,206 lks. dist.,marked T 32 S R 19 W S 3 BT.
	A cedar,14 ins.diam.,bears S.68°35'E.,294 lks. dist.,marked T 32 S R 19 W S 10 BT.
	A cedar,8 ins.diam.,bears S.22°55'W.,240 lks. dist.,marked T 32 S R 19 W S 9 BT.
	A cedar,14 ins.diam.,bears N.68°30'W.,76 lks. dist.,marked T 32 S R 19 W S 4 BT.
	Land,rolling,slopes E.

CHAINS	
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Scattering timber and dense undergrowth on 80.00 chs.
	N.89°57'E.,on a random line,bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,2 lks.N.of the cor.of secs.2-3-10 and 11.
	Thence I run
	S,89°58'W.,on a true line
	Bet.secs.3 and 10.
	Over gently rolling land through scattering timber and dense undergrowth.
40.02	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 3 on N.half,S 10 on S.half;dig pits 18x18x12 ins.E and W.of post,3 ft.dist.;raise a mound of earth 3½ ft.base,1½ ft. high,N.of cor.
52.20	Wash,3 lks.wide,10 ins.deep,drains NE.
66.70	Wash,8 lks.wide,12 ins,deep,drains NE.
70.40	Wagon road,bears NE.and SW.
80.04	The cor.of secs.3-4-9 and 10.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Scattering timber or dense undergrowth on 80.04 chs.
	N.0°02'W.,on a random line,bet.secs.3 and 4.
40.00	Set temp.¼ sec.cor.
79.72	Intersect N.bdy.of Tp.7 lks.W.of the cor.of secs.3-4-

CHAINS	
	33 and 34, heretofore described.
	Thence I run
	S.0°01'W.,on a true line
	Bet.secs.3 and 4.
	Over gently rolling land through dense undergrowth.
12.00	Enter scattering timber.
13.80	Wash,5 lks.wide,10 ins.deep,drains NE.
22.00	Enter ravine,15 ft.deep,drains NE.
24.10	Wash,4 lks.wide,12 ins.deep,in bottom of ravine.
29.00	Leave ravine.
39.72	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 4 on W.half,S 3 on E.half;from which
	A cedar,14 ins.diam.,bears N.21°20'E.,517 lks. dist.,marked ¼ S 3 BT.
	A cedar,12 ins.diam.,bears S.62°05'W.,601 lks. dist.,marked ¼ S 4 BT.
44.00	Enter ravine,10 ft.deep,drains E.
45.90	Wash,3 lks.wide,12 ins.deep,in bottom of ravine.
48.00	Leave ravine.
72.20	Wash,5 lks.wide,18 ins.deep,drains NE.
79.72	The cor.of secs.3-4-9 and 10.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2 nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Scattering timber or dense undergrowth on 79.72 chs.
	June 23.1911.

June 24: At 8h.2 m.,a.m.,l.m.t.,I set off 37°59'N.on the lat.arc,23°27'N.on the decl.arc,and determine a meridian with the solar at the cor.of secs. 4-5-32 and 33,on S.bdy.of Tp., heretofore described.

Thence I run

CHAINS	
	N.0°03'W.,bet.secs.32 and 33.
	Over mountainous land through heavy timber.Ascend.,through undergrowth.
28.00	Spur,projects NW.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 32 on W.half,S 33 on E.half;from which
	A pinon,7 ins.diam.,bears N.58°40'E.,36 lks.dist., marked ¼ S 33 BT.
	A pinon,10 ins.diam.,bears N.83°40'W.,60 lks. dist.,marked ¼ S 32 BT.
41.00	Wash, 4 lks.wide,24 ins.deep,in bottom of hollow,125 ft. deep,course E. Ascend.
46.00	Spur,projects NE.
	Descend.
56.00	Foot of descent,over gently rolling land.
58.80	Wash,5 lks.wide,12 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.28-29-32 and 33,marked on brass cap
	T 32 S S 29 in NW.,
	R 19 W S 28 in NE.,
	S 33 in SE.and
	S 32 in SW.quadrant;from which
	A cedar,6 ins.diam.,bears N.36°45'E.,298 lks. dist.,marked T 32 S R 19 W S 28 BT.
	A cedar,7 ins.diam.,bears S.24°15'E.,46 lks.dist., marked T 32 S R 19 W S 33 BT.
	A cedar,8 ins.diam.,bears S.57°35'W.,142 lks.dist., marked T 32 S R 19 W S 32 BT.
	A cedar,6 ins.diam.,bears N.62°25'W.,311 lks.dist., marked T 32 S R 19 W S 29 BT.
	Land,rolling and mountainous,slopes E.
	Soil,clay loam and gravel,6 ins.deep,3rd rate,on a sub-soil of clay and loose rock.
	Timber,cedar and pinon.

CHAINS	
	Undergrowth,sage brush and grass.
	Heavy timber on 80.00 chs.
	June 24:At this cor.I set off 23°26'N.on the decl.arc, and at 12h.2m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°00'N.

	N.89°59'E.,on a random line,bet.secs.28 and 33.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,6 lks.N.of the cor.of secs.27-28-33 and 34.
	Thence I run
	N.89°58'W.,on a true line
	Bet.secs.28 and 33.
	Over gently rolling land,through scattering timber and dense undergrowth.
8.00	Enter heavy timber,bears N.and S.
40.02	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼sec.cor.,marked on brass cap,¼ S 28 on N.half,S 33 on S.half;from which
	A cedar,8 ins.diam.,bears N.32°50'E.,64 lks.dist., marked ¼ S 28 BT.
	A cedar,6 ins.diam.,bears S.3°30'W.,65 lks.dist., marked ¼ S 33 BT.
46.90	Wagon road,Modena to State Line,bears NW.and SE.
56.00	Ascend over knoll.
66.00	Top of knoll,175 ft.high.
	Descend.
75.00	Foot of knoll.
80.04	The cor.of secs.28-29-32 and 33.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavy timber or dense undergrowth on 80.04 chs.
	June 24,1911

CHAINS	
	June 26: At 8h.2m.,a.m.,l.m.t.,I set off 38°00'N.on the lat.arc,23°24'N.on the decl.arc,and determine a meridian with the solar at the cor.of secs.28-29-32 and 33.
	Thence I run
	N.0°03'W.,bet.secs.28 and 29.
	Over gently rolling land,through heavy timber, and undergrowth.
4.00	From this point the SE.cor.of an enclosedpasture containing about 6 acres,bears N.42°40'W.,405 lks.dist.
9.10	Wash,6 lks.wide,18 ins.deep,drains NE.
10.80	Wagon road,bears E.and W.
38.50	Wash,3 lks.wide,6 ins.deep,drains E.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 29 on W.half,S 28 on E.half;from which
	A cedar,8 ins.diam.,bears S.84°50'E.,61 lks.dist., marked ¼ S 28 BT.
	A cedar,6 ins.diam.,bears N.89°15'W.,60 lks.dist., marked ¼ S 29 BT.
40.15	Wagon road,Modena to State Line,bears SE.and NW.
47.40	Wash,3 lks.wide,12 ins.deep,drains E.
51.20	Wagon road,bears NE.and SW.
66.00	Wash,4 lks.wide,12 ins.deep,drains NE.
73.90	Wash,3 lks.wide,10 ins.deep,drains E.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.20-21-28 and 29,marked on brass cap,
	T 32 S S 20 in NW.,
	R 19 W S 21 in NE.,
	S 28 in SE.and
	S 29 in SW.quadrant;from which
	A cedar,7 ins.diam.,bears N.41°25'E.,98 lks.dist., marked T 32 S R 19 W S 21 BT.
	A cedar,8 ins.diam.,bears S.57°15'E.,34 lks.dist., marked T 32 S R 19 W S 28 BT.
	A cedar,8 ins.diam.,bears S.43°55'W.,19 lks.dist., marked T 32 S R 19 W S 29 BT.

CHAINS

A cedar,12 ins.diam.,bears N.28°55'W.,83 lks.dist., marked T 32 S R 19 W S 20 BT.

Land,rolling,slopes E.

Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff cla y.

Timber,cedar and pinon.

Undergrowth;sage brush and grass.

Heavy timber on 80.00 chs.

S.89°58'E.,on a random line,bet.secs.21 and 28.

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

80.06 Intersect N.and S.line at the cor.of secs.21-22-27 and 28

June 26:At this cor.I set off 23°24'N.on the decl.arc, and at 12h.2m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°01'N.

Thence I run

N.89°58'W.,on a true line

Bet.secs.21 and 28.

Over gently rolling land through scattering timber and dense undergrowth.

4.00 Enter heavy timber,bears N.and S.

40.03 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 21 on N.half,S 28 on S.half;from which

A cedar,14 ins.diam.,bears N.63°50'E.,147 lks. dist.,marked $\frac{1}{4}$ S 21 BT.

A cedar,12 ins.diam.,bears S.12°25'W.,87 lks. dist.,marked $\frac{1}{4}$ S 28 BT.

42.60 Wagon road,bears NE.and SW.

58.20 Wash,5 lks.wide,12 ins.deep,drains NE.

80.06 The cor.of secs.20-21-28 and 29.

Land,rolling,slopes NE.

Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on

CHAINS	
	a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Dense undergrowth or heavy timber on 80.06 chs.
	N.0°03'W.,bet.secs.20 and 21.
	Over gently rolling land through heavy timber.
16.90	Wash,3 lks.wide,12 ins.deep,drains E.
21.40	Wagon road,State Line to Lund,bears NE.and SW.
39.00	Wash,6 lks.wide,18 ins.deep,drains NE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 20 on W.half,S 21 on E.half;from which
	A cottonwood,10 ins.diam.,bears S.81°15'E.,162 lks.dist.,marked ¼ S 21 BT.
	A cedar,8 ins.diam.,bears N.87°25'W.,359 lks. dist.,marked ¼ S 20 BT.
43.00	Wash,3 lks.wide,10 ins.deep,drains E.
59.50	Wash,4 lks.wide,12 ins.deep,drains E.
71.10	Wash,3 lks.wide,15 ins.deep,drains NE,
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.16-17-20 and 21,marked on brass cap
	T 32 S S 17 in NW.,
	R 19 W S 16 in NE.,
	S 21 in SE.and
	S 20 in SW.quadrant;from which
	A cedar,6 ins.diam.,bears N.10°E.,44 lks.dist., marked T 32 S R 19 W S 16 BT.
	A cedar,7 ins.diam.,bears S.56°30'E.,16 lks.dist., marked T 32 S R 19 W S 21 BT.
	A cedar,8 ins.diam.,bears S.11°05'W.,11 lks.dist., marked T 32 S R 19 W S 20 BT.
	A cedar,10 ins.diam.,bears N.17°50'W.,109 lks. dist.,marked T 32 S R 19 W S 17 BT.

CHAINS	
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar,pinon,and cottonwood.
	Undergrowth,sage brush and grass.
	Heavy timber on 80.00 chs.
	June 26,1911.
	June 27: At 8h.3m.,a.m.,l.m.t.,I set off 38°02'N.on the lat.arc,23°23'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
	S.89°58'E.,on a random line,bet.secs.16 and 21.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.08	Intersect the N.and S.line,2 lks.S.of the cor.of secs. 15-16-21 and 22.
	Thence I run
	N.89°59'W.,on a true line
	Bet.secs.16 and 21.
	Over gently rolling land through scattering timber and dense undergrowth.
11.35	Wash,8 lks.wide,18 ins.deep,drains NE.
36.90	Wash,4 lks.wide,12 ins.deep,drains NE.
40.04	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 16 on N.half,S 21 on S.half;from which
	A cedar,8 ins.diam.,bears S.14°50'W.,219 lks.dist., marked $\frac{1}{4}$ S 21 BT.
	A cedar,6 ins.diam.,bears N.12°20'W.,273 lks.dist., marked $\frac{1}{4}$ S 16 BT.
41.00	Enter heavy timber,bears NW.and SE.
80.08	The cor.of secs.16-17-20 and 21.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.

CHAINS	
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Scattering timber and dense undergrowth or heavy timber on 80.08 chs.
	June 27:At this cor.I set off 23°22'N.on the decl.arc, and at 12h.3m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°02'N.
	N.0°03'W.,bet.secs.16 and 17.
	Over gently rolling land through heavy timber.
28.80	Wash,5 lks.wide,12 ins.deep,drains NE.
30.40	Wagon road,bears NE.and SW.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 17 on W.half,S 16 on E.half;from which
	A cedar,10 ins.diam.,bears N.82°50'E.,17 lks.dist., marked ¼ S 16 BT.
	A cedar,9 ins.diam.,bears S.69°25'W.,25 lks.dist., marked ¼ S 17 BT.
41.90	Wash,4 lks.wide,10 ins.deep,drains SE.
44.95	Wagon road,bears NE.and SW.
58.90	Wash,3 lks.wide,10 ins.deep,drains NE.
75.80	Wash,4 lks.wide,12 ins.deep,drains E.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.8-9-16 and 17,marked on brass cap
	T 32 S S 8 in NW.,
	R 19 W S 9 in NE.,
	S 16 in SE.and
	S 17 in SW.quadrant;from which
	A cedar,7 ins.diam.,bears N.61°25'E.,51 lks.dist., marked T 32 S R 19 W S 9 BT.
	A cedar,9 ins.diam.,bears S.25°40'E.,51 lks.dist., marked T 32 S R 19 W S 16 BT.
	A pinon,10 ins.diam.,bears S.76°35'W.,55 lks.dist.,

CHAINS	
	marked T 32 S R 19 W S 17 BT.
	A pinon,8 ins.diam.,bears N.50°40'W.,39 lks.dist.,
	marked T 32 S R 19 W S 8 BT.
	Land,rolling,slopes E.
	Soil,clay loam,and gravel,6 to 8 ins.deep,2 nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavy timber on 80.00 chs.

	S.89°59'E.,on a random line,bet.secs.9 and 16.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,3 lks.N.of the cor.of secs.9-10-15 and 16.
	Thence I run
	N.89°58'W.,on a true line
	Bet.secs.9 and 16.
	Over gently rolling land through scattering timber and dense undergrowth.
12.00	Enter heavy timber,bears N.and S.
30.50	Wash,4 lks.wide,12 ins.deep,drains NE.
40.02	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 9 on N.half,S 16 on S.half;from which
	A pinon,6 ins.diam.,bears N.89°50'E.,59 lks.dist.,
	marked ¼ S 9 BT.
	A cedar,7 ins.diam.,bears S.20°25'W.,23 lks.dist.,
	marked ¼ S 16 BT.
51.50	Wash,3 lks.wide,12 ins.deep,drains SE.
58.15	Wagon road,bears NE.and SW.
61.40	Wagon road,bears NW.and SE.
80.04	The cor.of secs.8-9-16 and 17.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.

CHAINS	
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavy timber or scattering timber and dense undergrowth on 80.04 chs.
	June 27.1911.
	June 28:At 8h.3m.,a.m.,l.m.t.,I set off 38°03'N.on the lat.arc,23°20'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 gently rolling land through heavy timber.
26.00	Wagon road,bears NW.and SE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 8 on W.half,S 9 on E.half;from which
	A pinon,12 ins.diam.,bears S.66°40'E.,10 lks. dist.,marked ¼ S 9 BT.
	A cedar,8 ins.diam.,bears N.59°10'W.,27 lks.dist. marked ¼ S 8 BT.
46.00	Wash,10 lks.wide,24 ins.deep,drains NE.
48.20	Wagon road,bears NE.and SW.
59.30	Same road,bears NW.and SE.
64.10	Wash,3 lks.wide,12 ins.deep,drains NE.
68.00	Descend into ravine,15 ft.deep,drains NE.
71.50	Wash,4 lks.wide,10 ins.deep,drains NE.in bottom of ravine.
73.75	Leave ravine.
80.00	Set an iron post,3 ft.long,2 in.diam.,24 ins.in the ground for the cor.of secs.4-5-8 and 9,marked on brass cap
	T 32 S S 5 in NW.,
	R 19 W S 4 in NE.,
	S 9 in SE.and
	S 8 in SW.quadrant;from which

CHAINS

A cedar,6 ins.diam.,bears N.39°35'E.,21 lks.dist.,
marked T 32 S R 19 W S 4 BT.
A cedar,8 ins.diam.,bears S.43°05'E.,83 lks.dist.,
marked T 32 S R 19 W S 9 BT.
A pinon,7 ins.diam.,bears S.26°05'W.,14 lks.dist.,
marked T 32 S R 19 W S 8 BT.
A cedar,7 ins.diam.,bears N.40°45'W.,20 lks.dist.,
marked T 32 S R 19 W S 5 BT.

Land,rolling,slopes E.

Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.

Timber,cedar and pinon.

Undergrowth,sage brush and grass.

Heavy timber on 80.00 chs.

June 28:At this cor.I set off 23°19'N.on the decl.arc, and at 12h.3m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°03'N.

S.89°58'E.,on a random line,bet.secs.4 and 9.

40.00 Set temp.¼ sec.cor.

80.00 Intersect N.and S.line,2 lks.N:of the cor.of secs.3-4-9 and 10.

Thence I run

N.89°57'W.,on a true line
Bet.secs.4 and 9.

Over gently rolling land,through scattering timber and dense undergrowth.

15.00 Enter heavy timber,bears N.and S.

35.25 Wagon road,bears N.and S.

40.01 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 4 on N.half,S 9 on S.half;from which

A cedar,20 ins.diam.,bears N.33°40'E.,42 lks.dist.,
marked ¼ S 4 BT.
A pinon,12 ins,diam.,bears N.32°35'W.,74 lks.dist.,

CHAINS	
	marked ¼ S 9 BT.
52.00	Wash,3 lks.wide,12 ins.deep,drains NE.
65.00	Enter ravine,12 ft.deep,drains NE.
66.55	Wash,4 lks.wide,10 ins.deep,drains NE.in bottom of ravine.
71.00	Leave ravine.
80.02	The cor.of secs.4-5-8 and 9.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavy timber or scattering timber and dense undergrowth on 80.02 chs.
	N.0°03'W.,on a random line,bet.secs.4 and 5.
40.00	Set temp.¼ sec.cor.
79.80	Intersect N.bdy.of Tp.5 lks.W.of the cor.of secs.4-5-32 and 33, heretofore described.
	Thence I run
	S.0°01'E.,on a true line
	Bet.secs.4 and 5.
	Over gently rolling land through heavy timber.
4.00	Wash,3 lks.wide,12 ins.deep,drains E.
11.50	Wash,4 lks.wide,15 ins.deep,drains NE.
23.60	Wash,5 lks.wide,18 ins.deep,drains NE.
28.00	Wash,4 lks.wide,10 ins.deep,drains NE.
39.80	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 5 on W.half,S 4 on E.half;from which
	A cedar,8 ins.diam.,bears N.71°40'E.,47 lks.dist., marked ¼ S 4 BT.
	A pinon.12 ins.diam.,bears S.27°30'W.,76 lks.dist., marked ¼ S 5 BT.
40.00	Wagon road,bears NE.and SW.
49.20	Wash,3 lks.wide,10 ins.deep,drains NE.

CHAINS	
60.00	Wash,4 lks.wide,12 ins.deep,drains NE.
79.80	The cor.of secs.4-5-8 and 9.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 79.80 chs.
	June 28,1911
	June 29: At 8h.3m.,a.m.,l.m.t.,I set off 37°59'N.on the lat.arc,23°17'N.on the decl.arc,and determine a meridian with the solar at the cor.of secs.5-6-31 and 32 on S. bdy.of Tp. , heretofore described.
	Thence I run .,
	N.0°03'W.,bet.secs.31 and 32.
	Descend over mountainous land through scattering timber and dense undergrowth.
8.00	Enter heavy timber,bears NW.and SE.
16.00	Head of hollow,175 ft.deep,course NE.
	Ascend.
29.50	Ridge,bears NE.and SW.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 31 on W.half,S 32 on E.half;from which
	A pinon,6 ins.diam.,bears N.61°35'E.,24 lks.dist., marked ¼ S 32 BT.
	A pinon,9 ins.diam.,bears S.12°20'W.,25 lks.dist., marked ¼ S 31 BT.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.29-30-31 and 32,marked on brass cap
	T 32 S S 30 in NW.,
	R 19 W S 29 in NE.,

CHAINS	
	S 32 in SE.and
	S 31 in SW.quadrant;from which
	A pinon,48 ins.diam.,bears N.17°55'E.,218 lks. dist.,marked T 32 S R 19 W S 29 BT.
	A pinon,12 ins.diam.,bears S.19°E.,61 lks.dist., marked T 32 S R 19 W S 32 BT.
	A pinon,36 ins.diam.,bears S.63°55'W.,531 lks. dist.,marked T 32 S R 19 W S 31 BT.
	A pinon,13 ins.diam.,bears N.81°35'W.,197 lks. dist.,marked T 32 S R 19 W S 30 BT.
	Land,mountainous,sloping E.
	Soil,clay loam and gravel,6 ins.deep,on a subsoil of clay and loose rock.4th rate.
	Timber,cedar and pinon,
	Undergrowth,sage brush,mohagany and bunch grass.
	Heavy timber or scattering timber and dense undergrowth on 80.00 chs.
	June 29: At this cor.I set off 23°17'N.on the decl.arc, and at 12h.3m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°00'N.

	N.89°59'E.,on a random line,bet.secs.29 and 32.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.90	Intersect N.and S.line,5 lks.S.of the cor.of secs.28-29-32 and 33.
	Thence I run
	S.89°57'W.,on a true line
	Bet.secs.29 and 32.
	Over gently rolling land,throughheavy timber.
24.00	Leave gently rolling land and ascend over mountainous land.
31.50	Spur,projects N.
	Descend.
39.95	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 29 On

CHAINS	
	N.half,S 32 on S.half;from which
	A cedar,6 ins.diam.,bears N.40°05'E.,17 lks.dist.,
	marked ¼ S 29 BT.
	A pinon,6 ins.diam.,bears S.7°15'W.,18 lks.dist.,
	marked ¼ S 32 BT.
43.10	Hollow,175 ft.deep,course N.
	Ascend.
72.00	Spur,projects N.
	Descend.
79.90	The cor.of secs.29-30-31 and 32.
	Land,rolling,and mountainous,slopes NE.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd and 3rd rate,on a subsoil of clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 79.90 chs.
	June,29,1911.

June 30: At 8h.3m.,a.m.,l.m.t.,I set off 38°00'N.on the lat.arc,23°14'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

S.89°59'W.,on a random line,bet.secs.30 and 31.

40.00	Set temp.¼ sec.cor.
74.38	Intersect W.bdy.of Tp,9 lks.S.of the cor.of secs.25-30-31 and 36, heretofore described.

Thence I run

S.89°57'E.,on a true line ,

Bet.secs.30 and 31.

Descend over mountainous land,through heavy timber.

34.38	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 30 on N.half,S 31 on S.half;from which
	A pinon,8 ins.diam.,bears N.53°40'E.,134 lks.
	dist.,marked ¼ S 30 BT.

CHAINS	
	A pinon,8 ins.diam.,bears S.8°35'E.,50 lks.dist., marked ¼ S 31 BT.
42.00	Hollow,75 ft.deep,course S.
	Ascend.
50.45	Spur,projects S.
	Descend.
69.50	Wagon road,bears NE.and SW.
71.50	Hollow,100 ft.deep,course NE. Stream of water,6 lks.wide, 2 ins.deep,in bottom of hollow. Ascend.
74.38	The cor.of secs.29-30-31 and 32.
	Land,mountainous,slopes E.
	Soil,clay loam and gravel,6 ins.deep,4th rate,on a subsoil of clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 74.38 chs.
	June 30: At this cor.I set off 23°13'N.on the decl.arc, and at 12h.3m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°00'N.

	N.0°03'W.,bet.secs.29 and 30.
	Descend over mountainous land through heavy timber.
1.50	Hollow,125 ft.deep,course NE.Wagon road,bears NE.and SW.
	Stream of water,6 ins.deep,2 ins.wide,in bottom of hollow. Ascend.
7.00	Spur,projects E.
	Descend.
11.50	Hollow,50 ft.deep,course E.
	Ascend.
33.30	Wagon road,bears SE.and NW. , to State Line.
36.00	Spur,projects E.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 30 on W.half,S 29 on E.half;from which
	A cedar,9 ins.diam.,bears S.22°E.,37 lks.dist.,

CHAINS	
	marked, $\frac{1}{4}$ S 29 BT.
	A cedar,10 ins.diam.,bears S.43°10'W.,31 lks. dist.,marked $\frac{1}{4}$ S 30 BT.
47.00	Hollow,50 ft.deep,course SE.
	Ascend.
56.00	Ridge,bears E.and W.
	Descend.
60.30	Hollow,25 ft.deep,course NE.
	Ascend.
67.00	Spur,projects E.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.19-20-29 and 30,marked on brass cap
	T 32 S S 19 in NW.,
	R 19 W S 20 in NE.,
	S 29 in SE.and
	S 30 in SW.quadrant;from which
	A cedar,6 ins.diam.,bears N.62°05'E.,127 lks. dist.,marked T 32 S R 19 W S 20 BT.
	A cedar,6 ins.diam.,bears S.50°20'E.,52 lks. dist.,marked T 32 S R 19 W S 29 BT.
	A cedar,7 ins.diam.,bears S.59°10'W.,51 lks.dist., marked T 32 S R 19 W S 30 BT.
	A cedar,7 ins.diam.,bears N.62°25'W.,52 lks.dist., marked T 32 S R 19 W S 19 BT.
	Land,mountainous,slopes E.
	Soil,clay loam and gravel,6 ins.deep,4th rate,on a subsoil of loose rock and clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 80.00 chs.

	N.89°57'E.,on a random line,bet.secs.20 and 29.
40.00	Set temp.$\frac{1}{4}$ sec.cor.

CHAINS	
79.94	Intersect N.and S.line,5 lks.N.of the cor.of secs.20-21-28 and 29.
	Thence I run
	S.89°59'W.,on a true line
	Bet.secs.20 and 29.
	Over gently rolling land through heavy timber.
39.97	Set an iron post,3 ft.long,1 in .diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 20 on N.half,S 29 on S.half;from which
	A cedar,8 ins.diam.,bears S.14°45'W.,59 lks.dist., marked ¼ S 29 BT.
	A cedar,6 ins.diam.,bears N.13°50'W.,25 lks.dist., marked ¼ S 20 BT.
50.60	Wagon road,Modena to State Line,bears NW.and SE.
56.00	Leave rolling land,ascend over mountainous land.
68.00	Spur,projects N.
	Descend.
76.00	Hollow,50 ft.below top of spur,course NE.
	Leave mountainous land,over rolling foot hills.
79.94	The cor.of secs.19-20-29 and 30.
	Land,rolling and mountainous,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd and 3rd rate,on a subsoil of clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 79.94 chs.
	June 30,1911.

July 1: At 8h.3m.,a.m.,l.m.t.,I set off 38°01'N.on the lat.arc,23°11'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°57'W.,on a random line,bet.secs.19 and 30.

40.00 Set temp.¼ sec.cor.

74.26 Intersect the W.bdy.of Tp.5 lks.S.of the cor.of secs.

CHAINS

19-24-25 and 30, heretofore described.

Thence I run

S.29°55'E.,on a true line

Bet.secs.19 and 30.

Over rolling foot hills,through scattering timber and dense undergrowth.

30.50 Stream of water,3 lks.wide,4 ins.deep,in bottom of wash,8 lks.wide,36 ins.deep,drains NE.

30.75 Wagon road,bears NE.and SW.

34.26 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 19 on N.half,S 30 on S.half;from which

A pinon,14 ins.diam.,bears N.31°45'W.,410 lks. dist.,marked ¼ S 19 BT.

No other trees within limits,raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.

Pits impracticable.

35.26 Cor.No.3 of Creole Lode,Sur.No.4292,bears S.23°36'E., 353 lks.dist.

37.75 Wagon road,bears NE.and SW.

46.75 S.E.cor.of hotel in State Line,bears N.58°32'W.,308 lks. dist.

N.W.cor.of store,bears N.31°28'E.,371 lks.dist.

52.47 Barn,10 ft.x 12 ft.on line.

54.26 U.S.Mineral Monument No.1,which is a pine post,6 ins. square.,marked and witnessed as described by the surveyor general,bears N.36°01'W.,14.38 chs.dist.

69.85 Wagon road,bears N.and S.

74.26 The cor.of secs.19-20-29 and 30.

Land,rolling hills,slopes E.

Soil,clay loam and gravel,6 to 8 ins.deep,3rd rate,on a subsoil of stiff clay and loose rock.

Timber,cedar and pinon.

Undergrowth,sage brush and grass.

Scattering timber and dense undergrowth on 74.26 chs.

July 1: At this cor.I set off 23°10'W.on the decl.arc

CHAINS	
	and at 12h.3m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°01'N.
	N.0°03'W.,bet.secs.19 and 20.
	Over rolling foot hills through scattering timber and dense undergrowth.
4.10	SE.cor.of corrall bears N.15°W.,215 lks.dist.
7.20	Road,State Line to Lund,bears NE.and SW.
13.10	Wash,5 lks.wide,12 ins.deep,in bottom of ravine 5 chs. wide,12 ft.deep,drains NE.Stream of water,3 lks.wide,3 ins.deep,in wash.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 19 on W.half,S 20 on E.half;from which
	A pinon,6 ins.diam.,bears N.17°55'E.,19 lks.dist., marked ¼ S 20 BT.
	A cedar,6 ins.diam.,bears N.10°30'W.,37 lks.dist., marked ¼ S 19 BT.
45.40	Wash,3 lks.wide,10 ins.deep,drains SE.
	Enter heavy timber,bears NW.and SE.
50.00	Ascend along W.slope of ridge.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.17-18-19 and 20,marked on brass cap
	T 32 S S 18 in NW.,
	R 19 W S 17 in NE.,
	S 20 in SE.and
	S 19 in SW.quadrant;from which
	A pinon,6 ins.diam.,bears N.58°25'E.,93 lks.dist., marked T 32 S R 19 W S 17 BT.
	A pinon,10 ins.diam.,bears S.11°15'E.,168 lks. dist.,marked T 32 S R 19 W S 20 BT.
	A pinon,7 ins.diam.,bears S.33°20'W.,202 lks. dist.,marked T,32 S R 19 W S 19 BT.
	A pinon,9 ins.diam.,bears N.44°45'W.,278 lks.

CHAINS	
	dist.,marked T 32 S R 19 W S 18 BT.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,3rd rate,on a subsoil of clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavy timber or scattering timber and dense undergrowth on 80.00 chs.
	July 1;1911.
	July 3: At 8h.4m.,a.m.,l.m.t.,I set off 38°02'N.,on the lat.arc,23°03'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
	N.89°59'E.,on a random line,bet.secs.17 and 20.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.98	Intersect N.and S.line,7 lks.S.of the cor.of secs.16-17-20 and 21.
	Thence I run
	S.89°56'W.,on a true line
	Bet.secs.17 and 20.
	Over gently rolling land through Heavy timber.
18.50	Wagon road,bears NE.and SW.
21.10	Wash,4 lks.wide,12 ins.deep,drains NE.
22.05	Wagon road,bears NE.and SW.
24.00	Leave rolling land,ascend over mountainous land.
35.00	Spur,projects SE.
	Descend.
39.90	Hollow,50 ft.deep,course S.
	Ascend.
39.99	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 17 on N.half,S 20 on S.half;from which

CHAINS	
	A pinon,10 ins.diam.,bears S.46°45'E.,236 lks. dist.,marked ¼ S 20 BT.
	A pinon,9 ins.diam.,bears N.61°15'W.,112 lks. dist.,marked ¼ S 17 BT.
61.00	Spur,projects S.
	Descend.
70.30	Hollow,100 ft.deep,course S.
	Ascend.
78.50	Ridge,bears N.and S.
	Descend.
79.98	The cor.of secs.17-18-19 and 20.
	Land,rolling and mountainous,slopes SE.
	Soil,clay loam and gravel,6 ins.deep,4th rate,on a subsoil of clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 79.98 chs.
	N.89°55'W.,on a random line,bet. secs.18 and 19.
40.00	Set temp.¼ sec.cor.
74.02	Intersect W,bdy.of Tp.2 lks.S.of the cor.of secs.13-18-19 and 24, heretofore described.
	July 3: At this cor.I set off 23°01'N.on the decl.arc and at 12h.4m,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°02'N.
	Thence I run
	S.89°54'E.,on a true line
	Bet.secs.18 and 19.
	Descend over mountainous land through heavy timber.
17.00	Hollow,100 ft.deep,course SW.
	Ascend.
26.30	Ridge,bears NW.and SE.
	Descend.
34.02	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 18 on

CHAINS	
	N.half,S 19 on S.half;from which
	A pinon,7 ins.diam.,bears N.37°50'W.,71 lks.dist., marked ¼ S 18 BT.
	A pinon,8 ins.diam.,bears S.35°10'W.,70 lks.dist., marked ¼ S 19 BT.
67.10	Road,State Line to Butcher Spring,bears N.and S.
67.25	Hollow,75 ft.deep,course S.
	Ascend.
74.02	The cor.of secs.17-18-19 and 20.
	Land,mountainous,slopes SE.
	Soil,clay loam and gravel,6 ins.deep,4th rate,on a subsoil of clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,mohagany,sage brush and grass.
	Heavily timbered land on 74.02 chs.
	N.0°03'W.,bet.secs.17 and 18.
	Ascend over mountainous land,through heavy timber.
24.00	Ridge,bears NW.and SE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 18 on W.half,S 17 on E.half;from which
	A pinon,9 ins.diam.,bears N.33°E.,25 lks.dist., marked ¼ S 17 BT.
	A cedar,10 ins.diam.,bears S.18°20'W.,56 lks. dist.,marked ¼ S 18 BT.
44.00	Head of hollow,50 ft.deep,course E.
	Ascend.
52.00	Spur,projects E.
	Descend.
61.50	Leave mountainous land,enter gently rolling land.
64.00	Wash,4 lks.wide,12 ins.deep,drains NE.
68.20	Wash,6 lks.wide,24 ins.deep,drains E.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the

CHAINS	
	ground for the cor.of secs.7-8-17 and 18,marked on brass cap
	T 32 S S 7 in NW.,
	R 19 W S 8 in NE.,
	S 17 in SE.and
	S 18 in SW.quadrant;from which
	A pinon,7 ins.diam.,bears N.26°20'E.,20 lks.dist., marked T 32 S R 19 W S 8 BT.
	A pinon,8 ins.diam.,bears S.68°10'E.,101 lks.dist., marked T 32 S R 19 W S 17 BT.
	A pinon,6 ins.diam.,bears S.52°35'W.,85 lks.Dist., marked T 32 S R 19 W S 18 BT.
	A pinon,12 ins.diam.,bears N.27°40'W.,85 lks.dist., marked T 32 S R 19 W S 7 BT.
	Land,rolling and mountainous,slopes E.
	Soil,clay loam and gravel,6 ins.deep,4th rate,on a sub-soil of clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 80.00 chs.
	July 3,1911.

	July 5: At 8h.4m.,a.m.,l.m.t.,I set off 38°03'N.on the lat.arc,77°53'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.89°56'E.,on a random line,bet.secs.8 and 17.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line,5 lks.N.of the cor.of secs.8-9-16 and 17.
	Thence I run
	S.89°58'W.,on a true line
	Bet.secs.8 and 17.
	Over gently rolling land through heavy timber.

CHAINS	
12.00	Wash,3 lks.wide,12 ins.deep,drains SE.
39.98	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 8 on N.half,S 17 on S.half;from which
	A cedar,12 ins.diam.,bears S.48°25'E.,50 lks. dist.,marked ¼ S 17 BT.
	A pinon,10 ins.diam.,bears N.6°50'W.,47 lks. dist.,marked ¼ S 8 BT.
53.50	Wash,4 lks.wide,12 ins.deep,drains SE.
79.96	The cor.of secs.7-8-17 and 18.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,3rd rate,on a subsoil of stiff clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 79.96 chs.
	July 5: At this cor.I set off 22°51'N.on the decl.arc and at 12h.4m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°03'N.

	N.89°54'W.,on a random line,bet.secs.7 and 18.
40.00	Set temp.¼ sec.cor.
73.92	Intersect the W.bdy.of Tp.10 lks.S.of the cor.of secs. 7-12-13 and 18, heretofore described.
	Thence I run
	S.89°50'E.,on a true line
	Bet.secs.7 and 18.
	Ascend over mountainous land through heavy timber.
14.00	Spur,projects NE.
	Descend.
33.92	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 7 on N.half,S 18 on S.half;from which
	A pinon,6 ins.diam.,bears N.53°25'E.,77 lks.dist., marked ¼ S 7 BT.

CHAINS	
	A pinon,6 ins.diam.,bears S.8°25'W.,45 lks.dist., marked ¼ S 18 BT.
	From this cor.Butcher Springs bears N.5°00'E.,17.26 chs. dist.
45.00	Foot of descent,leave mountainous land and enter rolling land.
61.00	Wagon road,State Line to Butcher Springs,bears N.and S.
73.92	The cor.of secs.7-8-17 and 18.
	Land,rolling and mountainous,slopes E.
	Soil,clay loam and gravel,6 ins.deep,3rd rate,on a sub-soil of damp stiff clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered lan don 73.92 chs.
	July 5,1911.
	July 6: At 8h.4m.,a.m.,l.m.t.,I set off 38°03'N.on the Lat.arc,22°47'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.
	Over gently rolling land through heavy timber.
12.50	Wash,4 lks.wide,12 ins.deep,drains SE.
15.00	Leave rolling land and ascend over mountainous land.
24.00	Spur,50 ft.above wash,projects E.
	Descend.
35.20	Hollow,75 ft.deep,course NE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 7 on W.half,S 8 on E.half;from which
	A pinon,7 ins.diam.,bears S.41°15'E.,131 lks. dist.,marked ¼ S 8 BT.
	A cedar,10 ins.diam.,bears S.26°10'W.,76 lks.

CHAINS	
	dist.,marked ¼ S 7 BT.
44.00	Spur,projects SE.
	Descend.
56.00	Hollow,50 ft.deep,course E.
	Ascend.
72.00	Ridge,bears NW.and SE.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.5-6-7 and 8,marked on brass cap
	T 32 S S 6 in NW.,
	R 19 W S 5 in NE.,
	S 8 in SE. and
	S 7 in SW.quadrant;from which
	A pinon,6 ins.diam.,bears N.77°35'E.,30 lks.dist., marked T 32 S R 19 W S 5 BT.
	A pinon,7 ins.diam.,bears S.42°10'E.,80 lks.dist., marked T 32 S R 19 W S 8 BT.
	A pinon,8 ins.diam.,bears S.19°25'W.,30 lks.dist., marked T 32 S R 19 W S 7 BT.
	A pinon,6 ins.diam.,bears N.70°05'W.,87 lks.dist., marked T 32 S R 19 W S 6 BT.
	Land,rolling and mountainous,slopes E.
	Soil,clay loam and gravel,6 ins.deep,3rd rate,on a subsoil of clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 80.00 chs.
	July 6: at this cor.I set off 22°46'N.on the decl.arc, and at 12h.4m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°03'N.

	N.89°58'E.,on a random line,bet.secs.5 and 8.
40.00	Set temp.¼ sec.cor.
79.98	Intersect the cor.of secs.4-5-8 and 9.

CHAINS	
	Thence I run
	S.89°58'W.,on a true line
	Bet.secs.5 and 8.
	Over gently rolling land,through heavy timber.
2.50	Wagon road,bears N.and S.
18.25	Wash,4 lks.wide,12 ins.deep,drains NE.
20.00	Leave rolling land,ascend over mountainous land.
30.50	Spur,75 ft.above wash,projects SE.
	Descend.
39.99	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 5 on N.half,S 8 on S.half;from which
	A pinon,10 ins.diam.,bears N.74°20'E.,20 lks. dist.,marked ¼ S 5 BT.
	A pinon,9 ins.diam.,bears S.32°30'E.,109 lks. dist.,marked ¼ S 8 BT.
52.00	Hollow,75 ft.deep,course SE. Thence along bottom of the hollow.
76.00	Leave hollow,ascend.
79.98	The cor.of secs.5-6-7 and 8.
	Land,rolling and mountainous.
	Soil,clay loam and gravel,6 to 8 ins.deep,3rd rate,on a subsoil of clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 79.98 chs.
	July 6,1911.

July 7: At 8h.5m.,a.m.,l.m.t.,I set off 38°03'N.on the lat.arc,22°41'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.89°50'W.,on a random line,bet.secs.6 and 7.

40.00 Set temp.¼ sec.cor.

CHAINS

73.80 Intersect the W.bdy.of Tp.5 lks.S.of the cor.of secs. 1-6-7 and 12, heretofore described.

Thence I run

S.89°48'E.,on a true line

Bet.secs.6 and 7.

Descend over mountainous land through heavy timber.

14.75 Hollow,175 Ft.deep,course NE.

Ascend.

28.00 Ridge,bears N.and S.

Descend.

33.80 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 6 on N.half,S 7 on S.half;from which

A pinon,12 ins.diam.,bears S.43°40'E.,36 lks. dist.,marked ¼ S 7 BT.

A cedar,9 ins.diam.,bears N.45°05'W.,15 lks. dist.,marked ¼ S 6 BT.

48.40 Hollow,150 ft.deep,course NE.

Ascend.

61.00 Spur,projects NW.

Descend.

73.80 The cor.of secs.5-6-7 and 8.

Land,mountainous,slopes SE.

Soil,clay loam and gravel,6 ins.deep,4th rate,on a subsoil of clay and loose rock.

Timber,cedar and pinon.

Undergrowth,sage brush and grass.

Heavily timbered land on 73.80 chs.

July 7: At this cor.I set off 22°40'N.on the decl.arc and at 12h.5m.,p.m.,l.m.t.,Observe the sun on the meridian,the resulting lat.is 38°03'N.

N.0°03'W.,on a random line,bet.secs.5 and 6.

40.00 Set temp.¼ sec.cor.

73.80 Intersect the N.bdy.of Tp.8 lks.W.of the cor.of secs.

CHAINS	
	5-6-31 and 32, heretofore described.
	Thence I run
	South,on a true line
	Bet.secs.5 and 6.
	Descend along W.slope of hollow,through heavy timber.
4.10	Hollow,75 ft.deep,course SE.
	Ascend.
17.00	Ridge,bears E.and W.
	Descend.
31.50	Hollow,125 ft.deep,course NE.
	Ascend.
39.90	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 6 on W.half,S 5 on E.half;from which
	A pinon,9 ins.diam.,bears S.55°E.,85 lks.dist., marked ¼ S 5 BT.
	A cedar,10 ins.diam.,bears S.61°15'W.,95 lks. dist.,marked ¼ S 6 BT.
59.00	Ridge,bears E.and W.
	Descend.
71.70	Hollow,75 ft.deep,course SE.
	Ascend.
79.90	The cor.of secs.5-6-7 and 8.
	Land,mountainous,slopes NE.
	Soil,clay loam and gravel,6 ins.deep,4th rate,on a sub-soil of clay and loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 79.90 chs.
	July 7,1911.

GENERAL DESCRIPTION OF T.32 S.,R.19 W.

This Township is situated on the west side of Hamblin Valley,its eastern portion extending into the valley.

GENERAL DESCRIPTION OF T.32 S.,R.19 W.

The surface ranges from gently rolling valley to rough mountainous land.

The mountainous land extends along the west tier through secs.5-6-7-8-17-18-19-20-29-30-31 and 32,the soil of which is generally rocky loam with a subsoil of loose rock and clay,and is unfit for any purpose except grazing.

The soil of the remaining portion of this Tp.which is gently rolling valley is a rich clay loam with gravel, 6 to 8 ins.deep,on a subsoil of damp stiff clay and loose rock and is capable of producing crops with irrigation.

The west half of the Tp.is generally covered with a heavy growth of cedars and pinon pine.

The only water found in this Tp.is in washes,and flows through secs. 19, 20,29, 30, 31,and at Butcher Springs in sec.7.

A portion of the State Line Mining District extends through secs.18-19-30 and 31,and gold,silver and lead is found in these secs.

The town of State Line is located in the SE.quarter of sec.19 and contains 30 dwelling houses,a store and post office.At the time of this survey only 4 families live here.There are no other settlers in the Tp.nor any improved land.

The roads from Lund to State Line,Modena to State Line, and Modena to Lund,and numerous other roads through the valleys are located in this Tp.

Ralph Ginley

U.S.Transitman.

For table of Latitude and Departures see the survey of west and north boundaries of T.32 S.,R.19 W.

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BOOK A-391

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 .....

For certificate of assistants see book "X", T. 31 S., R. 30 W.

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

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

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

.....

U. S. Surveyor.

6—2761

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 transitman see book "X" T. 31 S., R. 20 W.

_____ 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, Feb. 26, 1914. ~~, 191~~

The foregoing field notes of the survey of the subdivisional lines of Township No. 32 South, Range No. 19 West of the Salt Lake Base and Meridian, Utah

executed by Ralph Gentry

under his special instructions dated August 6, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hall

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

S.

BOOK A-391

FILED
MAR 25 1912

FIELD NOTES

OF THE SURVEY OF THE

NORTH BOUNDARY

OF

TOWNSHIP 32 SOUTH RANGE 20WEST.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Ralph Gentry

In the capacity of U. S. Surveyor Transitman, *under instructions dated* August 6, *1910, issued by the United States Surveyor General to govern surveys included in Group No.* 3, *which were approved by the Commissioner of the General Land Office,* Sept. 12, *1910, pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced July, 12, *1911*

Survey completed July 12, *1911*

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M Bdy. 01-38-85
Clas- 14-02

BOOK A-391

INDEX DIAGRAM.

Township 32 SOUTH, *Range* 20 WEST.

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30	29	28	27	26	25
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SURVEY OF THE NORTH BOUNDARY OF T.32 S.,R.20 W.

CHAINS	
	Survey commenced July 12,1911, and excuted with the instrument described in book " J" of this survey.
	At the cor.of Tps.31 and 32 S.,Rs.19 and 20 W.,in latitude 38°04'17"N.,longitude113°58'39"W.,at 12h 12m. a.m.l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined, by a tack driven in a stake set in the ground five chains north of my station.
	At 7h.30m. a.m.l.m.t.,I turn off the azimuth of Polaris, 1° 29' to the west, and mark the meridian thus determined by a tack driven in a stake, set firmly in the ground, five chains north of my station.
	At 8h. 5m. a.m.l.m.t.,I set off 38° 04' on the lat. arc; 22° 06'N. on the decl. arc; and determine a meridian with the solar. This meridian coincides with the meridian established by the Polaris observation.
	By the above test, and previous tests,I conclude that the adjustments of the transit are satisfactory.
	The magnetic bearing of the true meridian, at 8h. 30m.a.m. is N.16°W.,the angle thus determined gives the mag.decl. 16°E.
	Thence I run
	West,bet. secs. 1 and 36.
	Over mountainous land, through heavy timber, and scattering undergrowth of sage brush and bunch grass.
	Descend.
9.00	Ravine,24 ft.deep, course N.25°E.
	Ascend.
34.90	Top of ridge,375 ft. above ravine, bearsN.20°E. and S.20°W
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S.36 on N. half, and S 1 on S. half; from which
	A pinon, 12 ins. dia.,bears N.37°50'E.,336 lks.,dist., marked ¼ S 36 B T.
	A pinon, 6 ins. diam.,bears S.19°55'W.,10 lks.dist., marked ¼ S 1 B T.

CHAINS	
44.70	Hollow,150 ft. deep, course NE.
	Ascend.
73.25	Ridge,600 ft. above hollow, bears N. and S.
	Descend.
80.00	Set an iron post, 3 ft. long, 3 ins,dia.,24 ins. in the ground, for cor. of secs. 1 - 2 - 35 and 36, marked on brass cap
	T 31 S S 35 in NW.
	R 20 W S 36 in NE.
	R 20 W S 1 in SE.,and
	T 32 S S 2 in SW.,quadrant; from which
	A pinon, 14 ins. diam., bears S.81°10'E.,70 lks. dist.,marked T 32 S R 20 W S 1 B T.
	A pinon, 12 ins. diam., bears S.3°15'W.,131 lks. dist.,marked T 32 S R 20 W S 2 B T.
	There being no other trees available for bearing trees,I raise a mound of stone 2½ ft. base, 2 ft. high,N. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil,clay and light sandy loam, 8 to 12 ins, deep, 4th. rate, on a subsoil of clay and loose rock.
	Timber, cedars and pinon pine, on 80.00 chns.
	Undergrowth, of scattering sage brush and bunch grass.
	July 12: At this cor.,I set off22°04'N.,on the decl. arc; and at 12h.5m. l.m.t., observe the sun on the meridian, the resulting lat. is 38° 04'.
	West, bet. secs. 2 and 35.
	Over mountainous land, through scattering timber, and undergrowth of sage brush and bunch grass.
	Descend.
6.30	Hollow,375 ft deep, course N.
	Ascend.
29.75	Ridge, 500 ft. above hollow, bears N. and S.
	Descend.

SURVEY OF THE NORTH BOUNDARY OF T.32 S.,R.20 W.

CHAINS

38.85 Intersect the Utah-Nevada boundary, 14.02 chains N.0°12'E. of the 227th.mile post, which is a cedar post, 3 ft. long, and 6 ins. sq., marked and witnessed as described by the suryeyor general.

Set an iron post, 3 ft. long,3 ins. dia., 24 ins. in the ground, for closing Tp. cor.,of Tps. 31 and 32 S.,R.20W. marked on brass cap

Utah on E., and

CC Nevada on W.,half.

T 31 S R 20 W S 35 in NE.,and

T 32 S R 20 W S2 in SE.,quadrant; raise a mound of stone, 2½ ft. base. 2 ft. high E. of cor.Pits impracticable.

Land mountainous.

Soil, clay and light sandy loam, stony, 8 to 12 ins. deep, 4th. rate, on a subsoil of clay and loose rock.

Timber, scattering cedars and pinon pine, on 38.85 chs.

Undergrowth of sage brush and bunch grass.

July 12,1911.

For general description of this Tp. see notes of subdivision.

Latitudes, departures, and closing errors.

Line designated	True Bearing.	Dist. Chs.	Latitudes North Chs.	Latitudes South Chs.	Departures East Chs.	Departures West Chs.
S.bdy.T.32 S.R20W.	West	118.71				118.71
Ut.-Nev. bdy.						
C.Tp.cor.to 232M.	N.0°25'E.	58.78	58.78		.43	
232nd.M.to 231 M.	N.0°01'W.	91.44	91.44			.03
231st.M. to230M.	N.0°07'W.	91.19	91.19			.19
230th.M. to 228M.	N.0°02'E.	145.78	145.78		0.08	
228th.M. to 227M.	N.0°32' W.	78.89	78.89			.74
228th.M. to C.Tp.C.	N.0°12'E.	14.02	14.02		0.05	
N.bdy.T32S.R20W.	East	118.85			118.85	
E.bdy,T32S,R20W.	South	479.76		479.76		
Convergency						.14
	Totals		480.10	479.76	119.41	119.81
			479.76			119.41
	Error in lat.		0.34	Error in dep.		.40

Ralph Gindy

U.S.Transitman.

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BOOK A-391

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 .....

For certificate of assistants see book "V" T. 31 S., R. 19 W.

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

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

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

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

.....

U. S. Surveyor.

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Ex.H.H.S.

Filed Mar.25, 1912.
WSH.

4—679

BOOK A-391
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FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO.32 SOUTH, RANGE NO. 20 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

RALPH GENTRY

In the capacity of U. S. ~~Surveyor~~ Transitman, *under instructions dated* Aug.6, *1910, issued by the United States Surveyor General to govern surveys included in Group No.* 3, *which were approved by the Commissioner of the General Land Office,* Sept.12, *1910., pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced July 12, *1911*

Survey completed July 20, *1911.*

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BOOK A-391

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CHAINS

Survey commenced July 12,1911 and excuted with the instrument described in book " J" of this survey.
I examine the adjustments of the transit, find them correct; then, to testthe 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 cor. of secs. 1-2-35- and 36, on the S. bdy. of the Tp., heretofore described, in approximate lat.37°59' 04"N.,longitude 113°59'44"W.,I set off 37°59' on the lat. arc; 22°03'N. on the decl. arc; and at 4h. 35m.p.m.l.m.t., determine a meridian with the solar and mark a point thereof,on a stake firmly set in the ground, 5 chs. N. of my station.

July 12,1911.

July 13: At 12h.8m.a.m.l.mt., I observe Polaris at eastern elongation, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs, N. of my station.
At 7h.30m.a.m.,I lay off the azimuth of Polaris, 1°29' to the west, and mark the meridian thus determined, by driving a tack in the stake set last evening, on which the meridian falls 0,2 ins east of the mark determined by the solar.
At 8h. 5m. a.m.l.m.t., I set off 37°59' on the lat.arc; 21°57'N., on the decl. arc; and mark a point in the meridian determined with the solar,by a tack driven in the stake already set 5 chs. N, of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.
The solar apparatus by p.m. and a.m. observations defines positions for meridians,respectively about 0'11" west and 0'16" east of the meridian established by the Polaris observations; therefore,I conclude that the adjustments of the transit are satisfactory.

CHAINS	
	The magnetic bearing of the true meridian at 8h.30m.,a. m.,is N.16°W.,the angle thus determined gives the mag. decl. 16°E.
	Thence I run
	N.0°01'W,bet. secs. 35 and 36.
	Over mountainous land,through scattering timber and undergrowth of sage brush,maghoney, and bunch grass.
	Descend.
6.00	Enter dense udergrowthof maghoney, bears E. and W.
17.00	Hollow,250 ft. deep,, courseN.75°E.,Mahoganyundergrowth becomes scattering, bears E. and W.
	Ascend.
24.00	Ridge,140 ft. above hollow, bears N.60°E. and S,60°W.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 35 on W. half, and S 36 on E. half; from which
	Mahogany, 8 ins. diam.,bears S.88°30'W.,132 lks. dist.,marked ¼ S 35 B T.
	A cedar, 8 ins. diam.,bears S.41°E.,106lks. dist., marked ¼ S 36 B T.
42.00	Hollow, 175 ft. deep, course NE.
	Ascend.
43.50	Road, Fay, to State Line,bears NE. and SW.
56.00	Top of spur,84 ft. above hollow, projects E. about 6chs.
	Descend.
61.80	Ravine,40 ft. deep, course E.
	Ascend.
68.51	Top of spur, 125 ft. above ravine, projects E. about 10 chains.
	Descend.
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins.in the ground, for cor. of secs. 25-26-35 and 36, marked on brass cap.
	T 32 S S 26 in NW.
	R 20 W S 25 in NE.

SUBDIVISION OF T.32 S.,R.20 W

CHAINS	
	S 36 in SE.,and
	S 35 in SW.,quadrant; from which
	A cedar, 14 ins. diam.,bears N.20°50'E.,438 lks. dist.,marked T 32 S R 20 W S 25 B T.
	A mahogany, 10 ins. diam., bears S.18°20'E.,272 lks. dist.,marked T 32 SR 20 W S 36 B T.
	A mahogany, 8 ins. diam.,bears S.69°35'W.,514 lks. dist.,marked T 32 S R 20 W S 35 B T.
	A cedar, 10 ins. diam., bears N.79°40'W.,258 lks. dist.,marked T 32 S R 20 W S 26 B T.
	Land, mountainous. Drains NE.
	Soil, clay and light sandy loam, stony, 4th. rate, 8 to 14 ins. deep, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine, on 80.00 chs.
	Undergrowth of scattering mahogany, sage brush and bunch grass.
	July 13: At this cor.,I set off 21°56'N. on the decl. arc; and at 12h. 6m. l.m.t., observe the sun on the meridian the resulting lat. is 38° 00'.
	East, on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect E. bdy. of Tp., 8 lks. N. of cor. of secs. 25-30- 31 and 36, hereto fore described.
	Thence I run
	N.89°56'W., on a true line bet. secs. 25 and 36.
	Over mountainous land, through scattering timber and A dense undergrowth of mahogany.
	Ascend.
8.00	Top of ridge,100 ft. above sec. cor.,bears NE. and SW.
	Descend.
35.80	Old road, bears N. and S.
36.00	Hollow, 500 ft. deep, course N. Enter scattering mahogany bears N. and S. Enter sage brush and bunch grass.
	Ascend.
39.98	Set an iron post, 3 ft. long,1 in dia.,26 ins. in the

CHAINS

ground, for ¼ sec. cor., marked ¼ S 25 on N. half, and S 36 on S. half; from which

A cedar, 8 ins. diam., bears N.58°10'E., 66 lks. dist., marked ¼ S 25 B T.

A cedar, 7 ins. diam., bears S.25°05'W., 109 lks. dist., marked ¼ S 36 B T.

48.00 Top of ridge, 150 ft. above hollow, bears N. and S.

Descend.

52.60 Hollow, 100 ft. deep, course N.

Ascend.

53.20 Road, Fay to State Line, bears N. and S.

55.00 Top of ascent, 25 ft. above hollow,

Descend.

57.40 Hollow, 100 ft. deep. course NE.

Ascend.

68.00 Top of spur, 175 ft. above hollow, projects SE. 2 chs.

Descend.

70.70 Hollow, 70 ft. deep, course SE.

Ascend.

79.96 The cor. of secs. 25-26-35 and 36.

Land, mountainuos, slopes N.

Soil, clay, and light sandy loam, 8 to 12 ins. deep, stony, 4th. rate, on a subsoil of clay and loose rock.

Timber, scattering cedars and pinon pine, on 80.00 chs.

Undergrowth, dense mahogany on 36.00 chs. and scattering mahogany, sage brush and bunch grass on 44.00 chs.

July 13, 1911.

July 14: At 8h. 6m. a.m.l.m.t., I set off 38°00' on the lat. arc; 21°49'N., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 25 -26-35 a and 36 .

Thence I run

West, bet. secs. 26 and 35.

Over mountainous land, through scattering timber, and scattering undergrowth of mahogany, sage brush and bunch grass

CHAINS	
	Descend.
3.15	Hollow,140 ft. deep, course NE.
	Ascend.
20.00	Top of spur, 375 ft. above hollow, projects S. 2 chs.
	Descend.
23.00	Ravine, 50 ft. deep, course SE.Leave timber and mahogany.
	Ascend.
38.07	Intersect Utah-Nevada bdy. N.0°01'W.,21.24 chs. dist., of the 232nd. mile post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor, of secs. 26 and 35,marked on brass cap
	UTAH on the E. half, and
	CC NEVADA on the W. half.
	T 32 S S 26 in NE.,and
	R20W S 35 in SE.,quadrant; raise a mound of stone $2\frac{1}{2}$ ft. base, 2 ft. high E. of cor. Pits impracticable.
	Land, mountainous, drains E.
	Soil, clay and sandy loam, stony, 8 to 12 ins. deep, 4th. rate, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine, on 23.00 chs.
	Undergrowth of scattering mahogany, sage brush and bunch grass.

	N.0°01'W., bet. secs. 25 and 26.
	Over mountainous land, and through a medium growth of timber, and scattering sage brush and bunch grass.
	Descend.
3.15	Hollow, 140 ft. deep, course S.75°E.
	Ascend.
14.50	Top of ridge,200ft. above hollow, bears N.75°W. and S.75°E
	Descend.
23.00	Ravine, 175 ft. deep, drains E.
	Ascend.
34.75	Top of ridge,135 ft. above hollow, bears E. and W.
	Descend.

CHAINS	
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 26 on W. half and S 25 on E. half; From which
	A cedar, 6 ins. diam.,bears N.59°45'E.,81 lks. dist., marked ¼ S 25 B T.
	A mahogany, 6 ins. diam.,bears N.84°10'W.,60 lks. dist.,marked ¼ S 26 B T.
	From this cor.
	Cor. No. 1, of the Sulphate lode, Sur. No. 4191 bears N.63°54'E.,16.21 chs. dist.
	July 14: At this cor. I set off 21°47'N. on the lat. arc; and at 12h. 6m. , observe the sun on the meridian, the resulting lat. is 38°00'.
40.35	Hollow,125 ft. deep, course E.
	Ascend.
66.40	Road, bears NE. and SW.
71 00	Top of ridge,230 ft. above hollow, bears E. and W.
	Thence on nearly level line over ridge. Enter scattering timber, bears NE. and SW.
76.00	Descend.
80.00	On spur, projects NW.
	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for cor. of secs.23-24-25 and 26, marked on brass cap
	T 32 S S 23 in NW.
	R 20 W S 24 inNE.
	S 25 in SE.,and
	S 26 in SW.,quadrant; from which
	A pinon, 12 ins. diam.,bears N.86°55'E.,150 lks. dist.,marked T 32 S R20 W S 24 B T.
	A mahogany, 6 ins. diam.,bears S.57°05'E.,159 lks. dist.,marked T 32 S R 20 W S 25 B T.
	There being no other trees available for bearing trees I raise a mound of stone 2½ ft. base, 2 ft. high W. of cor. Pits impracticable.
	Land, mountainous, drains E.
	Soil,clay and light sandy loam, stony,4th. rate,on a

CHAINS	
	subsoil of clay and loose rock.
	Timber, cedars and pinon pine.
	Undergrowth, scattering sage brush, mahogany, and bunch grass.
	From this cor.
	Cor. No. 1, of the Ofer lode, sur. No. 4200, bears S.7° 35'W.,4.04 chs. dist.
	Cor. No. 1, of the Phoenix lode, sur. No. 4583, bears S.44°08'W.,30.20 chs. dist.

	S.89°56'E., on a random line bet. secs.24 and 25.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. 7 lks.S. of cor. of secs. 19-24-25 and 30, heretofore described
	Thence I run
	N.89°59'W., on a true line bet. secs. 24 and 25.
	Over mountainous land, through scattering timber, and undergrowth of sage brush and bunch grass.
	Ascend.
8.00	Top of spur,100 ft. above sec. cor. projects S.
	Descend.
14.50	Ravine, 50 ft. deep,course S.
	Ascend.
28.00	Top of ridge,40 ft. above ravine, bears NE. and SW.
	Descend.
36.00	Ravine,75 ft. deep, drains N.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 24 on N. half, and S 25 on S. half; from which
	A pinon, 6 ins. diam.,bears N.41°25'E.,64 lks. dist., marked ¼ S 24 B T.
	A pinon, 6 ins. diam.,bears S. 40°05'E.,51 lks dist., marked ¼ S 25 B T.
	From this cor.
	Cor. No. 1, of the June Bug lode, sur. No. 4494,brs.

Chains

S.13° 50'E.,9.91 chs. dist.

Cor. No 1, of the Big Sunflower lodes, sur. No 4957

bears, N.29° 08' E.,37.68 chns. dist.

46.25 Top of spur,200 ft. above ravine, projects N.

Descend.

51.50 Ravine, 50 ft. deep, course N.

Ascend.

55.93 Top of spur, 50 ft. above ravine, projects N.

From this point,

Cor. No 1, of the Last Chance Mine lodes, sur. No 5132

bears S.46° 56'W.,6.91 chns. dist.

Descend.

69.10 Ravine, 100 ft. deep, course N.15°E.

Ascend.

78.00 Top of spur, 175 ft. above ravine, projects N.30°E.

Descend.

80.00 The cor. of secs. 23-24-25 and 26.

Land, mountainous, general drainage E.

Soil, clay and light sandy loam, stony, 8 to 12 ins. deep, 4th. rate, on a subsoil of clay and loose rock.

Timber, scattering cedars and pinon pine.

Undergrowth of sage brush and bunch grass.

July 14, 1911.

July 15 : At 8h. 6m. a.m.l.t.,I set off 38° 01' on the lat. arc; 21° 40'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

West, bet. secs, 23 and 26.

Over mountainous land, through scattering timber and undergrowth of sage brush and bunch grass.

Descend.

38.40 Hollow, 300 ft. deep, running water in bottom, 6 lks. wide, 1 in. deep, drains NW.

Ascend

CHAINS	
34.50	Top of spur, 40 ft. above, hollow, projects NE.
	Descend.
38.02	Intersect Utah-Nevada bdy., 9.89 chs. dist. N.0° 07'W., of the 231 mile post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 23 and 26, marked on brass cap
	UTAH on E. half, and
	NEVADA CC on W. half.
	T32 S S 23 in NE., and
	R 20 W S 26 in SE., quadrants from which
	A cedar, 12 ins. diam., bears N.8°10'E., 774 lks. dist., marked T 32 S R 20 W S 23 B T.
	There being no other trees available for bearing trees, I raise a mound of stone 2½ ft base, 2 ft. high E. of cor. Pits impracticable.
	Land, mountainous, sloping W.
	Soil, clay and light sandy loam, stony, 4th. rate, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.

	N.0°01'W., bet. secs. 23 and 24.
	Over mountainous land, through scattering timber, and undergrowth of sage brush and bunch grass.
	Descend.
12.75	Ravine, 100 ft. deep, course N.15°E.
	Ascend.
20.00	A point 25 ft. above ravine, on E. side of Spur.
	Descend.
30.50	Hollow, 275 ft. deep, stream of fresh water in bottom, 6 lks. wide. 1 in. deep, drains E.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 23 on W.

CHAINS	
	half, and S 24 on E. half; from which
	A cedar, 8 ins. diam.,bears S.2°50'W.,119 lks. dist., marked ¼ S 23 B T.
	A cedar, 7 ins. diam.,bears S.71°35'E.,15 lks. dist., marked ¼ S 24 B T.
	From this cor.
	Cor.No-5, of the Rhode Island Queen lode,sur. No. 4579, bears S.55° 02'W.,7,99 chs. dist.
	July 15: At this cor. I set off 21°38'N.,on the decl. arc; and at 12 h. 6 m. l.m.t., I observe the sun on the meridian, the resulting lat. is 38° 01'.
41.00	Top of spur, 50 ft. above hollow, projects E.
	Descend.
50.50	Ravine, 2 chs. wide, 20 ft. deep, course E.
57.00	Road, bears S.30°E., and N.30°W.
60.40	Hollow,50 ft. deep, course S.30°E.
	Ascend.
72.00	Top of spur, 65 ft. above hollow, projects SW.
	Descend.
79.05	Old road, bears N.10°E., and S.10°W.
80.00	Set an iron post, 3 ft. long, 2 ins, dia.,24 ins. in the ground, for cor. of secs. 13-14-23 and 24, marked on brass cap
	T 32 S S 14 in NW.
	R 20 W S 13 in NE.
	S 24 in SE,,and
	S 23 in SW.,quadrant, from which
	A cedar, 8 ins. diam.,bears N.51°20'E.,322 lks. dist.,marked T 32 S R 20 W S 13 B T.
	A cedar, 7 ins. diam.,bears S.85°50'E.,195 lks. dist.,marked T 32 S R 20 W S 24 B T.
	A pinon. 9 ins. diam.,bears S.44°50'W.,294 lks. dist.,marked T 32 S R 20W S 23 B T.
	A cedar, 6 ins. diam.,bears N.58°15' W.,157 lks. dist.,marked T 32 S R 20 W S 14 B T.
	Land. mountainous, sloping E.

Chains

Soil, clay and light sandy loam, stony, 4 th. rate, 6 to 12 ins. deep, on a subsoil of clay and loose rock.

Timber, scattering cedars and pinon pine.

Undergrowth of sage brush and bunch grass.

July 15, 1911.

July 17: At 8 h. 6 m. a.m.l.t., I set off 38° 02' on the lat. arc; 21° 21'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

S.89°59'E., on a random line bet. secs. 13 and 24.

40.00 Set temp. ¼ sec. cor.

80.02 Intersect E. bdy. of Tp. 5 lks. S. of cor. of secs. 13-18-19 and 24, heretofore described.

Thence I run

S.89°59'W., on a true line bet. secs. 13 and 24.

Over mountainous land, through scattering timber and undergrowth of sage brush, bunch grass and dense mahogany.

Descend.

5.00 Ravine, 70 ft. deep, course SE.

Ascend.

12.00 Leave mahogany brush, bears N. and S.

14.75 Top of ridge, 150 ft. above ravine, bears N. and S.

Descend.

36.20 Hollow, 550 ft. deep, course S.

Ascend.

40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 13 on N. half, and S 24 on S. half; from which

A pinon, 7 ins. diam., bears N.44°50'E., 61 lks. dist., marked ¼ S 13 B T.

A pinon, 7 ins. diam., bears S.81°25'E., 16 lks. dist., marked ¼S 24 B T.

45.00 Base of cliff, 50 ft. high, bears N. and S.

45.50 Top of spur, 300 ft. above hollow, projects S.

CHAINS	
	Enter dense timber and mahogany brush, bears N. and S.
	Descend.
52.00	Timber becomes scattering. leave mohagany brush, bears N. and S.
68.75	Hollow, 550 ft. deep, course S.
	Ascend.
72.00	Top of spur, 20 ft. above hollow, projects SW.
	Descend.
80.02	The cor. of secs. 13-14-23 and 24.
	Land, mountainous, drains S.
	Soil, clay and light sandy loam, stony, 4 th. rate, 8 to 12 ins. deep, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine on 73.50 chs. and heavy cedars and pinon pine on 6.50 chs.
	Undergrowth, of sage brush and bunch grass on 80.00 chs. and dense mahogany brush on 18.50 chs.
	July 17: The sky is overcast, making it impossible to to take solar observations.
	West, bet. secs. 14 and 23.
	Over mountainous land, through scattering timber, and undergrowth of sage brush and bunch grass.
	Descend.
0.50	Hollow, 150 ft. deep, course S.15°W.
	Ascend.
28.00	A point, 125 ft. above hollow, descend into hollow.
33.10	Road, bears N.75°W. and S.75°E.
36.25	Hollow, 100 ft. deep, course S.75°E.
	Ascend.
38.23	Intersect Utah - Nevada bdy. 1.31 chs. S.0°07'E., of the 229+70 mile post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 14 and 23, marked on brass cap.
	UTAH on E. half,
	CC NEVADA on W. half.

CHAINS	
	T 32 S S 14 in NE., and
	R 20 W S 23 in SE.,quadrant, from which
	A cedar, 10 ins. diam.,bears N.17°35'E.,289 lks. dist.,marked T 32 S R 20W S 14 B T.
	A cedar, 7 ins. diam.,bears S.32°50'E.,376 lks. dist.,marked T 32 S R 20 W S 23 B T.
	Land, mountainous, slopes E.
	Soil,clay and light sandy loam, stony, 4 th. rate, 8 to 12 ins. deep, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine.
	Undergrowth, of sage brush and bunch grass.
	July17: At 2h p.m., heavy rain prevents further work this day.
	July 17.1911.

	July 18: At 8 h. 6 m. a.m.l.m.t., I set off 38°02' on the lat. arc; 21° 11'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
	N.0°01'W.,bet. secs. 13 and 14.
	Over mountainous land, through scattering timber and undergrowth of sage brush and bunch grass.
	Descend.
2.60	Hollow, 150 ft. deep, course S.15°W.
	Ascend.
9.00	Top of spur, 50 ft. above hollow, projects E.
	Descend.
14.00	REcross hollow, courseSE.
	Ascend.
14.40	Old road, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 14 on W. half, and S 13 on E. half; from which
	A cedar, 18 ins. diam.,bears N.74°E., 765 lks. dist., marked ¼ S 13 B T.

SUBDIVISION OF T.32 S.,R.20 W.

CHAINS	
	A cedar, 8 ins. dia.,bears S.20°30'W.,194 lks. dist., marked ¼ S 14 B T.
52.00	A point, 275 ft. above hollow.
	Descend.
63.60	Hol low, 175 ft. deep, course SW.
	Ascend.
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 11-12-13 and 14, marked on brass cap
	T 32 S S 11 in NW.
	R 20 W S 12 in NE.
	S 13 in SE., and
	S 14 in SW., quadrant; from which
	A pinon, 8 ins.diam.,bears N.14°15'E.,51 lks. dist.,marked T 32 S R 20W S 12 B T.
	A pinon, 10 ins. diam.,bears S.41°35'E., 126 lks. dist.,marked T 32 S R 20W S 13 B T.
	A pinon, 15 ins.diam.,bears S.31°15'W.,416 lks. dist.,marked T 32 S R 20 W S 14 B T.
	A pinon, 12 ins. diam.,bears N.56°10'W.,308 lks. dist.,marked T 32 S R 20 W S 11 B T.
	Land, mountainous, drains S.
	Soil,clay and light sandy loam, stony, 4 th. rate, 6 to 12 ins. deep on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.

	N.89°59'E., on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect E. bdy. of Tp. 5,lks. S. of cor. of secs. 7-12-13 and 18, heretofore described.
	Thence I run
	S.89°57'W., bet, secs. 12 and13 on true line,
	Over mountainous land, through dense growth of mahogany.
	Descend.

CHAINS	
7.50	Ravine, 200 ft. deep, course N.
	Enter scattering timber, bears N. and S.
	Ascend.
15.50	Top of spur, 160 ft. above ravine, projects N.
	Descend.
23.00	Leave mahogany brush, bears N. and S.
27.60	Ravine, 275 ft deep, course N.15°W.
	Ascend.
40.06	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 12 on N. half, and S 13 on S. half; from which
	A mahogany, 6 ins. dia., bears N.87°15'E., 142 lks. dist., marked ¼ S 12 B T.
	A mahogany, 9 ins. diam., bears S.10°50'E., 199 lks. dist., marked ¼ S 13 B T.
	From this cor. a spring of fresh water bears N.21°15'E., 18.40 chns. dist.
	July 18: at this cor. I set off 21° 09'N., on the lat. arc; and at 12 h. 6 m. 1 m.t., observe the sun on the meridian, the resulting lat. is 38° 03'.
	Descend.
50.30	Ravine, 50 ft. deep, course N.15°E.
	Ascend.
73.00	Top of ridge, 250 ft. above ravine, bears NW. and SE.
	Descend.
80.12	The cor. of secs. 11-12-13 and 14.
	Land, mountain ous, slppes N.
	Soil, clay and light sandy loam, stony, 4th. rate, 8 to 12 ins. deep, on a subsoil of clay and loose rock.
	Timber scattering cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.
	Dense mahogany on 23.00 chs.

West, bet, secs. 11 and 14.

Over mountainous land, draining S., through scattering

CHAINS	
	timber and undergrowth of sage brush and bunch grass.
	Descend.
10.70	Hollow, 50 ft. below sec. cor., course S.
	Ascend.
30.00	Top of ridge, 225 ft. above hollow, bears N. and S.
	Descend.
38.15	Interset Utah - Nevada bdy. 67.13 chns.S.0°02'W., of the 228 th. mile post, heretofore described.
	Set an iron post, 3 ft, long, 2 ins. dia.,24 ins. in the ground, for closing sec. cor. of secs. 11 and 14, marked on brass cap
	UTAH on E. half, and
	CC NEVADA on W. half.
	T 32 S S 11 in NE.,and
	R 20 W S 14 in SE.,quadrant; from which
	A pinon, 6 ins. diam.,bears S.28°10'E.,177 lks. dist.,marked T 32 S R 20 W S 14 B T.
	There being no other tre s available for bearing trees, I raise a mound of stone 2½ ft. base, 2 ft. high E. of cor. Pits impracticable.
	Land mountainous, draining S.
	Soil, clay and light sandy loam, stony, 4th. rate, 9 to 12 ins. deep on a subsoil of clay and loose rock.
	Timber scattering cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.
	July 18, 1911.

July 19: At 8h. 6m. a.m.l.t., I set off 38° 03' on the lat. arc; 21°00'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 mountainous land, through scattering timber and undergrowth of sage brush and bunch grass.

Ascend.

CHAINS	
13.25	Top of ridge, 275 ft. above sec. cor.,bears NW. and SE.
	Descend.
23.80	Ravine, 325 ft. deep, course NE.
	Ascend.
30.75	Top of spur, 30 ft. above ravine, projects E.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 11 on W. half, and S 12 on E. half; from which
	A cedar, 10 ins. diam.,bears S,20°30'W.,355 lks. dist.,marked ¼ S 11 B T.
	A cedar, 10 ins. diam.,bears N.85° 10'E.,353 lks. dist.,marked ¼ S 12 B T.
46.90	Spring of fresh water, bears E. 185 lks. dist.
48.70	Hollow, 50 ft. deep, course S.80°E.
	Ascend.
80.00	Set an iron post, 3 ft. long. 2 ins. dia.,24 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked on brass cap
	T 32 S S 2 in NW.
	R 20 W S 1 in NE.
	S 12 in SE., and
	S 11 in SW., quadrant; from which
	A pinon, 9 ins. diam.,bears N.20° 25'E., 71 lks. dist.,marked T 32 S R 20 W S 1 B T.
	A pinon, 6 ins. diam., bears S.78°50'E.,42 lks. dist.,marked T 32 S R 20 W S 12 B T.
	A pinon, 6 ins. diam.,bears S.66°25'W., 34 lks. dist.,marked T 32 S R 20 W S 11 B T.
	A pinon, 7 ins. diam.,bears N.40° 25'W., 48 lks. dist.,marked T 32 S R 20 W S 2 B T.
	Land, mountainous, slopes S. and E.
	Soil,clay and light sandy loam, stony, 4th. rate, 8 to 12 ins. deep on a subsoil of clay and loose rock.
	Timber,scattering cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.

CHAINS

Cor. stands on top of spur, 350 ft. above hollow, projects SE.

N.89° 57'E., on a random line bet. secs. 1 and 12.

40.00 Set temp. ¼ sec. cor.

80.04 Intersect E. bdy. of Tp. 5 lks. S. of cor. of secs. 1-6-7 and 12, heretofore described.

Thence I run

S.89° 55'W., on a true line bet. secs. 1 and 12.

Over mountainous land, through heavy timber.

Ascend.

6.75 Top of ridge, 175 ft. above sec. cor., bears NW. and SE.

Enter scattering timber and undergrowth of sage brush and bunch grass, bears NW. and SE.

Descend.

22.25 Hollow, 300 ft. deep, course SE.

Ascend.

40.02 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 1 on N. half, and S 12 on S. half; from which

A pinon, 8 ins. diam., bears N.82° 15'W., 303 lks. dist., marked ¼ S 1 B T.

A pinon, 7 ins. diam., bears S.44° 45'W., 108 lks. dist., marked ¼ S 12 B T.

July 19: At this cor. I set off 20° 58'N., on the decl. arc. and at 12h. 6m. l.m.t., observe the sun on the meridian, the resulting lat. is 38° 03'.

44.00 Top of ridge, 150 ft. above hollow, bears N75°W. and SE.

Descend.

63.50 Ravine, 100 ft. deep, course SE.

Ascend.

80.04 The cor. of secs. 1-2-11 and 12.

Land, mountainous, slopes E.

Soil, clay and light sandy loam, stony, 4 th. rate, 8 to 12 ins. deep on a subsoil of clay and loose rock.

Timber, scattering cedars and pion pine.

CHAINS	
	Undergrowth of sage brush and bunch grass .
	Heavy timber on 6.75 chs.
	West, bet. secs. 2 and 11.
	Over mountainous land, through scattering timber and undergrowth of sage brush and bunch grass.
	Descend.
9.00	Ravine,40 ft. deep, course S.
	Ascend.
16,00	Top,of ridge,100 ft. above ravine, bears N.15°E. and S.15 °W.
	Descend.
38.20	Intersect Utah-Nevada bdy. 13,12 chs. dist. N.0°32'W., from the 228 th. mile post, heretofore described.
	Set an iron post,3 ft. long, 2 ins. dia.,24 ins. in the ground, for closing sec. cor. for secs. 2 and 11,marked on brass cap
	UTAH on E. half, and
	CC NEVADA on W. half.
	T 32 S S 2 in NE., and
	R 20W S 11 in SE., quadrant;from which
	A pinon, 6 ins. diam.,bears N.87°30'E., 240 lks. dist.,marked T 32 S R 20 W S 2 B T.
	A pinon, 6 ins.diam., bears S.72°35'E., 233 lks. dist.,marked T 32 S R20 W S 11 B T.
	Land, mountainous, drains S.
	Soil, clay and light sandy loam, stony, 8 to 12 ins. deep on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine.
	Undergrowth of sage brushand bunch grass.
	July 19,1911.
	July 20: At 8h. 6m. a.m.l.m.t., I set off 38° 03'on the lat. arc; 20° 49N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1 - 2-11 and12.

CHAINS	
	Thence I run
	N.0° 01'W., on a random line bet. secs. 1 and 2.
40.00	Set temp. ¼ sec. cor.
79.85	Intersect N. bdy. of Tp. 14 lks. W. of cor. of secs. 1-2-35 and 36, heretofore described.
	Thence I run
	S.0° 05'W., bet, secs 1 and 2.
	Over mountainous land, through scattering timber and undergrowth of sage brush and bunch grass.
	Ascend.
16.50	Top of spur,225 ft. above sec. cor., projects NE.
	Descend.
26.10	Ravine, 175 ft. deep, course N.75°E.
	Ascend.
39.85	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 2 on W. half, and S 1 on E. half; from which
	A pinon, 6 ins. diam., bears S.54°40'E.,135 lks. dist., marked ¼ S 1 B T.
	There being no other trees available for bearing trees, I raise a mound of stone 2½ ft. base, 2 ft. high W. of cor. Pits impracticable.
41.50	Top of ridge,225 f t. above ravine, bears E. and W.
	Descend.
60.80	Hollow,400 ft. deep, course E.
	Ascend.
70.25	Top of ridge,250 ft. above hollow, bears E. and W.
	Descend.
79.85	The cor. of secs. 1-2-11- and 12.
	Land. mountainous, slopes E.
	Soil,clay and light sandy loam, stony, 4 h.rate. 8 to 12 ins. deep, on asubsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.
	Note: Sky overcast at noon making it impossible to take solar observations. At 12h. 30m. commenced raining,

preventing further work during day.

July 20,1911.

GENERAL DESCRIPTION OF T.32 S.,R.20 W.

This township is mostly rough mountainous land, the soil of which, is clay and light sandy loam, with loose rock, on a subsoil of clay and loose rock, and can nearly all be classed as 3rd. and 4th. rate, and is covered with a growth of sage brush and nutritious grasses, and is only fit for grazing purposes.

This Tp. is generally covered with a scattering growth of cedars and pinon pine.

The only water found in this Tp. is in a wash, and flows through secs. 23 and 24; and at two springs in sec.12.

A portion of the State Line Mining District extends through this township, and gold, silver and lead are mined.

There areno settlers in this township.

Ralph Gurley
U.S.Transitman

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BOOK A-391

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 .....

For certificate of assistants see book "X" T. 31 S., R. 20 W.

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

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

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

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

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., 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 transitman see book "X", T. 31 S., R. 20 W.

..... 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, Feb.26, 1914. ~~xxxx~~

The foregoing field notes of the survey of the subdivisional lines of Township No. 32 South, Range 20 West of the Salt Lake Base and Meridian, Utah

executed by Ralph Gentry

under his special instructions dated August 6, 1910 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hall

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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U.

BOOK A-391

FILED
MAR 16 1912

FIELD NOTES

RE
OF THE SURVEY OF THE

SIXTH STANDARD PARALLEL SOUTH

THROUGH

RANGES 19 AND 20 WEST.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Ralph Gentry

In the capacity of U. S. Transitman *Surveyor, under instructions dated* August 6, *191*0, *issued by the United States Surveyor General to govern surveys included in Group No.* 3, *which were approved by the Commissioner of the General Land Office,* Sept. 12, *191*0, *pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced July 26, *1911*

Survey completed July 29, *1911*

6—151

BOOK A-391

INDEX DIAGRAM.

Township 30 South, *Ranges* 19 and 20 West.

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		19	20	21	22	23	24
		30	29	28	27	26	25
05 9	36 8	31 7	32 6	33 5	34 4	35 3	36 2

Sixth Standard Parallel South.

6—151

RESURVEY OF THE SIXTH STANDARD PARALLEL SOUTH THROUGH R.19 W.

CHAINS

Survey commenced July 26, 1911, and executed with the instrument described in book " J" of this survey.

I examine the adjustments of the transit, 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 the standard corner of townships 30 south, ranges 18 and 19 west, which I established Dec.14, 1910, in approximate latitude 38° 09' 30"N., longitude 113° 52' 05"W., I set off 38°09'30"N. on the lat. arc; 19°33'N. on the decl. arc, and at 4^h36^m p.m.l.m.t., determine a meridian with the solar and mark a point thereof, on a stone firmly set in the ground, 5 chns. N. of the cor.

At 11^h17^m p.m.l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined, on a peg driven in the ground, 5 chns. N. of my station.

July 26, 1911.

July 27: At 7 a.m., I lay off the azimuth of Polaris, 1' 29" to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 7h 36m a.m.l.m.t., I set off 38°09'30" on the lat.arc; 19°25'N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chains N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians, respectively about 0'11" west and 0'16" east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the transit are satisfactory.

RESURVEY OF THE SIXTH STANDARD PARALLEL SOUTH THROUGH R.19 W.

CHAINS	
	The magnetic bearing of the true meridian at 8h. a.m.l.m.t., is N.16° W., the angle thus determined gives the mag. decl. 16° E.
	From the standard cor. above described, I run West, on the S. bdy. of sec. 36
	Over gently rolling land sloping to the west, through heavy timber.
2.00	Wash, 6 lks. wide, 1 ft. deep, drains S.75° W.
27.60	Wash, 5 lks. wide, 1 ft. deep, drains SW.
	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 2nd. set, 40.01 chs.; the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for standard ¼ sec. cor., marked on brass cap ¼ S.36 on N. half; from which
	A pinon, 12 ins. diam., bears N.28° 40' W., 44 lks. dist. marked S C ¼ S 36 B T .
42.50	Wash, 4 lks. wide, 1 ft. deep, drains S.60° W.
54.30	Wash, 6 lks. wide, 2 ft. deep, drains SW.
	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 2nd. set, 80.02 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for standard cor. of secs. 35 and 36, marked on brass cap
	T 30 S S 35 in NW. and
	R 19 W S 36 in NE. quadrant; from which
	A pinon, 14 ins. diam., bears N.30° 35' W., 140 lks. dist., marked T 30 S R 19 W S 35 B T.
	A pinon, 12 ins. diam., bears N.70° 45' E., 66 lks. dist., marked T 30 S R 19 W S 36 B T.
	Land, rolling. slopes W.
	Soil, clay loam and grael, 6 to 8 ins. deep, 2nd. rate, on a subsoil of damp stiff clay and loose rock.

CHAINS	
	Timber, heavy pinon pine and cedars, on 80.00 chains.
	No undergrowth.
	July 27: At this cor. I set off 19°21'30" on the decl. arc; and at 12h. 6m.l.m.t., observe the sun on the meridian, the resulting lat. is 38°10'.

	West.on S. bdy.sec. 35.
	Over gently rolling land, sloping west, through heavy timber.
	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 2nd. set, 40.01 chs.; the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins in the ground, for standard ¼ sec. cor., marked on brass cap ¼ S 35 on N. Half; from which
	A cedar, 8 ins. diam., bears N.48°10'E., 86 lks. dist., marked S C ¼ S 35 B T .
70.00	Timber becomes scattering, bears N. and S. Enter undergrowth
73.40	Wash, 6 lks. wide, 1 ft. deep, drains SW.
	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 2nd. set, 79.99 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for standard cor. of secs. 34 and 35, marked on brass cap
	T 30 S S 34 in NW. and
	R19 W S 35 in NE., quadrant; from which
	A cedar, 8 ins. diam., bears N.84°45'E., 322 lks. dist., marked T 30 S R 19 W S 35 B T.
	No other trees being available for bearing trees, I dig pits, 24 x 18 x 12 ins., crosswise on each line, east and west, 3 ft., and north of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high N. of cor.
	Land , rolling, slopes W.

CHAINS	
	Soil,clay loam and gravel, 6 to 8 ins. deep,2nd. rate,on a subsoil of damp stiff clay and loose rock.
	Timber, heavy cedars and pinon pine, on 70.00 chns.,and scattering cedars and pinon pine, on 10 chs.
	Undergrowth, of sage brush and bunch grass on 10 chs.
	West, on S. bdy. of sec.34
	Over gentlyrolling land,sloping W.,through undergrowth of sage brush and bunch grass.
36.00	Enter wash,75 ft. deep, course S.60°W.
	Difference between measurement of 40.00 chs., by two sets of chainmen is3 lks.;position of middle point
	By 1st. set,40.01½ chs.
	By 2nd. set,39.98½ chs.,the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for standard ¼ sec. cor.,marked on brass cap ¼ S 34 on N. half;dig pits 18 x18 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.
50.60	Water course,4 lks. wide, 1 ft. deep, drains S.60°W.
62.00	Leave wash.
63.00	Enter main wash of valley,80 ft. deep,course N.30°W.
	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 2nd. set, 80.00 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for standard cor. of secs. 33 and 34, marked on brass cap
	T 30 S S 33 in NW., and
	R 19 W S 34 in NE. quadrant; dig pits 24 x 18 x 12 ins.,crosswise on each line, E. andW.,3 ft. dist., and N. of post 7 ft dist.; and raise a mound of earth, 4 ft. base, 2 ft high, N. of cor.
	Land, gently rolling, sloping W.
	Soil, clay loam and gravel, 6 to 8 ins. deep, 2nd. rate,

CHAINS	
	on a subsoil of damp stiff clay and loose rock.
	No timber.
	Undergrowth, of sage brush and bunch grass.
	July 27, 1911.

	July 28:At $8^h 6^m$ a.m.l.m.t.,I set off 38°09'30"N. on the lat. arc;19°11'N. on the decl. arc; and determine a meridian with the solar, at the standard cor. of secs.33 and 34.
	Thence I run
	West, on S. bdy.of sec. 33.
	Over rolling land, through undergrowth of sage brush and bunch grass.
5.70	Wagon road, bearsN.30°W. and S.30°E.
15.50	Water course, 10 lks. wide,5 ft. deep, drains N.30°W.
17.00	Leave main wash.
20.80	Wash, 5 lks. wide, 1 ft. deep, drains N.
	Difference between measurement of 40.00 chs.,by two sets of chainmen, is 4 lks.;,position of middle point
	By 1st. set, 39.98 chs.
	By 2nd. set, 40.02 chs, the mean of which is
40.00	Set an iron post, 3 ft. long,1 in dia.,26 ins. in the ground, for standard ¼ sec. cor.,marked on brass cap ¼ S 33 on N. half; dig pits 18 x 18 x12 ins.,E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft.base 1½ ft. high N. of cor.
	Descend from ¼ sec. cor.,bears NE.
42.50	Ravine,30 ft. deep, course NE.; ascend.
52.00	Spur, projects S. about 3 chs.,descend.
76.75	Wash, 4 lks. wide, 1 ft. deep,75 ft. below spur,courseSE. Ascend.
	Difference between measurement of 80.00 chs.,by two sets of chainmen; is6 lks.; position of middle point
	By 1s. set, 79.97 chs.
	By 2nd. set, 80.03 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. dia.,24 ins. in the

CHAINS	
	ground, for standard cor. of secs. 32 and 33, marked on brass cap
	T 30 S S 32 in NW. and
	R 19 W S 33 in NE.,quadrant; from which
	A cedar, 8 ins. diam.,bears N.63° 45'W.,373 lks. dist.,marked T 30 S R 19 W S 32 B T .
	A cedar, 8 ins. diam.,bears N.52° 10'E.,398 lks. dist.,marked T 30 S R 19 W S 33 B T .
	Land, rolling, slopes E.
	Soil, clay loam and gravel, 6 to 8 ins. deep, 2 nd. rate, on a subsoil of damp stiff clay and loose rock.
	Timbe r scattering cedars and pinon pine, on 3.75 chs.
	Undergrowth, of sage brush and bunch grass,on 80.00 chs.
	West, on S. bdy. of sec. 32.
	Over rolling land,sloping E., through scattering timber, and undergrowth of sage brush and bunch grass.
16.00	Enter ravine,50ft.deep, course NE.
33.10	Wash,4 lks. wide, 1 ft. deep, drains NE.
	Thence along bottom of ravine.
36.00	Recross wash, drains SE.
	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 2nd. set, 39.98 chs.;the mean of which is
40.00	Falls in wash,4 lks. wide, 1ft. deep, drains NE.
40.25	Set an iron post, 3 ft. long,1 in. dia.,26 ins. in the ground, for witness cor. to standard ¼ sec. cor.,marked on brass cap T 30 S R 19 W WC ¼ S 32 on N. half; from which
	A cedar, 8 ins. diam.,bears N.23°30'W.,90 lks. dist., marked WC ¼ S 32 B T .
48.00	Leave ravine.Enter heavy timber, bears N. and S.
55.00	Enter ravine, 50 ft. deep, course NE.
59.50	Wash,4 lks. wide, 2 ft. deep, drains NE.
64.00	Leave ravine.

RESURVEY OF THE SIXTH STANDARD PARALLEL SOUTH THROUGH R.19 W.

CHAINS	
	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 2nd. set. 80.01 chs,; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. dia.,24 ins. in the ground, for standard cor. of secs. 31 and 32, marked on brass cap
	T 30 S S 31 in NW.,and
	R 19 W S 32 in NE.,quadrant; from which
	A pinon, 10 ins. diam.,bears N.56 25'W.,185 lks. dist.,marked T 30 S R 19 W S 31 B T.
	A dedar, 8 ins. diam.,bears N.67 40'E., 70 lks. dist.,marked T 30 S R 19 W S 32 B T .
	Land, rolling, slopes E.
	Soil, clay and sandy loam, and gravel, 6 to 8 ins. deep 2nd. rate, on a subsoil of damp stiff clay and loose rock.
	Timber,scattering growth of cedars and pinon pine, on 48.00 chs., and a heavy growth on 32 chs.
	Undergrowth of sage brush and bunch grass, on 80.00 chs.
	July28: At this cor. I set off 19°08'N. on the decl. arc; and at $12^h 6^m$ l.m.t., observe the sun on the meridian, the resulting lat. is 38°10'.

	West, on S. bdy. of sec.31.
	Over rolling land,slopes E., through heavy timber.
	Difference between measuremeht of 40.00 chs.,by two sets of chainmen, is 2 lks.; position of middle point
	By 1st. set, 39.99 chs.
	By 2nd. set, 40.01 chs.; the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for standard ¼ sec. cor., marked on brass cap ¼ S 31 on N. half; from which
	A pinon, 14 ins, diam., bears N.,108 lks. dist., marked SC ¼ S 31 B T.
66.00	Wash, 5 lks. wide, 2 ft. deep, drains NE.
	Difference between measurement of 80.00 chs., by two sets

CHAINS	
	of chainmen, is 4 lks.; position of middle point
	By 1st. set, 80.02 chs.
	By 2nd. set, 79.98 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. dia.,24 ins, in the ground, for standard cor. of Tps. 30 S., Rs.19 and 20 W., marked on brass cap
	T 30 S on N. half,
	R 20 W S 36 in NW., and
	R 19 W S 31 in NE.,quadrant; from which
	A pinon, 8 ins. diam.,bears N.20° W.,82 lks.
	dist.,marked T 30 S R 20 W S 36 B T.
	A cedar,12 ins.,diam.,bears N.30° 20'E.,84 lks.
	dist.,marked T 30 S R 19 W S 31 B T.
	Land,rolling, slopes E.
	Soil, clay and sandy loam, and gravel, 6 to 8 ins, deep 2nd. rate, on a subsoil of damp stiff clay and loose rock.
	Timber, heavy cedars and pinon pine, on 80.00 chs.
	No undergrowth.
	July 28, 1911.

July 29:At 8h. 6m. a.m.l.t.,I set off 38° 09'30"on the lat. arc; 18°57'N. on the decl. arc; and determine a meridian with the solar, at the standafd cor. of Tps.30S. Rs.19 and 20 W.

Thence I run

West, on S. bdy. of sec. 36.

Over rolling land, sloping E, through heavy timber

17.50 Wash, 5 lks. wide,2 ft. deep, course N.15°E.

Ascend ridge.

Difference between measurement of 40.00 chs.,by two sets of chainmen, is 6 lks.; position of middle point

By1st. set, 40.03 chs.

By 2nd. set,39.97 chs.,The mean of which is

40.00 Set an iron post, 3 ft. long,1 in. dia.,26 ins. in the ground, for standard $\frac{1}{4}$ sec. cor.,marked on brass cap $\frac{1}{4}$ S 36 on N. half; from which

CHAINS.	
	A pinon, 9 ins. diam.,bears N.7°45'W.,58 lks. dist., marked SC ¼ S 36 B T.
	Cor. stands on E. slope of ridge, 118 ft. above wash.
72.00	Top of ridge, 450 ft. above ¼ sec. cor.,bears N. and S. Descend
	Difference between measurement of 80.00 chs.,by two sets of chainmen, is 10 lks.; position of middle point
	By 1st. set, 80.05 chs.
	By 2nd. set, 79.95 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. dia.,24 ins. in the ground, for standard cor. of secs. 35 and 36, marked on brass cap
	T 30 S S 35 in NW., and
	R 20 W S 36 in NE.,quadrant; from which
	A pinon, 12 ins. diam., bears N.20°W.,82 lks. dist.,marked T 30 S R 20 W S 35 B T.
	A cedar, 12 ins. diam.,bears N.30° 20'E.,84 lks. dist:,marked T 30 S R 20 W S 36 B T.
	Land,rolling and mountainous, rolling land on 17.50 chs.
	Soil,Light sandy and clay loam, and gravel, 6 to 8 ins. deep, on a subsoil of clay and loose rock.
	Timber, heavy growth of cedars and pinon pine,on 80.00chs.
	Scattering undergrowth of sage brush and bunch grass.
	July 29 : At this cor.,I set off 18°54'N. on the decl. arc; and at 12h.6m. l.m.t., observe the sun on the meridian, the resulting lat. is 39°10'.

	West, on S. bdy. of sec. 35.
	Over mountainous land,through timber, and scattering undergrowth of sage brush and bunch grass.
	Descend.
30.30	Hollow, 350 ft. deep, course N.25°E.
	Ascend.
	Difference between measurement of 40.00 chs.,by two sets of chainmen, is6 lks.;position of middle point
	By 1st. set, 39.97 chs.
	By 2nd. set, 40.03 chs.; the mean of which is

CHAINS	
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for standard ¼ sec. cor., marked on brass cap ¼ S 35 on N. half; from which A pinon, 8 ins. diam., bears N.62°50'W.,65 lks.dist., marked SC ¼ S 35 B T.
42.08	Intersect the Utah-Nevada boundary 17.33 chs. dist.S.0°10'W. of the 220th. mile post, heretofore described. Set an iron post, 3 ft. long. 3 ins. dia., 24 ins. in the ground,for standard closing cor.,of T.30 S.,R.20 W., marked on brass cap Utah on E.,and., CC Nevada, on W. half. T 30 S R 20 W S 35 in NE. quadrant; from which A pinon, 8 ins. diam.,bears N.63°45'E.,171 lks. dist.,marked T 30 S R 20 W S 35 B T. Land, mountainous. Soil, light sandy loam and loose rock, 4th. rate, on a s subsoil of clay and loose rock. Timber, cedars and pinon pine. Undergrowth, scattering sage brush and bunch grass. July 29,1911.

General description of the 6th Stand.Par.S.through R.20 W.

Through Range 19 west this line runs across Hamblin Valley which is rolling and broken by ravines draining N.and NE.

The land to the N.is rolling,and on the east and west side of the Tp.is covered with a heavy growth of cedars and pinon pine,while the centre of the Tp.has a dense growth of sage brush and bunch grass.

The land will produce crops with irrigation and is excellent grazing land,affording a winter range for many sheep.

The line through R.20 W.runs across mountains draining east into Hamblin Valley.The land north is mountainous and broken and is covered with a medium growth of cedars

and pinon pine,and is unfit for any purpose except grazing. There are several springs found in the bottom of the hollows along this line.

Ralph Gindy
U.S.Transitman.

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Page

BOOK A-391

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 .....

For certificate of assistants see book "V" T. 31 S., R. 19 W.

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

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

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

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

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, 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 transitman see book "V" T. 31 S., R. 19 W.

_____ 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, Feb. 26, 1914.

The foregoing field notes of the survey of the Sixth Standard Parallel South, through Ranges 19 and 20 West of the Salt Lake Base and Meridian, Utah,

executed by Ralph Gentry

under his special instructions dated August 6, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hall

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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V.
BOOK A-391

FIELD NOTES

OF THE SURVEY OF THE

WEST BOUNDARY

OF

TOWNSHIH 31 SOUTH, RANGE 19 WEST.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Ralph Gentry

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* August 6, *1910,*

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

Group No. 3, *which were approved by the Commissioner of the General Land*

Office, Sept. 12, *1910, pursuant to authority contained in the Act of*

Congress dated ....., *191*....

Survey commenced July 30, *1911*

Survey completed August 2, *1911*

6—151

W. Kelly - 6-30-01
Closings 5-64

BOOK A-591

INDEX DIAGRAM.

Township 31 South, *Range* 19 West

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4	19	20	21	22	23	24
3	30	29	28	27	26	25
2	31	32	33	34	35	36

Survey commenced July 30,1911,and executed with the instrument described in book "J." of this survey.
I examine the adjustments of the transit,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 the cor.of Tps.31 and 32 S.,Rs.19 and 20 W.,heretofore described,in approximate latitude 38°04'N.,longitude 113°58'39"W.;I set off 38°04'N.on the lat.arc,18°38'N. on the decl.arc and at 4h.06m.,p.m.,l.m.t.,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.
At 11h.01m.,p.m.,by my watch,which is correct for l.m.t., I observe Polaris at eastern elongation,in accordance with Manual of Instructions,and mark a point in the line thus determined,on a peg driven in the ground,5 chs.N.of my station.

July 30.1911.

July 31:At 7 a.m.,l.m.t.,I lay off the azimuth of Polaris,1°29'to the west,and mark the meridian thus determined ,by cutting a small groove in the stone set last evening,on which the meridian falls 0.4 ins. east of the mark determined by the solar.
At 8h.6m.,a.m.,l.m.t.,I set off 38°04'N.on the lat.arc, 18°28'N.on the decl.arc;and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station;this mark falls 0.3 ins.east of the meridian established by the Polaris observation.
The solar apparatus by p.m.and a.m.observations defines positions for meridians,respectively about 0'21"west and 0'16"east of the meridian established by the Polaris observations;therefore,I conclude that the adjustments of the transit are satisfactory.

CHAINS	
	The magnetic bearing of the true meridian at 8h.30m. a.m.,is N.16°W;the angle thus determined gives the mag.decl.16°E.
	From the Tp.cor.already described,I run North,bet.secs.31 and 36.,on West Bdy.of Tp.
	Descend over rolling land,through heavy timber.
7.85	Hollow,25 ft.deep,course SE.
	Ascend.
38.75	Spur,projects E.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap ¼ S 36 on W.half,S 31 on E.half,from which
	A pinon,8 ins.diam.,bears S.63°50'E.,53 lks. dist.,marked ¼ S 31 BT.
	A pinon,11 ins.diam.,bears N.64°20'W.,59 lks. dist.,marked ¼ S 36 BT.
54.40	Stream,6 lks.wide,3 ins.deep,in bottom of Choke Cherry Wash,10 ft.deep,30 lks.wide,course NE.175 ft.below spur.
	Over gently rolling land.
75.00	Wash,15 lks.wide,12 ins.deep,course SE.
80.00	Set an iron post,3 ft.long,3 ins.diam.,24 ins. in the ground,for the cor. of secs.25-30-31 and 36,marked on brass cap,T 31 S in N.half,
	R 20 W S 25 in NW.,
	R 19 W S 30 in NE.,
	S 31 in SE. and S 36 in SW.quadrant,from which
	A pinon,9 ins.diam.,bears N.8°15'E.,28 lks. dist.,marked T 31 S R 19 W S 30 BT.
	A pinon,8 ins.diam.,bears S.68°10'E.,34 lks. dist.marked T 31 S R 19 W S 31 BT.
	A pinon,9 ins.diam.,bears S.53°50'W.,93 lks. dist.,marked T 31 S R 20 W S 36 BT.
	A pinon,8 ins.diam.,bears N.56°35'W.,28 lks. dist.,marked T 31 S.R 20 W S 25 BT.

CHAINS	
	Land,rolling.
	Soil,sandy loam and loose rock;subsoil,loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and bunch grass.
	Heavily timbered land on 80.00 chs.
	July 31; At this cor.I set off18°25'N.on the decl.arc, and at 12h.06 m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°05'N.
	North,bet.secs.25 and 30.
	Descend over gently rolling land through heavy timber.
6.70	Wash,3 lks.wide,12 ins.deep,course E.
22.00	Wash,4 lks.wide,12 ins.deep,drains E.
	Ascend.
40.00	Spur,projects E.60 ft.above wash:Descend.
	Set an iron post,3 ft.long,1 in.diam.,in a mound of earth and stone,for the ¼ sec.cor.,marked on brass cap, ¼ S 25 on W half,S 30 on E.half,from which
	A pinon,9 ins.diam.,bears S.60°50'E.,34 lks. dist.,marked ¼ S 30 BT.
	A cedar,10 ins,diam.,bears S.80°W.,19 lks.dist., marked ¼ S 25 BT.
	Note. On account of natural obstacles it is impossible to set this post over 15 ins. in the ground.
44.00	Bottom of depression,drains E.28 ft.below ¼ sec.cor.
	Ascend.
66.00	Spur,projects E.20 ft.above depression:descend.
80.00	Set an iron post,3 ft.long,3 ins.diam.,24 ins. in the ground,for the cor. of secs.19-24-25 and 30,marked on brass cap,T 31S on N.half,
	R 20 W S 24 in NW.,
	R 19 W S 19 in NE.,
	S 30 in SE.,and S 25 in SW.quadrant,from which

CHAINS	
	A cedar,10 ins.diam.,bears N.80°25'E.,46 lks. dist.marked T 31 S R 19 W S 19 BT.
	A pinon,10 ins.diam.,bears S.42°55'E.,73 lks. dist.,marked T 31 S R 19 W S 30 BT.
	A pinon,6 ins.diam.,bears S.57°20'W.,39 lks. dist.,marked T 31 S R 20 W S 25 BT.
	A cedar,10 ins,diam.,bears N.84°25'W.,17 lks. dist.,marked T 31 S R 20 W S 24 BT.
	Land,rolling hills.
	Soil,sandy loam and loose rOck:subsoil,loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and bunch grass.
	Land covered with heavy timber on 80.00 chs.
	July 31.1911.
	August 1: At 7h.6m.,a.m.,l.m.t.,I set off 38°06'N.on the lat.arc,18°15'N.on the decl.arc,and determine a meridian with the solar at the cor.of secs.19-24-25 and 30.
	Thence I run
	North,bet.secs.19 and 24.
	Descend,over rolling hills,through heavy timber.
22.90	Wash,4 lks.wide,2 ft.deep,drains N.75°E.150 ft.below sec.cor:ascend.
32.00	Spur,projects E.90 ft.above wash:descend.
39.60	Wash,4 lks.wide,1 ft.deep,drains N.80°E.85 ft.below spur:ascend.
40.00	Set an iron post,3 ft.long,1 ins.diam.,26 ins. in the ground,for the ¼ sec.cor.,marked on brass cap ¼ S 24 on W.half,S 19 on E.half,from which
	A pinon,12 ins,diam.,bears N.33°15'E.,53 lks. dist.,marked ¼ S 19 BT.
	A cedar,10 ins.diam.,bears N.43°20'W.,18 lks. dist.,marked ¼ S 24 BT.
52.00	Spur,projects E.100 ft.above wash:descend.

CHAINS	
69.40	Wash,2 lks.wide,12 ins.deep,drains N.75°E.125 ft.below spur:ascend.
80.00	Set an iron post,3 ft.long,3 ins.diam.,24 ins. in the ground,for the cor. of secs.13-18-19 and 24,marked on brass cap, T 31 S on N.half, R 20 W S 13 in NW., R 19 W S 18 in NE., S 19 in SE.,and S 24 in SW.quadrant,from which A pinon,10 ins.diam.,bears N.40°35'E.,36 lks. dist.,marked T 31 S R 19 W S 18 BT. A pinon,9 ins.diam.,bears S.76°E.,29 lks.dist., marked T 31 S R 19 W S 19 BT. A pinon,8 ins.diam.,bears S.72°30'W.,26 lks. dist.,marked T 31 S R 20 W S 24 BT. A pinon,8 ins.diam.,bears N.29°35'W.,39 lks. dist.,marked T 31 S R 20 W S 13 BT. Land,rolling hills. Soil,loose rock and sandy loam,4th rate:subsoil,loose rock. Timber,cedar and pinon. Undergrowth,sage brush and grass. Heavily timbered land on 80.00 chs. August 1: At this cor. I set off 18°11'N.on the decl. arc,and at 12h.6m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°07'N.
	North,bet.secs.13 and 18.
	Over rolling hills,through heavy timber.
1.20	Wash,4 ft.wide,1 ft.deep,drs.NE.8 ft.below cor.
16.00	Top of ridge,bears NE.and SW.80 ft.above sec.cor:descend.
22.70	Wash,3 lks.wide,12 ins.deep,drains N.75°E.,95 ft.below top of ridge:asc.
36.00	Top of ridge,bears NE.and SW.,75 ft.above wash:desc.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap ¼ S 13

CHAINS	
	on W.half, S 18 on E.half, from which
	A cedar, 18 ins. diam., bears N.46°15'E., 13 lks. dist., marked ¼ S 18 BT.
	A pinon, 9 ins. diam., bears S.86°15'W., 25 lks. dist., marked ¼ S 13 BT.
42.50	Wash, 5 lks. wide, 12 ins. deep, drains N.60°E., 50 ft. below top of ridge: asc.
52.50	Ravine, drains E.
73.50	Top of spur, projects E., 140 ft. above wash: desc.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for the cor. of secs. 7-12-13 and 18, marked on brass cap,
	T 31 S on N.half,
	R 20 W S 12 in NW.,
	R 19 W S 7 in NE.,
	S 18 in SE., and S 13 in SW. quadrant, from which
	A pinon, 9 ins. diam., bears N.11°40'E., 48 lks. dist., marked T 31 S R 19 W S 7 BT.
	A pinon, 8 ins. diam., bears S.39°05'E., 9 lks. dist., marked T 31 S R 19 W S 18 BT.
	A pinon, 9 ins. diam., bears S.42°50'W., 41 lks. dist., marked T 31 S R 20 W S 13 BT.
	A pinon, 14 ins. diam., bears N.42°W., 38 lks. dist., marked T 31 S R 20 W S 12 BT.
	Land, rolling hills.
	Soil, sandy loam and loose rock, 4th rate; subsoil, loose rock.
	Timber, cedar and pinon.
	Undergrowth, sage brush and bunch grass.
	Heavily timbered land on 80.00 chs.
	August 1, 1911.

August 2; At 8h.6 m., a.m., l.m.t., I set off 38°08'N. on the lat. arc, 17°58'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 7-12-13 and 18.

CHAINS	
	Thence I run
	North,bet.secs. 7 and 12.
	Descend over rolling hills through heavy timber.
.15	Wash,3 lks.wide,12 ins.deep,drains SE·3 ft.below cor. asc.
17.50	Top of spur,projects E.,165 ft.above wash:desc.
26.30	Wash,5 lks.wide,12 ins.deep,drains NE.190 ft.below top of spur:asc.
40.00	Spur,projects E.,55 ft.above wash:desc.
	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground,for the ¼ sec.cor.,marked on brass cap ¼ S 12 on W.half,S 7 on E.half,from which
	A pinon,6 ins.diam.,bears S.84°20'E.,12 lks. dist.,marked ¼ S 7 BT.
	A pinon,7 ins.diam.,bears S.82°05'W.,8 lks. dist.,marked ¼ S 12 BT.
52.00	Wash,3 lks.wide,12 ins.deep,drains NE.,84 ft.below the cor:asc.
72.00	Top of spur,projects NE.,60 ft.above wash:desc.
80.00	Set an iron post,3 ft.long,3 ins.diam.24 ins. in the ground,for the cor. of secs.1-6-7 and 12,marked on brass cap,
	T 31 S on N.half.,
	R 20 W.S 1 in NW.,
	R 19 W S 6 in NE.,
	S 7 in SE.and S 12 in SW.quadrant,from which
	A cedar,8 ins.diam.,bears N.76°15'E.,53 lks. dist.,marked T 31 S R 19 W S 6 BT.
	A pinon,10 ins.diam.,bears S.48°05'E.,75 lks. dist.,marked T 31 S R 19 W S 7 BT.
	A cedar,10 ins.diam.,bears S.17°35'W.,67 lks. dist.,marked T 31 S R 20 W S 12 BT.
	A pinon,10 ins.diam,,bears N.5°55'W.72 lks. dist.,marked T 31 S R 20 W S 1 BT.

CHAINS	
	Land,rolling hills.
	Soil,sandy loam and loose rock,4 th rate:subsoil,loose rock.
	Timber,cedar and pinon.
	Undergrowth,sage brush and bunch grass.
	Heavily timbered land on 80.00 chs.
	August 2:At this cor.I set off 17°56'N.on the decl.arc, and at 12h.6m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°09'N.
	North,bet.secs.1 and 6.
	Descend over rolling hills,through heavy timber.
2.50	Wash.3 lks.wide,12 ins.deep,course E.,9 ft.below the cor:asc.
20.00	Top of spur,projects E.,95 ft.above wash:desc.
23.90	Wash,5 lks.wide,12 ins.deep,drains NE.70 ft.below top of spur:asc.
32.00	Top of spur,projects E.,35 ft.above wash:desc.
35.30	Wash,4 lks.wide,12 ins.deep,drains NE.,45 ft.below top of spur:asc.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground,for the ¼ sec.cor.,marked on brass cap,¼ S 1 on W.half,S 6 on E.half,from which A pinon,10 ins.diam.,bears S.3°50'E.,40 lks. dist.,marked ¼ S 6 BT. A pinon,12 ins.diam.,bears S.32°10'W.,27 lks. dist.,marked ¼ S 1 BT.
44.00	Top of spur,projects NE.,15 ft.above ¼ sec.cor:desc.
50.30	Wash,3 lks.wide,12 ins.deep,drains NE.,50 ft.below top of spur.
55.75	Top of spur,projects NE.,40 ft.above wash:desc.
70.25	Wash,5 lks.wide,6 ins.deep,drains E.,40 ft.below top of spur.
88.00	Top of spur,projects E.,50 ft.above wash:desc.

Chains	
110.01	Intersect the Sixth Standard Parallel South ,5.64 chs. west of the Stand.sec.cor.of secs.31 and 36,T.30 s.,Rs. 19 and 20 W.,heretofore described. Set an iron post post,3 ft.long,3 ins.diam.,24 ins. in the ground,for the closing cor.T.31 S., Rs.19 and 20 W. mkd.on brass cap T 30 S S 36 CC R 20 W S 31 on N.half, S 6 in SE.,and S 1 in SW.quadrant,from which A pinon,10 ins.diam.,bears S.72°35'E.,73 lks. dist.,marked T 31 S R 19 W S 6 BT. A pinon,11 ins.diam.,bears S.49°35'W.,70 lks. dist.,marked T 31 S R 20 W S 1 BT. Land,rolling hills, Soil,sandy loam and loose rock,4th rate:subsoil,loose rock. Timber,cedar and pinon. Undergrowth,sage brush and bunch grass. Heavily timbered land on 110.01 chs. August 2,1911. U.S.Transitman.
	For general description of Tp.see subdivisions of T. 31 S.,R.19 W.

TABLE OF LATITUDE AND DEPARTURES OF T.31 S.,R.19 W.

Line designated	True bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
South Bdy. of Tp.	N.89°58'W.	473.76	.27			473.76
West Bdy. of Tp.	North	510.01	510.01			
6th Stand.Par.S.	East	473.55			473.55	
East Bdy. of Tp.	South	510.77		510.77		
Convergency					.57	
	Totals		510.28	510.77	474.12	473.7
				510.28	473.76	
	Error in lat.and dep.			.49	.36	

Ralph Gurley

U.S.Transitman

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BOOK A-391

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Ralph Gentry, U. S. ~~Surveyor~~ Transitman, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of: retracement E.& S. and survey N.bdy.T.34 S.R.20 W.; survey W.& N., and ret.S.& E. bdrs. T. 33 S., R. 19 W.; survey W. & N.bdrs.T.32 S., R. 19 W.; N.bdy. T.33 S., R. 20 W.; N.bdy.T.32 S., R. 20 W.; W.bdy.T.31 S., R. 19 W.; 6th St.Par.S., through Rs.19 and 20 W.; and retracement Utah-Nevada Bdy.line through Tps.31,32,33, and 34 S., R. 20 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 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.	
E. R. Bunting	April 2,1911	August 29,1911	Chainman
D. M. Jones	April 2,1911	August 29,1911	Chainman
A. Walters	April 2,1911	August 29,1911	Moundman
Sidney Reese	April 2,1911 June 1,1911	April 19,1911 August 29,1911	Axeman
J. Gillyard	April 2,1911	August 29,1911	Flagman

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

Ralph Gentry
U.S. Transitman. ~~U.S. Surveyor.~~

6—2701

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

I, Ralph Gentry, U. S. ~~Surveyor~~ Transitman, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 6 day of August, 1910, 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 ret.E.& S. and survey N.bdy.T.34 S., R. 20 W.; survey W.& N., and ret.S.& E.bdrs. T.33 S., R. 19 W.; survey W.& N.bdrs.T.32 S.R.19 W.; N.bdy.T.33 S., R. 20 W.; N.bdy.T.32 S., R. 20 W.; W.bdy.T.31 S., R. 19 W.; 6th St.Par. S.through Rs.19 and 20 W.; and ret.Utah-Nevada Bdy.line through Tps. 31,32,33, and 34 S., R. 20 W. of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes in books J.K.M.P.R.S.U.& V. 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.

Ralph Gentry
U.S.Transitman ~~U. S. Surveyor.~~

Subscribed by said Ralph Gentry, and sworn to before me this 4 day of April, 1912

Thomas Kell
U.S.Surveyor-General for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Salt Lake City, Utah, Feb.26, 1914.

The foregoing field notes of the survey of the West Boundary of Township No. 31 South, Range No. 19 West of the Salt Lake Base and Meridian, Utah,

executed by Ralph Gentry under his special instructions dated August 6, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kell
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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apparent corrections in notes

4—679

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BOOK A-391

FILED
MAR 16 1912

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS OF T.31 S., R.19 W.

Of the Salt Lake Base and *Meridian,*

In the State of Utah.

EXECUTED BY

Ralph Gentry.

In the capacity of U. S. ~~*Surveyor*~~ Transitman *under instructions dated* August 6, *1910, issued by the United States Surveyor General to govern surveys included in Group No.* 3, *which were approved by the Commissioner of the General Land Office,* Sept. 12, 1910, ~~191~~, *pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced August 2, *1911*

Survey completed August 21, *1911*

6—151

Subs - 61 - 38 - 51
Clas - 60 - 16

BOOK A-391

INDEX DIAGRAM.

Township 31 SOUTH, *Range* 19 WEST.

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7	54	8	39	9	2 ~~36~~	10	19	11	8	12
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Survey commenced August 2,1911,and executed with the instrument described in book " J" of this survey.
I examine the adjustments of the transit,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 the cor. of secs.1-2-35 and 36,Tps.31 and 32 S.,R. 19 W.,heretofore described,in approximate latitude 38°04'N.,longitude,113°53'W.;I set off 38°04'N.on the lat.arc,17°53'N.on the decl.arc,and at 4h.6m.,p.m.,l.m.t.,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.
At 10h.50m.,p.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with Manual of Instructions, and mark a point in the line thus determined,on a peg driven in the ground,5 chs.N.of my station.

August 2,1911.

August 3:At 7 a.m.,l.m.t.,I lay off the azimuth of Polaris,1°29'to the west,and mark the meridian thus determined,by cutting a small groove in the stone set last evening,on which the meridian falls 0.4 ins.east of the mark determined by the solar.
At 8h.6m.,a.m.,l.m.t.,I set off 38°04'N.on the lat.arc, 17°43'N.on the decl.arc;and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station;this mark falls 0.3 ins.east of the meridian established by the Polaris observation.
The solar apparatus by p.m.and a.m.observations defines positions for meridians,respectively about 0'21"west and 0'16"east of the meridian established by the Polaris observations;therefore I conclude that the

CHAINS	
	adjustments of the transit are satisfactory.
	The magnetic bearing of the true meridian at 8h.30m., a.m.,is N.16°W.;the angle thus determined gives the mag.decl.16°E.
	From the cor.already described,I run N.0°01'W.,bet,secs.35 and 36.
	Over gently rolling land,through dense undergrowth.
5.00	Wash,3 chs.wide,10 ft.deep,drains NE.
37.30	Wash,4 chs.wide,15 ft.deep,drains NE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground,for the ¼ sec.cor.,marked on brass cap,¼ S 35 on W.half,S 36 on E.half,and raise a mound of stone, 2 ft.base,1½ ft.high W.of cor.
	Pits impracticable.
69.90	Wash,6 chs.wide,15 ft.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins. in the ground,for the cor, of secs.25-26-35 and 36,marked on brass cap,
	T 31 S S 26 in NW.,
	R 19 W.S 25 in NE.,
	S 36 in SE.,and S 35 in SW.quadrant,and raise a mound of stone ,2 ft.base,1½ ft.high W.of cor.
	Pits impracticable.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 ins.deep,2 nd rate:on a subsoil of wet stiff clay.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.00 chs.

	S.89°58'E.,on a random line,bet.secs.25 and 36.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,11 lks.N.of the cor. of secs. 19-24-25 and 30,on east Bdy.of Tp. heretofore described.

CHAINS	
	Thence I run
	N.89°53'W.,on a true line
	Bet.secs.25 and 36.
	Over gently rolling land,through dense undergrowth.
4.00	Wash,4 chs.wide,15 ft.deep,drains SW.
24.00	Descend into ravine,drains NW.
40.05	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground,for the ¼ sec.cor.,marked on brass cap,¼ S 25 on N.half,S 36 on S.half,and dig pits,18x18x12 ins. E.and W.of post,3 ft.dist.,and raise a mound of earth 3½ ft.base,1½ ft.high,N.of cor.
41.50	Road,bears NW.and SE.
51.20	Wash,10 lks.wide,4 ft.deep,drains NW.,in bottom of ravine.
62.60	Road,bears NW.and SE.
76.70	Wash,5 lks.wide,12 ins.deep,drains NE.
78.00	Ascend from ravine.
80.10	The cor. of secs. 25-26-35 and 36.
	Land,rolling,slopes east.
	Soil,clay loam and gravel,6 ins.deep,2nd rate,on a subsoil of damp,stiff clay.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.10 chs.

	N.0°01'W.,bet.secs.25 and 26.
	Over gently rolling land through dense undergrowth.
5.00	Enter ravine,drains NW.
23.00	Wash,10 lks.wide,4 ft.deep,drains NW.,in bottom of ravine.
25.40	Road,bears NW.and SE.
30.00	Road,bears NW.and SE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 26

CHAINS	
	on W.half,S 25 on E.half,raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Pits impracticable.
50.00	Wash,3 lks.wide,12 ins.deep,drains W.
51.00	Leave ravine.
62.50	Road,bears SW.and NE.
77.10	Wash,3 chs.wide,10 ft.deep,drains W.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins. in the ground,for the cor, of secs.23-24-25-and 26,marked on brass cap,
	T 31 S S 23 in NW.,
	R 19 W S 24 in NE.,
	S 25 in SE.,and S 26 in SW.quadrant,dig pits 18x18x12 ins.in each sec.,5½ ft.dist.;and raise a mound of earth 4 ft.base,2 ft.high W.of cor.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 ins.deep,2nd rate:on a subsoil of moist stiff clay.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.00 chs.

	S.89°53'E.,on a random line,bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
80.06	Intersect E.bdy.of Tp.7 lks.N.of the cor. of secs. 19-24-25 and 30, heretofore described.
	Thence I run
	N.89°50'W.,on a true line
	Bet.secs.24 and 25.
	Over gently rolling land through dense undergrowth.
9.70	Wash,2 chs.wide,6 ft.deep,drains SW.
40.03	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground,for the ¼ sec.cor,marked on brass cap,¼ S 24 on N.half,S 25 on S.half,dig pits 18x18x12 ins.E.and W.

CHAINS	
	of post,3 ft.dist.;and raise a mound of earth 3½ ft. base,1½ ft.high N.of cor.
53.00	Road,bears NE.and SW.
69.50	Wash,1ch.wide,5 ft.deep,drains SW.
80.06	The cor. of secs.23-24-25 and 26.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 ins.deep,2nd rate,on a subsoil of moist stiff clay.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth om 80.06 chs.
	August 3: At this cor.I set off 17°40'N.on the decl. arc,and at 12h.6m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°06'N.

	N.0°01'W.bet.secs. 23 and 24.
	Over gently rolling land,through dense undergrowth.
28.60	Wash,3 chs.wide,10 ft.deep,drains W.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 23 on W.half,S 24 on E.half;dig pits 18x18x12 ins.N.and S. of the 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.diam.,24 ins. in the ground for the cor. of secs. 13-14-23 and 24,marked on brass cap,
	T 31 S S 14 in NW.
	R 19 W S 13 in NE.
	S 24 in SE.,and
	S 23 in SW.quadrant,dig pits 18x18x12 ins.in each sec.,5½ ft.dist.;and raise a mound of earth 4 ft.base 2 ft.high W.of cor.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 ins.deep,2nd rate,on a subsoil of damp stiff clay.

Chains	
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.00 chs.

	S.89°50'E., on a random line bet.secs. 13 and 24.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.10	Intersect the E.bdy.of the Tp.7 lks.N.of the cor. of secs. 13-18-19 and 24, heretofore described.
	Thence I run
	N.89°47'W.,on a true line
	Bet secs.13 and 24.
	Over gently rolling land through dense undergrowth.
	and scattering timber.
12.00	Leave timber. Bears NW.and SE.
15.00	Wash,50 lks.wide,3 ft.deep,drains SW.
40.05	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 13 on N.half,S 24 on S.half;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.
80.10	The cor. of secs. 13-14-23 and 24.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 ins.deep,2nd rate,on a subsoil of moist stiff clay.
	Timber cedar and pinon.
	Undergrowth,sage brush and grass.
	Scattering timber and dense undergrowth on 80.10 chs.

	N.0°01'W.bet.secs.13 and 14.
	Over gently rolling surface through dense undergrowth.
23.50	Wash,4 chs,wide,10 ft.deep,drains W.
38.00	Wash,5 chs.wide,12 ft.deep,drains SW.
40.00	Set an iron post ,3 ft.long,1 in.diam.,26 ins. in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 14

CHAINS	
	on W.half,S 13 on E.half,and raise a mound of stone 2 ft.base,1½ ft.high W.of cor.
	Pits impracticable.
47.80	Road,bears NE.and SW.
61.80	Wash,4 chs.wide,10 ft.deep,drains SW.
77.00	Enter scattering timber,bears NW.and SE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.11-12-13 and 14,marked on brass cap,
	T 31 S S 11 in NW.
	R 19 W S 12 in NE.
	S 13 in SE.and
	S 14 in SW.quadrant,from which
	A cedar,8 ins.diam.,bears N.43°45'E.,182 lks. dist.,marked T 31 S R 19 W S 12 BT.
	A cedar,8 ins.diam.,bears S.66°35'E.,273 lks. dist.,marked T 31 S R 19 W S 13 BT.
	A cedar,10 ins.diam.,bears S.25°10'W.,158 lks. dist.,marked T 31 S R 19 W S 14 BT.
	A cedar,12 ins.diam.,bears N.80°50'W.,235 lks. dist.,marked T 31 S R 19 W S 11 BT.
	Land,rolling,slopes W.
	Soil,clay loam and gravel,6 ins.deep,2nd rate,subsoil moist stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.00 chs.Scattering timber on 3.00 chs.
	August 3,1911.

August 4: At 8h.6m.,a.m.,l.m.t.,I set off 38°07'N., on the lat.arc,17°28'N.on the decl.arc,and determine a meridian with the solar at the cor. of secs. 11-12-

CHAINS	
	13 and 14.
	Thence I run
	S.89°47'E.,on a random line,bet.secs. 12 and 13.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.08	Intersect the E.bdy.of the Tp.5 lks.N.of the cor.of secs.7-12-13 and 18, heretofore described.
	Thence I run.
	N.89°45'W.,on a true line
	Bet.secs. 12 and 13.
	Over gently rolling land through scattering timber and dense undergrowth.
15.40	Wash,2 chs.wide,6 ft.deep,drains SW.
40.04	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 12 on N.half,S 13 on S.half,from which
	A cedar,12 ins.diam.,bears N.51°30'E.,151 lks. dist.,marked $\frac{1}{4}$ S 12 BT.
	A cedar,10 ins.diam.,bears S.21°25'W.,212 lks. dist.,marked $\frac{1}{4}$ S 13 BT.
48.60	Wash,2 chs.wide,8 ft.deep,drains SW.
63.05	Road,bears NE.and SW.
80.08	The cor.of secs. 11-12-13 and 14.
	Land rolling,slopes W.
	Soil,clay loam and gravel,6 to 8 ins.deep,on a subsoil of moist stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and bunch grass.
	Scattering timber and dense undergrowth on 80.08 chs.

	N.0°01'W.,bet.secs.11 and 12.
	Over gently rolling land through scattering timber and dense undergrowth.
7.10	Wash,3 chs.wide,10 ft.deep,drains SW.

CHAINS	
16.00	Leave timber,bears NW.and SE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 11 on W half,S 12 on E.half;dig pits 18x18x12 ins.N.and S.of post,3 ft.dist.,and raise a mound of earth 3½ ft. base,1½ ft.high W.of cor.
71,10	Wash,2 chs.wide,6 ft.deep,drains SW.
72.00	Enter scattering timber,bears NW.and SE.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins. in the ground for the cor. of secs. 1-2-11 and 12,marked on brass cap, T 31 S S 2 in NW., R 19 W S 1 in NE., S 12 in SE.,and S 11 in SW.quadrant,from which A cedar,12 ins.diam.,bears N.42°05'E.,276 lks. dist.,marked T 31 S R 19 W S 1 BT. A cedar 9 ins.diam.,bears S.32°15'E.,249 lks. dist.,marked T 31 S R 19 W S 12 BT. A cedar,6 ins.diam.,bears S.5°50'W.,273 lks. dist.,marked T 31 S R 19 W S 11 BT. A cedar,12 ins.diam.,bears N.61°35'W.,525 lks. dist.,marked T 31 S R 19 W S 2 BT.

Land,rolling,slopes W.

Soil,clay loam and gravel,6 to 8 ins.deep,2 nd rate, on a subsoil of damp stiff clay.

Timber,cedar and pinon.

Undergrowth,sage brush and bunch grass.

Dense undergrowth on 80.00 chs.Scattering timber on 1st 16.00 and last8.00 chs.

August 4:At this cor.I set off 17°25'N.on the decl.arc, and at 12h.6m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°08'N.

CHAINS	
	S.89°45'E.,on a random line,bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.
80.02	Intersect the E.bdy.of Tp.2 lks.N.of the cor. of secs. 1-6-7 and 12, heretofore described.
	Thence I run
	N.89°44'W.,on a true line
	Bet.secs.1 and 12.
	Over gently rolling land through heavy timber and short undergrowth.
16.80	Road,bears NE.and SW.
40.01	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 1 on N half,S 12 on S.half,from which
	A cedar,10 ins.diam.,bears S.42°30'W.,271 lks. dist.,marked ¼ S 12 BT.
	A cedar,14 ins.diam.,bears N.66°40'W.,155 lks. dist.,marked ¼ S 1 BT.
44.30	Wash,1.50 chs.wide,4 ft.deep,drains SW.
60.60	Leave heavy timber,bears NW.and SE.
	Enter dense undergrowth.
80.02	The cor. of secs.1-2-11 and 12.
	Land,rolling,slopes W.
	Soil,clay loam and gravel,6 to 8 ins.deep,on a subsoil of moist stiff clay. Soil 2nd rate.
	Timber,cedar and pinon.
	Undergrowth,sage brush and bunch grass.
	Heavy timber on 1st 60.00 chs.;dense undergrowth on the rest.

	N.0°01'W.,bet.secs.1 and 2.
	Over gently rolling land through scattering timber and dense undergrowth.
6.00	Enter wash,10 ft.deep,drains SW.
8.50	Leave wash.

Chains	
31.00	Enter wash,15 ft.deep,drains NW.
36.00	Leave wash.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 2 on W.half,S 1 on E.half,from which A cedar,7 ins.diam.,bears S.88°15'E.,110 lks. dist.,marked ¼ S 1 BT. A cedar,8 ins.diam.,bears N.72°W.,104 lks. dist.,marked ¼ S 2 BT.
41.00	Enter wash,12 ft.deep,drains SW.
45.00	Leave Wash.
49.00	Enter wash,10 ft.deep,drains SW.
54.00	Leave wash.
63.00	Enter wash,15 ft.deep,drains SW.
68.50	Leave wash.
	Enter heavy timber,bears NW.and SE.
110.10	Intersect the Sixth Standard Parallel South,12.09 chs. W.of the Stand.sec.cor.of secs.35 and 36,T.30 S.,R.19 W.,heretofore described. Set an iron post,3 ft.long,2 ins.diam.,24 ins. in the ground for the closing cor.bet.secs.1 and 2,marked on brass cap T 30 S S 35 CC R 19 W S 36 on N.half S 1 in SE.,and S 2 in SW.quadrant,from which A cedar,12 ins.diam.,bears S.44°15'E.,37 lks.dist.,marked T 31 S R 19 W S 1 BT. A cedar,12 ins.diam.,beras S.68°45'W.,88 lks.dist.,marked T 31 S R 19 W S 2 BT. Land rolling,slopes W. Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay. Timber,cedar and pinon. Undergrowth,sage brush and bunch grass. Land covered with dense undergrowth on 1st 68.50 chs.

CHAINS	
	heavy timber on the rest.
	August 4,1911.
	August 5:At 8h.6m.,a.m.,l.m.t.,I set off 38°04'N. on the lat.arc,17°12'N.on the decl.arc,and determine a meridian with the solar at the cor. of secs.2-3-34 and 35, on S.Bdy.of Tp., heretofore described.
	Thence I run
	N.0°01'W.,bet.secs.34 and 35.
	Over gently rolling land,through dense undergrowth.
6.70	Wash,3 lks.wide,12 ins.deep,drains NE.
28.35	Road,bears NE.and SW.
32.10	Wash,4 lks.wide,12 ins.deep,drains NE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec .cor.,marked on brass cap,¼ S 34 on W.half,S 35 on E.half;dig pits 18x18x12 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.diam.,24 ins. in the ground for the cor.of secs. 26-27-34 and 35,marked on brass cap,
	T 31 S S 27 in NW.,
	R 19 W S 26 in NE.,
	S 35 in SE.,and
	S 34 in SW.quadrant,dig pits 18x18x12 ins.in each sec.,5½ ft.dist.,and raise a mound of earth 4 ft.base 2 ft.high W.of cor.
	Land,rolling slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of moist stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.00 chs.

CHAINS	
	S.89°58'E.,on a random line,bet.secs.26 and 35.
40.00	Set a temp.$\frac{1}{4}$ sec.cor.
79.92	Intersect N.and S.line at the cor. of secs.25-26-35 and 36.
	Thence I run
	N.89°58'W.,on a true line
	Bet.secs. 26 and 35.
	Over gently rolling land through dense undergrowth.
31.37	Wash,5 lks.wide,12 ins.deep,drains NE.
39.96	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 26 on N.half,S 35 on S.half,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.
42.67	Road,bears NE.and SW.
50.42	Wash,4 lks.wide,12 ins.deep,drains NE.
79.92	The cor. of secs. 26-27-34 and 35.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,with a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Heavy undergrowth on 79.92 chs.
	August 5:At this cor. I set off 17°09'N.on the decl: arc,and at 12h.6m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°05'N.

	N.0°01'W.,bet.secs.26 and 27.
	Over gently rolling surface,through dense undergrowth.
23.50	Enter wash,10 ft.deep,drains NE.
30.00	Leave wash.
34.00	Enter wash,8 ft.deep,drains SE.
39.50	Leave wash.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the

CHAINS	
	ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 27 on W.half,S 26 on E.half,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.
49.50	Road,bears NE.and SW.
64.50	Enter wash,8 ft.deep,drains NE.
69.50	Leave wash.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins. in the ground for the cor. of secs.22-23-26 and 27,marked on brass cap,
	T 31 S S 22 in NW.,
	R 19 W S 23 in NE.,
	S 26 in SE.,and
	S 27 in SW.quadrant,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	Land rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,with a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.00 chs.
	S.89°58'E.,on a random line bet.secs.23 and 26.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.00	Intersect N.and S.line 2 lks.S.of the cor. of secs. 23-24-25 and 26.
	Thence I run
	N.89°59'W.,on a true line
	Bet.secs. 23 and 26.
	Over gently rolling land through dense undergrowth.
16.00	Enter ravine,25 ft.deep,drains NW.
19.40	Road,bears NW.and SE.

CHAINS	
28.00	Wash,10 lks.wide,4 ft.deep,in bottom of ravine.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 23 on N.half,S 26 on S.half;dig pits 18x18x12 ins.E.and W.of post,3 ft.dist.;and raise a mound of earth 3½ ft. base,1½ ft.high N.of cor.
42.70	Wash,3 lks.wide,12 ins.deep,drains NE.
46.50	Leave ravine.
66.70	Enter wash,10 ft.deep,drains NE.
68.70	Road,in bottom of wash,bears NE.and SW.
72.50	Leave wash.
80.00	The cor. of secs. 22-23-26 and 27.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.00 chs.
	August 5,1911.

	August 7:At 8h.6m.,a.m.,l.m.t.,I set off38°06'N.on the lat.arc,16°39'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.0°01'W.,bet.secs.22 and 23.
	Over gently rolling land through dense undergrowth.
5.50	Enter wash,10 ft.deep,drains NE.
12.00	Leave wash.
19.50	Enter wash,8 ft.deep,drains SE.
25.00	Leave wash.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 22 on W.half,S 23 on E.half,and raise a mound of stone

CHAINS	
	2 ft.base,1½ ft.high W.of cor.Pits impracticable.
44.50	Enter wash,10 ft.deep drains E.
48.00	Leave wash.
79.25	Wash,10 lks.wide,6 ft.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins. in the ground for the cor .of secs.14-15-22 and 23,marked on brass cap,
	T 31 S S 15 in NW.,
	R 19 W S 14 in NE.,
	S 23 in SE.and
	S 22 in SW.quadrant,and raise a mound of stone 2 ft.base,1½ ft.high W.of cor.
	Pits impracticable.
	Land rolling slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate, on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.00 chs.

	S.89°59'E.,on a random line bet.secs.14 and 23.
40.00	Set temp.¼ sec.cor.
80.04	Intersect the N.and S.line 14 lks.N.of the cor. of secs. 13-14-23 and 24.
	Thence I run
	N.89°53'W.,on a true line
	Bet.secs.14 and 23.
	Over gently rolling land through dense undergrowth.
28.00	Descend into ravine,25 ft.deep,drains NW.
34.00	Road,bears NW.and SE.,in bottom of ravine.
34.40	Wash,10 lks.wide,4 ft.deep,drains NW.in bottom of ravine.
38.10	Road,bears N.and S.

CHAINS	
40.02	Set an iron post,3 ft. long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 14 on N.half,S 23 on S.half,dig pits 18x18x12 ins.E.and W. of post,3 ft.dist.,and raise a mound of earth 3½ ft. base,1½ ft.high N.of cor.
50.00	Leave ravine.
79.60	Wash,10 lks.wide,6 ft.deep,drains NE.
80.04	The cor. of secs. 14-15-22 and 23.
	Land,rolling slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2 nd rate,on a subsoil of damp stiff clay.
	No timber,
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.04 chs.

	N.0°01'W.,bet.secs.14 and 15.
	Over gently rolling land through dense undergrowth.
40.00	Set aniiron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap ¼ S 15 on W.half,S 14 on E.half;dig pits 18x18x12 ins.N.and S. of post,3 ft.dist.;and raise a mound of earth 3½ ft. base,1½ ft.high W.of cor.
41.50	Enter ravine,25 ft.deep,drains NW.
61.50	Wash,10 lks.wide,4 ft.deep,in bottom of ravine.
68.00	Road,bears NW.and SE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins. in the ground for the cor. of secs.10-11-14 and 15,marked on brass cap,
	T 31 S S 10 in NW.,
	R 19 W S 11 in NE.,
	S 14 in SE.,and
	S 15 in SW.quadrant;dig pits 18x18x12 ins.in each sec.,5½ ft.dist.;and raise a mound of earth 4 ft. base,2 ft.high W.of cor.

CHAINS	
	Land rolling,slopes NW.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate, on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.00 chs.
	S.89°53'E.,on a random line,bet.secs.11 and 14.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.08	Intersect the N.and S.line at the cor. of secs.11-12-13 and 14.
	Thence I run
	N.89°53'W.,on a true line
	Bet.secs.11 and 14.
	Over gently rolling land through dense undergrowth.
7.00	Enter wash,10 ft.deep,drains SW.
19.50	Leave wash.
40.04	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 11 on N.half,S 14 on S.half;dig pits 18x18x12 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.
58.00	Enter ravine,25 ft.deep,drains NW.
80.08	The cor.of secs.10-11-14 and 15.
	Land rolling slopes W.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.08 chs.
	August 7:At this cor.I set off16°36'N.on the decl.arc and at 12h.6m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°08'N.

CHAINS	
	N.0°01W.,bet.secs.10 and 11
	Over rolling land through dense undergrowth.
8.00	Leave ravine.
9.50	Enter wash,20 ft.deep,drains W.
14.00	Leave wash.
35.00	Enter Ravine,20 ft.deep;drains SW.
39.25	Wash,3 lks.wide,12 ins.deep,in bottom of ravine.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for $\frac{1}{4}$ sec.cor.,marked on brass cap $\frac{1}{4}$ S 10 on W.half,S 11 on E.half,and raise a mound of stone,2 ft. base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
41.50	Leave ravine.
80.00	Set an iron post;3 ft.long,2 ins.diam.,24 ins. in the ground for the cor. of secs.2-3-10 and 11,marked on brass cap,
	T 31 S S 3 in NW.,
	R 19 W S 2 in NE.,
	S 11 in SE.,and
	S 10 in SW.quadrant;dig pits 18x18x12 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.
	Land rolling,slopes W.
	Soil,clay loam and gravel,6 to 8 ins. deep,2nd rate, on a subsoil of damp stiff clay
	No timber.
	Undergrowth,sage brush.
	Dense undergrowth on 80.00 chs.

	S.89°53'E.,on a random line bet.secs.2 and 11.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.06	Intersect the N.and S.line,9 lks.S.of the cor. of secs. 1-2-11 and 12.
	Thence I run

CHAINS	
	N.89°57'W.,on a true line
	Bet.secs. 2 and 11.
	Over gently rolling land,through dense undergrowth.
9.00	Enter wash,10 ft.deep,drains SW.
17.00	Leave wash.
40.03	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 2 on N.half,S 11 on S.half;dig pits 18x18x12 ins.E.and W.of post ,3 ft.dist.;and raise a mound of earth 3½ ft. base,1½ ft.high N.of cor.
80.06	The cor. of secs. 2-3-10 and 11.
	Land,rolling,slopes W.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.06 chs.

	N.0°01'W.,bet.secs.2 and 3.
	Over rolling land through dense undergrowth.
8.00	Enter wash,10 ft.deep,drains NW.
11.50	Leave wash.
22.00	Enter wash,12 ft.deep,drains W.
26.50	Leave wash.
39.00	Enter ravine,15 ft.deep,drains SW.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 3 on W.half,S 2 on E.half;dig pits 18x18x12 ins.N.and S. of post,3 ft.dist.;raise a mound of earth 3½ ft.base, 1½ ft.high,W.of cor.
43.30	Wash,10 lks.wide,4 ft.deep,in bottom of ravine.
45.50	Leave ravine.
54.50	Enter wash,10 ft.deep,drains NW.
59.00	Leave wash.
64.50	Enter wash,8 ft.deep,drains W.

CHAINS	
68.50	Leave wash.
76.75	Enter wash,9 ft.deep,drains SW.
83.00	Leave wash.
110.01	Intersect the Sixth Standard Parallel South,12.16 chs. W.of the Stand.sec.cor.of secs.34 and 35,T.30 S.,R.19 W.,heretofore described.
	Set an iron post,3 ft.long,2 ins.diam.,24 ins. in the ground for the closing cor.bet.secs.2 and 3,marked on brass cap,
	T 30 S S 34 CC S 35 R 19 W on N.half,
	S 2 in SE.,and S 3 in SW.quadrant:dig pits 24x 18x12 ins.,crosswise on each line,E.and W.3 ft.dist. and S.of post 7 ft.dist.;and raise a mound of earth, 4 ft.base,2 ft.high S.of cor.
	Land rolling,slopes W.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 110.01 chs.
	August 7,1911.

	August 8:At 8h.6m.,a.m.,l.m.t.,I set off 38°04'N.on the lat.arc,16°22'N.on the decl.arc,and determine a meridian with the solar at the cor.of secs.3-4-33 and 34,on S.bdy.of Tp.,heretofore described.
	Thence I run
	N.0°02'W.,bet.secs.33 and 34.
	Over rolling land through dense undergrowth.
2.80	Wash,31ks.wide,12 ins.deep,drains NE.
22.90	Road,bears NE.and SW. Enter scattering timber.
40.00	Set an iron post,3 ft.long,1½in.diam.,26 ins.in the

CHAINS	
	ground for the ¼ sec.cor.,marked on brass cap,¼ S 33 on W.half,S 34 on E.half,from which
	A cedar,12 ins.diam.,bears S.59°40'E.,215 lks.,dist.,marked ¼ S 34 BT.
	A cedar,8 ins.diam.,bears S.71°W.,598 lks. dist.,marked ¼ S 33 BT.
44.00	Wash,5 lks.wide,12 ins.deep,drains NE.
78.50	Wash,4 lks.wide,12 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground,for the cor. of secs.27-28-33 and 34,marked on brass cap,
	T 31 S S 28 in NW.,
	R 19 W S 27 in NE.,
	S 34 in SE.and
	S 33 in SW.quadrant,and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 80.00 chs.Scattering timber on last 57.10 chs.
	S.89°58'E.,on a random line,bet.secs.27 and 34.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line,2 lks.S.of the cor.of secs.26-27-34 and 35.
	Thence I run
	N.89°59'W.,on a true line
	Bet.secs.27 and 34.
	Over gently rolling land through dense undergrowth.
5.50	Enter wash,8 ft.deep,drains NE.

CHAINS	
13.00	Leave wash.
39.98	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 27 on N.half,S 34 on S.half,and raise a mound of stone 2 ft.base,1½ ft.high N.of cor.
	Pits impracticable.
41.20	Road,bears NE.and SW.
44.00	Enter scattering timber.
46.30	Wash,4 lks.wide,12 ins.deep,drains NE.
77.70	Wash,5 lks.wide,10 ins.deep,drains NE.
79.96	The cor.of secs.27-28-33 and 34.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 79.96 chs.Scattering timber on 36.00 chs.

	N.0°02'W.,bet.secs. 27 and 28.
	Over gently rolling land through scattering timber and dense undergrowth.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 28 on W.half,S 27 On E.half,from which
	A cedar,8 ins.diam.,bears S.23°15'E.,128 lks.dist.,marked ¼ S 27 BT.
	A cedar,10 ins.diam.,bears S.51°35'W.,605 lks.dist.,marked ¼ S 28 BT.
42.40	Wash,4 lks.wide,2 ft.deep,drains NE.
60.00	Leave scattering timber.
80.00	Set an iron post,3 ft.long,2 in.diam.,24 ins.in the

CHAINS	
	ground for the cor. of secs. 21-22-27 and 28,marked on brass cap,
	T 31 S S 21 in NW.,
	R 19 W S 22 in NE.,
	S 27 in SE.and S 28 in SW.quadrant,raise a mound of stone 2 ft.base,1½ ft.high W.of cor.
	Pits impracticable.
	Land rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedars and pinon.
	Undergrowth,sage brush and grass.
	Scattering timber on 60.00 chs.;dense undergrowth on 80.00 chs.
	S.89°59'E.,on a random line,bet.secs.22 and 27.
40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line at the cor. of secs.22-23-26 and 27.
	Thence I run
	N.89°59'W.,on a true line
	Bet.secs.22 and 27.
	Over gently rolling land through dense undergrowth.
39.96	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.marked on brass cap,¼ S 22 on N.half,S 27 on S.half,and raise a mound of stone 2 ft.base,1½ ft.high N.of cor.
	Pits impracticable.
42.50	Wash,3 lks.wide,12 ins.deep,drains NE.
79.92	The cor. of secs.21-22-27 and 28.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate, on subsoil of damp stiff clay.

CHAINS	
	No timber.
	Undergrowth,sage brush and bunch grass.
	Dense undergrowth on 79.92 chs.
	August 8:At this cor.I set off 16°19'N.on the decl.arc and at 12h.6m.p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°06'N.
	N.0°02'W.,bet.secs.21 and 22.
	Over gently rolling land through dense undergrowth.
3.25	Wash,4 lks.wide,12 ins.deep,drains NE.
22.90	Wash,3 lks.wide,10 ins.deep,drains NE.
24.25	Wash,4lks.wide,12 ins.deep,drains E.
25.10	Road,bears NE.and SW.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 21 on W.half,S 22 on E.half,and raise a mound of stone 2 ft.base,1½ ft.high W.of cor.
	Pits impracticable.
53.70	Wash,25 lks.wide,24 ins.deep,drains SE.
66.50	Wash,3 lks.wide,12 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins. in the ground for the cor. of secs. 15-16-21 and 22,marked on brass cap,
	T 31 S S 16 in NW.,
	R 19 W S 15 in NE.,
	S 22 in SE.,and S 21 in SW.,quadrant,raise a mound of stone 2 ft.base,1½ ft.high W.of cor.
	pits impracticable.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 80.00 chs.

CHAINS	
	S.89°59'E.,on a random line,bet.secs,15 and 22.
40.00	Set temp.¼ sec.cor.
79.90	Intersect the N.and S.line,5 lks.N.of the cor.of secs. 14-15-22 and 23.
	Thence I run
	N.89°57'W.,on a true line
	Bet.secs.15 and 22.
	Over gently rolling land through dense undergrowth.
24.00	Wash,3 lks.wide,12 ins.deep,drains NE.
39.95	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 15 on N.half,S 22 on S.half,and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable,
50.00	Road,bears NE.and SW.
69.00	Wash,3 lks.wide,12 ins.deep,drains NE.
79.90	The cor.of secs.15-16-21 and 22.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	No timber.
	Undergrowth,sage brush and grass.
	Dense undergrowth on 79.90 chs.

	N.0°02'W.,bet.secs.15 and 16.
	Over gently rolling land through dense undergrowth.
10.40	Wash,5 lks.wide,12 ins.deep,drains SE.
21.50	Wash,4 lks.wide,12 ins.deep,drains E.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins. in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 16 on W.half,S 15 on E.half;dig pits 18x18x12 ins.N.and S.of post,3 ft.dist.;and raise a mound of earth 3½ ft. base,1½ ft.high,W.of cor.
48.00	Wash,5 lks.wide,10 ins,deep,drains NE.

SUBDIVISIONS OF T.31 S., R.19 W.

Chains.	
59.50	Wash, 3 lks.wide, 12 ins.deep, drains E.
78.70	Wash, 4 lks.wide, 10 ins.deep, drains NE.
80.00	Set an iron post 3 ft.long, 2 ins.diam., 24 ins.in the ground, for the cor.of secs.9,10,15, and 16, marked on brass cap. T 31 S S 9 in NW. R 19 W S 10 in NE. S 15 in SE. and S 16 in SW.quadrant; and raise a mound of stone, 2 ft.base, 1½ ft.high W.of cor. Pits impracticable.
	Land, rolling, slopes E.
	Soil, clay loam and gravel, 6 to 8 ins.deep 2nd rate, on a subsoil of damp stiff clay.
	No timber.
	Undergrowth, sagebrush and grass.
	Dense undergrowth on 80.00 chs.
	S.89° 57'E.on a random line bet.secs.10 and 15,
40.00	Set temp.¼ sec.cor.
79.94	Intersect the N.and S.line 2 lks.N.of the cor.of secs. 10,11,14, and 15.
	Thence I run
	N.89°56'W.on a true line bet.secs.10 and 15,
	Descend slightly in bottom of ravine; through dense undergrowth.
11.50	Road, bears NW. and SE.
14.80	Wash, 10 lks.wide, 4 ft.deep, drains NW., in bottom of ravine.
	Ascend.
28.00	Leave ravine.
	Thence over gently rolling land.
39.97	Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the ¼ sec.cor., marked on brass cap ¼ S 10 on N.half, S 15 on S.half; dig pits 18 x 18 x 12

Chains.	
	ins.E.and W.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
52.70	Wash, 15 lks.wide, 4 ft.deep, drains NE.
78.70	Wash, 4 lks.wide, 12 ins.deep, drains NE.
79.94	The cor.of secs.9,10,15, and 16.
	Land, rolling, slopes E.
	Soil, clay loam and gravel, 6 to 8 ins.deep;2nd rate.
	Subsoil, damp, stiff clay.
	No timber.
	Undergrowth, sagebrush and grass.
	Dense undergrowth on 79.94 chs.
	August 8, 1911.

August 11, 1911:

N.0° 02'W.bet.secs.9 and 10,

Over gently rolling land; through dense undergrowth.

13.30	Wash, 4 lks.wide, 12 ins.deep, drains E.
40.00	Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the ¼ sec.cor., marked on brass cap ¼ S 9 on W.half, S 10 on E.half; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Pits impracticable.
43.20	Wash, 4 lks.wide, 12 ins.deep, drains NE.
48.25	Wash, 3 lks.wide, 12 ins.deep, drains SE.
67.25	Wash, 4 lks.wide, 12 ins.deep, drains NE.
78.30	Wash, 3 lks.wide, 10 ins.deep, drains NE.
80.00	Set an iron post 3 ft.long, 2 ins.diam., 24 ins.in the ground, for the cor.of secs.3,4,9, and 10, marked on brass cap T 31 S S 4 on NW. R 19 W S 3 in NE. S 10 in SE.; and S 9 in SW.quadrant; and raise a mound of stone, 2 ft.base, 1½ ft.high W.of cor. Pits impracticable.

SUBDIVISIONS OF T.31 S., R.19 W.

Chains.	
	Land, rolling, slopes E.
	Soil, clay loam and gravel, 6 to 8 ins.deep, 2nd rate, on a subsoil of damp, stiff clay.
	No timber.
	Undergrowth, sagebrush and grass.
	Dense undergrowth on 80.00 chs.
	August 11: At this cor.I set off 15° 27'N.on the decl. arc; and at 12h 5m p.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 08'N.
	S.89°56'E.on a random line bet.secs.3 and 10,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.96	Intersect N.and S.line 5 lks.S.of the cor.of secs.2,3, 10, and 11.
	Thence I run
	N.89° 58'W.on a true line bet.secs.3 and 10,
	Over gently rolling land; through dense undergrowth.
24.00	Enter ravine, 30 ft.deep, drains NW.
34.60	Road, bears NW. & SE., in bottom of ravine.
39.98	Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 3 on N.half, S 10 on S.half; 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.
46.75	Wash, 8 lks.wide, 48 ins.deep, drains NW., in bottom of ravine.
69.00	Wash, 6 lks.wide, 24 ins.deep, drains NE.in bottom of ravine.
76.00	Wash, 3 lks.wide, 12 ins.deep,drains NE., in ravine.
77.00	Leave ravine.
79.96	The cor.of secs.3,4,9, and 10.
	Land, rolling, slopes NW.
	Soil, clay loam and gravel, 6 to 8 ins.deep; 2d rate, on a susboil of damp stiff clay.
	No timber.
	Undergrowth, sagebrush and grass.
	Dense undergrowth on 79.96 chs.

SUBDIVISIONS OF T.31 S., R.19 W.

Chains.

N.0° 02'W.bet.secs.3 and 4,

Over gently rolling land; through dense undergrowth.

36.75 Wash, 4 lks.wide, 12 ins.deep, drains NW.

40.00 Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the ¼ sec.cor., marked on brass cap ¼ S 4 on W.half, S 3 on E.half; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Pits impracticable.

60.50 Wash, 4 lks.wide, 12 ins.deep, drains NW.

75.50 Wash, 3 lks.wide, 10 ins.deep, drains NW.

93.00 Enter ravine, 30 ft.deep, drains NW.

94.40 Wash, 3 lks.wide, 12 ins.deep, drains NW.

104.25 Wash, 8 lks.wide, 48 ins.deep, drains NW., in bottom of ravine.

110.03 Intersect the Sixth Standard Parallel South 13.05 chs. W.of the Stand.cor.of secs.33 and 34, T.30 S., R.19 W., heretofore described.

Set an iron post 3 ft.long, 2 ins.diam., 24 ins.in the ground, for the closing cor.bet.secs.3 and 4, marked on brass cap

T 30 S S 33 C C S 34 R 19 W on N.half,

S 3 in SW.; and

S 4 in SW.quadrant;

dig pits 24 x 18 x 12 ins.crosswise on each line E. and W.3 ft.dist.; and S.of post 7 ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high S.of cor.

Land, rolling, slopes NW.

Soil, clay loam and gravel, 6 to 8 ins.deep, 2nd rate, on a subsoil of damp, stiff clay.

No timber.

Undergrowth, sagebrush and grass.

Dense undergrowth on 110.03 chs.

August 11, 1911.

August 9: At 8h 8m a.m.l.m.t., I set off 38° 04'N.on

Chains.

the lat.arc; 16° 05'N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.4,5,32, and 33, Tps.31 and 32 S., R.19 W., heretofore described. Thence I run

N.0° 03'W.bet.secs.32 and 33,

Over gently rolling land; through heavy timber.

20.70 Wash, 5 lks.wide, 12 ins.deep, drains NE.

40.00 Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the ¼ sec.cor., marked on brass cap ¼ S 32 on W.half, S 33 on E.half; from which

A cedar, 6 ins.diam.bears N.56° 40'E.18 lks. dist., marked ¼ S 33 B T

A pinon, 7 ins.diam., bears S.70° 20'W., 7 lks. dist., marked ¼ S 32 B T

72.70 Wash, 3 lks.wide, 12 ins.deep, drains NE.

80.00 Set an iron post 3 ft.long, 2 ins.diam., 24ins.in the ground, for the cor.of secs.28,29,32, and 33, marked on brass cap

T 31 S S 29 in NW.

R 19 W S 28 in NE.

S 33 in SE.; and

S 32 in SW.quadrant; from which

A cedar, 8 ins.diam., bears N.30° 50'E. 115 lks. dist., marked T 31 S R 19 W S 28 B T

A pinon, 14 ins.diam., bears S.10°45'E., 68 lks. dist., marked T 31 S R 19 W S 33 B T

A pinon, 9 ins.diam., bears S.43°20'W. 38 lks. dist., marked T 31 S R 19 W S 32 B T

A pinon, 8 ins.diam., bears N.43°15'W.43 lks. dist., marked T 31 S R 19 W S 29 B T

Land, rolling, slopes E.

Soil, clay loam and gravel, 2nd rate, on a subsoil of damp stiff clay.

Timber, cedar and pinon.

Undergrowth, sagebrush and grass.

Chains.	Heavy timber on 80.00 chs.
	S.89° 58'E.on a random line bet.secs.28 and 33,
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line 2 lks.S.of the cor.of secs.27, 28,33, and 34.
	August 9: At this cor.I set off 16° 02'N.on the decl. arc; and at 12h 5m p.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 05'N.
	Thence I run
	N.89° 59'W.on a true line bet.secs.28 and 33,
	Over gently rolling land; through dense undergrowth.
10.00	Enter heavy timber, bears NW. and SE.
40.05	Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the ¼ sec.cor., marked on brass cap ¼ S 28 on N.half, S 33 on S.half; from which
	A pinon 8 ins.diam.bears S.23° 40'E. 75 lks.dist. marked ¼ S 33 B T
	A pinon 10 ins.diam.bears N.0° 45'W. 54 lks.dist. marked ¼ S 28 B T
40.50	Road, bears NE. & SW.
57.50	Wash, 3 lks.wide, 10 ins.deep, drains NE.
68.60	Wash, 4 lks.wide, 12 ins.deep, drains NE.
80.10	The cor.of secs.28,29,32, and 33.
	Land, rolling, slopes E.
	Soil, clay loam and gravel, 6 to 8 ins.deep, 2d rate,, on a subsoil of damp, stiff clay.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and grass.
	Dense undergrowth on 1st 10.00 chs.; heavy timber on the rest.
	N.0° 03'W.bet.secs.28 and 29
	Over gently rolling land; through heavy timber.

SUBDIVISIONS OF T.31 S., R.19 W.

Chains.

3.80 Wash, 3 lks.wide, 10 ins.deep, drains NE.

25.90 Wash, 4 lks.wide, 24 ins.deep, drains NE.

38.00 Wash, 3 lks.wide, 12 ins.deep, drains E.

40.00 Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the ¼ sec.cor., marked on brass cap ¼ S 29 on W.half, S 28 on E.half; from which

A pinon pine, 16 ins.diam., bears N.36° 35'E. 64 lks.dist., marked ¼ S 28 B T

A pinon pine, 10 ins.diam., bears N.26° W. 40 lks.dist., marked ¼ S 29 B T

69.30 Wash, 6 lks.wide, 36 ins.deep, drains NE.

80.00 Set an iron post 3 ft.long, 2 ins.diam., 24 ins.in the ground, for the cor.of secs.20,21,28, and 29,marked on brass cap

T 31 S S 20 in NW.

R 19 W S 21 in NE.

S 28 in SE.; and

S 29 in SW.quadrant; from which

A pinon, 10 ins.diam., bears N.46°50'E.11 lks. dist., marked T 31 S R 19 W S 21 B T

A cedar, 8 ins.diam., bears S.43°40'E.51 lks. dist., marked T 31 S R 19 W S 28 B T

A pinon, 10 ins.diam., bears S.69°25'W.47 lks. dist., marked T 31 S R 19 W S 29 B T

A cedar, 8 ins.diam., bears N.47°50'W.44 lks. dist., marked T 31 S R 19 W S 20 B T

Land, rolling, slopes E.

Soil, clay loam and gravel, 6 to 8 ins.deep, 2nd rate, on a subsoil of damp stiff clay.

Timber, cedar and pinon.

Undergrowth, sagebrush and grass.

Heavy timber on 80.00 chs.

August 9, 1911.

SUBDIVISIONS OF T.31 S., R.19 W.

Chains.	
	August 10, 1911: At 8h 5m a.m.l.m.t., I set off 38° 06' N.on the lat.arc; 15° 48'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°59'E.on a random line bet.secs.21 & 28,
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line 9 lks.S.of the cor.of secs.21,22 27, and 28. Thence I run
	S.89° 57'W.on a true line bet.secs.21 & 28
	Over gently rolling land; through dense undergrowth.
1.65	Wash, 4 lks.wide, 36 ins.deep, drains NE.
8.80	Road, bears NE. & SW.
10.00	Enter heavy timber, bears NW. & SE.
40.02	Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the ¼ sec.cor., marked on brass cap ¼ S 21 on N.half, S 28 on S.half; from which
	A cedar, 14 ins.diam., bears N.46° E.121 lks. dist., marked ¼ S 21 B T
	A cedar, 24 ins.diam., bears S.3° 55'W. 40 lks. dist., marked ¼ S 28 B T
61.00	Wash, 4 lks.wide, 12 ins.deep, drains NE.
80.04	The cor.of secs.20,21,28, and 29.
	Land, rolling, slopes E.
	Soil, clay loam and gravel, 6 to 8 ins.deep, 2d rate, on a subsoil of damp, stiff clay.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and grass.
	Dense undergrowth on 1st 10.00 chs.; heavy timber on the rest.
	N.0° 03'W.bet.secs.20 and 21,
	Over rolling land; through heavy timber.
18.60	Wash, 4 lks.wide, 6 ins.deep, drains NE.
27.80	Wash, 10 lks.wide, 3 ft.deep, drains NE.

SUBDIVISIONS OF T.31 S., R.19 W.

Chains.	
40.00	Set an iron post 3 ft.long, 1 in.diam. 26 ins.in the ground, for the ¼ sec.cor., marked on brass cap ¼ S 20 on W.half, S 21 on E.half; from which A cedar, 12 ins.diam., bears N.46° E. 71 lks. dist., marked ¼ S 21 B T A cedar, 10 ins.diam., bears N.50° 45'W. 58 lks. dist., marked ¼ S 20 B T
43.60	Wash, 4 lks.wide, 12 ins.deep, drains E.
60.70	Wash, 4 lks.wide, 18 ins.deep, drains NE.
68.50	Wash, 6 lks.wide, 24 ins.deep, drains NE.
74.30	Wash, 3 lks.wide, 13 ins.deep, drains NE.
80.00	Set an iron post 3 ft. long, 2 ins.diam., 24 ins.in the ground, for the cor.of secs.16,17,20, and 21, marked on brass cap T 31 S S 17 in NW. R 19 W S 16 in NE. S 21 in SE.; and S 20 in SW.quadrants; from which A cedar, 8 ins.diam., bears N.74° 05'E.229 lks. dist., marked T 31 S R 19 W S 16 B T A cedar, 10 ins.diam., bears S.19° 35'E.107 lks. dist., marked T 31 S R 19 W S 21 B T A cedar, 9 ins.diam., bears S.8° W. 156 lks. dist., marked T 31 S R 19 W S 20 B T A cedar, 10 ins.diam., bears N.73° 25'W., 296 lks.dist., marked T 31 S R 19 W S 17 B T Land, rolling, slopes E. Soil, clay loam and gravel, 6 to 8 ins.deep, 2nd rate, on a subsoil of damp, stiff clay. Timber, cedar and pinon. Undergrowth, sagebrush and grass. Heavy timber on 80.00 chs. August 10: At this cor.I set off 15° 45'N.on the decl. arc; and at 12h 5m p.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38° 07'N.

SUBDIVISIONS OF T.31 S.R.19 W.

Chains.	
	N.89°57'E.on a random line bet.secs.16 & 21
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line 2 lks.S.of the cor.of secs.15,16 21, and 22. Thence I run
	S.89° 56'W.on a true line bet.secs.16 and 21,
	Over gently rolling land; through scattering timber and dense undergrowth.
5.20	Wash, 4 lks.wide, 12 ins.deep, drains NE.
17.20	Wash, 3 lks.wide, 13 ins.deep, drains NE.
20.00	Enter heavy timber, bears NW. & SE.
40.03	Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the ¼ sec.cor., marked on brass cap ¼ S 16 on N.half, S 21 on S.half; from which
	A cedar, 10 ins.diam., bears N.54°30'E.24 lks. dist., marked ¼ S 16 B T.
	A cedar, 12 ins.diam., bears S.53° 15'E. 8 lks. dist., marked ¼ S 21 B T.
46.20	Wash, 4 lks.wide, 24ins.deep, drains NE.
65.80	Wash, 3 lks.wide, 12 ins.deep, drains NE.
80.06	The cor.of secs.16,17,20, and 21.
	Land, rolling, slopes NE.
	Soil, clay loam and gravel, 6 to 8 ins.deep, on a sub-soil of damp stiff clay. Soil, 2d rate.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and grass.
	Dense undergrowth on 1st 20.00 chs.; heavy timber on the rest.
	N.0° 03'W.bet.secs.16 and 17,
	Over gently rolling surface; through heavy timber.
6.00	Wash, 5 lks.wide, 12 ins.deep, drains E.
20.80	Wash, 4 lks.wide, 10 ins.deep, drains E.
35.00	Wash, 6 lks.wide, 18 ins.deep, drains NE.
40.00	Point for ¼ sec.cor.falls in wash, 10 lks.wide, 18 ins. deep, drains NE. Cor.not set.

SUBDIVISIONS OF T.37 S., R.19 W.

Chains.

40.50 Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for witness ¼ sec.cor., marked on brass cap T 31 S ¼ W C R 19 W on N.half, S 17 on W.half, and S 16 on E.half; from which

A cedar, 9 ins.diam., bears S.41°45'E.27 lks. dist., marked WC ¼ S 16 B T

A cedar, 6 ins.diam., bears N.64° 55'W.53 lks. dist., marked WC ¼ S 17 B T

49.35 Wash, 5 lks.wide, 15 ins.deep, drains E.

80.00 Set an iron post 3 ft.long, 2 ins.diam., 24 ins.in the ground, for the cor.of secs.8,9,16, and 17, marked on brass cap

T 31 S S 8 in NW.

R 19 W S 9 in NE.

S 16 in SE.; and

S 17 in SW.quadrants; from which

A cedar, 12 ins.diam., bears N.43° 40'E.68 lks. dist., marked T 31 S R 19 W S 9 B T

A cedar,6 ins.diam., bears S.31° 30'E.41 lks. dist., marked T 31 S R 19 W S 16 B T

A cedar, 12 ins.dia., bears S.3°55'W.54 lks. dist., marked T 31 S R 19 W S 17 B T

A cedar, 9 ins.diam., bears N.30° 25'W.117 lks. dist., marked T 31 S R 19 W S 8 B T

Land, rolling, slopes E.

Soil, clay loam and gravel, 6 to 8 ins.deep, 2nd rate, on a subsoil of damp, stiff clay.

Timber, cedar and pinon.

Undergrowth, sagebrush and bunch grass.

Heavy timber on 80.00 chs.

August 10, 1911.

SUBDIVISIONS OF T.31 S., R.19 W.

Chains.	
	August 11: At 8h 5m a.m.l.m.t., I set off 38° 07'N.on the lat.arc; 15°31'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.89°56'E.on a random line bet.secs.9 and 16,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.96	Intersect N.and S.line 5 lks.S.of the cor.of secs.9,10, 15, and 16.
	Thence I run
	S.89°54'W.on a true line bet.secs.9 and 16,
	Over gently rolling surface; through dense undergrowth.
4.00	Enter heavy timber, bears NW. & SE.
16.70	Wash, 4 lks.wide, 12 ins.deep, drains NE.
39.98	Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 9 on N.half, S 16 on S.half; from which
	A cedar 6 ins.diam., bears S.64°25'E.132 lks. dist., marked $\frac{1}{4}$ S 16 B T
	A cedar, 7 ins.diam., bears N.34°50'W.196 lks. dist., marked $\frac{1}{4}$ S 9 B T
43.25	Wash, 4 lks.wide, 18 ins.deep, drains NE.
68.50	Wash, 3 lks.wide, 12 ins.deep, drains NE.
79.96	The cor.of secs.8,9,16, and 17.
	Land, rolling, slopes E.
	Soil, clay loam and gravel, 6 to 8 ins.deep, on a subsoil of damp, stiff clay.
	Soil, 2d rate.
	Timber, cedar and pinon.
	Undergrowth, sagebrush and grass.
	Undergrowth dense on 4.00 chs.; heavy timber on the rest.
	August 11, 1911.

SUBDIVISIONS OF T.31 S., R.19 W.

Chains.

August 12: At 8h 5m a.m.l.m.t., I set off 38°08'N.on the lat.arc; 15° 12'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 gently rolling land; through heavy timber.

16.00 Leave heavy timber bears NW. and SE.

Enter scattering timber and dense undergrowth.

18.20 Wash, 4 lks.wide, 12 ins.deep, drains NE.

40.00 Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the ¼ sec.cor., marked on brass cap ¼ S 8 on W.half, S 9 on E.half; from which

A cedar, 16 ins.deim.bears S.19°45'E.452 lks. dist., marked ¼ S 9 B T

A cedar, 6 ins.diam., bears N.46° 40'W.250 lks. dist., marked ¼ S 8 B T

50.60 Wash,3 lks.wide, 12 ins.deep, drains NE.

63.25 Wash, 4 lks.wide, 15 ins.deep, drains NE.

80.00 Set an iron post 3 ft.long, 2 ins.diam., 24 ins.in the ground, for the cor.of secs.4,5,8, and 9, marked on brass cap

T 31 S S 5 in NW.

R 19 W S 4 in NE.

S 9 in SE.; and S 8 in SW.quadrant; and

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

Pits impracticable.

Land, rolling, slopes E.

Soil, clay loam and gravel, 6 to 8 ins.deep,2nd rate,

Chains	
	on a subsoil of damp, stiff clay.
	Heavy timber on 1st 16.00 chs.; scattering timber and dense undergrowth on the rest.
	N.89°54'E.on a random line bet.secs.4 and 9,
40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line 7 lks.N.of the cor.of secs.3,4, 9 and 10.
	Thence I run
	S.89° 57'W.on a true line Bet.secs.4 and 9,
	Over gently rolling land; through scattering timber and dense undergrowth.
30.20	Wash, 8 lks.wide, 36 ins.deep, drains NE.
39.96	Set an iron post 3 ft.long, 1 in.diam., 26 ins.in the ground, for the ¼ sec.cor., marked on brass cap ¼ S 4 on N half, S 9 on S.half; from which
	A cedar, 7 ins.diam., bears N.58°05'E.454 lks. dist., marked ¼ S 4 B T
	A cedar, 12 ins.diam., bears S.49°20'E.263 lks. dist., marked ¼ S 9 B T

CHAINS	
79.92	The cor.of secs.4-5-8 and9.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Scattering timber and dense undergrowth on 79.92 chs.
	August 12;At this cor.I set off15°10'N.on the decl.arc, and at 12h.5m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°09'N.
	———————————
	N.0°03'W.,bet.secs,4 and 5.
	Over gently rolling land through dense undergrowth and scattering timber.
26.80	Wash,5 lks.wide,24 ins.deep,drains NE.
27.00	Enter heavy timber,bears NE.and SW.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 5 on W.half,S 4 on E.half,from which
	A cedar,14 ins.diam.,bears N.72°45'E.,31 lks. dist.,marked ¼ S 4 BT.
	A cedar,10 ins,diam.,bears N.43°05'W.,39 lks. dist.,marked ¼ S 5 BT.
48.00	Leave heavy timber,bears NE.and SW.Enter scattering timber and dense undergrowth.
58.10	Wash,8 lks.wide,24 ins.deep,drains NE.
73.40	Wash,4 lks.wide,18 ins.deep,drains NE.
109.97	Intersect the Sixth Standard Parallel South ,11.90 chs. W.of the Stand.cor.of secs.32 and 33,T.30 S.,R.19 W., heretofore described.
	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the closing cor.bet.secs.4 and 5,marked on brass cap
	T 30 S S 32 CC S 33 R 19 W on N.half,

CHAINS

S 4 in SE, and S 5 in SW.quadrant,from which

A cedar,6 ins.diam.,bears S.47°50'E.,320 lks. dist.,marked T 31 S R 19 W S 4 BT.

A cedar,10 ins.diam.,bears S.24°40'W.,351 lks.dist.,marked T 31 S R 19 W S 5 BT.

Land rolling,slopes E.

Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.

Timber,cedar and pinon.

Undergrowth,sage brush and grass.

Heavy timber on 21.00 chs.;scattering timber and dense undergrowth on the rest.

August 12,1911.

August 14: At 8h.5m.,a.m.,l.m.t.,I set off 38°04'N.on the lat.arc,14°37'N.on the decl.arc,and determine a meridian with the solar at the cor.of secs.5-6-31 and 32 Tps.31 and 32 S.,R.19 W. heretofore described.

Thence I run

N.0°03'W.,bet.secs.31 and 32.

Ascend gradually along W.side of ravine,through heavy timber.

21.00 Top of ascent,40 ft.above ravine.

Over gently rolling land.

40.00 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 31 on W.half,S 32 on E.half,from which

A pinon,12 ins.diam.,bears N.85°55'E.,10 lks. dist.,marked ¼ S 32 BT.

A pinon,9 ins.diam.,bears N.41°05'W.,39 lks. dist.,marked ¼ S 31 BT.

56.20 Wash,10 lks.wide,24 ins.deep,drains SE.

57.35 Wash,6 lks.wide,18 ins.deep,drains NE.

CHAINS	
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.29-30-31 and 32,marked on brass cap, T 31 S S 30 in NW., R 19 W S 29 in NE., S 32 in SE.,and S 31 in SW.quadrant,from which A pinon,10 ins.diam.,bears N.53°50'E.,22 lks. dist.,marked T 31 S R 19 W S 29 BT. A pinon,14 ins.diam.,bears S.7°55'E.,51 lks. dist.,marked T 31 S R 19 W S 32 BT. A pinon,11 ins.diam.,bears S.57°40'W.,53 lks. dist.,marked T 31 S R 19 W S 31 BT. A pinon,12 ins.diam.,bears N.59°20'W.,44 lks. dist.,marked T 31 S R 19 W S 30 BT. Land,rolling,slopes E. Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay. Timber,cedar and pinon. Undergrowth,sage brush and grass. Heavy timbered land on 80.00 chs. August 14:At this cor.I set off 14°33'N.on the decl. arc,and at 12 h.5m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°05'N.
	S.89°58'E.,on a random line,bet.secs.29 and 32.
40.00	Set temp.$\frac{1}{4}$ Sec.cor.
80.10	Intersect N.and S.line,9 lks.N.of the cor.of secs.28-29-32 and 33. Thence I run N.89°54'W.,on a true line Bet.secs.29 and 32. Over gently rolling land through heavy timber.

SUBDIVISIONS OF T.31 S.,R.19 W.

CHAINS	
12.00	Wash,6 lks.wide,12 ins.deep,drains NE.
32.00	Wash,5 lks.wide,10 ins.deep,drains NE.
40.05	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 29 on N.half,S 32 on S.half,from which,
	A pinon.12 ins.diam.,bears N.55°15'E.,95 lks. dist.,marked ¼ S 29 BT.
	A pinon,9 ins.diam.,bears S.18°10'W.,38 lks. dist.,marked ¼ S 32 BT.
80.10	The cor.of secs.29-30-31 and 32.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavy timbered land on 80.10 chs.
	August 14,1911.
	August 15:At 8h.5m.,a.m.,l.m.t.,I set off 38°05'N.on the lat.arc,14°18'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.89°58'W.,on a random line,bet.secs.30 and 31.
40.00	Set temp.¼ sec.cor.
73.62	Intersect the W.bdy.of Tp.7 lks.S.of the cor.of secs. 25-30-31 and 36,T.31 S.,Rs.19 and 20 W. heretofore described. Thence I run
	S.89°55'E.,on a true line
	Bet.secs.30 and 31.
	Over gently rolling land,through heavy timber.
27.30	Stream of water,5 lks.wide,2 ins.deep,known as Choke Cherry Creek,in wash,6 lks.wide,24 ins.deep,drains NE.
33.62	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the

CHAINS	
	ground for the ¼ sec.cor.,marked on brass cap,¼ S 30 om N.half,S 31 on S.half,from which
	A cedar,9 ins.diam.,bears N.20°30'E.,27 lks. dist.,marked ¼ S 30 BT.
	A pinon,10 ins.diam.,bears S.29°20'E.,6 lks. dist.,marked ¼ S 31 BT.
73.62	The cor.of secs.29-30-31 and 32.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedars and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 73.62 chs.
	August 15:At this cor.I set off 14°15'N.on the decl. arc,and at 12h.5m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°05'N.
	N.0°03'W.,bet.secs.29 and 30.
	Over gently rolling land,through heavy timber.
13.30	Wash,3 lks.wide,10 ins.deep,drains E.
36.00	Ascend abruptly along W.side of knoll.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 30 on W.half,S 29 on E.half,from which
	A pinon,11 ins.diam.,bears S.24°25'E.,33 lks. dist.,marked ¼ S 29 BT.
	A pinon,9 ins.diam.,bears S.44°25'W.,52 lks. dist.,marked ¼ S 30 BT.
42.00	Top of ascent,50 ft.above wash, bears NE. and SW.
	Descend.
56.00	Foot of descent.Over gently rolling land.
57.60	Wash,6 lks.wide,18 ins.deep,dry bed of Choke Cherry Creek,drains NE.
73.60	Wash,4 lks.wide,12 ins.deep,drains NE.

SUBDIVISIONS OF T.31 S.,R.19 W.

CHAINS	
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.19-20-29 and 30,marked on brass cap, T 31 S S 19 in NW., R 19 W S 20 in NE., S 29 in SE.and S 30 in SW.quadrant,from which A cedar,16 ins.diam.,bears N.27°25'E.,343 lks. dist.,marked T 31 S R 19 W S 20 BT. A cedar,9 ins.diam.,bears S.19°15'E.,216 lks. dist.,marked T 31 S R 19 W S 29 BT. A cedar,9 ins.diam.,bears S.68°30'W.,337 lks. dist.,marked T 31 S R 19 W S 30 BT. A cedar,9 ins.diam.,bears N.53°10'W.,290 lks. dist.,marked T 31 S R 19 W S 19 BT. Land rolling,slopes E. Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay. Timber,cedar and pinon. Undergrowth,sage brush and grass. Heavily timbered land on 80.00 chs. August 15,1911.
	August 16:At 8 h.4 m.,a.m.,l.m.t.,I set off 38°06'N. on the lat.arc,14°00'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 S.89°54'E.,on a random line bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
80.14	Intersect the N.and S.line,2 lks.S.of the cor.of secs. 20-21-28 and 29. Thence I run

CHAINS	
	N89°55'W.,on a true line
	Bet.secs.20 and 29.
	Over gently rolling land through heavy timber.
40.07	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 20 on N.half,S 29 on S.half,from which
	A cedar,7 ins.diam.,bears S.17°40'E.,33 lks. dist.,marked ¼ S 29 BT.
	A cedar,12 ins.diam.,bears N.44°50'W.,20 lks. dist.,marked ¼ S 20 BT.
63.50	Wash,6 lks.wide,18 ins.deep,dry bed of Choke Cherry Creek,drains NE.
77.00	Wash,4 lks.wide,12 ins.deep,drains NE.
80.14	The cor.of secs.19-20-29 and 30.
	Land,rolling,slopes NE.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 80.14 chs.

	N.89°55'W.,on a random line,bet.secs.19 and 30.
40.00	Set temp.¼ sec.cor.
73.57	Intersect W.bdy.of Tp.9 lks.N.of the cor.of secs.19-24-25 and 30,T.31 S.,Rs.19 and 20 W.,heretofore described.
	Thence I run
	S.89°59'E.,on a true line,
	Bet.secs.19 and 30.
	Descend over rolling land through heavy timber.
21.00	Head of hollow,50 ft.deep,drains NE. Ascend.
30.00	Spur,projects NE. Descend.
33.57	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 19 on N.half,S 30 on S.half,from which

CHAINS	
	A pinon,12 ins.diam.,bears N.26°55'E.,38 lks. dist.,marked ¼ S 19 BT.
	A pinon,10 ins.diam.,bears S.56°W.,39 lks.dist., marked ¼ S 30 BT.
45.50	Foot of descent.Over gently rolling land.
73.57	The cor.of secs.19-20-29 and 30.
	Land,rolling.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 73.57 chs.
	August 16:At this cor.I set off 13°56'N.on the decl. arc and at 12h.4m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°06'N.

	N.0°03'W.,bet.secs.19 and 20.
	Over gently rolling land through heavy timber.
3.60	Wash,3 lks.wide,12 ins.deep,drains E.
14.00	Wash,5 lks.wide,24 ins.deep,drains SE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 19 on W.half,S 20 On E.half,from which
	A pinon,10 ins.diam.,bears N.83°55'E.,32 lks. dist.,marked ¼ S 20 BT.
	A cedar,7 ins.diam.,bears N.66°30'W.,16 lks. dist.,marked ¼ S 19 BT.
61.80	Wash,3 lks.wide,12 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.17-18-19 and 20,marked on brass cap
	T 31 S S 18 in NW.,
	R 19 W S 17 in NE.,

Chains	
	S 20 in SE.and
	S 19 in SW.quadrant,from which
	A pinon,9 ins.diam.,bears N.51°45'E.,20 lks.dist., marked T 31 S R 19 W S 17 BT.
	A pinon,12 ins.diam.,bears S.32°35'E.,48 lks.dist., marked T 31 S R 19 W S 20 BT.
	A pinon,9 ins.diam.,bears S.39°30'W.,23 lks.dist., marked T 31 S R 19 W S 19 BT.
	A cedar,16 ins.diam.,bears N.56°50'W.,45 lks.dist., marked T 31 S R 19 W S 18 BT.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon,
	Undergrowth,sage brush and grass.
	Heavily timbered land on 80.00 chs.
	August 16,1911.
	August 17:At 8h.4 m.,a.m.,l.m.t.,I set off 38°07'N.,on the lat.arc,13°41'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°55'E.,on a random line,bet.secs.17 and 20.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.16	Intersect N.and S.line5 lks.N.of the cor.of secs.16-17-20 and 21.
	Thence I run
	N.89°53'W.,on a true line
	Bet.secs.17 and 20.
	Over gently rolling surface through heavy timber.
40.08	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground,for the $\frac{1}{4}$ sec.cor,marked on brass cap,$\frac{1}{4}$ S 17

CHAINS

on N.half,S 20 on S.half,from which

A cedar,9 ins.diam.,bears S.19°50'E.,46 lks.dist., marked ¼ S 20 BT.

A cedar,10 ins.diam.,bears N.32°20'W.,49 lks. dist.,marked ¼ S 17 BT.

80.16 The cor.of secs.17-18-19 and 20.

Land,rolling,slopes E,

Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.

Timber,cedar and pinon.

Undergrowth,sage brush and grass.

Heavily timbered land on 80.16 chs.

N.89°59'W.,on a random line,bet.secs.18 and 19.

40.00 Set temp.¼ sec.cor.

73.50 Intersect the W.bdy.of Tp.2 lks.S.of the cor.of secs. 13-18-19 and 24.T.31 S.,Rs.19 and 20 W.,heretofore described. Thence I run

S.89°58'E.,on a true line

Bet.secs.18 and 19.

Over gently rolling land,through heavy timber.

33.50 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 18 on N.half,S 19 on S.half,from which

A cedar,12 ins.diam.,bears S.5°05'E.,234 lks. dist.,marked ¼ S 19 BT.

A pinon,12 ins.diam,,bears N.46°45'W.,262 lks. dist.,marked ¼ S 18 BT.

68.80 Wash,3 lks.wide,12 ins.deep,drains NE.

73.50 The cor.of secs.17-18-19 and 20.

Land,rolling,slopes E.

Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.

Timber,cedar and pinon.

CHAINS	
	Undergrowth,sage brush and grass.
	Heavily timbered land on 73.50 chs.
	August 17:At this cor.I set off 13°37'N.,on the decl. arc,and at 12h.4m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°07'N.

	N.0°03'W.,bet.secs.17 and 18.
	Over gently rolling land through heavy timber.
5.30	Wash,3 lks.wide,12 ins.deep,drains NE.
12,60	Wash,4 lks.wide,18 ins.deep,drains NE.
21.30	Wash,3 lks.wide,10 ins.deep,drains NE.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 18 on W.half,S 17 on E.half,from which
	A cedar,14 ins.diam.,bears N.71°20'E.,69 lks. dist.,marked ¼ S 17 BT.
	A cedar,10 ins.diam.,bears S.32°45'W.,36 lks. dist.,marked ¼ S 18 BT.
53.30	Wash,5 lks.wide,18 ins.deep,drains NE.
69.90	Wash,3 lks.wide,12 ins.deep,drains NE.
80.00	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor of secs.7-8-17 and 18,marked on brass cap
	T 31 S S 7 in NW.,
	R 19 W S 8 in NE.,
	S 17 in SE.,and
	S 18 in SW.quadrant,from which
	A cedar,14 ins.diam.,bears N.60°25'E.,442 lks. dist.,marked T 31 S R 19 W S 8 BT.
	A pinon,12 ins.diam.,bears S.44°50'E.,238 lks. dist.,marked T 31 S R 19 W S 17 BT.
	A cedar,6 ins.diam.,bears S.41°45'W.,60 lks. dist.,marked T 31 S R 19 W S 18 BT.

CHAINS

A pinon,12 ins.diam.,bears N.13°20'W.,126 lks. dist.,marked T 31 S R 19 W S 7 BT.

Land,folling,slopes E.

Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.

Timber,cedar and pinon.

Undergrowth,sage brush and grass.

Heavily timbered land on 80.00 chs.

August 17,1911.

August 18:At 8h.4m.,a.m.,l.m.t.,I set off 38°08'N.on the lat.arc,13°22'N.on the decl.arc,and determine a meri dian with the solar at the cor.of secs.7-8-17 and 18.

Thence I run

S.89°53'E.,on a random line,bet.secs.8 and 17.

40.00 Set temp/ ¼ sec.cor.

80.12 Intersect N.and S.line 5 lks.S.of the cor.of secs. 8-9-16 and 17.

Thence I run

N.89°55'W.,on a true line

Bet.secs.8 and 17.

Over gently rolling surface through heavy timber.

11.00 Wash,5 lks.wide,12 ins,deep,drains NE.

20.20 Wash,4 lks.wide,10 ins.deep,drains NE.

40.06 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 8 on N.half,S 17 on S.half,from which

A cedar,6 ins.diam.,bears N.42°25'E.,54 lks. dist.,marked ¼ S 8 BT.

A cedar,6 ins.diam.,bears S.27°20'E.,95 lks. dist.,marked ¼ S 17 BT.

44.30 Wash,5 lks.wide,24 ins.deep,drains NE.

CHAINS	
72.00	Wash,3 lks.wide,12 ins.deep,drains NE.
80.12	The cor.of secs.7-8-17 and 18.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 80.12 chs.
	N.89°58'W.,on a random line,bet.secs.7 and 18.
40.00	Set temp.¼ sec.cor.
73.45	Intersect the W.bdy.of Tp.2 lks.S.of the cor.of secs. 7-12-13 and 18,T.31 S.,Rs.19 and 20 W.,heretofore described.
	August 18:At this cor.I set off 13°18'N.on the decl. arc,and at 12h.4m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°08'N.
	Thence I run
	S.89°57'E.,on a true line bet.secs.7 and 18.
	Descend overrolling land through heavy timber.
17.50	Foot of descent.Over gently rolling land.
33.45	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 7 on N.half,S 18 on S.half,from which
	A cedar,6 ins.diam.,bears S.18°05'E.,42 lks.dist., marked ¼ S 18 BT.
	A pinon,6 ins.diam.,bears N.2°55'W.,7 lks.dist., marked ¼ S 7 BT.
35.90	Wash,3 lks.wide,12 ins.deep,drains NE.
68.50	Wash,4 lks.wide,10 ins.deep,drains NE.
73.45	The cor.of secs.7-8-17 and 18.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.

CHAINS

Timber,cedar and pinon.

Undergrowth,sage brush and grass.

Heavily timbered land on 73.45 chs.

N.0°03'W.,bet.secs.7 and 8.

Over gently rolling land through heavy timber.

1.80 Wash,4 lks.wide,12 ins.deep,drains NE.

36.50 Wash,5 lks.wide,18 ins.deep,drains NE.

40.00 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 7 on W.half,S 8 on E.half,from which

A cedar,7 ins.diam.,bears N.23°55'E.,56 lks. dist.,marked ¼ S 8 BT.

A pinon,8 ins.diam.,bears N.89°25'W.,267 lks. dist.,marked ¼ S 7 BT.

59.80 Wash,3 lks.wide,12 ins.deep,drains SE.

80.00 Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground for the cor.of secs.5-6-7 and 8.,marked on brass cap

T 31 S S 6 in NW.,

R 19 W S 5 in NE.,

S 8 in SE.and

S 7 in SW,quadrant,from which

A pinon,12 ins.diam.,bears N.23°15'E.,50 lks. dist.,marked T 31 S R 19 W S 5 BT.

A cedar,6 ins.diam.,bears S.60°50'E.,16 lks. dist.,marked T 31 S R 19 W S 8 BT.

A cedar,10 ins.diam.,bearsS.50°25'W.,79 lks. dist.,marked T 31 S R 19 W S 7 BT.

A pinon,9 ins.diam.,bears N.53°30'W.,144 lks. dist.,marked T 31 S R 19 W S 6 BT.

Land,rolling,slopes E.

Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on

Chains	
	a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.
	Heavily timbered land on 80.00 chs.
	August 18,1911.
	August 19:At 8h.4m.,a.m.,l.m.t.,I set off 38°09'N.on the lat.arc,13°02'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
	S.89°55'E.,on a random line,bet.secs.5 and 8.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line 2 lks.S.of the cor.of secs.4-5-8 and 9.
	Thence I run
	N.89°56'W.,on a true line
	Bet.secs.5 and 8.
	Over gently rolling land through scattering timber and dense undergrowth.
24.00	Enter heavy timber;bears NW.and SE.
40.05	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 5 on N.half,S 8 on S.half,from which
	A cedar,7 ins.diam.,bears S.45°E.,121 lks.dist., marked ¼ S 8 BT.
	A cedar,8 ins.diam.,bears N.59°15'W.,68 lks.dist., marked ¼ S 5 BT.
80.10	The cor.of secs.5-6-7 and 8.
	Land,rolling,slopes E.
	Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.
	Timber,cedar and pinon.
	Undergrowth,sage brush and grass.

CHAINS

Land covered with dense undergrowth or heavily timbered land on 80.10 chs.

August 19:At this cor.I set off 12°59'N.on the decl. arc,and at 12h.4m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°09'N.

N.89°57'W.,on a random line,bet.secs.6 and 7.

40.00 Set temp.¼ sec.cor.

73.42 Intersect the W.bdy.of the Tp.2 lks.S.of the cor.of secs. 1-6-7 and 12,T 31 S.,Rs.19 and 20 W. heretofore described. Thence I run

S.89°56'E.,on a true line

Bet.secs.6 and 7.

Over gently rolling land through heavy timber.

29.50 Wash,5 lks.wide,12 ins.deep,drains NE.

32.00 Leave gently rolling land,ascend over rolling hills.

33.42 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 6 on N.half,S 7 on S.half,from which

A pinon,11 ins.diam.,bears S.41°40'W.,10 lks. dist.,marked ¼ S 7 BT.

A pinon,9 ins.diam.,bears N.36°55'W.,33 lks. dist.,marked ¼ S 6 BT.

38.50 Top of ascent,spur,projects NE.100 ft.above wash.

Descend.

62.00 Foot of descent.Over gently rolling land.

73.42 The cor.of secs.5-6-7 and 8.

Land,rolling hills.

Soil,clay loam and gravel,6 to 8 ins.deep,2nd rate,on a subsoil of damp stiff clay.

Timber,cedar and pinon.

Undergrowth,sage brush and grass.

Heavily timbered land on 73.42 chs.

August 19,1911.

CHAINS	
	August 21:At 8h.3m.,a.m.,l.m.t.,I set off 38°09'N.on the lat.arc,12°23'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.,bet.secs.5 and 6.
	Over gently rolling land through heavy timber.
18.90	Wash,5 lks.wide,12 ins.deep,drains E.
40.00	Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground for the ¼ sec.cor.,marked on brass cap,¼ S 6 on W.half,S 5 on E.half,from which
	A cedar,8 ins.diam.,bears S.76°45'E.,54 lks.dist., marked ¼ S 5 BT.
	A cedar,7 ins.diam.,bears N.77°50'W.,28 lks.dist., marked ¼ S 6 BT.
66.20	Wash,3 lks.wide,12 ins.deep,drains NE.
69.50	Wash,4 lks.wide,10 ins.deep,drains E.
92.90	Wash,3 lks.wide,15 ins.deep,drains NE.
99.50	Wash,5 lks.wide,18 ins.deep,drains E.
110.00	Intersect the Sixth Standard Parallel South,11.96 chs. W.of the cor.of secs.31 and 32,T.30 S.,R.19 W.,heretofore described.
	Set an iron post,3 ft.long,2 ins.diam.,24 ins.in the ground,for the closing cor.bet.secs.5 and 6,marked on brass cap
	T 30 S S 31 CC S 32 R 19 W on N.half,
	S 5 in SE.,and S6 in SW.quadrant,from which
	A pinon,14 ins.diam.,bears S.67°55'E.,202 lks. dist.,marked T 31 S R 19 W S 5 BT.
	A cedar,10 ins.diam.,bears S.41°30'W.,12 lks. dist.,marked T 31 S R 19 W S 6 BT.
	August 21:At this cor.I set off 12°19'N.on the decl.arc and at 12h.3m.,p.m.,l.m.t.,obsefve the sun on the meridian,the resulting lat.is 38°09'30"N.
	Land,rolling.

CHAINS

Soil,clay loam and gravel,6 to 8 ins.deep,on a subsoil of damp stiff clay.Soil,2nd rate.

Timber,cedar and pinon.

Undergrowth,sage brush and grass.

Heavily timbered land on 110.00 chs.

August 21,1911.

General Description of T.31 S.,R.19 W.

This Tp.is located on the west side of Hamblin Valley. The surface ranges from gently rolling valley to rolling hills.

The mountainous land extends along the west tier through secs.6-7-18-19-30 and 31,the soil of which is generally rocky loam with a subsoil of loose rock and clay,and is unfit for any purpose except grazing land.

The soil of theremaining portion of this Tp.,which is gently rolling valley is a rich clay loam and gravel, 6 to 8 ins.deep,on a subsoil of damp stiff clay and loose rock,and is capable of producing crops with irrigation.

The west half of the Tp.is generally covered with a heavy growth of cedars and pinon pine.

The only water found in this Tp.is in Choke Cherry Creek which flows through secs.30 and 31,sinking in sec.30.

There are no indications of mineral,coal or oil found in this Tp.

There are no settlers nor any improved land in this Tp.

The main road through Hamblin Valley,and numerous other roads cross this Tp.

Ralph Gentry

U.S.Transitman.

4—680

BOOK A-391

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 .....

For certificate of assistants see book "X" T. 31 S., R. 20 W.

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

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

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

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

.....

6—2764 *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 _____

For final oath of transitman see book "X" T. 31 S., R. 20 W.

_____ 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, Feb. 26, 191 4.

The foregoing field notes of the survey of The subdivisional lines of Township No. 31 South, Range No. 19 West of the Salt Lake Base and Meridian, Utah

executed by Ralph Gentry under his special instructions dated August 6, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
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

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Page

G.N.

4—679

BOOK A-391
X.

(277)

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP No.31 SOUTH, RANGE No.20 WEST.

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Ralph Gentry

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* August 6, *1910, issued by the United States Surveyor General to govern surveys included in Group No.* 3, *which were approved by the Commissioner of the General Land Office,* Sept. 12, *1910, pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced August 21, *191*1

Survey completed August 28, *191*1

6—151

Subs - 13-57-03
Clas - 01-40-02

Book 7591

INDEX DIAGRAM.

Township No.31 SOUTH, *Range* No.20 WEST

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6—151

SUBDIVISION OF T.31 S.,R.20 W

Survey commenced August 21,1911, an executed with the instrument described in book "J " of this survey. Iexamine the adjustment of the transit, 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 the cor. of secs. 1-2-35 and 36, on the S. bdy. of Tp. heretofore described, in approximate lat.38° 04' 17"N., longitude 113°59'45"W., I set off 38° 04' on the lat. arc; 12° 16'N., on the decl. arc, and at 4h. 33m. p.m.l.

m.t., determine a meridian with the solar and mark a point thereof, on a stake firmly set in the ground, 5 chs. N. of cor.
At 9h.35m. l.m.t., I observe Polaris ateastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

August 21,1911.

August 22:-At 7h. 30m. a.m.l.m.t., I lay off the azimuth of Polaris, 1° 29' to the west, and mark the meridian thus determined , by driving a tack in the stake set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.
At 8h. 3m. a.m.l.m.t., I set off 37°04' on the lat. arc; 12°03'N. on the decl. arc; and mark a point in the meridian determined with the solar, by driving a tack in the stake already set 5 chs.N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.
The solar apparatus by p.m. and a.m. observations defines positions for meridians, respectively about 0'11" west and 0'16" east of the meridian established by the Polaris observations; therefore,I conclude that the adjustments of the transit are satisfactory.

CHAINS	
	The magnetic bearing of the true meridian at 8h. 30m., a.m., is N.16°W., the angle thus determined gives the mag. decl. 16°E.
	Thence I run
	N.0° 01'W, bet. secs. 35 and 36.
	Over mountainous land, through scattering timber and sage brush and bunch grass.
	Descend.
27.20	Ravine, 275 ft. deep, course NE.
	Ascend.
30.50	Top of spur, 30 ft. high, projects N.75°E.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins, in the ground, for ¼ sec. cor., marked on brass cap ¼ S 35 on W. half and S. 36 on E. half; raise a mound of stone 2½ ft. base, 2 ft. high W. of cor. Pits impracticable.
65,80	Choke Cherry Creek, 125 ft. below top of spur, fresh water, 6 lks. wide, 2 ins. deep, course E.
	Ascend.
80.00	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for cor. of secs. 25-26-35 and 36, marked on brass cap
	T 31 S S 26 in NW.
	R 20 W S 25 in NE.
	S 36 in SE., and
	S 35 in SW., quadrant; from which
	A cedar, 14 ins. diam.,bears N.45°40'E.,299 lks. Dist., marked T.31 S R 20W S 25 B T.
	A pinon, 7 ins. diam., bears S,27°40'E., 243 lks. dist.,marked T.31 S R 20 W S 36 B T.
	There being no other bearing trees available, I raise a mound of stone 2½ ft. base, 2 ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.

CHAINS	
	Timber, scattering cedars and pinon pine.
	Undergrowth, sage brush and bunch grass.
	East, on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect E. bdy. of Tp. 7 lks . N. of cor. of secs. 25-30-31 and 36, heretofore described.
	Thence I run
	N.89° 57'W., on a true line bet. secs. 25 and 36.
	Over mountainous land, through heavytimber, and scattering sage brush and bunch grass.
	Ascend.
17.00	Top of S. end of spur, 100 ft. above sec, cor., bears NW.
	Descend.
24.00	Ravine, 50 ft. deep, course SE.
	Ascend.
39.37	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 25 on N. half, and S 36 on S. half; from which
	A pinon, 6 ins. diam.,bears N.2° 15'W., 70 lks. dist.,marked ¼ S 25 B T.
	A pinon, 8 ins. diam.,bears S.23° 50'E., 111 lks. dist.,marked ¼ S 36 B T.
	August 22: At this cor. I set off11° 59'N., on the decl. arc; and at 12h 3m. l.m.t.,I observe the sun on the meridian, the resulting lat. is 38° 05'.
44.00	Top of ridge, 700 ft. high, bears N. and S.
	Enter scattering timber, bears N. and S.
	Descend.
70.50	Ravine,600 ft. below top of ridge, course S.
	Ascend.
76.00	Top of spur, 80 ft. high, projects S.
	Descend.
79.25	Ravine, 60 ft. deep, course S.
	Ascend.

CHAINS	
79.94	The cor. of secs. 25-26-35 and 36.
	Land, mountainous.
	Soil, light sandy loam and very rocky, 4th rate, on a subsoil of clay and loose rock.
	Timber, cedars and pinon pine .
	Undergrowth of sage brush and bunch grass.
	Heavy timber on 44.00 chs.
	West, bet, secs. 26 and 35.
	Over mountainous land, through scattering timber and sage brush and bunch grass.
	Ascend.
6.50	Top of spur, 40 ft. high, projects S.
	Descend.
20.00	Hollow, 75 ft. deep, course SE.
	Ascend.
38.47	Intersect Utah-Nevada bdy.,15.23 chns. dist.,N.0°24'E., of the 226th mile post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 26 and 35, marked on brass cap.
	UTAH on E. half,and
	CC NEVADA on W. half.
	T 31 S S 26 in NE., and
	R 20W S 35 in SE.,quadrant; raise a mound of stone 2½ ft. base, 2 ft. high E. of cor. Pits impracticable.
	Land, mountainous.
	Soil, light sandy loam, and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.
	August 22, 1911.
	August 23: At 8h 3m a.m.l.m.t., I set off 38° 05' on the lat. arc; 11°43'N. on the decl. arc; and determine a

CHAINS	
	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.
	Over mountainous land,through scattering timber and sage brush and bunch grass.
	Ascend.
16,00	Top of ridge, 175 ft. above sec. cor.,bears E. and W.
	Descend.
21.60	Ravine, 45 ft. deep, course E.
	Ascend.
28.00	Enter heavy timber, bears E. and W.
37.00	Top of spur, 100 ft. high,projects E.
	Descend.
40.00	Set an iron post,3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 26 on W. half, and S 25 on E. half; from which
	A cedar, 12 ins. diam.,bears S.79°35'E., 9 lks. dist.,marked ¼ S 25 B T.
	A pinon, 12 ins. diam.,bears S.16° 05'W., 150 lks. dist.,marked ¼ S 26 B T.
49.50	Ravine,175 ft. deep, course E.
	Ascend.
66.00	A point, 140 ft, above ravine,on E. end of spur.
	Descend.
72.90	Ravine, 25 ft. deep , course E.
	Ascend.
78.00	A point,50 ft. above ravine on E. end of spur.
	Descend.
80.00	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for cor. of secs. 23-24-25 and 26, marked on brass cap
	T 31 S S23 in NW.
	R 20 W S 24 in NE.
	S 25 in SE. ,and
	S 26 in SW., quadrant; from which

CHAINS	
	A pinon, 7 ins. diam., bears N.29° 20'E.,57 lks. dist.,marked T 31 S R 20 W S 24 B T.
	A pinon, 6 ins. diam.,bears S.18° 50'E., 54 lks. dist.,marked T 31 S R 20 W S 25 B T.
	A pinon, 6 ins. diam.,bears S.38°30'W.,53 lks. dist.,marked T 31 S R 20 W S 26 B T.
	A pinon,8 ins. diam.,bears N.52° 25'W.,118 lks. dist.,marked T 31 S R 20 W S 23 B T.
	Land, mountainous.
	Soil,light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, heavy cedars and pinon pine.
	Undergrowth, scattering sage brush and bunch grass.

	S.89°57'E.,on a random line bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect E. bdy. of Tp.,7 lks. N. of cor. of secs. 19-24-25 and 30, heretofore described.
	Thence I run
	N.89°54'W., on a true line bet. secs. 24 and25.
	Over mountainous land, through heavy timber, and scattering sage brush and bunch grass.
	Ascend.
4.00	Top of spur, 20 ft. above sec. cor., projects N.
	Descend.
7.20	Ravine, 25 ft. deep, course N.
	Ascend.
12.00	Top of spur,40 ft. high,projects N.
	Descend.
23.00	Hollow,100 ft. deep, course N.15°E.
	Ascend.
40.02	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 24 on N. half, and S 25 on S. half; from which
	A pinon, 6 ins. diam.,bears N.38° 50'E., 26 lks. dist., marked ¼ S 24 B T.

CHAINS	
	A pinon, 14 ins. diam.,bears S.25° 40'W., 51 lks. dist.,marked ¼ S 25 B T.
	August 23: At this cor. I set off 11° 39'N. on the decl. arc; and at 12h 3m. l.m.t., I observe the sun on the meridian, the resulting lat. is 38° 06'.
42.50	Top of ridge,300 ft.high, bears N. and S.
	Descend.
52.50	Hollow,250 ft. deep, course N.
	Ascend.
56.00	From this point a spring of fresh water bears S.10°57'W.
68.92	From this point a spring of fresh water bears S.44°30'E.
72.00	Top of spur, 280 Ft. high, projects S.
	Descend.
78.00	Ravine, 85 ft. deep, course S.
	Ascend.
80.04	The cor. of sec. 23-24-25 and 26.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, heavy cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.
	West, bet. secs. 23 and 26,
	Over mountainous land, through dense timber, and scattering sage brush and bunch grass.
	Ascend.
21.50	Top of mountain,300 ft. above sec. cor., bears N. and S.
	Enter scattering timber bears N. and S.
	Descend.
37.81	Intersect Utah-Nevada bdy.,16.00 chs.,N.0°32'E., of the 225th mile post, heretofore described.
	Set an iron post, 3ft. long,2 ins. dia.,24 ins. in the ground, for closing cor. of secs.23 and 26, marked on brass cap
	UTAH on E. half,and

CHAINS	
	CC NEVADA on W. half.
	T 31 S S 23 in NE., and
	R 20 W S 26 in SE.,quadrant; raise a mound of stone $2\frac{1}{2}$ ft. base, 2 ft. high E. of cor.Pits impracticable.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.
	August 23,1911.

	August 24: At8h 2m,a.m.l.m.t.,I set off 38° 06' on the lat. arc; 11°-23'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 mountainous land, through timber and scattering sage brush and bunch grass.
	Descend.
2.50	Ravine,85 ft. deep, course SE.
	Ascend.
10.00	Top of spur, 100 ft. high, projects S.60°E.
	Descend.
18.75	Ravine, 125 ft. deep, course E.
	Ascend.
30.00	Top of spur,150 ft. high, projects E.
	Descend.
36.00	Ravine, 150 ft. deep, course E.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 23 on W. half, and S 24 on E. half;from which
	A pinon, 14 ins. dia.,bears N.52°10'W., 29 lks. dist. marked $\frac{1}{4}$ S 23 B T.

CHAINS	
	A cedar, 8 ins. dia.,bears N.76°45'E., 17 lks. dist., marked ¼ S 24 B T.
45.50	Top of spur,75 ft. high, projects NE.
	Enter scattering timber, bears E. and W.
	Descend.
67.75	Ravine, 250 ft. deep, course E.
	Ascend.
72.00	Top of spur,75 ft. high, projects E.
	Descend.
80.00	~~Set~~ Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for cor. of secs. 13-14-23 and 24, marked on bras cap
	T 31 S S 14 in NW.
	R 20 W S 13 in NE.
	S 24 in SE., and
	S 23 in SW.,quadrant, from which
	A pinon, 6 ins. dia.,bears N.9°20'E.,22 lks. dist.,marked T 31 S R 20 W S 13 B T.
	A pinon, 6 ins. dia.,bears N.40°10'W.,35 lks. dist.,marked T 31 S R 20 W S 14 B T.
	There being no other trees available, for bearing trees, I raise a mound of stone, 2½ ft. base, 2 ft, high, W. of cor. Pits impracticable.
	Land. mountainous.
	Soil, light sandy loam and loose rock,4th rate, on a subsoil of clay and loose rock.
	Timber, cedars and pinon pine.
	Undergrowth sage brush and bunch grass.

	S.89° 54'E., on a random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect E. bdy. of Tp. 14 lks. N. of the cor. of secs. 13-18-19 and 24, heretofore described.
	Thence I run
	N.89° 52'W.,on a true line bet. secs. 13 and 24.
	Over mountainous land, through timber and scattering

CHAINS	
	undergrowth of sage brush and bunch grass.
	Descend.
1.25	Ravine, 10 ft. below sec. cor., course NE.
	Ascend.
13.75	Top of ridge, 175 ft. high, bears NE. and SW.
	Descend.
20.60	Ravine,135 ft. deep, course, N.
	Ascend.
28.00	Spur,75 ft. high, projects N.10°E.
	Descend.
38.30	Ravine,50 ft. deep, course NE.
	Ascend.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 13 on N. half, and S 24 on S. half; from which
	A pinon, 6 ins. dia.,bears N.59°10'W.,70 lks. dist., marked ¼ S 13 B. T.
	A cedar, 6 ins. dia.,b ars S.7°20'E.,37 lks. dist., marked ¼ S 24 B. T.
	August 24: At this cor. I set off 11° 19'N., on the decl. arc: and at 12h 3m.,l.m.t., observe the sun on the meridian. The resulting lat. is 38° 07'.
45.00	Spur,50 ft. high, projects N.15°E.
	Descend.
49.30	Ravine, 30 ft. deep, course N.20°E.
	Ascend.
61.00	Spur, 75 ft, high, projects N.
	Descend.
66.00	Enter scattering timber, bears N. and S.
70.80	Hollow, 100 ft. deep, course N.25°E.
	Ascend.
80.08	The cor. of secs. 13-14-23 and 24.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber,cedar and pinon pine.

CHAINS	
	Undergrowth, scattering sage brush and bunch grass.
	West, bet. secs. 14 and 23.
	Over mountainous land, through scattering timber and undergrowth of sage brush and bunch grass.
	Ascend.
14.00	Top of ascent,200 ft. above sec. cor.
	Descend.
17.30	Ravine, 25 ft. deep, course NE.
	Ascend.
20.00	Enter heavy timber, bears N. and S.
23.00	Top of ridge, 350 ft. high, bears N. and S.
	Descend.
36.89	Intersect Utah-Nevada bdy., 16.84 chs. N.0°04'W., of the 224th mile post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 14 and 23, marked on brass cap.
	UTAH on E. half,
	CC NEVADA on W. half.
	T 31 S S 14 in NE., and
	R 20 W S 23 in SE., quadrant; from which
	A pinon, 7 ins. dia.,bears N.34°30'E.,45 lks. dist.,marked T 31 S R 20 W S 14 B T.
	A pinon, 8 ins. dia.,bears S.18°30'E.,27 lks. dist.,marked T 31 S R 20 W S 23 B T.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate. om a subsoil of clay and loose rock.
	Timber, cedars and pinon pine.
	Undergrowth, sage brush and bunch grass.
	August 24, 1911.

August 25: At 8h 2m, a.m.l.m.t.,I set off 38°07' on the lat. arc; 11°02'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13-14-23

CHAINS	
	and 24.
	Thence I run
	N.0° 01'W.,bet. secs. 13 and 14.
	Over mountainous land, through scattering timber and undergrowth of sage brush and bunch grass.
	Descend.
4.00	Ravine, 40 ft. below sec. cor., course E.
	Ascend.
9.00	Top of spur,150 ft. high, projects E.
	Descend.
16.00	Ravine,80 ft. deep, course E.
	Ascend.
32.75	Spur,165 ft. high, projects E.
	Descend.
39.65	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for witness cor. to ¼ sec. cor., marked on brass cap T 31 S R 20 W WC on N. half, ¼ S 14 on W., half, and S 13 on E.half; from which
	A pinon, 12 ins. dia.,bears S.6°45'E.,184 lks. dist.,marked WC ¼ S 13 B T.
	A pinon, 6 ins. dia.,bears N.39°05'W.,121 lks. dist.,marked WC ¼ S 14 B T.
40.00	Ravine, 110 ft. deep, course E.
	Ascend.
52.00	Top of ridge,125 ft. high, bears N.75°E. and S.75°W.
	Descend.
72.00	Hollow,150 ft. deep, course E.
	Ascend.
80.00	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for cor. of secs. 11-12-13 and 14, marked on brass cap
	T 31 S S 11 in NW.
	R 20 W S 12 in NE.
	S 13 in SE., and
	S 14 in SW., quadrant; from which
	A cedar, 8 ins. dia.,bears N.54°55'E.,146 lks. dist.,marked T 31 S R 20 W S 12 B T.

CHAINS	
	A pinon, 12 ins. dia.,bears S.47°30'E., 112 lks. dist.,marked T 31 S R 20 W S 13 B T.
	A cedar, 8 ins. dia.,bears N.48°W., 43 lks. dist.,marked T 31 S R 20 W S 11 B T.
	There being no other trees available for bearing trees, I raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. Pits impracticable.
	Land, mountainous.
	Soil,light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine.
	Undergrowth of sage brush and bunch grass.
	August 25: At this cor, I set off 10°58'N. on the decl. arc; and at 12h. 2m.,l.m.t.,observe the sun on the meridian. The resulting lat. is 38° 07'.

	S.89° 52'E.,on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect E. bdy. of Tp.,10 lks. S. of the cor. of secs. 7-12-13 and 18, heretofore described.
	Thence I run
	N.89° 56'W.,on a true line bet. secs. 12 and 13.
	Over mountainous land,through timber and scattering undergrowth of sage brush and bunch grass.
	Descend.
0.50	Ravine,10 ft. below sec. cor.,course NE.
	Ascend.
20.00	Top of ridge,275 ft. high, bears NE. and SW.
	Descend.
32.90	Ravine,50 ft. deep,course N.15°E.
	Ascend.
40.06	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 12 on N. half, and S 13 on S. half; from which
	A cedar, 12 ins. dia.,bears N.50°E.,35 lks. dist., marked ¼ S 12 B T.

CHAINS	
	A pinon, 8ins. dia.,bears S.9°35'E.,55 lks. dist., marked ¼ S 13 B T.
[illegible]	Cor. stands on ridge, 75 ft. high, bears N. and S.
	Descend.
47.20	Hollow,200 ft. deep, course NE.
	Ascend.
72.00	Top of spur, 400 ft. high, projects S.
	Descend.
80.12	The cor. of secs. 11-12-13 and 14.
	Land mountainous.
	Soil, light sandy loam and loose rock,4th rate, on a subsoil of clay and loose rock.
	Timber, heavy cedars and pinon pine.
	Undergrowth ,scattering sage brush and bunch grass.
	August 25, 1911.

August 26: At 8h. 2m.,a.m.l.m.t.,I set off 38°07' on the lat. arc; 10°41'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

West, bet. secs. 11 and 14.

Over mountainous land, through scattering timber and undergrowth of sage brush and bunch grass.

	Descend.
2.00	Ravine, 15 ft. below. sec. cor., course S.
	Ascend.
28.00	Top of ridge, 300 ft. above ravine, bears N.30°E. and S.30°W.
	Descend.
36.97	Intersect, Utah-Nevada bdy.,17.88 chs. N.0°13'E., of the 223rd mile post heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for closing cor. of secs. 11 and 14, marked on brass cap.
	UTAH on E. half,

CHAINS	
	CC NEVADA on W. half.
	T 31 S S 11 in NE., and
	R 20 W S 14 in SE.,quadrant; raise a mound of stone $2\frac{1}{2}$ ft. base, 2 ft. high E. of cor.Pits impracticable.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, scattering cedars and pinon pine.
	Undergrowth, sage brush and bunch grass.
	N.0° 01'W., bet. secs. 11 and 12.
	Over mountainous land, through scattering timber and undergrowth of sage brush and bunch grass.
	Ascend,
5.50	Top of ridge, 200 ft. above, sec. cor., bears E. and W.
	Descend.
36.70	Hollow, 425 ft. deep, course E.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 11 on W. half, and S 12 on E. half; from which
	A pinon, 9 ins. dia.,bears N.55°45'E.,22 lks. dist., marked $\frac{1}{4}$ S 12 B T.
	A pinon, 9 ins. dia.,bears S.54°20'W.,36 lks. dist., marked $\frac{1}{4}$ S 11 B T.
42.00	Enter heavy timber, bears E. and W.
54.00	Top of spur,100 ft. high,projects E.
	Descend.
57.40	Ravine, 25 ft. deep, course E.
	Ascend.
74.75	Top of ridge, 110 ft. high, bears NE. and SW.
	Descend.
80.00	Set an iron post, 3 ft, long, 2 ins. dia.,24 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked on brass cap.
	T 31 S S 2 in NW.

CHAINS	
	R 20 W S 1 in NE.
	S 12 in SE., and
	S 11 in SW., quadrant; from which
	A pinon, 8 ins. dia.,bears N.22°55'E.,80 lks. dist.,marked T 31 S R 20 W S 1 B T.
	A pinon, 6 ins. dia.,bears S.11°E., 58 lks. dist.,marked T 31 S R 20 W S 12 B T.
	A pinon, 9 ins. dia.,bears S.34°50'W.,14 lks. dist.,marked T 31 S R 20 W S 11 B T.
	A pinon, 10 ins. dia.,bears N.15°40'W.,50 lks. dist.,marked T 31 S R 20 W S 2 B T.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber scattering and heavy cedars and pinon pine.
	Undergrowth, sage brush and bunch grass.
	August 26 : AT this cor. I set off 10°37'N on the decl arc; and at 12h. 2m.,l.m.t., observe the sun on the meridian. The resulting latl is 38° 08'.

	S.89°56'E., on a random lie bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.16	Intersect E. bdy. of Tp.,10 lks. N. of the cor. of secs. 1-6-7 and 12, heretofore described.
	Thence I run
	N.89°52'W., on a true line, bet. secs 1 and 12.
	Over rolling land, through heavy timber and scattering undergrowth of sage brush and bunch grass.
2.60	Wash,10 lks. wide, 1 ft. deep, course NE.
40.08	Set an iron post, 3 ft. long, 1 in. dia.,26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 1 on N. half, and S 12 on S. half, from which
	A pinon, 10 ins, dia.,bears N.10°50'E.,8 lks. dist., marked ¼ S 1 B T.
	A cedar, 8 ins, dia.,bears S.14°40'E.,36 lks. dist., marked ¼ S 12 B T.

CHAINS	
48.00	Foot of mountain, bears NE. and SW.
	Ascend,
78.00	Top of ridge, 500 ft. high, bears NE. and SW.
	Descend.
80.16	The cor. of secs. 1-2-11and 12.
	Land, rolling and mountainous.
	Soil, light sandy loam, and loose rock, 4th rate, on a subsoil of clay and lose rock.
	Timber, heavy cedars and pinon pine.
	undergrowth, scattering sage brush and bunch grass.
	West, bet. secs. 2 and 11.
	Over mountainous land, through timber and scattering undergrowth of sage brush and bunch grass.
	Descend,
10.80	Hollow, 275 ft. deep, course NE.
	Ascend.
36.65	Intersect Utah-Nevada bdy.,48.21 chs., S.0°13'W., of the 221st mile post heretofore described.
	Set an iron post, 3 ft. long, 2 in. dia., 24ins. in the ground, for closing cor. of secs. 2 and 11, marked on brass cap
	UTAH on E., half
	CC NEVADA on W. half,
	T 31 S S 2 in NE., and
	R 20 W S 11 in SE., quadrant; from which
	A pinon, 12 ins. dia.,bears N.63°65'E., 72 lks. dist.,marked T 31 S R 20 W S 2 B T.
	A pinon, 12 ins. dia.,bears S.61°45'E., 71 lks. dist.,marked T 31 S R 20 W S 11 B T.
	Land, mountainous.
	Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.
	Timber, heavy cedars and pinon pine.
	Undergrowth, scattering sage brush and bunch grass.
	August 26.1911.

CHAINS	
	August 28: At 8h.2m.,a.m.l.m.t., I set off 37°08' On the lat. arc; 10°00'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1-2-11 and 12.
	Thence I run
	N.0°01'W., bet. secs. 1 and 2.
	Over mountainous land, through timber and scattering undergrowth of sage brush and bunch grass .
	Descend.
12.50	Hollow,300 ft. deep, course NE.
	Ascend.
24.00	Spur,85 ft. high, projects N.75°E.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 2 on W. half, and S 1 on E. half; from which
	A cedar, 8 ins. dia.,bears S.70°35'E.,55 lks. dist., marked ¼ S 1 B T.
	A cedar, 16 ins. dia.,bears N.86°05'W., 70 lks. dist.,marked ¼ S 2 B T.
	August 28: At this cor. I set off 9° 56' N. on the decl. arc; and at 12h.2m., l.m.mt., observe the sun on the meridian.
	The resulting lat. is 38° 09'.
51.25	Hollow,250 ft. deep, course E.
	Ascend.
72.00	Ridge, 260 ft. high, bears E. and W.
	Descend.
79.00	Ravine,45 ft. deep, course E.
	Ascend.
84.00	Spur, 40 ft. high, projects E.
	Descend.
92.75	Ravine, 150 ft. deep, course, E.
	Ascend.
106.00	Top of ridge, 200 ft. above ravine, bears NE. and SW.
	Descend.
109.90	Intersect the sixth standard parallel south, 5.86 chs. W. of the standard cor. of secs.35 and 36,heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the

CHAINS.

ground for closing cor. of secs. 1 and 2, marked on brass cap

CC T 30 S R 20 W S 35 S 36 on N. half,

S 1 in SE., and

S 2 in SW., quadrant; from which

A pinon, 7 ins. dia.,bears S.9°E.,46 lks. dist., marked T 31 S R 20 W S 1 B T.

A pinon, 8 ins. dia.,bears S.79°W.,79 lks. dist., marked T 31 S R 20 W S 2 B T.

Land, mountainous.

Soil, light sandy loam and loose rock, 4th rate, on a subsoil of clay and loose rock.

Timber, heavy cedars and pinion pine.

Undergrowth, scattering sage brush and bunch grass.

August 28,1911.

Table of Latitudes, Departures, and closing Errors,T.31S.R20W

Line Designated	Course	Dist. chs.	Latitudes North chs.	Latitudes South chs.	Departures East chs.	Departures West chs.
S.bdy. of Tp.	West	118.85				118.85
Ut-Nev.bdy. Tp.cor. to 226M.	N.0°12'E	64.70	64.70		0.22	
226M to 225M	N.0°24'E	79.18	79.18		0.55	
225M to 224M	N.0°32'E	79.05	79.05		0.74	
224M to 223M	N.0°04'W	78.89	78.89			0.09
223M to 221M	N.0°13'E	146.14	146.14		0.54	
221M to Tp.cor.	N.0°10'E	61.78	61.78		0.18	
Six.Stan.Par.S.	East	116.44			116.44	
E. bdy. of TP.	South	510.01		510.01		
Convergency					0.14	
			509.74	510.01	118.81	118.94
				509.74		118.81
Error in lat. and dep.--				0.27		0.13

GENERAL DESCRIPTION OF T.31 S.,R.20 W.

The surface of this township is generally rolling hills and rough mountains, the soil of which is a light sandy

lean and loose rock, on a subsoil of clay and loose, [illegible]
and is covered with a scattering growth of sage brush [illegible]
and nutritious grasses, and is unfit for any purposes,
except grazing.

The only water found in this Tp. is in Choke Cherry Creek
running through secs, 35 and 36, and in a spring in sec.
2.

The township is generally covered with a scattering and
heavy growth of cedars and pinon pine.

There are no settlers in this township.

There are no indications of coal, oil, or mineral found
in this township.

Ralph Gentry
U.S.Transitman.

BOOK A-391

FINAL OATHS OF ~~DEPUTY SURVEYOR AND HIS~~ ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Ralph Gentry Transitman, United States ~~Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the North bdy. T.33 S., R. 20 W.; W.& N. and ret.S.& E.bdrs.T.33 S.R.19 W.; and the subdivision of Tps.33 S., Rs.19 & 20W., S.L.B.& M., Utah, showing the respective capacities in which they acted:

, *Chainman.*

, *Chainman.*

, *Moundman.*

, *Moundman.*

, *Axman.*

Samuel Brooks, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

I ~~We~~ hereby certify that I ~~we~~ assisted Ralph Gentry Transitman, United States ~~Deputy Surveyor~~, in surveying all those parts or portions of the North bdy.of.T.33 S., R. 20 W.; W.and N. and retracement S.and E.bdrs.T.33 S., R. 19 W.; and the subdivisional lines of Tps.33 S., Rs.19 and 20 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of ~~our~~ my knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

, *Chainman.*

, *Chainman.*

, *Moundman.*

Period of Service, Apr.19 1911 to May 30, 1911, ~~*Moundman.*~~

Samuel Brooks, *Axman.*

, *Axman.*

, *Flagman.*

Subscribed and sworn to before me this 30 day of May 1911., ~~mx~~

SEAL

Ralph Gentry
U.S.Transitman

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 19 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

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

..... meridian, in the ..... of ....., which are represented in the foregoing field notes as having been surveyed 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 United States 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.

.....

United States Deputy Surveyor.

Subscribed by said ....., and sworn to before me this ..... day of ....., 19

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 19

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

.....

.....

.....

.....

.....

.....

executed by .....

under his contract No. ....., dated ....., 19 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....

United States 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.

.....

United States Surveyor General.

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4—680

BOOK A-391

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Ralph Gentry, U. S. ~~Surveyor~~ Transitman, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of the subdivisional lines of T.34 S., R. 20 W.; T. 33 S., R. 19 W.; T. 33 S. R. 20 W.; T.32 S., R. 19 W.; T. 32 S.R.20 W.; T. 31 S., R. 19 W.; and T.31 S., R. 20 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 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.	
E. R. Bunbury	April 2,1911	August 29,1911	Chainman
D. M. Jones	April 2,1911	August 29,1911	Chainman
A. Walters	April 2,1911	August,29,1911	Moundman
Sidney Reese	April 2,1911 June 1,1911	April 19,1911 August 29,1911	Axeman
J. Hillyard	April 2,1911	August 29,1911	Flagman

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

Ralph Gentry
U.S. Transitman. ~~U. S. Surveyor.~~

6—2761

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

I, Ralph Gentry, U. S. ~~Surveyor,~~ Transitman do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 6 day of August, 1910, 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 subdivisional lines of T.34 S., R. 20 W.; T.33 S., R.19 W.; T.33 S., R. 20 W.; T.32 S.Rs.19 and 20 W.; T. 31 S., R. 19 W.; and T.31 S., R. 20 W.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes in books L.N.O.Q.S.W.& X. 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.

Ralph Gentry
U. S. ~~Surveyor.~~

Subscribed by said Ralph Gentry, and sworn to before me this 4 day of April, 1912

Thomas Hill
U.S. Surveyor-General for Utahh.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Salt Lake City, Utah, Feb.26, 1914.

The foregoing field notes of the survey of the subdivisional lines of Township No. 31 South, Range No.20 West of the Salt Lake Base and Meridian, Utah,

executed by Ralph Gentry under his special instructions dated August 6, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hill
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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Obs. MFI.
Ex. AKG.

Filed Jan.27, 1912
WSH.

4—679

BOOK A-391

EW.

Book "A"

FIELD NOTES

OF THE SURVEY OF THE

WEST BOUNDARY,

RESURVEY OF THE SOUTH AND EAST BOUNDARIES,

RETRACEMENT OF THE SECOND STANDARD PARALLEL SOUTH,

AND

RETRACEMENT OF SOUTH BOUNDARY UINTAH INDIAN RESERVATION

TOWNSHIP 11 SOUTH, RANGE 14 EAST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

HOWARD W.MILLER

In the capacity of U. S. ~~Surveyor~~ Transitman, *under instructions dated* March 27, *191*1, and Supplemental Special Instructions dated July 28, 1911, *issued by the United States Surveyor General to govern surveys included in Group No.* 11, *which were approved by the Commissioner of the General Land Office,* Apr.20 and Aug.11, *191*1 respectively *pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced August 7, *191*1

Survey completed September 16, *191*1.

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BOOK A-391

INDEX DIAGRAM.

Township ....., *Range* .....

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Resurvey south boundary T. 11. S. R. 14 E.

Chains

Survey commenced August 8, 1911 and executed with a W. and L. E. Gurley solar compass No 10 43 with telescope attachment. The horizontal limb is provided with one vernier which reads to single minutes of arc; which is also the least count of the verniers of the lat. and decl. arcs.
The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the Surveyor General for Utah, March 29, 1911.
I examine the adjustments of the compass 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 made on Polaris I proceed as follows:
At my camp near the center of sec. 35; latitude 39° 49' N.: longitude 110° 20' 31" W.; I set off 39° 50' N. on the lat. arc; 16° 17' N on the decl. arc; and at 4h 06m p. m. l. m. t., determine with the solar a meridian, and mark a point thereof on a tack driven in a hub set firmly in the ground, 5 chs. N. of my station.
At 10h 29.6m p. m. by my watch, which carries correct local mean time, I observe Polaris at eastern

Chains.

elongation, in accordance with the Manual of Instructions and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station

August 8. 1911.

August 9: At 6 a. m. l. m. t., I lay off the azimuth of Polaris, 1° 38' to the west, and mark the meridian thus determined, by cutting a small groove in the hub set August 8, on which the meridian falls 0.4 lks. east of the mark determined by the solar.

At 7h 05m a. m. l. m. t., I set off 39° 50' on the lat arc, 16° 07' N. on the decl. arc; and mark a point in the meridian determined with the solar, by a groove in the hub already set 5 chs. N. of my station; This mark falls 0.3 lks. east of the meridian established by the Polaris observation.

The solar apparatus, by P. M. and a. m. observations, defines positions for meridians, respectively about 21" west and 16" east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument satisfactory.

The magnetic bearing of the true meridian, at 7h 30m a. m., is N 16° 45' W., the angle thus determined gives the magnetic decl. 16° 45' E.

August 9: At the cor. of T.s 11 & 12 S.,

Chains	
	R. 14 & 15 E., which is a sandstone 10 x 8 x 7 ins. above ground, firmly set and marked and witnessed as described by the surveyor General, I set off 16° 0' N. on the decl. arc, and at 12h 05m p.m. l.m.t., observe the sun on the meridian, the resulting lat. is 39° 19' which is within 1' of the proper lat. From the tp. cor., already described I run
	West retracing along the N. bdy sec. 1.
40.00	No trace of the old 1/4 sec. cor. can be found.
	August 9, 1911.
	August 10: At 8h 05m a.m. l.m.t. I set off 39° 19' on the lat. arc, 15° 48' N. on the decl. arc, and determine a meridian with the solar at my 40.00 ch. point set August 9. Thence I continue West.
68.95	Fall 2.7 lks. N. of a 1/4 sec. cor., which is a sandstone 13 x 13 x 11 ins. above ground, firmly set, marked 1/4 on N. face, from which
	A pinon, 11 ins. diam., bears N. 18° W., 114 lks. dist., marked 1/4 S 36 BT.
	A pinon, 5 ins. diam., bears S. 12 1/4° E., 92 lks. dist., marked 1/4 S 1 BT.
	The true bearing of this line is therefore S. 89° 47' W. and the distance is 68.95 chs.
	From the 1/4 sec. cor. I continue West.
11.95	Fall 17 lks. S. of the closing cor. of

Resurvey of the south boundary of T. 11 S., R. 14 E.

Chains	
	secs. 1 and 2 which is a sandstone 8 x 7 x 14 ins. above ground firmly set, marked with 1 notch on E. and 5 notches on W face with 6 notches and CC on S face; from which A pinon, 5 ins. diam., bears S. 34° E. 51 lks. dist., marked T 12 S R 14 E S 1 BT A pinon, 9 ins. diam., bears S. 49¼° W 86 lks. dist., marked T 12 S R 14 E S 2 BT. The true bearing of this line is N. 89° 12' W. and the distance is 1195 chs.
	West, retracing bet secs. 2 & 35.
40.00	No trace of old ¼ sec. cor. can be found
79.70	Fall 12 lks. N. of the closing cor. of secs. 2 & 3 which is a sandstone 16 x 10 x 8 ins. above ground firmly set, marked CC and 6 notches on S face, 2 notches on E. edge and 4 notches on W. edge; from which A pinon, 12 ins. diam., bears S. 35° E., 104 lks. dist., marked T 12 S R. 14 E S 2 BT A spruce, 12 ins. diam., bears S 50° W., 143 lks. dist., marked T 11 T 12 S R 14 E S 3 BT. The true bearing of this line is S. 89° 55' W., and the distance is 79.70 chs. Note: The sky is overcast at noon, observations for latitude impossible.
	West, retracing line bet secs 3 & 34.
28.48	Fall 4 lks N. of the cor. of secs. 2, 3, 34 & 35. which is a sandstone

Resurvey of the South boundary of T 11 S. R. 10 E.

chains.	
	10 x 10 x 5 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General. The true bearing of this line is S. 89° 55' W., and the distance is 28.48 chs.
	August 10, 1911
	August 11: At 8h. 05m. a.m. l.m.t., I set off 39° 49' on the lat. arc; 15° 31' N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35
	Thence I run West, retracing bet. secs. 3 and 34
	At 40.00 chs. no trace of the old 1/4 sec. cor. can be found and at 80.00 chs. no trace of the cor. of secs. 3, 4, 33 and 34 can be found.
	August 11: Sky overcast, observations for latitude impossible.
	Not finding any corners along this line of survey, I continue my line West.
120.00	Cease work.
	August 11, 1911
	August 12: At 8h. 05m. a.m. l.m.t., I set off 39° 49' on the lat. arc; 15° 13' N., on the decl. arc; and determine a meridian with the solar at this station.
	Thence I continue, West, retracing the old tp. bdy.
200.00	August 12: At this station I set off 15° 10' N., on the decl. arc; and at 12h. 05m. p.m. l.m.t., observe the sun on the meridian; the resulting lat. is 39° 49'.
240.00	Cease work.
	August 12, 1911

Resurvey of the south boundary of T. 11 S., R.

Chains

August 14: At 8h. 05m. a.m. l.m.t.,
I set off 39°49' on the lat. arc;
14° 37' N., on the decl. arc; and
determine a meridian with the
solar at this station
Thence I continue
West, retracing old tp. line and at
318. chs. fall 46 lks. N. of the
cor. of Ts. 11 & 12 S., Rs. 13 & 14 E.,
which is a sandstone 10 x 8 x 6 ins
above ground, firmly set, and
marked and witnessed as
described by the Surveyor General
August 14: The sky is overcast,
observations for lat. impossible
This falling answers to a correction
of 11 2/3 lks. or 5' per mile. There
being subdivisions dependent
upon this line, I therefore resurvey
this line to set missing cors. for
T. 12 S., R. 14 E., and new cors. for
T. 11 S., R. 14 E. as follows:
From the tp. cor. already described
I run
N. 89° 55' E., resurveying bet. secs. 6 & 31.
Over mountainous land through
dense forest of cedar, pinon and
spruce, and dense undergrowth
of chaparral.
37.75 Porportionate measurement, Set a
flint stone, 28 x 18 x 7 ins., 21 ins. in
the ground for reestablished 1/4 sec.
cor. on the N. bdy sec. 6, T. 12 S., R. 14 E.,
marked 1/4 on S. face, raise a
mound of stone, 2 ft. base, 1 1/2 ft.
high S. of cor.
Pits impracticable
Trees within limits but none
suitable for bearing trees.

Resurvey of the south boundary of T. 11 S., R. 14 E.

Chains	
39.60	Hollow, 75 ft. deep, drains NE. Ascend
48.70	Top of ascent, 125 ft. above hollow bears NE. and SW. Descend abruptly over ledges.
66.10	Hollow, 500 ft. deep, drains SE. Ascend abruptly.
67.08	Set a sandstone, 32 x 18 x 12 ins., 24 ins. in the ground for 1/4 sec. cor. on the S. bdy. sec. 31, T. 11 S., R. 14 E., marked 1/4 on N. face: raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable Trees within limits but none suitable for bearing trees.
75.60	Spur, 150 ft. above hollow, projects south Leave dense timber, bears N. & S. Thence over land facing south towards Nine Mile Canyon, gradually descending
77.79	Proportionate measurement, Set a sandstone, 28 x 11 x 6 ins; 21 ins. in the ground for reestablished cor. of Secs. 5 & 6, T. 12 S., R. 14 E., marked with 1 notch on West and 5 notches on E. edge; raise a mound of stone, 2 ft. base, 1 1/2 ft. high S. of cor. Pits impracticable Continue along south slope.
107.08	Set a sandstone, 24 x 13 x 7 ins., 18 ins. in the ground for cor. of secs. 31 and 32 on the S. bdy. T. 11 S., R. 14 E., marked with 5 notches on E. and 1 notch on West edge, raise a mound of stone, 2 ft. base, 1 1/2 ft. high N. of cor.

Resurvey of the south boundary T. 11 S., R. 14 E.

Chains	
	Pits impracticable Land mountainous with a southerly drain. Soil, rocky and loose shale rock with very hard clay and rock sub-soil; 4th rate. Timber, cedar, pinon and spruce Undergrowth, chaparral. Land mountainous heavily timbered and covered with dense undergrowth 107.08 chs.
	N. 89° 55' E., resurveying on south bdy. sec. 32. Over mountainous land facing south into nine mile canyon.
4.00	Begin descent into Gulch.
10.74½	Proportionate measurement, Set a sandstone 15 x 10 x 6 ins., 10 ins in the ground for reestablished 1/4 sec. cor. on the north bdy sec. 5, T. 12 S., R. 14 E., marked 1/4 on S. face: raise a mound of stone, 2 ft. base, 1½ ft. high S. of cor., Pits impracticable. Descend abruptly:
22.30	Gulch, 300 ft. below sec. cor., course S. Ascend abruptly 200 ft. over ledges.
30.00	Spur, projects S. 30° W. Descend gradually over exceptionally steep south slope.
40.00	Ledge 50 ft. high bears NE. & SW. Point for 1/4 cor. on ledge where it cannot be set.
41.00	Set a sandstone, 24 x 18 x 5 ins., 18 ins. in the ground for witness cor. to the 1/4 sec. cor. on the south boundary sec. 32, T. 11 S., R. 14 E., marked W C 1/4 on N. face; raise

Resurvey of the south boundary, T. 11 S., R. 14 E.

Chains	
	a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Pits impracticable.
42.00	Head of Gulch, drains SW.
	Enter scattering cedar & pinon.
	Ascend abruptly over ledges.
50.78	Porportionate measurement set a limestone, 24 × 9 × 5 ins., 18 ins. in the ground for reestablished cor. of secs. 4 & 5, T. 12 S., R. 14 E., marked with 2 notches on west and 4 notches on east edge; raise a mound of stone, 2 ft. base, 1½ ft. high S. of cor.
	Pits impracticable
	No suitable trees within limits.
52.50	High ridge and divide between Nine Mile and Argyle Canyons, 450 ft. above gulch and 1200 ft. above Nine Mile Canyon bears N. 20° W. 8 chs., thence west and S. 20° E.
	Enter dense forest of spruce, pinon and cedar and chaparral undergrowth. Begin exceptionally steep descent into Argyle Canyon.
80.00	800 ft. below ridge.
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of earth and stone, 4 ft. base, 2 ft. high for cor. of secs. 32 & 33 on the south boundary of T. 11 S., R. 14 E., marked on brass cap.
	T 11 S S 32 in NW., and R 14 E S 33 in NE. quadrant, from which
	A spruce, 10 ins. diam., bears N. 35° W. 101 lks. dist., marked.

Resurvey of the south boundary of T. 11 S., R. 14 E

Chains

T 11 S R 14 E S 32 B T
A spruce, 11 ins. diam., bears N. 16° E., 139 lks. dist., marked
T 11 S R 14 E S 33 B T.
on account of natural obstacles I am unable to set post in ground
Land, mountainous, draining South on West 52.50 chs. and NE. on East 27.50 chs
Soil, loose shale rocks and rocky with hard clay and rock subsoil of volcanic formation.
Timber, spruce, pinon and cedar.
Undergrowth, Chaparral.
Land, mountainous, heavily timbered and covered with dense undergrowth and exceptionally difficult to survey 80.00 chs.

N. 89° 55' E., resurveying on the S. bdy of sec. 33.
Over mountainous land, through dense forest of spruce, pinon and cedar, and dense undergrowth of chaparral.
Descend abruptly over ledges into Argyle Canyon.
5.60 Base of mountain, bears N. & S.
Leave timber enter dense brush.
Thence across bottom of canyon.
7.60 Enter cultivated field, bears N. & S.
10.81½ Porportionate measurement.
Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for reestablished 1/4 sec. cor. on the N. bdy. of sec. 4, T. 12 S., R. 14 E., marked on brass cap 1/4 S 4 on S. half, 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 S. of cor.

Resurvey of the south boundary of T. 11 S., R. 14 E.

Chains.	
11.80	Leave cultivated land bears N 60 W., and S 70° E.
	Enter dense brush.
16.00	Argyle Creek in canyon, 20 lks wide, 6 to 8 ins. deep, pure water, course S. 30° E.
16.40	Road, bears N 20° W. and S.
17.50	Leave brush and canyon bottom, bears N. & S.
	Begin steep ascent over ledges on east side of canyon.
	Enter forest of spruce, pinon and cedar.
40.00	700 ft. above canyon.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., on the south boundary of sec. 33, T 11 S., R. 14 E., marked on brass cap, 1/4 S 33 on N. half: raise a mound of stone, 2 ft. base 1 1/2 ft. high N. of cor.
	Pits impracticable
	No suitable trees within limits
	Note: This cor. is situated at the base of a 50 ft. ledge, bearing N. 70° W and SE.
	Continue to ascend.
50.85	Proportionate measurement
	Set a sandstone, 24 x 11 x 7 ins., 18 ins. in the ground for reestablished cor. of secs. 3 & 4 on the N. Bdy. of T. 12 S., R. 14 E., marked with 3 notches on East and 3 notches on west edge, from which
	A cedar, 16 ins. diam., bears S. 28 1/2° E., 57 lks. dist., marked T 12 S R 14 E S 3 BT
	A cedar, 10 ins. diam., bears S. 40° W., 52 lks. dist., marked T 12 S R 14 E S 4 BT.

Resurvey of the south boundary of T. 11 S., R. 14 E.

Chains

53.00 High ridge, 930 ft. above Argyle Creek, brass N. & S. 35° E.
Begin descent of eastern slope of ridge over series of ledges 15 to 20 ft high.

80.00 830 ft. below ridge
Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of earth and stone for cor. of secs. 33 and 34 on the south bdy. of T. 11 S., R. 14 E., marked on brass cap

T 11 S S 33 in NW. and
R 14 E S 34 in NE. quadrant;

raise a mound of stone, 2 ft. base 1½ ft. high N. of cor.
Pits impracticable
Trees within limits but are too poor to mark.
On account of natural obstacles I am unable to set post in ground.
Land mountainous, forming walls of Argyle and Nine mile canyons.
Soil in Argyle canyon, rich sandy loam with deep sand sub-soil: 1st rate. Remaining part, loose shale rock and rocky with hard clay and rock sub-soil, 4th rate.
Timber, spruce, pinon and cedar.
Undergrowth, chaparral.
Land mountainous heavily timbered and covered with dense under-growth and exceptionally difficult to survey 80.00 chs.

N. 89° 55' E., resurveying south bdy. sec. 34.
Over mountainous land through dense forest of cedar and pinon and undergrowth of chaparral.

Resurvey of the south boundary of T. 11 S., R. 14 E.

Chains	
	Ascend abruptly over ledges.
3.80	Base mountain, bears N. & S. 50 ft. below sec. cor, leave timber
	Price - Vernal telephone line, bears N. & S.
4.30	Wagon road from Price to Vernal Utah, bears N. & S.
5.30	Wire fence bears N. 30° E and S. Enter Lee's cultivated field.
10.88	By proportionate measurement. Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground for reestablished 1/4 sec. cor. on the N. Bdy. sec. 3, T. 12 S., R. 14 E., marked 1/4 S. 3 in S. half, 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 S. of cor. Leave cultivated field, enter dense chaparral undergrowth.
17.80	Nine mile creek in canyon, 30 lks. wide, 6 to 8 ins. deep, course N.E.
18.60	Base of spur, bears N. & S. Ascend abruptly over ledges
22.70	Top spur, 125 ft. above creek, projects N. Descend over land facing east.
28.40	Nine mile creek, 40 lks. wide, and base of spur, course SE.
31.30	Rail fence, bears N. and S 70 lks., thence S 70° E. Enter Harmons cultivated field. Thence across field.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground for 1/4 sec. cor. on the S. bdy. of sec. 34, T. 11 S., R. 14 E., marked 1/4 S 34 on N. half, dig pits, 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist., raise a mound of

Chains.	
	earth, 3½ ft. base, 1½ ft. high N. of cor.
43.00	Leave cultivated field, bears N. & S. Enter dense undergrowth of greasewood 5 to 6 ft. high.
46.45	Rail fence, bears N. & S. Thence over stony ground.
50.92	The old cor. of secs. 2, 3, 34 & 35 heretofore described. I destroy all marks on this cor.
64.30	Nine mile creek, 30 lks. wide, course N.E.
65.30	Base of mountain, bears NE. and SW. Leave dense undergrowth, enter forest of cedar, pinon and spruce. Begin steep ascent over NE slope over series of ledges.
79.40	The closing cor. of secs. 2 & 3, T. 12 S., R. 14 E. heretofore described.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of earth and stone 4 ft base 2 ft. high, for cor. of secs. 34 and 35 on the S. bdy. of T. 11 S., R. 14 E., marked on brass cap: T 11 S S 34 in NW., and R 14 E S 35 in NE. quadrant, raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable. No suitable trees within limits. Note, on account of natural obstacles I am unable to set post in the ground. Land level and mountainous. Soil on level land in canyons, generally rich sandy loam and some stony with a deep sandy sub-soil - 1st rate. Soil of mountainous portion loose shale and rocky with a hard clay and

Resurvey of the south boundary of T. 11 S., R. 14 E.

Chains.	
	rocky of volcanic formation; 4th rate. Timber, some cedar, pinon and spruce on mountainous part. Undergrowth chaparral and greasewood. Land mountainous, heavily timbered or covered with dense undergrowth 80.00 chs.
	N. 89° 55' E., resurveying on S. bdy. sec. 35. Over mountainous land through forest of spruce, pinon and cedar, and some chaparral undergrowth. Ascend abruptly over ledges.
8.00	Ridge, 200 ft. above sec. cor., bears NE. and SW., Descend.
11.30	Hollow, 125 ft. deep, drains N. 35° E. Ascend 40 ft. to
15.00	Spur, projects N. Descend 40 ft. to
20.00	Hollow, drains NW. Ascend abruptly over loose shale rock.
34.75	High point on ridge and junction of ridge and spur, bears NE. and SW., Spur projects NW; 400 ft. above hollow. Descend.
39.25	By proportionate measurement. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for reestablished 1/4 sec. cor. on N. bdy sec. 2. T. 12 S., R. 14 E., marked on brass cap 1/4 S 2 on S. half; from which.

Resurvey of the South bdy. of T. 11 S. R. 14 E.

Chains	
	A pinon, 10 ins. diam., bears S. 11¼° W. 62 lks. dist., marked 1/4 S 2 BT.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor. on the south bdy. of sec. 35, T. 11 S., R. 14 E., marked on brass cap 1/4 S 35 on N. half; from which
	A spruce, 8 in. diam., bears N. 2½° E. 67 lks. dist., marked 1/4 S 35 BT.
42.20	Hollow, 100 ft. deep, drains N.
	Ascend 125 ft. to
45.50	Spur, projects N.
	Descend.
52.40	Hollow, 75 ft. deep, drains N.
	Ascend 150 ft. to
61.00	Spur, projects N.
	Descend abruptly
65.90	Hollow, 125 ft. deep, drains N.
	Ascend abruptly 250 ft. to
73.20	High ridge, bears NW and SE.
	Thence over land facing N.
79.10	The closing cor. of secs. 1 and 2, T. 12 S. R. 14 E. heretofore described
	Thence S. 89° 12' E., with continuous chaining
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in a mound of earth and stone, 4 ft. base, 2 ft. high for cor. of secs. 35 and 36 on the south bdy. of T. 11 S., R. 14 E., marked on brass cap, T 11 S S 35 in NW. and R 14 E S 36 in NE. quadrant, raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
	Pits impracticable
	Note: On account of natural obstacles I am unable to set post.

Resurvey of the south bdy. of T. 11 S., R. 14 E.

Chains	
	in the ground.
	Land mount anous with very steep north slope forming the south wall of Nine mile Canyon.
	Soil, loose shale rock and rocky with a hard clay and rock sub soil of volcanic formation; 4th rate.
	Timber, Junon, spruce and cedar.
	Underg rowth, Chaparral.
	Land mount anous, heavily timbered and covered with dense underg rowth and exceptionally difficult to survey 80.00 chs.
	S. 89° 12' E., resurveying south bdy. sec. 36.
	Over steep mount anous land facing north through forest of Cedar, junon and spruce and underg rowth of Chaparral.
11.05	The 1/4 sec. cor. on the N. bdy sec. 1, heretofore described. I destroy all marks on old cor., pertaining to sec. 36.
	Thence
	N. 89° 47' E. with continuous chaining
12.00	Ridge spur, projects NE.
	Begin steep descent over land facing east over series of ledges and loose shale rock.
25.50	Hollow, 500 ft. below ridge, drains NE.
	Ascend 150 ft. to
36.50	Spur, projects N. 30° E.
	Descend.
39.20	The point for the 1/4 sec. cor.

Resurvey of the south boundary of T. 11 S., R. 14 E.

Chains	
	will fall on solid sandstone ledge where cor. cannot be set. I therefore perpetuate cor. on solid ground at this point as follows:
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in a mound of earth and stone for witness cor. to the 1/4 sec. cor. on the South bdy. of T. 11 S., R. 14 E., marked on brass cap T 11 S R 14 E S 36 on N. half with WC 1/4 to the east; raise a mound of stone, 2 ft. base; 1 1/2 ft. high N. of cor.
	Pits impracticable
	No suitable trees within limits
	Note: On account of natural obstacles I am unable to set post in the ground.
40.00	Point for 1/4 sec. cor. on face of sandstone ledge, 50 ft. high.
	Descend abruptly.
45.20	Hollow, 150 ft. deep, drains N. 30° E.
	Ascend abruptly over ledges.
58.60	Ridge, 360 ft. above hollow, bears NE. and S.
	Descend abruptly over ledges.
67.20	Hollow, 225 ft. deep, drains N. 30° E.
	Ascend abruptly over ledges 220 ft. to
79.10	Spur, projects NE.
	Thence over land draining and facing north
80.00	The cor. of Ts. 11 + 12 S., Rs. 14 + 15 E. heretofore described
	Land mountainous and very steep, forming the south wall of Nine Mile Canyon.
	Soil, shale rocks and rocky

Recovery of the south bdy. of T. 11 S., R. 14 E.

Chains

with a hard baked clay and rock sub soil of volcanic formation; 4th rate
Timber, pinon, spruce and cedar:
Undergrowth chaparral
Land mountainous, heavily timbered and covered with dense undergrowth and exceptionally difficult to survey 80.00 chs.
August 14, 1911

Resurvey of the east bdy. T. 11 S. R. 14 E.

Chains

August 23: At 8h. 03m. a.m. l.m.t., I set off 39° 50' on the lat., arc, 11° 43' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30 heretofore described

Thence I run

North, retracing brt. secs. 19 & 24.

39.84 Fall 14 lks W. of the 1/4 sec. cor., which is a sandstone, 14 x 10 x 4 ins above ground, firmly set, and marked and witnessed as described by the Surveyor General.

The true bearing of this line is N. 0° 12' E., and the distance is 39.84 chs.

From the 1/4 sec. cor., I continue North.

39.40 Fall 37 lks West of the cor. of secs 13, 18, 19 & 24 which is a sandstone 19 x 19 x 5 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

The true bearing of this line is N. 0° 32' E., and the distance is 39.40 chs.

North, retracing line brt. secs. 13 & 18.

40.25 Fall 8 lks. W. of the 1/4 sec. cor., which is a iron quartzite stone firmly set in a mound of stone, 8 x 7 x 4 ins. above the mound, marked and witnessed as described by the surveyor General.

The true bearing of this line is N. 0° 07' E., and the distance is 40.25 chs.

From the 1/4 sec. cor., I continue

Resurvey of the East boundary of T. 11 S., R. 14 E.

Chains.	
	North.
39.83	Hace 21 lks E. of the cor. of secs. 7, 12, 13 and 18, which is a sandstone 10 x 6 x 5 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General. The true bearing of this line is N. 0° 18' W., and the distance is 39.83 chs
	North, retracing bet. secs. 7 & 12.
39.69	The 1/4 sec. cor., which is a sandstone 12 x 10 x 14 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General. The true bearing of this line is North and the distance is 39.69 chs.
	From the 1/4 sec. cor., I continue my line North.
39.56	Fall 33 lks. W. of the cor. of secs. 1, 6, 7 & 12 which is a sandstone, 12 x 22 x 3 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General. The true bearing of this line is N. 0° 28' E., and the distance is 39.56 chs. August 23: At this sec. cor., I set off 11° 39' N. on the decl. arc; and at 12h 03m p. m. l. m. t., observe the sun on the meridian the resulting lat is 39° 53'.
	North, retracing bet secs 1 & 6.

Resurvey of the east boundary of T. 11 S., R. 14

Chains	
40.76	Hall 90 lks E. of the 1/4 sec. cor. which is a sandstone 15 x 8 x 4 ins. above ground firmly set and marked and witnessed as described by the Surveyor General. The true bearing of this line is N. 1° 16' W., and the distance is 40.77 chs. From the 1/4 sec. cor. I continue North.
40.75	Hall 17 lks. E. of the closing cor. of T. 11 S., Rs 14 & 15 E on the Second Standard Parallel South which is a limestone 9 x 24 x 4 ins. above ground firmly set and marked and witnessed as described by the Surveyor General. The true bearing of this line is N. 0° 15' W., and the distance is 40.75 chs. From this closing cor. the Standard cor. of T. 10 S. Rs 14 & 15 E. which is a sandstone 13 x 16 x 6 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General, bears N. 89° 07' E., 8.42 chs. dist.
	The distance between the cor. of secs. 19, 24, 25 & 30 and the closing cor. of T. 11 S., R. 14 & 15 E is 320.09 chs. The east boundary of this tp. between these corners is out of limits in course and distance. There being subdivisions dependent upon this line I therefore resurvey the line, to set corners referring to T. 11 S., R. 14 E.

Resurvey of the east boundary of T. 11 S., R. 14 E.

Chains	
	From the closing cor. of T. 11 S., R. 14 E. heretofore described I run
	S. 0° 15' E., resurveying bet. secs. 1 & 6
	Gradually ascend over mountainous land, through forest of cedar and pinon
21.75	A pen, 100 ft. above closing cor., projects NE.
	Descend
29.95	Hollow, 125 ft. deep, drains NE.
	Ascend through dense timber
40.09	Set a sandstone, 21 x 12 x 5 ins., 18 ins. in the ground for 1/4 sec. cor., on the east bdy. sec. 1, T. 11 S., R. 14 E. marked 1/4 on W. face; from which
	A cedar, 12 ins. diam., bears S. 88 1/4° W. 48 lks. dist., marked 1/4 S 1 B.T. ✓
40.75	The 1/4 sec. cor. on W. bdy sec. 6, T. 11 S., R. 15 E., heretofore described. I destroy all marks on old cor., pertaining to sec. 1.
	Thence, S. 1° 16' E., with continuous chaining
41.00	Ridge, bears NE. & SW
	Descend
51.30	Hollow, 125 ft. deep, drains NE.
	Ascend
58.60	High divide between Nine Mile canyon and Green river basin bears N. 70° E. and S. 70° W.
	Descend abruptly 125 ft. to
65.10	Head of fork of Pete's canyon, course SW.
	Thence over rough rocky land facing West.
80.04	A southing of 80.08 chs.

Resurvey of the east bdy of T. 11 S., R. 14 E.

Chains

Set a sandstone, 28 x 16 x 6 ins., 21 ins. in the ground for cor. of secs. 1 & 12, on the east bdy. of T. 11 S., R. 14 E., marked with 1 notch on N. and 5 notches on S. edge; from which
A pinon, 10 ins. diam., bears N. 61¼ W., 83 lks. dist., marked
T 11 S R 14 E S 1 BT
A pinon, 12 ins. diam., bears S. 31¼ W. 43 lks. dist., marked
T 11 S R 14 E S 12 BT
Land mountainous.
N. 55.60 chs. north slope and drain from high divide of Anthoe mountain, S. 20.06 chs. S. slope and drain from divide
Soil, rocky with clay and rock sub-soil of volcanic formation. 4th rate.
Timber, dense cedar and pinon.
Land, mountainous or heavily timbered 80.09 chs.

S. 1° 16' E., resurveying on E. bdy. of sec. 12.
1.13 The cor. of secs. 6 & 7. T. 11 S., R 15 E. heretofore described.
I destroy all marks on old cor. pertaining to secs. 1 & 12.
Thence
S. 0° 28' W. with continuous chaining.
Continue along west slope of ridge, through forest of cedar and pinon and undergrowth of chaparral
33.10 Open, projects west.
Descend abruptly.

Resurvey of the east bdy. of T. 11 S., R. 14 E.

Chains	
40.00	Set a sandstone, 24 x 12 x 3 ins. 18 ins. in the ground for 1/4 sec. cor. on the east bdy. of sec. 12, T. 11 S., R. 14 E., marked 1/4 on W face, from which A pinon, 13 ins. diam., bears S. 64 1/4° W., 141 lks. dist., marked 1/4 S 12 BT.
40.99	The 1/4 sec. cor. on the W. bdy. of sec. 7, T. 11 S. R 15 E., heretofore described. I destroy all marks on old cor. pertaining to sec 12. Thence South, with continuous chaining Continue steep descent.
43.00	Hollow, drains W. Ascend abruptly
54.00	Ridge, 175 ft. above hollow, bears N 40° W and S 40° E. Descend abruptly.
60.00	Hollow, 150 ft. deep, drains W. Ascend 40 ft to
61.50	Ridge, bears N. 10° E. and S. 10° W. Thence gradually descend over rocky land sloping SE.
80.00	175 ft. below ridge. Set a sandstone, 18 x 16 x 4 ins., 12 ins. in the ground for cor. of secs. 12 and 13 on the east bdy. of T. 11 S., R. 14 E., marked with 2 notches on N. and 4 notches on S. edge, from which A pinon, 6 ins. diam., bears N. 43 1/4° W., 55 lks. dist., marked T 11 S R. 14 E S 12 BT A pinon, 8 ins. diam., bears S. 53 1/2° W., 90 lks. dist., marked.

Resurvey of the east boundary of T. 11 S., R. 14 E.

Chains	
	T 11 S R 14 E S 13 B.T.
	Land, mountainous draining south along East and West slopes of ridge.
	Soil loose shale rock and rocky with hard clay and rock sub soil; 4th rate.
	Timber dense cedar and pinon, Undergrowth, chaparral.
	Land mountainous, heavily timbered or covered with dense undergrowth 80.00 chs
	South, resurveying east bdy sec. 13.
	Over mountainous land facing nearly east, through forest of cedar and pinon and dense undergrowth of chaparral.
	Gradually descend.
0.68	The cor. of secs. 7 & 18 on the West bdy. of T. 11 S., R. 15 E. heretofore described.
	I destroy all marks on old cor. pertaining to secs. 12 and 13.
	Thence
	S. 0° 18' E., with continuous Chaining
5.40	Begin steep descent
13.50	Hollow, 200 ft. deep, drains E.
	Ascend.
29.90	Enter opening, brans West & SE.
34.50	Leave opening, brans E. and W.
40.00	Ridge, brans N. 20° W and SE.
	Set a sandstone 40 x 18 x 3 ins., 30 ins. in a mound of earth and stone for 1/4 sec. cor. on the east bdy. of sec. 13, T. 11 S., R. 14 E., marked 1/4 on W. face; from which

Resurvey of the east bdy. of T. 11 S., R. 14 E.

chains	
	A pinon, 7 ins. diam., bears N. 69¼° W. 27 lks. dist., marked 1/4 S 13 BT.
	Descend abruptly.
40.51	The 1/4 sec. cor. on the W. bdy. of sec. 18, T. 11 S., R. 15 E., heretofore described. I destroy all marks on old cor. pertaining to sec. 13. Thence S. 0° 07' W., with continuous chaining.
51.66	Hollow, 130 ft. below, ridge, drains SW. Thence over rocky land sloping west, through scattering timber.
80.00	Set a limestone, 24 x 9 x 7 ins., 18 ins. in the ground for cor. of secs. 13 and 24 on the east bdy. of T. 11 S., R. 14 E., marked with 3 notches on N. and 3 notches on S. edge; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. No suitable trees within limits. Land mountainous with southerly drain. Soil, rocky with hard clay and rock sub soil, 4th rate. Timber, cedar and pinon. Undergrowth, chaparral. Land mountainous heavily timbered or covered with dense undergrowth 80.00 chs.
	S. 0° 07' W., resurveying on the east bdy of sec. 24. Over open mountain top,

Resurvey of the east boundary of T. 11 S., R. 14 E.

Chains	
	gradually descending through short shadscale undergrowth.
0.76	The cor. of secs. 18 and 19 on the west boundary of T. 11 S., R. 15 E., heretofore described. I destroy all marks on old cor. pertaining to secs. 13 and 24. Thence S. 0° 32' W., with continuous chaining
19.75	Enter cedar and pinon timber, bears E. and W.
22.10	Begin steep descent into Pete's canyon over land facing south.
36.20	Wash in canyon, 25 lks. wide, 300 ft. below top of canyon, course S. 70° E. Ascend 60 ft. to
40.00	Set a limestone 28 x 9 x 9 ins., 21 ins. in the ground for 1/4 sec. cor. on the east bdy. of sec. 24, T. 11 S., R. 14 E., marked 1/4 on W. face; from which A pinon, 8 ins. diam., bears S. 86° W. 60 lks. dist., marked 1/4 S 24 B.T.
40.16	The 1/4 sec. cor. on the W. Bdy. of sec. 19, T. 11 S., R. 15 E. heretofore described. I destroy all marks on old cor. pertaining to sec. 24. Thence S. 0° 12' W., with continuous chaining
65.00	Top of ridge and canyon, 375 ft. above base, bears NW and E. Thence gradually descend over gentle SW. slope 75 ft. to
80.00	The cor. of secs. 19, 24, 25 & 30

Resurvey of the east bdy of T. 11 S. R. 14 E.

Chains.

Heretofore described.
Land mountainous draining
S.E.
Soil, rocky with a rocky sub soil
4th rate
Timber, cedar and pinon.
Undergrowth short chadscale
Land mountainous heavily
timbered or covered with dense
undergrowth 80.00 chs.

August 23, 1911

Chains	
	August 31: For solar observation see line between secs. 3 & 10, book "B." of this survey.
	From the standard closing cor. of T. 10 S., R. 14 E. which is an iron post, 3 in. in dia., 1 ft. above ground, firmly set, and marked and witnessed as described by the Surveyor General
	Run
	East, retracing bet. secs. 2 & 35.
28.77	Intersect the standard 1/4 sec. cor., which is an iron post, 1 in. in dia., 1 ft. above ground, firmly set, and marked and witnessed as described by the Surveyor General.
	From the 1/4 sec. cor I continue East.
40.00	The standard cor. of secs. 35 and 36, heretofore described.
	The true bearing of this mile is East and the distance is 68.77 chs.
	August 31, 1911.

Retracement 44th Mile Uintah Indian Reservation bdy.

Chains	
	August 31:
	For solar observation see line bet. secs. 3 & 10, book "B" of this survey.
	From the 1/2 mile and angle cor. bet. the 43rd and 44th mile cor. on the Uintah Indian reservation bdy, which is a sandstone 10 x 15 x 7 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General
	I run
	N. 78° 30' E., retracing the 44th mile.
	Gradually descend along gentle NW. slope of divide through dense undergrowth.
20.00	Hollow, 75 ft. deep, drains West.
	Gradually ascend through dense cedar and pinon.
28.60	Ridge spur, 100 ft. above hollow, bears NW. and SE.
	Gradually descend.
39.80	Fall 300 lks. to the left or N. 61° 30' W. of the 43rd mile cor., which is a sandstone 12 x 16 x 8 ins. above ground, firmly set and marked and witnessed as described by the survey or General.
	The true bearing of this line is N. 32° 49' E., and the distance is 39.91 chs.
	Land mountainous draining NE.
	Soil, stoney and clay, with clay sub soil, 3rd rate
	Timber, cedar and pinon.
	Undergrowth, chaparral.
	Land, mountainous, heavily timbered or covered with dense undergrowth 39.85 chs.
	From the 43rd mile cor. I run

Chains	
	N. 28° 30' E., retracing the 43rd mile over mountainous land, through dense forest of cedar and juniper and undergrowth of chaparral.
7.00	High divide bears N. 25° E and S. 10° W.
	Thence along east side of divide
39.72	Fall 328 lks. to the right or S. 61° 30' E., of the 1/2 mile cor. which is a limestone 8 x 14 x 3 ins. above ground, firmly set, and marked and witnessed as described by the surveyor General.
	The true bearing of this line is N 23° 47' E. and the distance is 39.85 chs.
	Note: This cor. is situated on top of the high divide.
	August 31: At this cor: I set off 8° 52' N. on the decl. arc: and at 12h 01m. p. m. l. m. t., observe the sun on the meridian; the resulting lat. is 39° 53'.
	From the 1/2 mile cor., I continue N. 28° 30' E.
22.40	Intersect the Angle point cor., which is a sandstone 10 x 10 x 5 ins. above ground, firmly set and marked and witnessed as described by the surveyor General
	Thence N. 10° 30' W.
8.25	The closing standard cor. of T. 10 S., R. 14 E. heretofore described.
	Land mountainous.
	Soil rocky with rocky sub soil 4th rate
	Timber cedar & juniper.
	Undergrowth Chaparral.
	Land mountainous heavily timbered or covered with dense undergrowth 8050 chs.

Chains	
	August 31, 1911.
	September 18: For solar observation see line bet. secs. 13 & 18.
	From the 1/2 mile cor., bet. the 47 and 48th mile cors. which is a sandstone 12 x 12 x 5 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.
	Retrace S. 54° 20' E for visible signal set at the angle cor. over rolling mountain top.
29.94	The angle point cor., which is a sandstone 10 x 14 x 6 ins above ground, firmly set and marked and witnessed as described by the Surveyor General
	Thence N. 87° 45' E.,
10.50	The 47th mile cor., which is a sandstone 12 x 13 x 7 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.
	Land mountainous.
	Soil rocky, 4th rate.
	No timber.
	Some short sage brush undergrowth.
	Mountainous land 40.44 chs.
	September 18, 1911

Chains

September 7: At the cor. of Ts 11 & 12 S., Rs, 13 & 14 E.; lat. 39° 49½' N., longitude 110° 26' 15" West, I set off 39° 49' on the lat. arc; 6° 15' N. on the decl. arc; and at 4h. 58m. p. m. l. m. t. determine with the solar a meridian and mark a point in the line thus determined on a tack driven in a hub set firmly in the ground 5 chs. N. of my station.
At 8h. 29.1m. p. m. l. m. t., by my watch, which carries correct local meantime I observe Polaris at Eastern Elongation in accordance with the Manual of instructions and mark a point in the line thus determined by a peg driven in the ground 5 chs. N. of the cor.

September 7, 1911.

September 8: At 7h. am. I lay off the azimuth of Polaris 1° 31' to the West and find that my Polaris meridian agrees with the solar meridian of Sept 7.
At 7h. 58m. a. m. l. m. t., I set off 39° 49' on the lat. arc, 6° 00' N. on the decl. arc: and determine a meridian with the solar; which meridian also agrees with the Polaris meridian.
I therefore conclude that the instrument is in perfect adjustment
The magnetic bearing of the true meridian at 8h. 15m. is N 16° 45' W., which gives the magnetic decl

West boundary of T. 11 S., R. 14 E.

Chains	
	16° 45' E.
	From the tp cor. already described 9 rum.
	North, bet. secs. 31 and 36.
	Over mount amous land through forest of cedar and pinon and dense undergrowth of chaparral.
	Gradually descend.
40.00	100 ft. below tp. cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 36 on W. half and S 31 on E. half: from which.
	A forked pinon, 16 ins. diam., bears S 71 1/2° E., 35 lks. dist.; marked 1/4 S 31 BT.
	A pinon, 32 ins. diam., bears N. 48° W. 42 lks. dist., marked 1/4 S 36 BT.
	Continue gradual descent.
52.00	Begin abrupt descent over land facing N. into Argyle Canyon.
69.60	Hollow, drains NW.
	Thence over land facing nearly west.
80.00	850 ft. below 1/4 sec. cor.
	Set a sandstone, 18 x 18 x 5 ins., 12 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked with 5 notches on N. and 1 notch on S. edge; raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor.
	Pits impracticable
	No suitable trees within limits.
	Land mount amous with general North drain.
	Soil rocky and light loam

Chains

with a rocky and clay sub soil, 3rd rate.
Timber, cedar, pinon and some spruce.
Undergrowth, chaparral.
Some good grass for grazing purposes.
Land mount ainous, heavily timbered and covered with dense undergrowth 80.00 chs.
Sept 8: At this sec. cor. I set off 5° 55' N. on the decl. arc; and at 11h 58m a.m. l.m.t., observe the sun on the meridian; the resulting lat is 39° 49 which is within 1' of the proper lat.

North, bet. secs. 25 & 30.
Over mount ainous land facing nearly west, thru dense chaparal undergrowth and some cedar and pinon timber. descend.
7.00 Leave timber bears NE. and SW.
9.00 Argyle Creek, 20 lks. wide, and bot of descent, course N. 70° E.
Thence across cultivated land in canyon.
12.50 Road. bears E. and W.
Leave cultivated land bears E. & W.
Gradually ascend through dense brush.
15.50 Enter cedar, pinon and spruce timber.
Begin steep rocky ascent from canyon over series of sandstone ledges 15 to 20 ft. high.
40.00 875 ft. above canyon.
Set a sandstone 24 x 8 x 5 ins., 18 ins in the ground for 1/4 sec. cor., marked 1/4 on W. face.

Chains	
	from which
	A pinon, 14 ins. diam., bears N. 68½° E.
	72 lks. dist., marked
	1/4 S 30 BT
	A pinon, 24 ins. diam., bears S. 65° W.,
	97 lks. dist., marked
	1/4 S. 25 BT.
	Continue steep rocky ascent of
	200 ft. to
50.00	High ridge, 1075 ft. above canyon,
	bears NW and SE.
	Gradually descend over rocky
	land sloping N. 70° E.
80.00	200 ft. below ridge
	Set a sandstone 28 × 10 × 8 ins.,
	21 ins. in the ground for cor.
	of secs. 19, 24, 25 and 30, marked
	with 4 notches on N. and 2 notches
	on S. edge; from which
	A spruce, 17 ins. diam., bears N. 52° E.
	15 lks. dist., marked
	T 11 S R 14 E S 19 BT
	A spruce, 16 ins. diam., bears S. 74½° E.
	47 lks. dist., marked
	T 11 S R 14 E S 30 BT
	A spruce, 16 ins. diam., bears S. 6¼° W.
	8 lks. dist., marked
	T 11 S R 13 E S 25 BT
	A spruce, 14 ins. diam., bears N. 48° W.
	83 lks. dist., marked
	T 11 S R 13 E S 24 BT.
	Land mountainous with a
	general SE. drain and steep
	slopes of ridges forming walls
	of canyons.
	Soil in bottom of canyon, rich
	sandy loam with a deep sand
	sub soil, 1st rate. Soil on mount-
	ainous part, loose shale rock and

Chains.

rocky of volcanic formation
4th rate.
Timber, cedar, pinon and some spruce.
Undergrowth, chaparral.
Land mount among heavily timbered and covered with dense undergrowth 80.00 chs
September 8, 1911

Sept. 16: At 7h 55m a. m. l. m. t., I set off 39°50' on the lat. arc; 2°57' N. on the decl. arc; and determine a meridian with the solar at the cor of secs., 19, 24, 25 and 30
Thence I run
North, bet. secs. 19 and 24.
Over mount among land facing nearly east, through forest of cedar, pinon and spruce and dense undergrowth of chaparral
Gradually descend.
22.60 Hollow, drains E.
Ascend 75 ft. to
34.50 Spur, projects E.
Descend 75 ft. over land facing N. to
40.00 Point for 1/4 sec. cor. falls on solid sandstone boulder, 8 x 7 x 3½ ft., mark + for exact cor.
Point with 1/4 to the west;
from which
A cedar, 20 ins. diam., bears S. 67° E., 10 lks. dist., marked
1/4 S 19 BT.
A pinon, 14 ins. diam., bears N. 79¾° W. 75 lks. dist., marked
1/4 S 24 BT.

West boundary of T. 11 S., R. 14 E.

Chains	
	Continue descent 100 ft. to
45.60	Wash in canyon, 15 lks. wide, course east 3 chs, thence SE. Ascend abruptly.
59.60	Top of steep ascent, 150 ft. above canyon, bears NE. and SW. Thence over bench land.
68.30	Wash, 20 lks. wide, course S. 35° E. Thence ascend over western slope of ridge.
80.00	Set a sandstone, 24 x 11 x 5 ins., 18 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked with 3 notches on N. and 3 notches on S. edge; from which A pinon, 12 ins. diam., bears N. 69½° E., 89 lks. dist., marked T 11 S R 14 E S 18 BT. A pinon, 16 ins. diam., bears S. 73° E., 51 lks. dist., marked T 11 S R 14 E S 19 BT. A pinon, 22 ins. diam., bears S. 54½° W. 57 lks. dist., marked T 11 S R 13 E S 24 BT A pinon, 24 ins. diam., bears N. 43¾° W. 57 lks. dist., marked T 11 S R 13 E S 13 BT. Land mountainous with a general south slope. Soil, rocky of sandstone formation with a hard clay and rock subsoil; 4th rate. Timber, cedar, pinon and spruce Undergrowth, chaparral. Some good grass for grazing purposes. Land mountainous heavily timbered and covered with dense undergrowth 80.00 chs.

Chains

September 16: at this sec. cor., I set off 2° 55' N. on the decl. arc; and at 11h 57m a.m. l.m.t., observe the sun on the mer.; the resulting lat is 39° 51'

North, bet. secs. 13 & 18.
Ascend over mountainous land facing SW, through dense forest of cedar, pinon and spruce and undergrowth of chaparral.
29.30 Ridge, 750 ft. above sec. cor., bears N. 35° W., and S. 35° E.
Gradually descend 100 ft. along NE. slope of ridge to
40.00 Set a limestone 24 x 10 x 6 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which
A spruce, 9 ins. diam., bears S. 82½° E., 28 lks. dist., marked
1/4 S 18 BT
A spruce, 16 ins. diam., bears S. 50½° W 25 lks. dist., marked
1/4 S 13 BT ✓
September 16, 1911.
Sept 18: at 6h 54m a.m. l.m.t., I set off 39° 52' on the lat arc; 2° 13' N. on the decl. arc; and determine a meridian with the solar at this 1/4 sec. cor.,
Thence I run
North.
Continue gradual descent along NE. slope.
55.40 Wash, in canyon, 25 lks. wide, 70 ft. below 1/4 cor. course SE.
Thence along east side of wash gradually ascending

West bdy. of T. 11 S., R. 14 E.

Chains.	
64.70	Junction of two canyon washes, from NE. and NW., course S. Thence ascend over land facing nearly south along top of ridge.
80.00	275 ft. above washes. Set a limestone, 24 x 9 x 6 ins., 18 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked with 2 notches on N. and 4 notches on S. edge; from which A pinon, 16 ins. diam., bears N. 19½° E., 29 lks. dist., marked T 11 S R 14 E S 7 BT A pinon, 24 ins. diam., bears S 68° E., 38 lks. dist., marked T 11 S R 14 E S 18 BT A pinon, 16 ins. diam., bears S. 49° W 93 lks. dist., marked T 11 S R 13 E S 13 BT A pinon, 32 ins. diam., bears N. 74° W., 27 lks. dist., marked T 11 S R 13 E S 12 BT. Land mount amous with a general south drain; Soil rocky with a rocky subsoil, 4th rate. Timber, cedar, pinon and some spruce. Undergrowth, chaparral. Land mount amous, heavily timbered or covered with dense undergrowth 80.00 chs.
	North, bet secs. 7 & 12. Over mount amous land through forest of cedar, pinon and some spruce and undergrowth of chaparral.

Chains.

Ascend gradually.
8.00 Ridge, turns NE.
Thence over land sloping nearly west.
33.00 Hollow, drains W.
Thence up steep rocky land facing south
40.00 200 ft. above hollow
Set a sandstone 28 x 8 x 3 ins., 21 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which
A pinon, 14 ins. diam., bears S. 41 1/2° E., 37 lks. dist., marked 1/4 S 7 BT
A pinon, 12 ins. diam., bears S. 81 1/2° W., 73 lks. dist., marked 1/4 S 12 BT.
Continue steep ascent.
45.00 Top of high divide, between nine mile canyon and Duchesne valley, 150 ft. above 1/4 sec. cor., bears E. and W.
Leave timber, enter short shadscale undergrowth.
Gradually descend.
50.74 Intersect south boundary Uintah Indian reservation.
Set a sandstone 28 x 14 x 3 ins., 21 ins. in the ground for closing cor. of T. 11 S., R's 13 & 14 E. marked with 1 groove on E & W. and CC and 3 grooves on south and U. I. R on N. face; raise a mound of stone, 3 ft. base, 2 ft. high S. of cor., site impracticable
From this cor. the 1/2 mile cor. between the 47 + 48th mile cors. on the bdy. bears, S. 54° 30' E., 9.51 chs. dist.

West bdy. of T. 11 S., R. 14 E

chains.

S. 45.00 chains steep mountainous land covered with dense timber.
N. 9.70 chs. rolling mountain top. Soil, rocky and loose shale rock; 4 ths. rate
Timber, cedar, pinon and spruce on 45 chs.
Undergrowth, chaparral and shadscale
Some good grass for grazing on N. 9 chs.
Land mountainous, heavily timbered or covered with dense undergrowth 50.74 chs.
September 18: At this sec. cor., I set off 2° 06' N., on the decl. arc; and at 11 h. 54 m. a. m. l. m. t., observe the sun on the meridian; the resulting lat. is 39° 53'.

Boundaries of T. 11 S., R. 14 E.

Latitudes, Departures and closing errors.

Lines designated	True bearings	Distances chs.	Latitudes N chs.	Latitudes S chs.	Departures E chs.	Departures W chs.
S. Bdy	N. 89°55' E.	426.18	.63		426.18	
"	S. 89°12' E.	11.95		.17	11.95	
"	N. 89°47' E.	68.95	.27		68.95	
E. Bdy secs 25 & 36	North	160.00	160.00			
S. ½ sec. 24	N. 0°12' E.	39.84	39.84		.14	
N. ½ " "	N. 0°32' E.	39.40	39.40		.37	
S. ½ " 13	N. 0°07' E.	40.25	40.25		.08	
N. ½ " "	N. 0°18' W.	39.83	39.83			21
S. ½ " 12	North	39.69	39.69			
N. ½ " "	N. 0°28' E.	39.56	39.56		.33	
S. ½ " 6	N. 1°16' W	40.77	40.76			.90
N. ½ " 6	N. 0°15' W.	40.75	40.75			17
N. Bdy sec 1	West	71.58				71.58
" 2	West	68.77				68.77
Res. Bdy 43. Mile	S. 10°30' E.	8.25		8.11	1.50	
"	S. 28°30' W.	22.40		19.68		10.69
"	S. 23°47' W.	39.85		36.47		16.07
44 Mile	S. 32°49' W	39.91		33.54		21.63
"	S. 70°45' W	40.00		13.19		37.76
45 Mile	S. 70 45 W.	40.00		13.19		37.76
"	S. 87°45' W.	40.00		1.57		39.97
46 Mile	S. 87°45' W	80.00		3.14		79.94
47 "	S. 87 45 W	80.00		3.14		79.94
48 Mile	S. 87 45 W	10.50		.41		10.49
"	N. 54°20' W.	29.94	17.46			24.32
"	N. 54°30' W	9.51	5.52			7.74
West Bdy.	South	370.74		370.74		
Convergency						.54
			503.96	503.35	509.50	508.48
			503.35		508.48	
		Error in lat	.61		1.02	

Error in Dep = 1.02

For General description see book "B" of this survey.

Howard W. Miller
U. S. Transit Man.

4—680

BOOK A-391

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 .....

For certificate of assistants see book "G" T.24 S., R.16 E.

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

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

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

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

.....

6—2761 *U. S. Surveyor.*

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 transitman see book "G" T.24 S., R.16 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 14, 191 4

The foregoing field notes of the survey of the Subdivisional lines of Township No.11 South, Range No.14 East of the Salt Lake Base and Meridian, Uta

executed by Howard W. Miller under his special instructions dated March 27, 1911, and supplemental special instructions dated July 28, 1911, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and th surveys they describe, are hereby approved.

Truman Hull
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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Obs.JLS.
Ex. AKG.

BOOK A-391

Filed Jan.27, 1912.

WSH.

4—679

E.W.

Book "B"

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP 11 SOUTH, RANGE 14 EAST

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

HOWARD W.MILLER

In the capacity of U. S. ~~*Surveyor*~~ Transitman *, under instructions dated* March 27 *, 191*1 *,* and Supplemental Special Instructions Dated July 28, 1911 *issued by the United States Surveyor General to govern surveys included in Group No.* 11 *, which were approved by the Commissioner of the General Land Office,* Apr.20 and Aug.11 *, 1911* respectively *pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced August 14 *, 191*1

Survey completed September 20 *, 191*1.

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Subs. 52-21-67
Clearing 1-10-00

BOOK 91

INDEX DIAGRAM.

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Subdivision of T. 11 S., R. 14 E.

Chains	
	Survey commenced August 14, 1911 and executed with a W. & L. E. Gurley solar compass No. 1043. For description and test of instrument see book "A" of this survey. Having tested my solar apparatus during a.m. and p.m. hours on a true Polaris meridian August 13, I know that the instrument is in perfect adjustment.
	I begin at the cor. of secs. 35 & 36 on the S. bdy. of the tp. heretofore described August 15: At 8h 05m a.m. l.m.t. I set off 39° 48½' on the lat. arc; 14° 37' N. on the decl. arc: and determine a mer; with the solar at the above cor. Thence I run. N. 0° 01' W., bet. secs. 35 & 36. Over mountainous land through forest of cedar, pinon and fir. Descend abruptly towards nine mile canyon.
15.00	Hollow, 250 ft. deep, drains NE. Ascend 100 ft. to
24.50	Spur, projects NE. Descend abruptly 450 ft. to
38.00	Base of mountain, bears E. and W. Leave timber, enter dense willow undergrowth, bears E. & W. Thence across bottom of nine mile canyon.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 35 on W. half and S 36 on E. half, raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable
46.20	Nine mile creek, 30 lks. wide, 6 to 12 ins

chains	
	deep, alkali water, swift current, course S. 80° E.
	Leave dense undergrowth, enter cultivated field, bears N. 80° W. and S. 80° E.
51.40	Price - Vernal telephone line, bears E. and W.
53.50	Kate Egans house bears W. 5 chs.
54.10	Fence and leave field, bears W. and S. 70° E.
54.40	Price - Vernal stage road, bears S. 80° E. and west.
54.80	Kate Egans barn and corral on line.
56.00	Leave canyon bottom bears S. 80° E., and N. 80° W.
	Enter forest of cedar, pinon and fir.
	Begin steep ascent over series of ledges, 10 to 40 ft. high.
79.00	Ridge, 575 ft. above canyon, bears NW. and SE.
	Descend 30 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground and mound of stone, 4 ft. base 1 ft. high, for cor. of secs. 25, 26, 35 and 36, marked on brass cap T 11 S S 26 in NW., R 14 E S 25 in NE., S 36 in SE. and S 35 in SW. quadrant,
	from which.
	A spruce, 24 ins. diam., bears N. 24° E., 64 lks. dist., marked T 11 S R 14 E S 25 BT.
	A spruce 12 ins. diam., bears S. 47 3/4° E., 113 lks. dist., marked T 11 S R 14 E S 36 BT.

Chains

A pinon, 10 ins. diam., bears S. 22° W., 20 lks. dist.; marked
T 11 S R 14 E S 35 BT.
A spruce, 5 ins. diam., bears N. 16° W., 87 lks. dist.; marked
T 11 S R 14 E S 26 BT.
Note. I am unable to set post over 12 ins. in the ground on account of natural obstacles.
S. 38 chs. steep S. side of canyon covered with a dense forest of cedar, pinon and fir. soil a loose shale with a hard clay sub-soil 4th rates.
Next 18 chs. level bottom of nine mile canyon. some undergrowth of willow. Soil a rich sandy loam with deep sandy sub-soil, 1st rate. natural drain of land Easterly.
N. 24 chs. N. side of canyon with very steep slope covered with cedar, pinon and spruce forest. Soil rocky of volcanic formation with a hard clay and rock sub soil, 4th rates.
Land mountainous and heavily timbered and covered with dense undergrowth on 58 chs.
August 15: At this sec. cor. I set off 14° 15' N. on the decl. arc.; and at 12h 05m p.m. l. m. t. observe the sun on the mer.; the resulting lat is 39° 49½'.

N. 89° 55' E., on a random line bet. secs. 25 & 36.
40.00 Set temporary 1/4 sec. cor.
79.96 Intersect E. bdy. of tp. 3 lks. N. of the cor. of secs. 25, 30, 31 & 36 which

Chains	
	is a limestone, 10 x 10 x 8 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.
	Thence 2 runs
	S. 89° 56' W., on true line bet. secs. 25 & 36.
	Over mountainous land through forest of cedar, juniper and spruce.
	Ascend 225 ft. to
29.50	Ridge, bears N. & S.
	Descend 200 ft. to
39.98	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 25 on N. half and S 36 on S. half, from which a juniper, 7 ins. diam., bears S. 48 3/4° E., 33 lks. dist., marked 1/4 S 36 BT.
	a juniper, 8 ins. diam., bears N. 31 1/4° W., 65 lks. dist., marked 1/4 S 25 BT
43.80	Spur, projects S. 30° W.
	Descend abruptly over ledges.
56.20	Perpendicular ledge, 80 ft. high, bears N. & S.
57.40	Base of steep descent, 400 ft. below spur, bears NW. and SE.
60.40	Wash in Current Canyon, 70 lks. wide, 3 ft. deep course S. 30° E.
62.30	Leave canyon, bears N. 30° W. & S. 30° E.
	Descend abruptly 125 ft. to
67.00	Rocky spur, projects SE.
	Descend 60 ft. to
72.10	Hollow, drains SE.
	Ascend 200 ft. to
79.96	The cor. of secs. 25, 26, 35 & 36.
	Land mountainous with steep E. and W. slopes of ridges covered with cedar, juniper and spruce

Chains.

forest. Soil is of rocky character and volcanic formation and has for sub soil a hard baked clay. 4th rate. The natural drain of all land on this mile is south.
Land mountainous, heavily timbered or covered with dense undergrowth
79.96 chs.

August 15, 1914

August 16: At 8h 05m a.m. l.m.t., I set off 39° 49½' on the lat. arc; 14° 00' N. on the decl. arc; and determine a mer; with the solar at the cor. of secs. 25, 26, 35 & 36 heretofore described. Thence I run.
N. 0° 01' W., bet. secs. 25 & 26.
Over mountainous land through forest of cedar, pinon and spruce.
Descend.

5.50 Hollow, 150 ft. deep, drains S. 80° E.
Ascend 225 ft. to
13.80 Ridge, bears E. and W.
Descend.
19.25 Hollow, 125 ft. deep, course E.
Thence along ledges bearing N. & S.
28.45 Hollow, drains east.
Ascend 100 ft. to
36.00 High spur, projects E.
Descend abruptly.
40.00 125 ft. below spur,
Set a sandstone 28 × 22 × 5 ins., 21 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which
A pinon, 10 ins. diam., bears S. 81° E., 117 lks. dist., marked
1/4 S 25 BT.
A pinon, 9 ins. diam., bears S. 31¾° W., 24½ lks. dist., marked

Subdivision of T. 11 S., R. 14 E.

Chains	
	1/4 S 26 BT.
47.60	Hollow, 200 ft. below 1/4 Cor., course E.
	Ascend 50 ft. to
49.80	Spur, projects E.
67.00	On west edge of Current Canyon Wash.
	400 ft. below 1/4 cor.
	Ascend over south slope of canyon
75.00	Descend abruptly into Current canyon.
77.50	Wash in Current canyon, 1.00 chs wide,
	3 ft. deep, course East.
	Ascend 50 ft. to
80.00	At base of 70 ft. ledge.
	Set an iron post, 3 ft. long, 2 ins. in dia.,
	24 ins. in a mound of earth and stone
	4 ft. base, 2 ft. high, for cor. of secs. 23,
	24, 25, and 26, marked on brass
	cap,
	T 11 S S 23 in NW.,
	R 14 E S 24 in NE.,
	S 25 in SE. and
	S 26 in SW. quadrant,
	raise a mound of stone, 2 ft. base,
	1½ ft. high W. of cor.
	Pits impracticable
	Note: On account of natural obstacles
	I am unable to set post in ground.
	Land mount anous with natural
	drain and slope to the west,
	forming the west wall of Current
	Canyon. Soil loose shale and
	rocky with a hard clay and rock
	sub-soil of volcanic formation
	5th rate.
	Timber, Cedar, Juniper and spruce
	No undergrowth.
	Land mount anous, heavily
	timbered or covered with dense
	undergrowth 80.00 chs

Chains.	
	August 16: At this sec. cor. I set off 13° 56' N. on the decl. arc; and at 12h 05m p.m. l.m.t. observe the sun on the mer; the resulting lat. is 39° 50'
	N. 89° 56' E. on a random line bet. secs. 24 & 25
40.00	Set temporary 1/4 sec. cor.
79.86	Intersect E. bdy. of the tp. 32 lks. N. 0° 12' E. of the cor. of secs. 19, 24, 25 & 30 which is a sandstone 16 x 10 x 5 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.
	Thence I run.
	N. 89° 50' W., on true line bet. secs. 24 & 25
	Gradually ascend over rolling mountain top through dense undergrowth of sage brush.
38.00	Leave sage brush, enter dense forest of cedar, juniper and some yellow pine.
39.93	Set a sandstone 24 x 8 x 4 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, raise a mound of stone, 2 ft. base, 1 1/2 ft. high N. of cor.
	Pits impracticable.
	No suitable trees within limits
55.80	Edge of mountain, bears NW & SE.
	Descend abruptly 450 ft. over ledges
79.86	The cor. of secs. 23, 24, 25 & 26.
	East 38 chs. rolling mountain top with gradual east slope and covered with a dense undergrowth of sage brush. Soil sandy loam with a deep sand and gravel sub soil 1st rate. Next 17.80 chs. a continuation of same mount-

chains

and top but covered with a dense forest of cedar, piñon and some yellow pine. Soil is sandy with a rocky sub-soil or bed rock about 2 ft. from surface.
E. 24.06 chs. forms the west side of Current canyon and has an exceptionally steep SW. slope and broken by sandstone ledges ranging from 10 to 30 ft in height. The soil is rocky composed of loose shale rocks with a hard baked clay & rock sub-soil of 11th rates.
Land mountainous, heavily timbered or covered with dense undergrowth 79.86 chs.

August 16, 1911

August 22: At 8h 03m a.m. l.m.t., I set off 39° 50' on the lat. arc; 12° 03' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23, 24, 25 & 26 heretofore described.
Thence I run
N. 0° 01' W., bet. secs. 23 & 24.
Ascend abruptly over mountainous land, through forest of cedar, piñon and spruce.

18.00 Spur, 300 ft. above sec. cor., projects W.
Descend abruptly 300 ft. to
28.80 Wash in Current canyon, 40 lks. wide 8 ft. deep, course S. 35 W.
Ascend 150 ft. to
35.00 Spur, projects E.
Descend 100 ft. to
39.50 Wash in Current canyon, 50 lks. wide 5 ft. deep, course SE.
Note. Canyon forks about 3 chs. East.

Subdivision of T. 11 S., R. 14 E.

chains	
	Ascend 20 ft. to
40.00	Set a limestone, 28 x 16 x 5 ins., 21 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which
	A cedar, 9 ins. diam., bears S. 58 1/2° E., 90 lks. dist.; marked 1/4 S 24 BT
	A pinon limb, 10 ins. diam., bears N. 40 1/2° W., 25 lks. dist.; marked 1/4 S 23 BT.
	Continue to ascend
47.00	Spur, 200 ft. above 1/4 cor., projects SW. Thence gradually descend over land sloping NW.
79.80	Wash in Current canyon, 20 lks. wide, 3 ft. deep, course SW. 3 chs. thence S. Ascend.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of earth and stone for cor. of secs. 13, 14, 23 & 24, marked on brass cap T 11 S S 14 in NW., R 14 E S 13 in NE., S 24 in SE. and S 23 in SW. quadrant,
	from which
	A cedar, 9 ins. in diam., bears N. 62 1/4° E., 288 lks. dist., marked T 11 S R 14 E S 13 BT.
	A pinon, 16 ins. diam., bears S. 52 1/4° E., 117 lks. dist., marked T 11 S R 14 E S 24 BT
	A pinon, 15 ins. diam., bears S. 67 1/2° W 288 lks. dist., marked T 11 S R 14 E S 23 BT
	A forked pinon, 12 ins. diam., bears N. 34° W., 78 lks. dist., marked T. 11 S R. 14 E S 14 BT.
	Note. On account of natural obstacles I am unable to set post in ground.

chains	
	Land mount ainous with general west slope and southerly drain, forming a part of the east wall of Current Canyon. The soil is a loose shale rock and rocky with a hard clay and rock sub soil of volcanic formation and 4th rate. Timber, cedar, pinon and spruce and some undergrowth of Chaparral.
	Land mount ainous heavily timbered and covered with dense undergrowth 80.00 chs.
	August 22: At this sec. cor. I set off 11° 59' N. on the decl arc; and at 12h 03m p.m. l.m.t., observe the sun on the meridian, the resulting lat is 39° 51'
	S. 89° 50' E., on a random line bet. secs. 13 & 24.
40.00	Set temporary 1/4 sec. cor.
80.42	Intersect E. bdy. of the tp. at the cor. of secs. 13 & 24 heretofore described,
	Thence I run.
	N. 89° 50' W., bet. secs. 13 & 24.
	Over mount ainous land, through forest of cedar and pinon.
2.40	Descend abruptly over ledges.
5.70	Wash in canyon, 40 lks. wide, 3 ft. deep, 100 ft. below sec. cor., Course S. 10° W.
	Ascend from canyon 225 ft. to
27.00	Ridge, bears NW. and SE.
	Leave timber, enter opening bears NW. & SE.
	Thence over rolling mountain top.
40.21	Set a limestone, 24 x 8 x 3 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, raise a mound of stone, 2 ft. base, 1½ ft.

Chains.	
	Leigh N. of corner.
	Pits impracticable.
	Note. opening bears N. 6 chs. and S. about 75 chs.
58.00	Leave opening, enter heavy timber, bears NE and SW.
75.00	Leave rolling mount ain top, bears NW & S.
	Descend abruptly 100 ft. to
79.90	Wash in Current Canyon, 20 lks. wide, 3 ft. deep, Course SW.
80.42	The cor. of secs. 13, 14, 23 & 24.
	E. 27 chs. E. & W. slopes of Canyon covered with cedar & pinon timber Soil rocky with rocky sub-soil of volcanic formation. Next 148 chs rolling mount ain top with gradual south slope and drain. Soil rich sandy loam with a light loam sub-soil 2nd rate. W 5 chs. steep east wall of Canyon, rocky soil, sub soil rocky. Land mount ainous or heavily timbered 80.42 chs.
	August 27, 1911
	August 26: At 8h 02m a.m. l. m. t. I set off 39° 51' on the lat arc; 10°41½' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 & 24 heretofore described Thence I run.
	N. 0° 01' W., bet. secs. 13 & 14.
	Over mount ainous land, through forest of cedar and pinon.
	Ascend 75 ft. to
2.75	Edge of mesa or mount ain top, bears NE & SW.
	Enter opening, bears NE & SW.
11.50	Leave opening, enter heavy timber, bears West and E. 8 chs.

Subdivision of T. 11 S., R. 14 E.

Chains

39.60 Enter opening, bears E. and W.

39.75 Point for 1/4 sec. cor. will fall in wash where cor. cannot be set.

Set a limestone 18 x 8 x 5 ins., 12 ins. in the ground for witness cor. to the 1/4 sec. cor., marked W C 1/4 on W. face. from which

A pinon, 18 ins. diam., bears S 22 1/4 E., 127 lks. dist., marked

W C 1/4 S 13 BT.

A pinon, 16 ins. diam., bears S. 7 1/2° W., 78 lks. dist., marked

W C 1/4 S 14 BT.

40.00 Wash, 6 lks. wide, 2 ft. deep, course SE.

Ascend

42.00 Leave opening, enter heavy timber, bears E. 9 chs. and W. 4 chs.

60.00 Ridge, 125 ft. above 1/4 cor., bears NW. and SE.

Descend 75 ft. to

66.40 Head of hollow, drains SE.

Ascend abruptly 250 ft. to

80.00 Ridge, bears E. and W.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of earth and stone 4 ft. base, 2 ft. high for cor. of secs. 11, 12, 13 & 14, marked on brass cap

T 11 S S 11 in NW.,
R 14 E S 12 in NE.,
S 13 in SE. and
S 14 in SW. quadrant.,

from which

A pinon, 10 ins. diam., bears N. 53 3/4° E., 40 lks. dist., marked

T 11 S R 14 E S 12 BT

A pinon, 10 ins. diam., bears S. 44 1/2° E. 101 lks. dist., marked.

T 11 S R 14 E S 13 BT.

Chains.	
	A pinon, 8 ins. diam., bears S. 81° W., 34 lks. dist., marked T 11 S R 14 E S 14 BT
	A pinon, 23 ins. diam., bears N 53½° W 130 lks. dist., marked T 11 S R 14 E S 11 BT.
	Note. I am unable to set post in the ground on account of natural obstacles.
	Land mount anous with a general SE drain and slope. Soil light loam and rocky with clay and gravel sub soil about 3 ft. deep with occasional bed rock outcroppings. 3rd rate. Timber cedar and pinon.
	Land mount anous and heavily timbered 80.00 chs!
	August 26: At this sec. cor. I set off 10° 37½' N. on the decl. arc; and at 12h. 02m. g. m. l. m. t. observe the sun on the mer.; the resulting lat is 39° 52'.
	S. 89° 50' E. on a random line bet. secs. 12 & 13.
40.00	Set temporary 1/4 sec. cor.
80.33	Intersect E. bdy. of the tp. at the cor of secs. 12 & 13. Heretofore described. Thence I run
	N. 89° 50' W., on true line bet. secs. 12 & 13. Over mount anous land through forest of cedar and pinon.
	Ascend 30 ft. to
3.00	Ridge, bears N. 30° W., and S. 30° E.
	Descend abruptly 175 ft. to
10.80	Wash in canyon, 15 lks. wide, course SW.
	Ascend 150 ft. to

Chains

35.50 Ridge, bears N. & S.
Descend 75 ft. to
40.16½ Set a limestone 28 x 10 x 4 ins., 21 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, from which
A pinon, 32 ins. diam., bears N. 31½° E. 28 lks. dist.; marked
1/4 S 12 BT
A pinon 12 ins. diam., bears South 93 lks. dist., marked
1/4 S 13 BT.
Continue to descend
41.50 Wash in canyon, 10 lks. wide, course S. 30° W.
Ascend 100 ft. to
44.00 Spur, projects S.
Descend 150 ft. to
60.00 Hollow, drains SE.
Ascend 150 ft. to
71.50 Top of ascent and flat ridge, bears NW. and SE.
80.33 The cor. of secs. 11, 12, 13 & 14.
Land mount anous with general south drain and East and West slopes of rocky ridges. Soil rocky with a rocky sub soil of volcanic formation. Bed rock within ft. of surface.
Timber cedar & pinon
Undergrowth some chaparral
Land mount anous, heavily timbered or covered with dense undergrowth 80.33 chs.

N. 0° 01' W., bet. secs. 11 & 12.
Over mount anous land, through forest of cedar and pinon.
2.00 East 1 ch is an opening extending East 6 chs and N. 6 chs.

chains.	
11.30	Hollow, drains SW.
	Ascend 170 ft. to
32.00	Spur, projects SW
	Descend
39.50	Hollow, 100 ft. deep, drains W.
	Ascend
40.00	Set a sandstone 24 x 12 x 3 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, from which
	A pinon, 16 ins. diam., bears N. 88½° E., 64 lks. dist., marked 1/4 S 12 BT
	A pinon, 7 ins. diam., bears N. 86° W., 45 lks. dist., marked 1/4 S 11 BT
	August 28, 1911
	August 28: At 8h 01m a.m. l. m. t I set off 39° 32½' on the lat. arc; 16° 00' N on the decl. arc; and determine a meridian with the solar at this 1/4 sec. cor.
	Thence I run N. 0° 01' W.,
43.00	Spur, 50 ft. above 1/4 cor., projects W.
	Descend
52.60	Hollow, 100 ft. deep, drains SW.
	Ascend 250 ft. to
64.00	Spur, projects SW.
	Gradually descend
67.20	Head of hollow, drains SW.
	Ascend abruptly 100 ft. to
71.00	High divide, between Nine Mile Canyon and Green river basin, bears N. 70° E. and S. 70° W.
	Gradually descend 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. 1, 2, 11 & 12 marked on brass cap

Subdivision of T. 11 S., R. 14 E.

Chains	
	T 11 S S ½ mi NW., R 14 E. S 1 mi NE., S ½ mi SE. and S ½ mi SW. quadrant, from which
	A juniper, 25 ins. diam., bears N. 61¼° E. 110 lks. dist., marked T 11 S R 14 E S 1 BT
	A juniper 24 ins. diam., bears S. 78½° E 59 lks. dist., marked T 11 S R 14 E S 12 BT
	A juniper, 10 ins. diam., bears S. 31½° W., 7 lks. dist., marked T 11 S R 14 E S 11 BT
	A juniper, 14 ins. diam., bears N. 68° W., 328 lks. dist., marked T 11 S R 14 E S 2 BT.
	S 74 chs. steep mountainous land with SW slope and drain and covered with a dense cedar and juniper forest, soil loose shale and rocky of volcanic formation with a hard clay sub-soil, 4th rates.
	N 6 chs. gentle N. slope from divide. Soil gravelly and light loam with hard clay & rocky sub soil, 3rd rate
	Timber, cedar & juniper.
	Land, mountainous and heavily timbered 80,00 chs.
	S. 89° 50' E. on a random line bet. secs. 1 & 12.
40,00	Set temporary ¼ sec. cor.
80,75	Intersect E. bdy. of the tp. 2 lks. S. of the cor. of secs. 1 & 12, heretofore described.
	Thence 9 ran.
	N. 89° 51' W., on true line bet. secs. 1 & 12.

Subdivision of T. 11 S., R. 14 E.

Chains.	
	Over mountainous land, through forest of cedar and pinon.
	Descend 60 ft. to
2.75	Wash in canyon, 10 lks. wide, course SW.
	Ascend 50 ft. to
8.00	Spur, projects S.
	Descend 50 ft. to
11.00	Wash in Canyon 15 lks. wide, course South.
	Ascend 75 ft. to
19.00	Ridge, bears N. & S.
	Descend 60 ft. to
27.75	Wash in hollow, 10 lks. wide, course S.
	Gradually ascend 50 ft. to
40.75	Set a sandstone 24 x 15 x 5 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which
	A pinon, 12 ins. diam., bears N. 3° W. 25 lks. dist., marked 1/4 S 1 BT
	A pinon, 14 ins. diam., bears S. 17 1/4° E. 19 lks. dist., marked 1/4 S 12 BT.
	Ascend 75 ft. to
47.00	High divide between Nine Mile canyon and Green River basin, bears NE & S 85° W.
	Descend 125 ft. to
55.50	Hollow, drains N.
	Ascend 75 ft. to
62.00	Ridge, bears N. & S.
	Descend
71.00	Hollow, 150 ft. deep, drains N.
	Ascend.
76.00	Spur, 80 ft. high, projects N.
	Descend 30 ft. to
80.75	The cor. of secs. 1, 2, 11 & 12.
	E. 47 chs. mountainous land with

Chains

general south slope and drain from high divide.
Soil rocky and loose shale rocks with a rocky sub soil of volcanic formation. W. 33.75 chs. Northern slope and drain from divide
Soil gravelly with hard clay and rock sub soil.
Timber, cedar and juniper.
Land mount amous and heavily timbered 80.75 chs.
August 28: At this sec. cor. I set off 9° 55' N. on the decl. arc; and at 12h 01m. p.m. l.m.t., observe the sun on the mer.; the resulting lat. is 39° 53'

Knowing that closing corners are necessary upon the N. bdy. of the tp.
I run:
N. 0° 01' W., on true line bet. secs. 1 & 2.
Over mount amous land
Descend across open hollow.
3.50 Hollow drains NE.
Enter cedar & juniper forest.
9.00 Ridge bears NE. and SW
Descend 50 ft. to
14.00 Hollow, drains NE.
Ascend 125 ft. to
27.50 Ridge, bears NE. and SW
Descend 75 ft. to
35.00 Hollow, drains NE.
Ascend.
40.00 Set a sandstone, 24 x 16 x 4 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which
A juniper, 9 ins. diam., bears N. 67 3/4° W.

Subdivision of T. 11 S., R. 14 E.

Chains.	
	166 lks. dist., marked 1/4 S 2 BT.
	A pinon, 11 ins. diam., bears N. 51 3/4° E., 73 lks. dist., marked 1/4 S 1 BT.
	Ascend 75 ft. to
45.00	Ridge, bears NE. and SW
	Descend.
63.00	Leave cedar and pinon, bears NE. and SW.
68.40	Hollow, 125 ft. deep, drains NE.
	Ascend 35 ft. to
72.00	Spur, projects E.
	Descend 35 ft. to
75.30	Hollow, drains E.
	Ascend 80 ft. to
79.72	Intersect 2nd Standard Parallel
	South 7.99 chs. West of the standard cor. of secs. 35 & 36 which is an iron post, 3 ins. in dia., 4 ft. 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. 1 & 2, marked on brass cap C C T 10 S R 14 E S 35 S 36 on N. half S 1 in SE. and S 2 in SW. quadrant,
	from which
	A pinon, 20 ins. diam., bears S. 42° E., 108 lks. dist., marked T 11 S R 14 E S 1 BT
	A pinon, 24 ins. diam., bears S. 53 1/2° W., 100 lks. dist., marked T 11 S R 14 E S 2 BT.
	Land mountainous with north easterly drain and with NW &

Chains

SE. slopes of ridges.
Soil gravelly and light loam, with hard clay and rock subsoil. 3rd rate.
Timber, cedar and pinon.
Undergrowth some sage brush in hollows.
Land mountainous heavily timbered or covered with dense undergrowth 79.72 chs.

August 18, 1911

August 17: At 8h 04m a.m. l.m.t., I set off 39° 48½' on the lat. arc., 13° 41' N. on the decl. arc., and determine a meridian with the solar at the cor. of secs. 34 & 35 on the S. bdy of the tp. heretofore described.
Thence I run
N. 0° 01' W., bet. secs. 34 & 35.
Over mountainous land through forest of cedar, pinon and spruce.
Descend abruptly towards Nine Mile canyon.

11.50 Base of mountain, bears E. & SW.
Thence over bottom land in 9 mile canyon.

12.50 Enter Frank Algers cultivated field, bears East and SW.

34.30 Nine Mile Creek, 20 lks. wide, 1 ft. deep, alkali water, swift current, course N. 60° E.
Leave cultivated field bears, N. 70° E. & SW.

35.20 Price - Vernal stage road, bears NE. & SW.

35.50 Price - Vernal telephone line, bears NE & S

39.00 Frank Algers house, bears N. 57° E.

Chains.

Leave canyon, begin ascent over series of ledges, bears NE. & SW.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 34 on W. half and S 35 on E. half, raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor.
Pits impracticable
August 17: At this cor. I set off 13° 37' N. on the decl. arc; and at 12h. 05m. p. m. l. m. t. observe the sun on the mer; the resulting lat is 39° 49'.

52.00 High rocky spur, 350 ft. above Nine mile Creek, projects S. 70° E.
Descend over ledges, rote 30 ft. high

65.50 Hollow, 175 ft. deep, drains SE.
Ascend over ledges.

80.00 400 ft. above Hollow.
Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of earth and stone 11 ft. base, 2 ft. high for cor. of secs. 26, 27, 34 & 35. marked on brass cap

T 11 S S 27 in NW.,
R 14 E S 26 in NE.,
S 35 in SE. and
S 34 in SW. quadrant,

from which
a pinon, 13 ins. diam., bears N. 56 1/2° E
117 lks. dist., marked
T 11 S R 14 E S 26 BT.
a pinon, 10 ins. diam., bears S. 28 3/4° E.,
124 lks. dist., marked
T 11 S R 14 E S 35 BT.
a pinon, 22 ins. diam., bears S. 61 1/4° W.,
123 lks. dist., marked

Subdivision of T. 11 S., R. 14 E.

Chains	
	T 11 S R 14 E S 34 BT.
	A juniper, 10 ins. diam., bears N. 37 1/4° W 73 lks. dist., marked T. 11 S R. 14 E S 27 BT.
	Note: S 11.50 chs. steep N. slope of mountainous land forming S. side of Nine Mile Canyon. Soil loose shale rocks with a hard clay and rock sub soil of volcanic formation.
	Next 24.30 chs. level bottom land of Nine Mile Canyon draining East. Soil rich sandy loam with a deep sand sub soil 1st rate
	N 41.70 chs. North side or wall of Nine Mile canyon with exceptionally steep slope broken by numerous perpendicular ledges of sandstone. Soil loose shale and rocks with a hard clay sub soil, 4th rate
	Timber, cedar, juniper & spruce. Land mountainous, heavily timbered and exceptionally difficult to survey 80.00 chs.
	August 17, 1911
	August 18: At 8h 04m a. m. l. m. t. I set off 39° 49 1/2' on the lat arc; 13° 22' N. on the dec. arc; and determine a meridian with the solar at the cor. of secs. 26, 27, 34 & 35 heretofore described
	Thence I run N. 89° 55' E., on a random line bet. secs. 26 & 35
40.00	Set temporary 1/4 sec. cor.
79.88	Intersect N. & S. line 3 lks. N. of the cor. of secs. 25, 26, 35 & 36 heretofore described

Subdivision of T. 11 S., R. 14 E.

Chains	
	Thence I run
	S. 89°56' W., on true line bet. secs. 26 & 35.
	Over mountainous land through
	forest of pinon, cedar and spruce.
	Ascend 50 ft. to
1.50	Ridge, bears NW. and SE.
	Descend over rocky land.
7.50	Hollow, 150 ft. deep, drains S.
	Ascend 140 ft. to
14.00	Ridge, bears N. & S.
	Descend abruptly over ledges.
	10 to 20 ft. high
39.94	Wash in canyon, 460 ft. below ridge
	Course S. 35° E.
	Point for 1/4 sec. cor. falls in wash
	and on unsafe ground, therefore at
40.90	Set an iron post, 3 ft. long, 1 in. in
	dia., 26 ins. in a mound of
	earth and stone 4 ft. base 26 ins
	high for witness cor. to the 1/4
	sec. cor., marked on brass cap
	T 11 S R 14 E S 26 on N. half.
	S 35 on S. half, with
	W C 1/4 to the east., from which
	A pinon, 6 ins. diam., bears S. 26½° E.
	15 lks. dist., marked
	W C 1/4 S 35 BT
	A pinon, 5 ins. diam., bears N. 28° W.
	33 lks. dist., marked
	W C 1/4 S 26 BT
	Note: On account of natural
	obstacles I am unable to set post
	in the ground.
	Ascend steep rocky land sloping NE.
60.00	Spur, covered with huge boulders,
	530 ft. above canyon, projects SE.
	Algers house bears South. Descend
64.80	Hollow, 100 ft. deep, drains S.
	Ascend 125 ft. to

Chains	
69.30	Ridge, bears N. & S.
	Descend abruptly 100 ft. to
79.88	The cor. of secs. 26, 27, 34 & 35.
	Land mount ainous with general slope and drain south, forming the north wall of nine mile canyon.
	Soil, loose shale and rocks, with a hard clay and rock sub soil of volcanic formation. 4th rate.
	Timber, dense cedar, pinon and spruce.
	No undergrowth.
	Land mount ainous and heavily timbered 79.88 chs.
	August 18: At this sec. cor. I set off 13° 18' N. on the decl. arc; and at 12h. 04m. p. m. l. m. t. observe the sun on the meridian, the resulting lat. is 39° 49 1/2'
	N. 0° 01' W., bet. secs. 26 & 27
	Over mount ainous land, through forest of cedar, pinon and spruce
15.	Ascend abruptly
15.00	High ridge, 400 ft. above sec. cor. and 1100 ft. above nine mile canyon, bears E. & W.
	Thence gradually descend 175 ft. over land facing N. to
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 27 on W. half and S 26 on E. half, from which
	A pinon, 16 ins. diam., bears S. 81 1/2° W., 134 lks. dist., marked 1/4 S 27 BT
	A pinon, 7 ins. diam., bears N. 17 1/2° E., 63 lks. dist., marked

Subdivision of T. 11 S., R. 14 E.

Chains	
	1/4 S 26 BT.
44.00	Hollow, drains E.
	Ascend 100 ft. to
53.50	Top of bench bears E. and W.
70.50	Opening bears W. 1 ch. and extends W. 10 chs.
	Thence parallel to opening.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of earth and stone for cor. of secs 22, 23, 26 & 27, marked on brass cap
	T 11 S S 22 in NW.,
	R 14 E S 23 in NE.,
	S 26 in SE. and
	S 27 in SW. quadrant,
	from which
	A pinon, 10 ins. diam., bears N. 76 3/4° E., 74 lks. dist., marked
	T 11 S R 14 E S 23 BT
	A pinon, 8 ins. diam., bears S 52 3/4° E., 109 lks. dist., marked
	T 11 S R 14 E S 26 BT
	A pinon, 8 ins. diam., bears S. 79 1/2° W., 89 lks. dist., marked
	T 11 S R 14 E S 27 BT
	A pinon, 7 ins. diam., bears N. 49° W., 114 lks. dist., marked
	T 11 S R 14 E S 22 BT.
	Note: On account of natural obstacles I am unable to set post in the ground:
	S. 15 chs. steep south face of high ridge forming wall of nine mile canyon.
	Soil a loose shale rock with hard clay and rock sub soil of volcanic formation, 4th rates.
	N 65 chs. broken mountain top with natural east drain.
	Soil, shale, decayed vegetation and rocky with a hard baked clay

Chains.	
	sub soil, 4th rate.
	Timber, cedar, pinon and spruce.
	Land mountainous and heavily timbered, 80.00 chs.
	August 18, 1911
	August 21: for solar observation see line bet. secs. 27 & 28.
	N. 89° 56' E. on a random line bet. secs. 23 & 26.
40.00	Set temporary 1/4 sec. cor.
79.86	Intersect N. & S. line 7 lks N. of the cor. of secs. 23, 24, 25 & 26 heretofore described.
	Thence I run
	S. 89° 59' W., on true line bet. secs. 23 and 26.
	Over rough mountainous land through forest of cedar pinon and spruce.
	Descend 50 ft. to
3.70	Wash in Current Canyon, 30 lks. wide, 4 ft. deep, course SE.
	Note: Canyon forks about 5 chs NW.
	Thence ascend rocky land facing NE.
39.93	775 ft. above canyon.
	Set a gray granite stone, 24 x 7 x 7 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which
	A spruce, 18 ins. diam., bears N. 82° W., 34 lks. dist., marked 1/4 S 23 BT
	A spruce, 20 ins. diam., bears S. 30 1/4° W., 40 lks. dist., marked 1/4 S. 26 BT.
	Continue to ascend
50.50	Top of steep ascent and edge of rolling mountain top, 100 ft. above 1/4 cor, bears N. & S.
	Gradually ascend 100 ft to
78.00	Ridge, bears NW & SE.

Chains.	
	Descend.
79.86	The cor of secs. 22, 23, 26 & 27
	E. 50.50 chs. mount amous land with general NE. slope from high ridge to canyon.
	Soil a loose shale, rocky and gravelly, with a hard clay sub-soil, 4th rate
	W 29.36 chs. rolling mount am top draining South and east with a gradual SW slope.
	Soil rocky and light clay loam with hard clay and rock sub soil, 4th rate
	Timber, cedar, pinon and spruce.
	Land mount amous and heavily timbered 79.86 chs.
	August 21, 1911
	August 24; At 8h 02m a.m. l.m.t., I set off 39° 50' on the lat. arc, 11° 23' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27 heretofore described.
	Thence I run
	N. 0° 01' W., bet. secs. 22 & 23.
	over mount amous land, through dense forest of cedar, pinon and spruce.
	Ascend 90 ft. to
6.00	Ridge, bears NW. and SE.
	Descend.
12.00	Leave timber, enter opening, bears NW. and SE.
34.10	Hollow, 150 ft. deep, drains E.
	Gradually ascend.
38.00	Enter heavy timber, bears E. and W.
40.00	Set a limestone, 28 x 8 x 3 ins., 21 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, from which

Chains	
	A cedar, 12 ins. diam., bears N. 84 3/4° W., 134 lks. dist., marked 1/4 S 22 BT
	A pinon, 16 ins. diam., bears N. 53° E., 100 lks. dist., marked 1/4 S 23 BT
45.00	Ridge, 75 ft. high, bears E. & W.
	Descend.
54.00	Leave timber, bears E. and NW.
62.40	Hollow, 100 ft. deep, drains S. 60° E.
67.00	Enter timber, bears NW. and E.
	Ascend.
80.00	Ridge, 80 ft. high, bears NW. and SE.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 14, 15, 22 & 23, marked on brass cap,
	T 11 S S 15 in NW.,
	R 14 E S 14 in NE.,
	S 23 in SE. and
	S 22 in SW. quadrant,
	from which
	A pinon, 8 ins. diam., bears N. 43 1/2° E., 185 lks. dist., marked. T 11 S R 14 E S 14 BT.
	A pinon, 7 ins. diam., bears S. 39 3/4° E. 105 lks. dist., marked T 11 S R 14 E S 23 BT.
	A pinon, 9 ins. diam., bears S. 20° W., 124 lks. dist., marked T 11 S R 14 E S 22 BT
	A pinon, 12 ins. diam., bears N. 34 1/4° W 32 lks. dist., marked T 11 S R 14 E S 15 BT.
	Land mount among with a general, easterly drain and gradual slopes from ridges to N. & S. Soil a light loam and gravel surface with a hard dry clay

Chains	
	and gravel sub soil, 4th rates. Some grass for grazing. Timber, cedar, piñon and spruce. Land mountainous and heavily timbered 80 00 chs. August 24: At this sec. cor. I set off 11° 19' N. on the decl. arc; and at 12h 02m p. m. l. m. t. observe the sun on the meridian, the resulting lat. is 39° 5' which is within 1' of the proper lat.
	N. 89° 59' E. on a random line bet secs. 14 & 23.
40.00	Set temporary 1/4 sec. cor.
79.77	Intersect N. & S. line 9 lks. S. of the cor. of secs. 13, 14, 23 & 24, heretofore described. Thence I run S. 89° 55' W., on true line bet. secs. 14 & 23 over mountainous land, through forest of cedar, piñon and some spruce. Ascend
6.50	Top of mesa or rolling mountain top, 100 ft. above sec. cor., bears NE. and SW. Leave timber, bears NE and SW. Gradually ascend.
21.00	Top of gradual ascent, gradually descend.
25.00	Edge of mesa, bears N. & S. Descend abruptly.
32.00	Wash in canyon, 30 lks. wide, 4 ft. deep, 780 ft. below mesa, course S. 30° W. Ascend abruptly
33.80	Perpendicular sandstone ledge, 70 ft. high, bears N & SW.
37.70	Rocky spur, 200 ft. above canyon, projects S.

Chains	
	Descend abruptly.
39.88	Set a sandstone, 32 x 10 x 7 ins., 24 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which
	A pinon, 15 ins. diam., bears N. 51° W., 125 lks. dist., marked 1/4 S 14 BT
	A pinon, 9 ins. diam., bears S. 70° E., 171 lks. dist., marked 1/4 S 23 BT.
55.00	Wash in canyon, 30 lks. wide, 360 ft. below spur, course SE.
	Ascend abruptly
64.50	Top of steep ascent, 300 ft. above wash, bears N. & S.
	Continue to ascend 100 ft. to
79.77	The cor. of secs. 14, 15, 22 & 23.
	Land mountainous with general south drain cut by canyons with steep E. and W. slopes.
	Soil rocky with some light loam and sub soil of hard dry clay & rocks of volcanic formation 4th rates.
	Some good grass for grazing on E 25 chs.
	Timber, cedar, pinon and spruce.
	Land mountainous and heavily timbered 79.77 chs.
	August 24 - 1911

August 29: At 7h 01m a.m. l.m.t., I set off 39° 51' on the lat. arc., 9° 40' N. on the decl. arc., and determine a a meridian with the solar at the cor. of secs. 14, 15, 22 and 23 heretofore described

Thence I run

N. 0° 01' W., bet. secs. 14 & 15

over mountainous land through forest of cedar and pinon.

Subdivision of T. 11 S., R. 14 E.

Chains.	
	Gradually descend
12.00	Leave timber, bears E. and W.
19.00	Hollow, 75 ft. deep, drains E.
	Ascend 150 ft to
20.00	Enter timber, bears NW. and E.
26.00	Ridge, bears NW. and SE.
	Descend over land facing NE.
38.30	Point for 1/4 sec. cor. will fall in center of wash where cor. cannot be perpetuated
	Set a sandstone 24 x 10 x 8 ins., 18 ins. in the ground for witness cor. to the 1/4 sec. cor., marked WC 1/4 on W. face, from which
	A cedar, 6 ins. diam., bears N. 61½° E. 80 lks. dist., marked WC 1/4 S 14 BT
	A pinon, 8 ins. diam., bears N. 87° W., 85 lks. dist., marked WC 1/4 S 15 BT
40.00	Wash in canyon, 25 lks. wide, 5 ft. deep, 175 ft. below ridge, course S. 60° E. Note. down wash about 10 chs. is a spring of good water
	Ascend 75 ft. to
50.30	Spur, projects west.
	Descend
56.00	Hollow, 50 ft. deep, drains SW.
	Ascend abruptly
80.00	Ridge 300 ft. above hollow, bears NW. and SE.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of earth and stone, 4 ft. base, 2 ft. high, for cor. of secs. 10, 11, 14 & 15 marked on brass cap T 11 S S 10 in NW., R 14 E S 11 in NE., S 14 in SE. and

Subdivision of T. 11 S. R. 14 E.

Chains.

S 15 in SW. quadrant,
from which
A pinon., 15 ins. diam., bears N. 41¼° E.,
119 lks. dist., marked
T 11 S R 14 E S 11 BT
A pinon, 10 ins. diam., bears S. 33° E.
78 lks. dist., marked
T 11 S R 14 E S 14 BT
A pinon, 9 ins. diam., bears S. 39½° W.
38 lks. dist., marked
T 11 S R 14 E S 15 BT
A pinon, 16 ins. diam., bears N. 59° W.
42 lks. dist., marked
T 11 S R 14 E S 10 BT.

Note: On account of natural obstacles I am unable to set post in the ground.
Land mount amous with general south drain and NE & SW slopes of rocky spurs and ridges.
Soil loose shale rocks and rocky with a hard clay sub soil of about 1 ft then solid sandstone bed rock of volcanic formation.
Timber, cedar, pinon and a few scattering spruce.
Some good grass for grazing on S ½ mile.
Land mount amous and heavily timbered 80.00 chs.
August 29: At this sec. cor. I set off 9° 35' N. on the decl. arc: and at 12h 01m 0 m.l.m.t., observe the sun on the mer.; the resulting lat. is 39° 52'.

N. 89° 55' E., on a random line bet secs 11 & 14.
40.00 Set temporary ¼ sec. cor.
79.71 Intersect N. & S. line 9 lks S. of the

Subdivision of T. 11 S., R. 14 E.

chains	
	Cor. of secs. 11, 12, 13 & 14 heretofore described
	Thence I run
	S. 89°51' W., on true line bet. secs. 11 & 14.
	Over mountainous land through forest of cedar and pinon.
	Descend over rocky land sloping NW.
20.40	Wash in canyon, 20 lks. wide, 300 ft. below sec. cor., course SW
	Ascend 125 ft. to
32.00	Spur, projects S.
	Descend 75 ft. to
39.85½	Set a sandstone 28 x 15 x 4 ins., 21 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which
	A pinon, 10 ins. diam., bears S. 16° W. 66 lks. dist., marked 1/4 S 14 BT
	A pinon, 9 ins. diam., bears N. 39° W., 83 lks. dist., marked 1/4 S 11 BT
42.00	Hollow, 75 ft. below 1/4 cor., drains S.
	Ascend 125 ft. to
48.00	Ridge, bears N. 30° W., and S. 30° E.
	Descend
60.00	Hollow, 150 ft. deep, drains SE.
	Ascend
79.71	300 ft. above hollow.
	The cor. of secs. 10, 11, 14 & 15.
	Land mountainous with general south drain and NW & SE. slopes of steep ridges.
	Soil rocky with hard dry clay and rock sub soil of volcanic formation
	Timber dense cedar and pinon.
	Land mountainous and heavily timbered 79.71 chs
	August 29, 1911

Chains	
	August 30: At 8h 01m a.m. l.m.t., I set off 39°52' on the lat. arc; 9°15' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 10, 11, 14 & 15 heretofore described. Thence I run
	N. 0°01' W., bet. secs. 10 & 11.
	over mountainous land, through forest of cedar and pinon.
	Gradually descend
5.50	Hollow, 50 ft. deep, drains SE.
	Ascend 75 ft. to
11.50	Ridge, bears E. and W.
	Descend abruptly
21.50	Hollow, 150 ft. deep, drains SE.
	Ascend 150 ft. to
33.00	Ridge, bears NW and SE.
	Thence descend over land sloping NE.
40.00	100 ft. below ridge.
	Set a sandstone, 32 x 13 x 4 ins., 24 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which
	A pinon, 15 ins. diam., bears S. 78° E., 102 lks. dist., marked 1/4 S 11 BT
	A pinon, 5 ins. diam., bears N. 62° W., 27 lks. dist., marked 1/4 S 10 BT.
	Descend 75 ft. to
45.50	Hollow, drains SE.
	Ascend 30 ft. to
46.25	Ridge, bears S. 60° E & W.
	Descend
50.50	Hollow 75 ft. deep, drains SE.
	Ascend abruptly over ledges.
70.00	Top of ridge and divide between Nine Mile canyon and Green River basin, 375 ft. above hollow, and 2600 ft. above Nine Mile

chains

canyon, bears E. and W.
Thence gradually descend through scattering timber
80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground for cor. of secs. 2, 3, 10 & 11, marked on brass cap
T 11 S S 3 in NW.,
R 14 E S 2 in NE.,
S 11 in SE. and
S 10 in SW. quadrant,
from which
A pinon, 10 ins. diam., bears N. 68° E. 297 lks. dist., marked
T 11 S R 14 E S 2 BT
A cedar, 32 ins. diam., bears S. 46° E., 877 lks. dist., marked
T 11 S R 14 E S 11 BT
A pinon, 12 ins. diam., bears S. 65° W., 390 lks. dist., marked
T 11 S R 14 E S 10 BT
A pinon, 32 ins diam., bears N. 45¼° W 185 lks. dist., marked
T 11 S R 14 E S 3 BT.
S 70 chs. steep mountainous land on south side of high ridge and divide.
Soil a loose shale rock and sub soil of hard, dry, baked clay of volcanic formation, 4th rate
N. 10 chs. Gradual NE. slope from divide
Soil, gravelly with a light sandy loam sub-soil 3 ft. deep, 2nd rate
Good grass for grazing on N. 10 chs.
Timber dense cedar and pinon on S 70 chs, while only scattering on N. 10 chs.
Land mountainous and heavily

Chains	
	timbered 80.00 chs.
	N. 89° 51' E., on random line bet. secs. 2 and 11
40.00	Set temporary 1/4 sec. cor.
79.75	Intersect N. & S. line, 12 lks. N. of the cor. of secs. 1, 2, 11 & 12 heretofore described
	Thence True
	S. 89° 56' W., on true line bet. secs. 2 and 11.
	Over mountainous land near top of high ridge and divide
	Gradually descend across open hollow.
2.00	Hollow, drains NE.
	Enter dense forest of cedar and pinon.
	Ascend.
8.50	Spur, 50 ft. high, projects NE.
	Leave dense timber, enter scattering timber
	Descend.
19.80	Hollow, 60 ft. deep, drains NE.
	Ascend 75 ft. to
31.00	Ridge, bears N. & S.
	Gradually descend.
39.87½	Set a sandstone, 24 x 12 x 4 ins. 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face., from which
	A forked pinon, 10 ins. diam., bears N. 28 1/4° E. 3.41 lks. dist., marked 1/4 S 2 BT
	A pinon, 9 ins. diam., bears S. 14° E. 3 1/2 lks. dist., marked 1/4 S 11 BT.
48.50	Hollow, 50 ft. deep, drains N. 35° E.
	Gradually ascend, 40 ft. to
79.75	The cor. of secs. 2, 3, 10 and 11

chains.	
	Land mount anous with general slope and drain to the NE. Soil, gravelly and light loam, with gravel and rocky sub-soil 4th rate. Timber, cedar and juniper. Good grass for grazing. Land mount anous or heavily timbered 79.75 chs. August 30: At this sec. cor. I set off 4°13' N. on the decl. arc; and at 12h 01m p. m. l. m. t., observe the sun on the mer; the resulting lat. is 39° 55'
	N. 0°01' W., bet. secs. 2 & 3. Over rolling mount anous land near top of divide between Green river basin and Duchesne valley.
1.50	Enter forest of cedar and juniper brass N. 80° E and SW. Ascend gradually
13.00	Ridge, brass NE. and W. Gradually descend.
15.00	Head of hollow, drains NE. Ascend.
29.51	Intersect the S. bdy. of the Uintah Indian Reservation. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 2 & 3, marked on brass cap. U I R on N. half. and C C T 11 S R 14 E S 2 S 3 in S. half, from which A juniper, 14 ins. diam., brass S. 81° E., 41 lks. dist., marked T 11 S R 14 E S 2 B T A forked cedar, 32 ins. diam., brass S. 8½° W. 99 lks. dist., marked.

Chains.

T 11 S R 14 E S 3 B T.

From this closing corner the 43rd mile cor. on the bdy., bears S. 23°47' W., 15.00 chs. dist.

Land mountainous with gradual NE slope and drain from divide

Soil, gravelly and light loam with shallow loam sub-soil, 3rd rate

Good grass for grazing.

Timber, cedar and pinon.

Land mountainous and heavily timbered 29.51 chs.

August 30, 1911

August 19: At 8h. 04m. a.m. l.m.t., I set off 39° 48½' on the lat. arc; 13° 02' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 33 & 34 on the S. bdy of the tp. heretofore described.

Thence I run

N. 0° 02' W., bet. secs. 33 & 34.

Over rough mountainous land facing east, through forest of cedar pinon and spruce

8.00 School house, bears E. 8 chs.

12.00 E. Harmons house, bears E. 11.50 chs.

14.00 Two small cabins bear N. 85° E. 8 & 12 chs. dist.

15.00 Harmons, barn & corral bear East 17 chs.

18.00 Hollow at mouth, drains SE.

20.00 Begin abrupt ascent over ledges from nine mile canyon.

40.00 600 ft. above base.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4

Chains	
	sec. cor., marked on brass cap 1/4 S 33 on W. half and S. 34 on E. half, from which
	A pinon, 12 ins. diam., bears N. 57¼° E. 43 lks. dist., marked 1/4 S 34 BT
	A pinon, 10 ins. diam., bears S 78° W. 165 lks. dist., marked 1/4 S 33 BT.
43.00	Top of ridge, 700 ft. above base, bears E. and W.
	Gradually descend through dense timber
49.50	Hollow, 50 ft. deep, drains SE.
	Ascend 100 ft. to
68.60	Ridge, bears E. and W.
	Descend abruptly.
80.00	350 ft. below ridge
	Set an iron post, 3 ft. long, 2 ins in dia., 21 ins. in the ground for cor. of secs. 27, 28, 33 and 34 marked on brass cap T 11 S S 28 in NW., R 14 E S 27 in NE., S 34 in SE. and S 33 in SW. quadrant,
	from which
	A spruce, 11 ins. diam., bears N. 39¾° E. 75 lks. dist., marked T 11 S R 14 E S 27 BT
	A spruce, 12 ins. diam., bears S. 61¼° E. 25½ lks. dist., marked T 11 S R 14 E S 34 BT
	A pinon, 14 ins. diam., bears S. 25¾° W. 28 lks. dist., marked T 11 S R 14 E S 33 BT
	A pinon, 12 ins. diam., bears N. 11¾° W. 137 lks. dist., marked T 11 S R 14 E S 28 BT.

chains

S. 43 chs. mountainous land forming the north and west wall of nine mile canyon.
Soil loose shale rocks and rocky with a hard dry clay and rock sub soil, 4th rate.
N. 37 chs. NE slope and drain of high mountain ridge.
Soil rocky with rocky sub soil of volcanic formation, 4th rates
Timber, cedar, juniper and spruce.
Land mountainous and heavily timbered 80.00 chs.
August 19: At this sec. cor. I set off 12° 58' N. on the decl. arc; and at 12h. 04m. p. m. l. m. t., observe the sun on the mer.: the resulting lat is 39° 49½'

N. 89° 55' E., on a random line bet. secs. 27 & 34.
40.00 Set temporary 1/4 sec. cor.
80.06 Intersect N. and S. line 9 lks. S. of the cor. of secs. 26, 27, 34 and 35 heretofore described.
Thence I run
S. 89° 51' W., on true line bet. secs. 27 and 34.
Over rough mountainous land through forest of cedar, juniper, and spruce.
Ascend abruptly 250 ft. to
18.50 High ridge, bears N. and S.
Begin steep descent into Trail canyon over land facing W.
36.00 Base of abrupt descent, 700 ft. below ridge, bears N. 30° W. + S.
Thence across bottom of Trail Canyon.

Subdivision of T. 11 S., R. 14 E.

Chains	
40.03	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 27 on N. half and S 34 on S. half, from which A pinon, 8 ins. diam., bears N. 40 3/4° E., 242 lks. dist., marked 1/4 S 27 BT A pinon, 10 ins. diam., bears S 7 1/2° E., 383 lks. dist., marked 1/4 S 34 BT.
42.20	Wash in bottom of Trail canyon, 60 lks. wide, 3 ft. deep, course S. Ascend abruptly 100 ft. to
52.20	Top of ridge between forks of Trail canyon, bears NW. and SE. Descend 100 ft. over ledges to
63.00	Wash in fork of Trail canyon, 50 lks. wide, 6 ft. deep, course SE. Begin steep ascent from canyon over land facing NE.
80.06	475 ft. above canyon. The cor. of secs. 27, 28, 33 & 34. Land mountainous. Soil, rocky; 4th rate Timber, cedar, pinon and spruce. Undergrowth sage brush and chaparral. General drain of land to the south cut by deep canyons; soil of slopes of ridges rocky with rock sub soil by volcanic formation. Land mountainous, heavily timbered or covered with dense undergrowth, 80.06 chs. August 19, 1911.
	August 21: At 8h 03m a. m. l. m. t.,

Chains	
	I set off 39° 19½' on the lat. arc; 12° 23' N. on the decl. arc., and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34.
	Thence I run
	N. 0° 02' W. bet. secs. 27 + 28.
	Over mountainous land through forest of cedar, pinon and spruce.
	Descend abruptly over land facing NE.
12.00	Left fork of Trail canyon and wash 50 lks. wide, 5 ft. deep, 325 ft. below sec. cor. drains S. 65° E.
	Ascend abruptly over ledges.
40.00	740 ft. above canyon.
	Set a sandstone 36 × 7 × 7 ins., 27 ins. in the ground for 1/4 sec. cor., mkd 1/4 on W. face; from which.
	A pinon, 11 ins. diam., bears N. 61¾° W. 116 lks. dist., marked 1/4 S 28 BT.
	A pinon, 9 ins. diam., bears S. 56½° E., 12 lks. dist., marked 1/4 S 27 BT.
42.00	Top of ridge, 750 ft. above canyon bears N. 30° W., and SE.
	Gradually descend 175 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of earth and stone, 4 ft. base, 2 ft. high for cor. of secs. 21, 22, 27 + 28, marked on brass cap T 11 S S 21 in NW., R 14 E S 22 in NE., S 27 in SE. and S 28 in SW. quadrant;
	from which
	A Spruce, 22 ins. diam., bears N. 19¼° E., 56 lks. dist., marked T 11 S R 14 E S 22 BT

Subdivision of T. 11 S., R. 14 E.

Chains	
	A juniper 6 ins. diam., bears S. 61¼° E., 50 lks. dist., marked T 11 S R 14 E S 27 BT.
	A juniper, 8 ins. diam., bears S. 82° W., 68 lks. dist., marked T 11 S R 14 E S 28 BT
	A spruce, 12 ins. diam., bears N. 38½° W. 45 lks. dist., marked T 11 S R 14 E S 21 BT.
	Land mount amous with steep rocky NE and SW slopes forming walls of canyon. Soil, rocky and loose shale rock with a hard clay sub-soil of volcanic formation. 3rd and 4th rates. Timber cedar, juniper, spruce and some mohogany. Land mostly amous and heavily timbered 80.00 chs.
	N. 89° 51' E., on a random line bet. secs. 22 and 27.
40.00	Set temporary ¼ sec. cor.
80.16	Intersect N. and S. line 9 lks. S. of the cor. of secs. 22, 23, 26 and 27. Hence 9 lks S. 89° 47' W., on true line bet. secs. 22 & 27
	Gradually descend over rolling mountain top through very dense forest of juniper, cedar and spruce.
14.00	Enter opening, bears NW. and SE.
18.00	Leave opening, bears NW and SE.
29.00	Ridge bears NW & SE. descend abruptly over steep land facing W.
40.08	100 ft. below ridge Set a sandstone, 24 × 8 & 8 ins. 18 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which

Subdivision of T. 11 S., R. 14 E.

Chains	
	A pinon, 12 ins. diam., bears S. 9° E. 56 lks. dist., marked 1/4 S 27 BT
	A pinon, 22 ins. diam., bears N. 58° E. 60 lks. dist., marked 1/4 S 22 BT.
	August 21: At this cor. I set off 12° 19' N. on the decl. arc; and at 12h 03m p.m. l.m.t. observe the sun on the meridian; the resulting latitude is 39° 50 1/2'
	Descend abruptly
49.00	Canyon wash, 30 lks. wide, 260 ft below 1/4 sec. cor., course S. 25° W.
	Ascend abruptly over ledges.
53.00	Spur, 100 ft. above wash, projects S
	Descend abruptly over ledges, 175 ft. to
60.20	Wash in Trail canyon, 40 lks. wide, course S. 30° E.
	Ascend abruptly from canyon over steep land facing NE
80.16	440 ft. above Trail Canyon.
	The cor. of secs. 21, 22, 27 & 28.
	Land mountainous.
	E. 29 chs. rolling mountain top, covered with an exceptionally dense growth of pinon, cedar and spruce. Soil a light clay loam with hard clay and rock sub soil of volcanic formation, 3rd rate. W 51.16 chs.
	E and W slopes of canyon, soil loose shale rock and rocky with hard clay sub-soil, 4th rate.
	Timber, pinon, cedar & spruce.
	Land, mountainous and heavily timbered 80.16 chs.
	August 21, 1911
	August 25: At 8h 02m a.m. l.m.t.,

Subdivision of T. 11 S., R. 14 E.

chains	
	I put off 39° 50½' on the lat. arc; 11° 02' N. on the decl. arc; and determine a mer. with the solar at the cor. of secs. 21, 22, 27 & 28
	Thence I run
	N. 0° 02' W., bet. secs. 21 & 22.
	Descend over mount amous land draining E. through dense forest of cedar, pinon and spruce
4.50	Hollow, 75 ft. deep, drains E.
	Gradually ascend 100 ft. to
21.00	Edge of mesa, bears E. and SW.
	Gradually descend
32.00	Leave mesa, descend abruptly towards Trail Canyon.
40.00	100 ft. below top.
	Point for 1/4 sec. cor. falls on solid sandstone bedrock, mark + for exact corner point with 1/4 to the west; from which
	A pinon, 18 ins. diam., bears N. 63¾° W. 78 lks. dist., marked 1/4 S 21 BT
	A pinon, 9 ins. diam., bears N. 60¼° E. 74 lks. dist., marked 1/4 S 22 BT.
	Continue to descend
52.90	Enter bottom of Trail canyon and wash, 50 lks wide, 150 ft. below 1/4 sec. cor., course S 40° E.
	Thence up channel of wash.
65.60	Leave wash, ascend land facing SW. 70 ft. to
67.00	Spur, projects E.
	Descend 30 ft. to
70.00	Enter same wash, course S. 35° E.
73.70	Leave wash, ascend 40 ft. to
76.30	Spur, projects E. Descend 35 ft to
76.80	Same wash, 50 lks. wide, course SE.
	A small alkali seep bears W. 1 ch.

chains	
	Thence gradually ascend along east side of wash.
80.00	Set an iron post, 3 ft. long, 2 ins in dia., 24 ins. in the ground and mound of stone 4 ft. base, 1 ft. high for cor. of secs. 15, 16, 21 & 22 marked on brass cap T 11 S S 16 in NW., R 14 E S 15 in NE., S 22 in SE. and S 21 in SW. quadrant;
	from which A pinon, 32 ins. diam., bears N. 40 3/4° E 134 lks. dist., marked T 11 S R 14 E S 15 BT. A pinon, 8 ins. diam., bears S. 51° E 202 lks. dist., marked T 11 S R 14 E S 22 BT. A pinon, 16 ins. diam., bears S. 72 3/4° W 254 lks. dist., marked T 11 S R 14 E S 21 BT A pinon, 16 ins. diam., bears N. 9 3/4° W 74 lks. dist., marked. T 11 S R 14 E S 16 BT.
	Note. On account of natural obstacles I am unable to set post over 12 ins. in the ground.
	Land, mount amous Soil, rocky and loose shale with hard baked clay and rock sub-soil of volcanic formation; 4th rate.
	Timber, pinon, cedar and spruce Some scattering chaparral undergrowth.
	Land mount amous heavily timbered or covered with dense undergrowth 8.00 chs.
	August 25: At this sec. cor. I set off 10° 58' N. on the decl. arc; and

chains	
	at 12h. 02m. P. m. l. m. t. observe the sun for the mer; the resulting lat. is 39° 51'.
	N. 89° 47' E., on a random line bet. secs. 15 and 22.
40.00	Set temporary 1/4 sec. cor.
79.99	Intersect N. & S. line 7 lks. N. of the cor. of secs. 14, 15, 22 & 23
	Hence I run
	S. 89° 50' W., on true line bet. secs. 15 & 22.
	Over rolling mountain top, through forest of cedar and pinon.
	Gradually descend from ridge over land sloping SW.
10.00	Leave timber bears NW and SE.
23.20	Hollow, 75 ft. deep, drains SE.
	Gradually ascend.
28.20	Enter scattering timber, bears NW and SE.
35.00	Top of ascent and low divide between Trail and Current canyons, bears NW & SE.
	Descend.
39.99	Set a limestone, 28 x 10 x 2 ins. 21 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
	Pits impracticable
	No trees within limits
44.00	Head of hollow, drains S 10° W.
	Enter heavy timber, bears N. & S.
	Begin steep ascent of eastern face of ridge over huge boulders.
64.00	Ridge 150 ft. above the cor., bears N. & S.
	Descend abruptly into Trail Canyon.

Chains	
79.99	350 ft. below ridge The cor. of secs. 15, 16, 21 and 22 E 44 chs. rolling mountain top draining SE on E 35 chs and SW on W. 9 chs. Soil light clay loam with hard clay sub soil, 3rd rate, Timber scattering pinon and cedar. Good grass for grazing. W 35.99 chs: rough mountainous land with steep E and W. slopes of ridge. Soil rocky with hard clay and rock sub soil 4th rate. Timber, pinon and cedar. Land mountainous or heavily timbered 79.99 chs. August 25, 1911.
	Sept. 1: At 8h 00m a.m. l.m.t. I set off 39° 51' on the lat. arc; 8° 34' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 15, 16, 21 & 22 heretofore described. Thence I run N. 0° 02' W., bet. secs. 15 & 16. Over mountainous land draining west, through scattering forest of cedar and pinon. Gradually ascend along east side of Trail Canyon wash.
8.80	Wash in Trail Canyon, 50 lks. wide course SW.
13.20	Wash in fork of Trail Canyon, 50 lks. wide, course SW 3 chs. to Trail Canyon. Begin steep ascent over rocky land facing nearly south.
40.00	300 ft. above wash Set an iron quartzite stone, 40 x 12 x 3 ins.; 30 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face;

Chains.	
	raise a mound of stone, 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Trees within limits but all too scrubby to mark.
43.00	Spur, 75 ft. above 1/4 cor. projects S. 20° E.
	Descend along eastern slope of spur.
56.00	Hollow, 100 ft. deep, drains SE.
	Ascend 125 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for 1/4 cor. of secs. 9, 10, 15 & 16, marked on brass cap.

T 11 S S 9 in NW.,
R 14 E S 10 in NE.,
S 15 in SE. and
S 16 in SW. quadrant,

from which

A pinon, 14 ins. diam., bears N. 65½° E. 59 lks. dist., marked
T 11 S R 14 E S 10 BT.

A pinon, 15 ins. diam., bears S. 22¼° E. 70 lks. dist., marked
T 11 S R 14 E S 15 BT.

A pinon 12 ins. diam., bears S. 65½° W. 207 lks. dist., marked
T 11 S R 14 E S 16 BT.

A pinon, 11 ins. diam., bears N. 60° W. 40 lks. dist., marked
T 11 S R 14 E S 9 BT.

Land, mountainous, draining S.
Soil, rocky with hard clay and rock sub soil of volcanic formation 4th rates.
Timber, pinon and cedar
Land mountainous and heavily timbered 80.00 chs.
September 1: At this sec. cor., 9

chains	
	set off 8° 30' N. on the decl. arc, and at 12h 00m p. m. l. m. t observe the sun on the meridian; the resulting lat. is 39° 52' which is the proper lat.
	N. 89° 50' E., on a random line bet. secs. 10 & 15.
40.00	Set temporary 1/4 sec. cor.
80.10	Intersect N. and S. line 7 lks. N. of the cor. of secs. 10, 11, 14 & 15. Thence I run S. 89° 53' W., on true line bet. secs. 10 and 15. Over mountainous land draining south, through forest of cedar and pinon. Descend abruptly from ridge
9.90	Hollow, 200 ft. deep, drains S. Ascend 40 ft. to
11.50	Spur, projects S. descend 30 ft. to
13.50	Hollow, drains SE. Ascend steep land facing NE.
33.60	Ridge, 360 ft. above hollow, bears NW. and SE. Gradually descend 75 ft. to
39.50	Hollow, drains S. 35° E. Ascend.
40.05	Set a sandstone, 18 x 10 x 4 ins., 12 ins in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which a pinon, 13 ins diam., bears N. 66° W. 57 lks. dist., marked 1/4 S 10 BT. A pinon, 14 ins. diam., bears S. 18 1/4° E 74 lks. dist., marked 1/4 S 15 BT.
48.00	Ridge, 100 ft. above hollow, bears NE. and S.

Chains.	
	Descend abruptly 230 ft. to
59.40	Wash in Trail canyon, 25 lks. wide course S. 70° W.
	Ascend 25 ft. to
61.00	Spur, projects S.
	Descend 75 ft. to
67.00	Hollow, drains S. 35° E.
	Ascend 75 ft. over land facing N.E. to
80.10	The cor. of secs. 9, 10, 15 & 16.
	Land mountainous, draining S.
	Soil, rocky with hard clay and rock sub soil of volcanic formation. 3rd and 4th rates.
	Timber, pinon and cedar.
	Land mountainous and heavily timbered 80.10 chs.
	September 1, 1911
	September 14; At 7h. 56m. a.m. l.m.t. I set off 39° 52' on the lat. arc; 3° 43' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16 heretofore described.
	Thence I run
	N. 0° 02' W., bet. secs. 9 & 10.
	Over mountainous land draining E. through forest of pinon, cedar and some spruce.
	Gradually ascend
10.50	Ridge, bears NW. and SE.
	Descend 75 ft. to
18.00	Hollow, drains E.
	Ascend 75 ft. over land facing SW.
25.50	Ridge, bears NW. and SE.
	Descend abruptly
30.00	Hollow, 100 ft. deep, drains E.
	Begin ascent of the south face of high divide

chains	
40.00	100 ft. above hollow. Set a sandstone, 24 x 8 x 6 ins., 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which A pinon, 16 ins. diam., bears S. 64° E. 97 lks. dist., marked 1/4 S 10 BT. A pinon, 10 ins. diam., bears S 37½° W., 28 lks. dist., marked 1/4 S 9 BT. Continue steep rocky ascent.
44.11	100 ft. above 1/4 sec. cor and on top of divide between Duchesne and Nine mile valleys. Intersect south boundary of the Uintah Indian Reservation. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of earth and stone, 4 ft. base, 2 ft. high, for closing cor. of secs. 9 & 10, marked on brass cap. U. I. R. on N. face. C.C.T 11 S R 14 E S 9 S 10 on S. face. raise a mound of stone, 2 ft. base, 1½ ft. high S. of cor. Pits impracticable. No suitable trees within limits. Note: On account of natural obstacles I am unable to set post in the ground. From this closing cor. the 44th mile cor. on the bdy., which is a sandstone 11 x 10 x 3 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General, bears N. 70° 45' E., 15.48 chs. dist. Land: mountainous draining south from high divide. Soil, rocky and loose shale rock; 4th rate.

Subdivision of T. 11 S., R. 14 E.

chains	
	Timber, cedar and juniper
	Land, mountainous and heavily timbered 44.11 chs
	August 31: At 8h. 0 m. l. m. t., I set off 39°53' on the lat. arc; 8°57' N. on the decl. arc; and det. a mer. with the solar at the cor. of secs. 2, 3, 10 & 11.
	Thence I run.
	S. 89°53' W., on true line bet. secs. 3 & 10.
	Ascend over mountainous land facing east, through forest of cedar and juniper.
4.00	High divide between Duchesne valley and Green river basin, bears N. & S. Descend
16.26.	At head of hollow, 100 ft. below divide, course E. Intersect South boundary Uintah Indian Res. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 3 & 10 marked on brass cap, U. I. R. on W. half and CC T11S R14E S3 S10 on E. half; from which
	A juniper, 18 ins. diam. bears N. 71½° E., 263 lks. dist., marked T 11 S R 14 E S 3 B T.
	A cedar, 10 ins. diam., bears S. 52° E., 300 lks. dist., marked T 11 S R 14 E S 10 B T.
	From this cor., the 43rd mile cor. in the bdy. bears N. 32° 49' E. 18.96 chs.
	Land mountainous with E. & W. slopes from divide.
	Soil, rocky with rocky sub soil; 4th rate
	Timber cedar & juniper.
	Mountainous and timbered land, 16.26 chs.
	Sept. 2: 8h. a. m. l. m. t., I set off 39°48½' on the lat. arc; 8°12½' N. on the decl. arc; and det. a mer. with the solar at the cor. of secs. 32 & 33 on the S. bdy. of the tp. ~~hereto fore described~~
	Thence I run.
	N. 0°03' W. bet. secs. 32 & 33.
	Over mountainous land through forest of cedar juniper and spruce. Descend abruptly.
7.60	Base of mountain, 200 ft. below cor, bears NW & S., leave timber, enter dense willow undergrowth
	Thence across bottom of Argyle canyon.
9.70	Argyle Creek, 20 lks wide 6 ins. deep, good water, runs SE.
10.00	Fence, bears NW & SE. Leave undergrowth, enter cultivated field belonging to Pauley Warren

Subdivision of T. 11 S. R. 14 E.

Chains	
18.20	Leave field, bears NW + SE., ascend from canyon
18.40	Wagon road bears NW. and SE.
22.00	Spur, 75 ft. high, projects W. 2 chs. descend
25.00	Base of spur, bears NE + W. Thence across canyon.
26.00	Wash in canyon, 75 lks wide course S. 70° W.
31.50	Leave canyon bottom, bears E + W.
	Ascend abruptly over ledges.
40.00	250 ft. above wash.
	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground for 1/4 sec. cor., mkd on brass cap, 1/4 S 32 on W. and S 33 on E. half, raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
	Pits impracticable.
	Parley Warrens house bears West.
	Continue to ascend.
48.50	High rocky spur, 150 ft. above 1/4 sec. cor., projects SE.
	Enter forest of cedar, pinon and spruce.
	Descend abruptly 250 ft. over land facing NE.
55.40	Wash in canyon, 30 lks. wide, course S. 30° E.
	Thence up steep rocky land facing SW.
75.25	Thence over land facing W., gradually descending
80.00	375 ft. above canyon
	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 marked on brass cap
	T 11 S S 29 in NW.,
	R 14 E S 28 in NE.,
	S 33 in SE. and
	S 32 in SW. quadrant.
	from which
	A spruce, 16 ins. diam., bears N. 38 1/2° E. 12 lks. dist., marked

Subdivision of T. 11 S., R. 14 E.

Chains	
	T 11 S R 14 E S 28 B.T.
	A pinon, 20 ins. diam., bears S. 50½° E 25 lks. dist., marked T 11 S R 14 E S 33 B T
	A spruce, 18 ins. diam., bears S. 45½° W. 88 lks. dist., marked T 11 S R 14 E S 32 B T
	A pinon, 10 ins. diam., bears N. 77½° W 15 lks. dist., marked T 11 S R 14 E S 29 B T.
	Land mountainous and level. draining South.
	Soil on mountainous part, loose shale rock with hard clay sub soil of volcanic formation. On level part or bottom land soil is rich sandy loam with deep sand sub soil, 1st rate.
	Undergrowth dense willow on 2.10 chs.
	Timber, pinon, cedar and spruce on 40.10 chs.
	Land mountainous or heavily timbered 80.00 chs.
	September 2: At this sec. cor. I set off 8° 08' N. on the decl. arc; and at 12h m. l. m. t., observe the sun on the meridian the resulting lat. is 39° 49½'
	N. 89° 55' E, on a random line bet. secs. 28 and 33.
40.00	Set temporary ¼ sec. cor.
80.04	Intersect N. & S. line 12 lks. N. of the cor. of secs. 27, 28, 33 & 34.
	Thence I run
	West, on true line bet. secs. 28 & 33.
	Over mountainous land, through dense forest of, pinon, cedar, and

Chains

spruce.
Ascend steep rocky land sloping NE.
12.50 Top of steep ascent, 300 ft above sec. cor., brass NW. and SE.
Gradually ascend.
40.02 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 28 on N. half and S 33 on S half, from which
A pinon, 9 ins. diam., brass N. 42½ E. 60 lks. dist., marked 1/4 S 28 BT.
A pinon, 10 ins. diam., brass S. 37¾ E. 77 lks. dist., marked 1/4 S 33 BT.
1/5.00 Ridge, brass N. & S.
Descend abruptly.
55.80 Hollow, 150 ft. deep, course SW.
Ascend 100 ft. to
67.50 Ridge, brass N. & S.
Descend 150 ft. to
80.04 The cor. of secs. 28, 29, 32 and 33.
Land mount amous with general south drain.
Soil, rocky with rocky sub soil, 4th rate.
Timber, pinon, cedar and spruce.
Land mount amous and heavily timbered 80.04 chs.

September 7, 1911

September 5: At 6h 59m a.m. l. mt., I set off 34° 14½' on the lat. arc; 7° 05' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 28, 29, 32 & 33 heretofore described.
Thence I run

Chains.

N. 0° 03' W., bet. secs. 28 and 29.
Over mountainous land draining W., through dense forest of pinon, cedar and spruce.
Gradually descend across series of small ridges and draws.

40.00 Set a sandstone 28 x 12 x 6 ins., 21 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which.

A pinon, 8 ins. diam., bears S. 80½° E., 50 lks. dist., marked
1/4 S 28 BT.

A pinon, 9 ins. diam., bears S 81½° W., 56 lks. dist., marked
1/4 S 29 BT.

116.50 Wash in canyon, near head, 15 lks, wide, course S. 35° W.
Ascend abruptly over huge boulders.

53.00 Top of steep ascent and rolling mountain top, 100 ft. above canyon, bears E. and W.
Gradually ascend over gentle SW. slope 75 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of earth and stone, 4 ft. base, 2 ft. high for cor. of secs. 20, 21, 28 and 29, marked on brass cap
T 11 S S 20 in NW.,
R 14 E S 21 in NE.,
S 28 in SE. and
S 29 in SW. quadrant,
from which

A pinon, 16 ins. diam., bears N. 15¾° E. 71 lks. dist., marked
T 11 S R 14 E S 21 BT

A pinon, 10 ins. diam., bears S. 52° E. 68 lks. dist., marked

Subdivision of T. 11 S., R. 14 E.

chains

T 11 S R 14 E S 28 BT
A pinon, 11 ins. diam., bears S. 47° W.
71 lks. dist., marked
T 11 S R 14 E S 29 BT.
A pinon, 10 ins. diam., bears N. 78¼° W
11 lks. dist., marked
T 11 S R 14 E S 20 BT.
Note: On account of natural obstacles I am unable to set post in the ground.
Land, mount amous draining S. S.53 chs steep mount amous land along wall of canyon. N. 27 chs. rolling mountain top.
Soil, gravelly, rocky and clay loam with a light loam and rocky sub soil, 3rd rate.
Timber, dense, pinon, cedar and spruce.
Undergrowth some scattering chaparral.
Land mountainous, heavily timbered or covered with dense undergrowth 80.00 chs.
September 5: At this sec. cor. I set off 7°02' N. on the decl. arc: and at 11h 59m am. l. m. t., observe the sun on the meridian, the resulting lat. is 39°50'.

East, on a random line bet. secs. 21 and 28.
40.00 Set temporary 1/4 sec. cor.
80.06 Intersect N. & S. line 11 lks. S. of the cor. of secs. 21, 22, 27 & 28
Thence I run
S. 89° 54' W., on true line bet. secs. 21 and 28.
Over mountainous land

chains	
	draining East, through dense forest of pinon, cedar and spruce.
11.00	Low saddle land divide between forks of trail canyon, 100 ft. above sec. cor., bears N. 20° W and SE. Begin steep descent into canyon over land facing nearly W.
30.10	Wash in left hand fork of trail canyon, 30 lks. wide, 450 ft. below ridge, course S. 35° E. Ascend abruptly from canyon.
40.03	200 ft. above base Set a limestone, 24 × 14 × 4 ins., 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; from which A spruce, 33 ins. diam., bears S. 1 1/4° E., 113 lks. dist., marked 1/4 S 28 BT. A spruce, 18 ins. diam., bears N. 1 1/4° W., 23 lks. dist., marked 1/4 S 21 BT.
	Continue to ascend
46.50	Ledge and edge of rolling mountain top, 125 ft. above 1/4 cor., bears N. 30° W and S. 30° E. Thence gradually ascend over land sloping East.
53.00	Enter opening, bears NW. and SW
57.00	Opening extends south west about 25 chs and NW. about 15 chs.
62.00	Leave opening bears NW and SW
77.00	Ridge, 100 ft. above edge of mountain top, bears NW and SE Descend 50 ft. to
80.06	The cor. of secs. 20, 21, 28 and 29. E. 46.50 chs. rough mountainous land with steep east and west slopes of ridges.

Chains

Soil, loose shale rock and rocky with hard clay sub soil, 4th rate
W. 33.56 chs. rolling mountain top with gentle east and west slope
Soil, light clay loam with a clay sub soil, 2nd rate good grass for grazing.
Timber, pinon, cedar and spruce.
Undergrowth some chaparral.
Land mount anous, heavily timbered or covered with dense undergrowth 80.06 chs.
September 5, 1911

Sept. 6: At 7h 59m a.m. l.m.t., I set off 39° 50' on the lat. arc; 6° 44' N. on the decl. arc., and determine a meridian with the solar at the cor. of secs. 20, 21 28 and 29 heretofore described
Thence I run
N. 0° 03' W., bet. secs. 20 and 21.
Over mount anous land draining south, through forest of cedar, pinon and spruce
Gradually ascend 75 ft. to
9.00 Ridge, bears NW. and SE.
Thence over land facing nearly east,
35.00 Spur, projects East.
Leave rolling mountain top, begin steep descent over land sloping NE.
40.00 75 ft. below top
Set a limestone, 24 x 9 x 7 ins., 18 ins. in the ground for 1/4 sec. cor.; marked 1/4 on W. face., from which.

chains	
	A pinon, 6 ins. diam., bears N. 49 3/4° W., 13 lks. dist., marked 1/4 S 20 BT.
	A pinon, 7 ins. diam., bears S. 31 1/4° E. 71 lks. dist., marked 1/4 S 21 BT.
	Descend 150 ft. over land facing N. to
53.50	Hollow, drains E.
	Ascend.
73.00	Ridge, 300 ft. above hollow, bears NW. and SE.
	Descend 115 ft. over land facing NE. to
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, marked on brass cap. T 11 S S 17 in NW., R 14 E S 16 in NE., S 21 in SE. and S 20 in SW. quadrant.,
	from which
	A pinon, 12 ins. diam., bears N. 13 1/2° E. 88 lks. dist., marked T 11 S R 14 E S 16 BT
	A pinon, 14 ins. diam., bears S. 24° E. 122 lks. dist., marked T 11 S R 14 E S 21 BT.
	A pinon, 16 ins. diam., bears S. 24 1/2° W. 93 lks. dist., marked T 11 S R 14 E S 20 BT.
	A pinon, 17 ins. diam., bears N. 38° W. 70 lks. dist., marked T 11 S R 14 E S 17 BT.
	Land mountainous, draining SE.
	Soil, light clay loam and rocky with hard clay and rock

Chains	
	sub soil of volcanic formation 3rd rate.
	Timber, cedar, pinon and some spruce.
	Undergrowth some chaparral.
	Land mountainous, heavily timbered or covered with dense undergrowth 80.00 chs.
	September 6. At this sec. cor. I set off 6° 40' N. on the decl. arc; and at 11h. 59m. a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 34° 51'
	N. 89° 54' E. on a random line bet. secs. 16 and 21.
40.00	Set temporary 1/4 sec. cor.
80.00	Intersect N. and S. line 21 lks. N. of the cor. of secs. 15, 16, 21 and 22.
	Thence I run
	N. 89° 57' W., bet. secs. 16 & 21.
	Over mountainous land draining south, through forest of cedar pinon and spruce and some chaparral underqrowth -
	Descend 15 ft. to
0.75	Wash in Trail Canyon, 50 lks. wide, course S. 35° E.
	Thence up steep rocky land facing East.
9.00	Ridge, 200 ft. above canyon, bears N. & S.
	Gradually descend 100 ft over land facing SW. to
24.20	Junction of two hollows from NE. and NW, course SE.
	Ascend abruptly.
40.00	200 ft above hollows.
	Set a sandstone 24 x 7 x 5 ins.

Subdivision of T. 11 S., R. 14 E.

Chains	
	18 ins. in the ground for 1/4 sec. Cor., marked 1/4 on N. face; from which
	A pinon, 10 ins. diam., bears N. 16 1/4° W. 72 lks. dist., marked 1/4 S 16 BT.
	A spruce, 8 ins. diam., bears S. 66 1/4° E. 85 lks. dist., marked 1/4 S 21 BT.
	Continue to ascend
46.00	Ridge, 125 ft. above 1/4 cor., bears N. and S.
	Descend abruptly over land facing west towards fork of Trail canyon.
62.60	Wash in canyon, 400 ft. below ridge, course S.
	Ascend 75 ft. to
68.50	Spur, projects S. 20° W.
	Descend 75 ft. to
76.20	Hollow, drains SE.
	Ascend 50 ft. to
80.00	The cor. of secs. 16, 17, 20 and 21. Land mountainous, draining S. Soil rocky with a hard clay and rock sub soil, 4th rate. Some grass for grazing. Timber, cedar, pinon and spruce. Undergrowth some chaparral. Land mountainous, heavily timbered or covered with dense undergrowth. 80.00 chs.
	September 6, 1911

Sept. 13: At 7h. 56m. a.m. l.m.t., I set off 39° 51' on the lat. arc; 4° 06' N. on the decl. arc: and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21

chains.	
	Thence 9 rem.
	N. 0° 03' W. bet. secs. 16 & 17.
	Over mountainous land draining south, through dense forest of cedar and pinon.
	Descend 45 ft. over land facing NE. to
3.80	Hollow, drains SE.
	Ascend.
15.75	Ridge, 200 ft. above hollow, brars NW and SE.
	Gradually descend.
21.00	Head of hollow, 50 ft deep, drains East.
	Ascend 125 ft. to
40.00	Set a sandstone, 18 x 10 x 5 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face: from which
	A pinon, 10 ins. diam., brars N. 89° E., 37 lks. dist., marked 1/4 S 16 BT.
	A pinon, 7 ins. diam., brars N. 8° W. 49 lks. dist., marked 1/4 S 17 BT.
48.00	Ridge, brars N. 30° E. and S. 30° W.
	Gradually descend over land facing nearly West.
65.00	Beg in gradual ascent
80.00	On ridge: brars N. & S. 5° E.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 8, 9, 16 & 17, marked on brass cap.
	T 11 S S 8 in NW., R 14 E S 9 in NE., S 16 in SE. and S 17 in SW. quadrant,
	from which

Subdivision of T. 11 S., R. 14 E.

Chains	
	A pinon, 13 ins. diam., bears N. 47¾° E., 179 lks. dist., marked T 11 S R 14 E S 9 B.T.
	A pinon, 14 ins. diam., bears S. 53° E., 44 lks. dist., marked T 11 S R 14 E S 16 B.T.
	A pinon, 7 ins. diam., bears S. 48¼° W., 77 lks. dist., marked T 11 S R 14 E S 17 B T
	A pinon, 18 ins. diam., bears N. 50½° W., 179 lks. dist., marked T 11 S R 14 E S 8 B.T.
	Land mountainous draining S. Soil, rocky and clay loam, with a hard clay and rocky sub-soil, 4th rate.
	Timber dense cedar and pinon. Land mountainous and heavily timbered 80.00 chs.
	Sept 13. At this sec. cor. I set off 4° 01½' N. on the decl. arc; and at 11h 56m a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 39° 52'
	S. 89° 57' E., on a random line bet. secs. 9 & 16.
40.00	Set temporary 1/4 sec. cor.
79.97	Intersect N. & S. line 2 lks. N. of the cor. of secs. 9, 10, 15 & 16. Thence I run N. 89° 56' W., on true line bet. secs. 9 & 16. Over mountainous land draining south, through forest of cedar and pinon and under-growth of chaparral. Ascend eastern face of ridge
5.00	Ridge, 75 ft. above sec. cor., bears

Chains

N. and S.
Descend
16.75 Hollow, 125 ft. deep, drains SE.
Ascend 100 ft. to
23.00 Ridge, bears N. and S.
Descend
31.20 Hollow, 200 ft. deep, drains S.
Ascend 125 ft. to
37.75 Ridge, bears N. & S.
Descend abruptly 50 ft. to
39.98 Set a sandstone 24 x 8 x 3 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which
A pinon, 7 ins. diam., bears N. 21 1/4° E., 1/2 lks. dist., marked
1/4 S 9 BT.
A pinon, 8 ins. diam., bears S. 13 1/4° E., 71 lks. dist., marked
1/4 S 16 BT.
Continue abrupt descent.
49.00 Wash in fork of Trail Canyon, 10 lks wide, 100 ft. below cor., course S.
Ascend 175 ft. to
63.00 Ridge, bears N. & S.
Descend
71.30 Hollow, 75 ft. deep, drains S.
Ascend 80 ft to

79.97 The cor. of secs. 8, 9, 16 & 17
Land, mountainous draining S.
Soil rocky with clay sub-soil 3rd rate.
Timber, cedar and pinon.
Undergrowth, chaparral.
Land mountainous heavily timbered or covered with dense undergrowth 79.97 chs.

Subdivision of T. 11 S., R. 14 E.

Chains.	
	September 13, 1911
	September 14: For solar observation see line bet. secs. 9 & 10
	From the cor. of secs. 8, 9, 16 & 17
	9 min
	N. 0° 03' W. bet. secs. 8 & 9.
	Over mount ainous land draining south, through dense forest of cedar and pinon.
	Begin steep ascent of south face of high divide
18.80	High divide between Duchesne valley and Nine mile, 450 ft. above sec. cor. and 1800 ft. above Argyle canyon, bears N. 70° E. and S. 70° W.
	Descend gradually
27.70	Hollow, 125 ft. deep, drains NE.
	Ascend 60 ft.
33.84	Intersect south boundary Uintah Indian reservation.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 8 and 9, marked on brass cap
	U. I. R. on N. half, and
	CC T 11 S R 14 E S 8 S 9 on S. half;
	from which
	A pinon, 8 ins. diam., bears S. 73½° E., 51 lks. dist., marked
	CC T 11 S R 14 E S 9 B T.
	A pinon, 12 ins. diam., bears S. 57° W. 41 lks. dist., marked
	CC T 11 S R 14 E S 8 B T.
	from this closing cor. the 45th mile cor. on the bdy. which is a sandstone 10 x 8 x 3 ins. above ground, firmly set and marked and

chains

witnessed as described by the Surveyor General, bears N. 87° 45' E., 16.54 chs. dist.
Land mountainous.
S. 18.80 chs. steep South slope of high divide.
Soil rocky and loose shale rock with a hard baked clay sub-soil of volcanic formation.
N. 15.54 chs. gentle north slope from divide.
Soil, sandy and gravelly with rich loam sub soil. 2nd rate.
Good grass for grazing.
Timber, dense cedar and pinon.
Undergrowth some Chaparral.
Land Mountainous, heavily timbered or covered with dense undergrowth 33.84 chs.
Sept 14: The sky is overcast at noon, observations for latitude impossible

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Sept 7: At 7h. 58m. a.m. l.m.t., I set off 39° 48½' on the lat. arc; 6°20' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 31 & 32 on the south bdy. of the tp. heretofore described.
Thence I run
N. 0° 03' W., bet. secs. 31 & 32.
Ascend abruptly over mountainous land facing south through dense forest of cedar, pinon and spruce and undergrowth of chaparral.
6.30 Sharp rocky ridge and divide between Nine Mile and Argyle

chains.	
	Canyons, 180 ft. above sec. cor., brs. N. 80° W. and S. 80° E. Parley Warrens house brs. N. 61° E.
	Descend abruptly over series of ledges into Argyle Canyon
37.00	Argyle creek and base of descent 20 lks. wide, 6 ins. deep, pure water, 775 ft. below ridge, course SE. leave timber. Thence over bottom land in Canyon.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 31 on W. half and S. 32 on E. half; 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.
42.00	On east side of Argyle creek, bank 10 ft. high, a wire fence extends N. 30° E.
45.20	Wagon road, brs. NW. & SE. Begin ascent from canyon over series of ledges.
76.00	Top of high ascent 875 ft. above canyon, brs. N. 20° W. and SE. Gradually ascend.
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 marked on brass cap. T 11 S S 30 in NW., R 14 E S 29 in NE., S 32 in SE., and S 31 in SW. quadrant., from which a pinon, 9 ins. diam., brs. N. 48½° E., 10½ lks. dist., marked.

Chains

T 11 S R 14 E S 29 BT
A pinon, 18 ins. diam., bears S. 29° E.,
54 lks. dist., marked
T 11 S R 14 E S 32 BT
A pinon, 16 ins. diam., bears S. 44¼° W.
68 lks. dist., marked
T 11 S R 14 E S 31 BT
A spruce, 8 ins. diam., bears N. 37¼° W
30 lks. dist., marked
T 11 S R 14 E S 30 BT.
Land mountainous forming walls of canyon draining SE.
Soil, rocks with rock sub soil 4th rate
Timber, cedar, pinon and spruce
Undergrowth chaparral.
Land mountainous, heavily timbered and covered with dense undergrowth 80.00 chs
September 7: At this sec. cor. I set off 6° 18' N. on the decl. arc: and at 11h 58m a.m. l.m.t., observe the sun on the meridian; the resulting lat is 39° 49'.

N. 89° 55' E., on a random line bet. secs. 29 and 32.
40.00 Set temporary ¼ sec. cor.
79.87 Intersect N. & S. line 21 lks. N. of the cor. of secs. 28, 29, 32 & 33
Thence I run
N. 89° 56' W., on true line bet. secs. 29 and 32.
Over mountainous land through forest of pinon, cedar and spruce.
Descend, abruptly into canyon.
8.40 Wash in canyon, 20 lks. wide, 180 ft. below sec. cor. course S.

Subdivision of T11 S R14 E.

chains	
	Ascend abruptly.
22.50	Ridge, 225 ft. above canyon, bears N. and S. 30°E.
	Descend abruptly 570 ft. to
39.93½	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor. marked on brass cap 1/4 S 29 on N. half and S 32 on S. half, from which
	A spruce, 20 ins. diam., bears N. 61¼°E. 51 lks. dist., marked 1/4 S 29 BT.
	A spruce, 16 ins. diam., bears S. 71°W 66 lks. dist., marked 1/4 S 32 BT.
	Continue to descend.
42.20	Hollow, 100 ft. below 1/4 cor. drains SW.
	Ascend abruptly.
45.50	Point of rocky spur, 75 ft. above hollow, projects SW.
	Descend.
48.75	Perpendicular sandstone ledge, 70 ft. high, bears NW. and S.
50.75	Base of spur and canyon bottom 100 ft. below top, bears NW + S.
56.00	Wash in canyon, 40 lks. wide course S.
	Thence up steep east side of canyon.
74.00	High ridge, 650 ft. above canyon bears N. + S.
	Gradually descend 35 ft to
79.87	The cor. of secs. 29, 30, 31 + 32.
	Land mountainous with exceptionally steep slopes of ridges, general drain south.
	Soil, loose shale rock with a hard baked clay subsoil, 4th rate

Chains	
	Timber, cedar, pinon and spruce. Some scattering chaparral undergrowth. Land, mountainous, heavily timbered or covered with dense undergrowth. 79.87 chs. September 7, 1911
	September 9: at 7h 58m a.m. l.m. t., I set off 34° 49½' on the lat. arc, 5° 37' N. on the decl. arc; and determine a mer. with the polar at the cor. of secs. 29, 30, 31 & 32 heretofore described. Thence I run S. 89° 55' W., on random line bet. secs. 30 and 31
40.00	Set temporary 1/4 sec. cor.
106.98	Intersect W. bdy. of the tp. 3 chs. S. of the cor. of secs. 25, 30, 31 and 36 heretofore described. Thence I run N. 89° 56' E., on true line bet. secs. 30 and 31. Over mountainous land through forest of cedar, pinon and spruce. Gradually ascend along north face of mountain across series of small ridges and hollows.
44.00	Spur, 250 ft. above sec. cor., projects N. Descend NE. slope 270 ft to
53.00	Base of mountain bears N. 70° W and S. Leave timber, thence across bottom land in argyle canyon and south end of cultivated field

Subdivision of T. 11 S., R. 14 E.

Chains	
66.50	Argyle creek, 20 lks wide, 6 ins. deep, pure water, course S. 35° E.
66.98	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 30 on N. half and S 31 on S. half; raise a mound of stone, 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable
67.25	Wagon road, bears N. 35° W. and S.
67.50	Leave canyon bottom, bears NW + S. Ascend abruptly over ledges.
71.50	Rocky spur, 100 ft. above creek, projects S. Descend abruptly over ledges
75.00	Base of spur, bears N. + S. Thence across canyon bottom.
75.50	Wash in canyon, 40 lks. wide, 100 ft. below spur, course S.
79.25	Wood road bears N. + S.
80.00	Enter dense cedar and pinon timber Begin steep ascent over land facing W.
97.00	Top of high ascent 500 ft. above canyon, bears NE. and SW. Gradually ascend.
106.98	The cor. of secs. 29, 30, 31 + 32. Land mountainous, draining S. with steep north, east and west slopes of high mountain ridges. Soil loose shale rock with hard clay and rock sub soil of volcanic formation 4th rate. Timber, cedar, pinon and spruce. Undergrowth some chaparral in canyon bottom. Land mountainous, heavily timbered or covered with dense undergrowth 106.98 chs

chains.

N. 0° 03' W. bet. secs. 29 & 30
Over mountainous land draining
south, through forest of cedar,
pinon and spruce.
Gradually ascend 40 ft. to
8.00 Ridge; bears NW. and SE.
Gradually descend gentle NE. slope.
23.00 Descend abruptly.
34.20 Wash in canyon, 40 lks. wide, 600
ft. below ridge, course S. 60° E.
Ascend abruptly over ledges 20
to 30 ft. high.
40.00 Point for 1/4 sec. cor. falls on
exceptionally steep slope of loose
shale rock where cor. cannot
be perpetuated
40.70 200 ft. above canyon.
Set an iron post, 3 ft. long, 1 in. in
dia., 26 ins. in the ground for 1/4
witness cor. to the 1/4 sec. cor.,
marked on brass cap
T 11 S R 14 E on N. half
S 29 on E. half
S 30 on W half with
W C 1/4 to the south, from which;
A pinon, 10 ins. diam., bears S. 78 1/2° E.
101 lks. dist., marked
W C 1/4 S 29 BT.
A pinon, 30 ins. diam., bears S. 89 1/4° W.,
13 lks. dist., marked
W C 1/4 S 30 BT.
Continue to ascend.
50.50 Spur, 200 ft. above cor., projects W.
Thence gradually descend over
land sloping NW.
68.00 Head of hollow, 75 ft below spur,
drains S. 80° W.
Gradually ascend 75 ft to
80.00 Set an iron post, 3 ft. long, 2 ins.

chains.

in dia., 24 ins. in the ground for cor. of secs. 19, 20, 29 and 30, marked on brass cap,

T 11 S S 19 in NW.,
R 14 E S 20 in NE.,
S 29 in SE. and
S 30 in SW. quadrant,

from which

A spruce, 12 ins. diam., bears N. 21¼° E. 57 lks. dist., marked
T 11 S R 14 E S 20 BT.

A pinon, 16 ins. diam., bears S. 56¼° E. 125 lks. dist., marked
T 11 S R 14 E S 29 BT.

A spruce, 7 ins. diam., bears S. 36½° W., 46 lks. dist., marked
T 11 S R 14 E S 30 BT.

A spruce, 7 ins. diam., bears N 43° W 159 lks. dist., marked
T 11 S R 14 E S 19 BT.

Land mountainous with steep slopes of ridges draining S.E.
Soil loose shale rock and rocky with a hard clay and rock subsoil of volcanic formation, 4th rate.
Timber, cedar, pinon and some spruce.
Undergrowth scattering chaparral.
Land mountainous, heavily timbered or covered with dense undergrowth
50.00 chs.

September 9: At this sec. cor., I set off 5°33' N. on the decl. arc; and at 11h 58m a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 39°50'.

S. 89° 56' E., on a random line bet. secs. 20 and 29.

chains.

40.00 Set temporary 1/4 sec. cor.
79.80 Intersect N. & S. line 7 lks. N. of the cor. of secs. 20, 21, 28 and 29.
Thence I run.
N. 89° 53' W., on true line, bet. secs. 20 & 29.
Gradually descend over rolling mountain top, through dense forest of cedar, pinon and spruce and some undergrowth of chaparral.
3.50 Cross north end of opening.
35.00 Edge of rolling mesa or mountain top, 100 ft. below sec. cor., bears NW & S.
Descend abruptly over rocky land.
39.90 Set a sandstone, 24 x 12 x 6 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which
A pinon, 9 ins. diam., bears N. 35½° W., 51 lks. dist., marked
1/4 S 20 BT.
A pinon, 12 ins. diam., bears S. 50° E. 71 lks. dist., marked
1/4 S 29 BT.
Continue abrupt descent.
54.00 Perpendicular sandstone ledge 70 ft. high, bears N. & S.
54.70 Wash in canyon, 40 lks. wide, 375 ft. below edge of mountain course, south.
Thence up steep ascent over series of small ledges
74.50 Top of 30 ft. ledge and flat ridge, 450 ft. above canyon, bears NW. and S. 35° E.
Thence across ridge
79.25 Ledge, 30 ft. high, bears NW & S.

chains	
	Descend abruptly from ridge 25 ft. to
79.80	The cor. of secs. 19, 20, 29 & 30. Land mountainous with general drain to the south and steep E. and West slopes of ridges. Soil rocky and light clay loam with a hard clay and rock sub soil, 11th rate. Timber, dense cedar, pinon and spruce. Undergrowth chaparral. Land, mountainous heavily timbered or covered with dense undergrowth 79.80 chs. September 9, 1911
	September 11; at 7h. 57m. a.m. l. m. t. I set off 39° 50½' on the lat. arc, 11° 52' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 19, 20, 29 & 30 heretofore described. Thence I run S. 89° 56' W., on a random line bet. secs. 19 & 30
40.00	Set temporary 1/4 sec. cor.
107.08	Intersect W. bdy. of the tp. 19 chs. S. of the cor. of secs. 19, 24, 25 and 30 heretofore described. Thence I run S. 89° 57' E., on true line bet. secs. 19 & 30. Over mountainous land through forest of cedar, pinon and spruce and undergrowth of chaparral. Descend abruptly into canyon

chains.	
10.80	Wash in canyon, 40 lks. wide, 200 ft. below sec. cor., course S. 20° E. Ascend abruptly over land facing West.
27.00	Top of 25 ft. ledge and edge of flat ridge, 475 ft. above canyon, bears N. and S. Thence across flat ridge sloping gently to the south.
46.00	East edge of ridge and top of 25 ft. ledge, bears N. & SE. Descend abruptly
57.50	Wash in hollow, 200 ft. deep, drains S. Ascend 125 ft. to
63.00	Ridge, bears NW. and SE. Descend abruptly 100 ft. to
67.08	On steep east slope of ridge Set a sandstone, 24 x 7 x 4 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which A spruce, 7 ins. diam., bears N. 60 1/4° E. 12 lks. dist., marked 1/4 S 19 BT A pinon, 8 ins. diam., bears S. 43 3/4° E. 32 lks. dist., marked 1/4 S 30 BT.
	Continue abrupt descent
73.60	Wash in canyon, 15 lks. wide 200 ft. below 1/4 sec. cor. course SE.
	Ascend abruptly
87.00	Spur, 125 ft. above canyon, projects S. Thence gradually descend over gradual SE. slope.
102.60	Hollow, 75 ft. deep, drains SW Ascend abruptly 100 ft. to

Subdivision of T. 11 S., R. 14 E.

chains	
107.08	The cor. of secs. 19, 20, 29 and 30. Land mount ainous, draining South. Soil, loose shale rock and rocky with a hard clay and rock sub-soil, 4th rate. Timber, dense cedar, pinon and spruce. Undergrowth, Chaparral. Land mount ainous heavily timbered or covered with dense undergrowth 107.08 chs. September 11: At this sec. cor., I set off 11° 47' N. on the decl. arc; and at 11h 57m a.m. l.m.t., observe the sun on the meridian; the resulting lat is 39° 50½'
	N. 0° 03' W., bet secs. 19 & 20 over mount ainous land draining south, through dense forest of cedar, pinon and spruce and undergrowth of chaparral. Ascend.
0.75	Ledge, 30 ft. high and top of flat ridge, bears NW. and SE. Gradually ascend.
6.50	Top of ascent bears NW. and SE. Descend abruptly into canyon over land facing nearly north.
17.50	Wash in canyon, 30 lks. wide 240 ft. below ridge, course SE. Ascend rocky land facing SW.
40.00	150 ft. above canyon. Set a sandstone, 24 x 8 x 7 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which A spruce, 15 ins. diam., bears N. 45° W.,

Chains

24 lks. dist., marked
1/4 S 19 BT
A pinon, 7 ins. diam., bears S. 22 3/4° E.
38 lks. dist., marked
1/4 S 20 BT
Continue to ascend
45.00 Ledge, 40 ft. high, bears W and SE
46.50 Spur, 150 ft. above 1/4 sec. cor.
projects West.
Descend abruptly 175 ft. to
66.50 Wash in canyon at bend from
NW to SW.
Ascend 150 ft. to
77.50 Top of ascent, bears E. and W.
Thence over west slope of ridge
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 + 20,
marked on brass cap
T 11 S S 18 in NW.,
R 14 E S 17 in NE.,
S 20 in SE. and
S 19 in SW. quadrant;
from which
A forked pinon, 11 ins. diam., bears
N. 21 1/4° E., 55 lks. dist., marked
T 11 S R 14 E S 17 BT
A forked pinon, 10 ins. diam., bears
S. 20 1/4° E. 84 lks. dist., marked
T 11 S R 14 E S 20 BT.
A pinon, 14 ins. diam., bears S. 41 1/4° W.,
70 lks. dist., marked
T 11 S R 14 E S 19 BT
A pinon, 12 ins. diam., bears N. 52 1/2° W
69 lks. dist., marked
T 11 S R 14 E S 18 BT.
Land mountainous with general
south drain and steep slopes
of ridges

Chains	
	Soil, loose shale rock and rocky with hard clay and rock sub soil 4th rate.
	Timber, dense cedar, pinon and spruce.
	Undergrowth chaparral.
	Land mountainous, heavily timbered and covered with dense undergrowth 80.00 chs.
	September 11, 1911.
	Sept. 14. For. solar observation see line bet. secs. 9 & 10.
	S. 89° 53' E., on a random line bet. secs. 17 & 20
40.00	Set temporary 1/4 sec. cor.
79.78	Intersect N. & S. line 5 lks. S. of the cor. of secs. 16, 17, 20 and 21.
	Thence I run.
	N. 89° 55' W., on true line bet. secs. 17 & 20.
	Over mountainous land through dense forest of cedar, pinon and spruce and undergrowth of chaparral.
	Ascend abruptly 100 ft. to
5.00	Ridge, bears NW and SE.
	Descend
18.40	Hollow, 100 ft. deep, drains SW.
	Ascend 75 ft. to
26.00	Spur, projects South.
	Descend
28.00	Ledge, 50 ft. high, bears NW & S.
29.40	Wash in canyon, 30 lks. wide, 80 ft. below spur, course S.
	Thence ascend over land facing East.
32.00	Perpendicular sandstone ledge, 60 ft. high, bears N. and S.

Subdivision of T. 11 S. R. 14 E.

chains	
39.89	100 ft. above wash. Set a limestone 18 x 8 x 4 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, from which A pinon, 16 ins. diam., bears N. 64° W 29 lks. dist., marked 1/4 S 17 BT A forked pinon, 18 ins. diam., bears S. 37 3/4° E., 33 lks. dist, marked 1/4 S 20 BT. Continue to ascend
49.00	Ridge, 75 ft. above 1/4 sec. cor., bears N. & S. Descend
58.70	Wash in hollow, 20 lks. wide, 100 ft. below ridge, course S. Ascend 175 ft. over land facing east to
70.00	Ridge bears N 30° W & S. Descend 100 ft. to
79.78	The cor. of secs. 17, 18, 19 & 20 Land mountainous with general south drain. Soil, rocky with rocky and gravelly sub soil, 4th rates. Timber, cedar, pinon and spruce Undergrowth, chaparral. Land mountainous, heavily timbered or covered with dense undergrowth 79.78 chs. September 14, 1911

September 19: At 7h 54m a.m. l.m.t. I set off 39° 51' on the lat. arc. 1° 47 1/2' N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 & 20.

Subdivision of T. 11 S., R. 14 E.

Chains	
	Thence Drum
	N. 89° 57' W., on a random line
	bet. secs. 18 & 19
40.00	Set temporary 1/4 sec. cor.
106.86	Intersect W. bdy. of the tp. 9 lks.
	N. of the cor. of secs. 13, 18, 19 & 24
	heretofore described
	Thence Drum
	N. 89° 59' E., on a true line bet. secs.
	18 & 19.
	Over mount amous land through
	dense forest of cedar and pinon,
	and undergrowth of sage and
	chaparral.
	Ascend steep rocky land facing
	west.
8.25	Ridge, bears N. & S.
	Descend 100 ft. to
20.10	Wash in hollow, 15 lks. wide,
	course SE.
	Gradually ascend 90 ft. to
38.00	Top of ascent and flat ridge,
	bears N. & S.
	Thence across ridge.
52.80	Leave ridge, bears N. and S.
	Descend gradually east slope 100
	feet to
62.20	Wash in canyon, 15 lks. wide
	course S.
	Ascend.
66.86	Set a sandstone 18 x 18 x 3 ins.,
	12 ins. in the ground for 1/4
	sec. cor., marked 1/4 on N. face;
	from which
	A pinon, 9 ins. diam., bears N. 5½° E.,
	53 lks. dist., marked
	1/4 S 18 BT
	A pinon, 16 ins. diam., bears S. 24¼° E.
	88 lks. dist., marked

Chains	
	1/4 S 19 BT
70.25	Spur, 65 ft. high projects S.
	Descend 60 ft. to
75.50	Wash in hollow, 10 lks. wide, course S.
	Ascend abruptly
85.00	Ridge, 150 ft. above hollow, bears N. & S.
	Descend abruptly 175 ft. to
102.50	Wash in canyon, 30 lks. wide, course south.
	Note. Alkali seeps in canyon wash about 6 chs. south.
	Ascend abruptly 100 ft. to
106.86	The cor. of secs. 17, 18, 19 & 20
	Land mountainous with general south drain
	Soil, rocky, light clay loam and gravelly with a clay sub soil, 3rd and 4th rates.
	Timber, dense cedar & pinon
	Undergrowth, sage and chaparral
	Some good grass for grazing
	Land mountainous heavily timbered or covered with dense undergrowth 106.86 chs.
	September 15: At 6h 56m a.m. l.m.t. I set off 39° 51' on the lat. arc, 3° 20' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20 [illegible]
	Thence I run
	N. 0° 03' W., bet. secs. 17 & 18
	Over mountainous land through forest of cedar, pinon and spruce, and dense undergrowth of sage and chaparral

Chains.	
	Gradually descend along western slope of ridge.
9.80	Wash in canyon, 15 lks. wide, 75 ft. below sec. cor., course S. 15° W. Ascend 40 ft to
14.00	Spur, projects E. 2 chains. Descend 35 ft to
17.40	Same wash in canyon, course E. Ascend abruptly over land facing nearly south.
32.00	Top of ridge, 200 ft. above canyon bears N. and S. 30° E. Thence on top of ridge near east edge.
40.00	Set a limestone, 24 x 9 x 4 ins., 18 ins. in the ground for 1/4 sec. cor., mkd 1/4 on W face; from which A pinon, 8 ins. diam., bears S. 71 1/4° E., 118 lks. dist., marked 1/4 S 17 BT. A pinon, 7 ins. diam., bears S. 33 1/2° W. 24 lks. dist., marked 1/4 S 18 BT.
41.00	Ridge turns N. 30° E. Descend
60.00	Hollow, 175 ft. deep drains SW. Ascend abruptly.
70.00	Ridge, 210 ft. above hollow, bears NW and SE. Descend 80 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in a mound of earth and stone 4 ft. base, 2 ft. high for cor. of secs. 7, 8, 17, and 18, marked on brass cap T 11 S S 7 in NW., R 14 E S 8 in NE., S 17 in SE. and

Subdivision of T. 11 S R 14 E.

chains

S 18 in SW. quadrant,
from which
A spruce, 32 ins. diam., bears N. 48¾° E.
65 lks. dist., marked
T 11 S R 14 E S 8 BT
A pinon, 8 ins. diam., bears S. 55½° E.
33 lks. dist., marked
T 11 S R 14 E S 17 BT
A pinon, 10 ins. diam., bears S. 21½° W.,
76 lks. dist., marked
T 11 S R 14 E S 18 BT
A pinon, 10 ins. diam., bears N. 50° W.,
57 lks. dist., marked
T 11 S R 14 E S 7 BT.
Note: on account of natural obstacles I am unable to set post in ground.
Land mountainous, draining south.
Soil rocky and clay loam, with rocky and gravelly sub soil 3rd rate.
Timber, dense cedar, pinon and spruce.
Undergrowth, dense sage and chaparral.
Some good grass for grazing purposes.
Land mountainous, heavily timbered and covered with dense undergrowth 80.00 chs.

S. 89° 55' E., on a random line bet. secs. 8 & 17.
40.00 Set temporary 1/4 sec. cor.
79.65 Intersect the cor. of secs. 8, 9 16 & 17.
Thence I run
N. 89° 55' W., on true line bet. secs.

Chains	
	8 and 17.
	Over mountainous land through dense forest of cedar, and pinon, and undergrowth of chaparral.
	Descend 40 ft. to
7.40	Hollow, drains S. 30° W.
	Thence ascend over land facing south across series of small ridges and spurs.
12.00	Spur, 100 ft. above hollow, projects S. 30° W.
	Descend abruptly
27.50	Hollow, 100 ft. deep, drains SW
	Ascend 25 ft. to
28.50	On top of south point of spur.
	Descend.
31.10	Hollow, 40 ft deep, drains S.
	Thence up steep land facing E.
39.00	Ridge, 175 ft. above canyon, bears N. and S.
	Descend 15 ft. to
39.82½	Set a quartzite stone 24 x 8 x 3 ins., 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face: from which
	A pinon, 10 ins. diam., bears N. 5½° E. 93 lks. dist., marked 1/4 S 8 BT
	A pinon, 12 ins. diam., bears S. 20° E., 83 lks. dist., marked 1/4 S 17 BT.
	Sept. 15: At this 1/4 sec. cor. I set off 3° 15½' N. on the decl. arc; and at 11h. 56m. a. m. l. m. t., observe the sun on the mer, the resulting lat. is 39° 52'
53.20	Hollow, 125 ft. deep drains SW.
	Thence across south point of low spur.

Chains

34.50 Hollow, drains SE.
Ascend abruptly.
61.50 Top of flat ridge, 200 ft. above hollow, bears N & S.
Descend.
79.65 175 ft. below ridge.
The cor. of secs. 7, 8, 17 and 18.
Land mountainous draining S.
Soil rocky with clay and rock sub soil. 4th rate
Timber, dense cedar and pinon
Undergrowth chaparral.
Land mountainous, heavily timbered and covered with dense undergrowth 79.65 chs

September 19: At this sec. cor. I set off 1° 43' N. on the decl. arc; and at 11h 54m a. m. l. m. t., observe the sun on the mer: the resulting lat. is 39° 52'.
S. 89° 59' W., on a random line bet. secs. 7 and 18.
110.00 Set temporary 1/4 sec. cor.
September 19, 1911.
September 20: At 8h 54m a. m. l. m. t. I set off 39° 52' on the lat. arc 1° 22' N. on the decl. arc; and determine a meridian with the solar at this temporary 1/4 cor.
Thence I continue
S 89° 59' W.
106.18 Intersect W. bdy. of the tp. 7 chs N. of the cor. of secs 7, 12, 13 & 18 heretofore described
Thence I run
N. 89° 56' E., on true line bet. secs 7 and 18

chains.	
	Over mountainous land through forest of cedar and pinon and undergrowth of chaparral.
	Descend
9.50	Hollow, 75 ft. deep, drains S.
	Ascend 200 ft. to
38.00	Ridge, bears N. & S.
	Descend abruptly 250 ft over land facing E. to
48.60	Wash in canyon, 15 lks. wide, course S. 35° E.
	Ascend 175 ft. to
61.50	Ridge, bears N. & S.
	Descend abruptly 75 ft. to
66.78	Set a sandstone 24 x 12 x 3 ins, 18 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which
	A pinon, 10 ins diam., bears S. 24½° E 31 lks. dist., marked 1/4 S 18 B.T.
	A pinon, 10 ins. diam., bears N. 11½° E, 75 lks. dist., marked 1/4 S 7 B.T.
	Descend 75 ft. to
69.80	Hollow, drains S.E.
	Ascend 50 ft. to
71.25	Spur, projects S.
	Descend 75 ft. to
73.50	Hollow, drains S.
	Ascend 175 ft. to
83.25	Ridge, bears N. & S
	Descend abruptly 300 ft. over land facing E. to
97.50	Hollow, drains S.
	Ascend abruptly 70 ft to
100.75	Spur, projects S.
	Descend 50 ft to
102.40	Hollow, drains SW

Chains.	
	Ascend abruptly 100 ft. to
106.78	The cor. of secs. 7, 8, 17 + 18
	Land, mountainous draining S
	Soil, rocky of volcanic formation with a hard clay subsoil.
	Timber, cedar and pinon
	Undergrowth, chaparral
	Land mountainous heavily timbered and covered with dense undergrowth 106.78 chs.
	11:00 AM.
	September 20, 1911.
	September 15: 7 ov. solar observation sec line bet. secs 17 + 18.
	N. 0° 03' W., bet. secs. 7 + 8.
	Over mountainous land, through dense forest of cedar and pinon and undergrowth of chaparral.
	Descend abruptly 35 ft. to
1.50	Hollow, drains S. 60° W.
	Ascend 125 ft. to
10.50	Spur, projects SW.
	Descend gradually.
13.00	Hollow, 30 ft. deep, drains SW.
	Thence gradually ascend over series of spurs and gulches
28.50	Spur, 130 ft. above hollow, projects SW.
	Descend abruptly 50 ft. to
30.76	Intersect south boundary Uintah Indian Reservation.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 7 and 8, marked on brass cap

Subdivision of T. 11 S., R. 14 E.

Chains

M. 9. R. on N. half
CC T 11 S R 14 E S 7 S 8 in S.
half, from which:
A pinon, 14 ins. diam., bears S. 56½° E.
20 lks. dist., marked
T 11 S R 14 E S 8 B T
A pinon, 16 ins. diam., bears S. 23¼° W.
37 lks. dist., marked
T 11 S R 14 E S 7 B T.
From this closing corner the
46th mile cor. on the bdy,
which is a sandstone 14 x 7 x 5
ins. above ground, firmly set,
and marked and witnessed
as described by the surveyor.
General bears N. 87° 45' E., 16.03
chs. distant.
Land mountainous draining
south.
Soil rocky with rocky sub soil
4th rate
Timber, cedar and pinon.
Undergrowth, chaparral.
Land mountainous, heavily
timbered and covered with
dense undergrowth 30.76 chs.
Sept. 15. 1911

General Description

This township contains chiefly mountainous land with some level land in the bottom of Nine Mile and Argyle Canyons. The soil of the bottom lands is generally a rich sandy loam with a deep sand sub soil, 1st rate while that of the remaining part is rocky with a hard clay sub soil of volcanic formation and can be classed as 4th rate.

Dense forests of cedar, pinon and spruce, predominate upon the entire township and some of the spruce trees are very large while the cedar & pinon are scrubby and of no commercial value.

The natural drain of this tp. is to the south as the high divide or summit of the Anthon mountainous forms its boundary and is watered by Nine Mile and Argyle creeks which flow through the southern part of the tp in a eastern direction. The water of Argyle creek is pure and clear while that of Nine mile creek is muddy and contains alkali. Several other small alkali seeps are scattered through the tp. I found no trace of mineral in this tp.

Kate Eagans ranch which is situated in secs. 35 & 36 contains about 50 acres, now under cultivation. This land produces abundant crops of hay, grain and potatoes. The improvements on this place amount to about $1000.00

General Description

Frank Algers ranch in secs. 34 + 35 contains about 60 acres under cultivation which produces abundant crops of hay + grain and other garden vegetables. Mr Algers merchandise store which supplies the neighboring vicinity is also situated on the ranch. The value of these improvements amount to approximately $1800.00

E. L. Harmons ranch in sec. 34 Contains about 50 acres of good Cultivated ground and is producing crops of hay, grain, and potatoes. A young orchard is also under Cultivation. The value of Mr Harmons improvements amount to approximately $2000.00.

A district school house and other small houses which are occupied during the winter months by settlers while sending children to school is situated in sec. 34.

Bert Seabolts place, now under possession of Mr. Lee in sec. 34 contains about 10 acres of land, under cultivation and producing a crop of grain.

Parley Warrens place in sec. 32 + 33 Contains about 60 acres under cultivation and producing crops of hay and grain. The value of his improvements amount to about $1200.00

A ranch situated in sec. 30; the owner of which I am unable to learn, contains about 80 acres of agricultural land and about 50 of which is under plow, 30 of which is now used as a

General Description

pasture.
The value of the improvements amount to about $600.
It will be noted that all the cultivated land is irrigated the water being used from Nine Mile and Argyle Creeks.

Howard W Miller
U. S. Transitman.

BOOK A-391

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 .....

For certificate of assistants see book "G" T.24 S., R.16 E.

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

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

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

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

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, 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 Transitman see book "G" T.24 S., R.16 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

_____

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 14, 191 4.

The foregoing field notes of the survey of West Boundary; resurvey of the South and East Bdrs.; and retracement of the Second Standard Parallel South and retracement of part of the South Boundary of the Uintah Indian Reservation, Township No.11 South, Range No.14 East of the Salt Lake Base and Meridian, Utah

_____

_____

executed by Howard F. Miller under his special instructions dated March 27, 1911, and supplemental special instruction dated July 28, 19 , 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.