Volume

#

R0386

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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*....

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INDEX DIAGRAM.

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

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Township 33 South, Range 11 West

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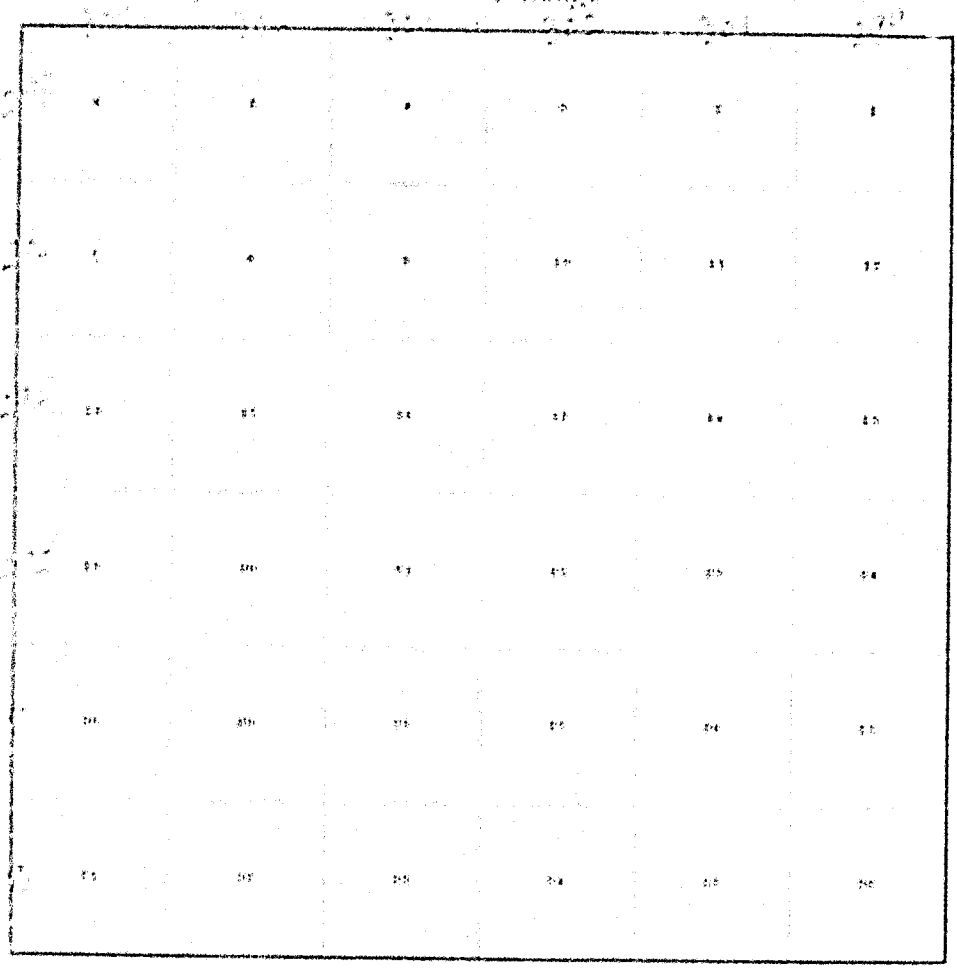
INDEX DIAGRAM.

Township [illegible], *Range* [illegible]



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

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

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

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

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Township 31 South, Range 11 West

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481		480		463		451		440		427	
18	478	17	461	16	450	15	438	14	426	13	
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FIELD NOTES

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

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

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Township 31 South, Range 9 West

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7	8	9	10	11	12
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FIELD NOTES

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

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

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

Ex.
AKG.

Filed Mar. 15, 1912.
WSH.

4—679

BOOK A-386

X

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENTS

NORTH, SOUTH, AND WEST BOUNDARIES

AND

RETRACEMENT AND SURVEY OF

SUBDIVISION

OF

TOWNSHIP NO. 34 SOUTH, RANGE NO. 10 WEST

Of the SALT LAKE BASE AND *Meridian,*

n the State of UTAH

EXECUTED BY

JOHN R. STEWART AND QUINBY STEWART

the capacity of U. S. Transitmen ~~*Surveyor*~~, *under instructions dated* Aug. 6, *191*0,

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

roup No. 1, *which were approved by the Commissioner of the General Land*

fice, Aug. 25, *191*0, *pursuant to authority contained in the Act of*

ngress dated , *191*

Survey commenced December 18, *191*0.

Survey completed April 5, *191*1.

16°10'E

Rte N.S. & W. Bdys - 11-01-95
Rte Subs 12-05-53
Subs - 36-11-80

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Lakeways 26.10

NAMES AND DUTIES OF ASSISTANTS.

For 1911:

Isaac R.Hayes	Chainman.
J.Clarence Clark	Chainman.
Edgar S.Hurst	Moundman.
Hugh Hurst	Axman.
Maeser Dally	Chainman.
Harvey W.Elliott	Chainman.
Milo Nelson	Moundman.
Kenneth Clark	Axman.

For 1910:

R.Bert Carter,	Chainman.
Verne O.Nelson	Chainman.
Isaac R.Hayes	Moundman.
Ruban W.Riley,	Axman.
Maeser Dalley,	Chainman.
Harvey W.Elliott,	Chainman.
Alton Ivie,	Moundman.
Milo Nelson,	Axman.

For preliminary affidavits 1910 assistants, see book "L" T 31 S., R. 7 W.

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INDEX DIAGRAM.

Township ....., *Range* .....

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18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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INDEX DIAGRAM.

Township 34 South, *Range* 10 West

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29 7 70 69	8 61 68	9 46 60	10 36 45	11 11 32 12	12
27 18 67 66	17 59 65	16 44 58	15 33 42	14 13 14	13
26 19 64 25	20 37 56	21 40 55	22 15 39 16	23	24
30 24	29 34 53	28 40 52	27 17 18	26	25
31 23	32 50 21	33 19 20	34	35	36

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BOOK A-386

PRELIMINARY OATHS OF ASSISTANTS.

WE, Isaac R.Hayes and J.Clarence Clark do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Sub.and retracements Tp.34 S.,R.10 W.,Tp.33 S.,R.11 W.;Sub.T.31 S.R.10W. Tps.31 and 32 S.,R.11 W.,and Sub.T.31 S.,R.9 W.S.L.B.& M.,Utah.

Isaac R. Hayes, *Chainman.*

J. Clarence Clark, *Chainman.*

Subscribed and sworn to before me this 31st day of March, 19 11.

SEAL

John R Stewart
U.S.Transitman

~~WE,~~ I Edgar S.Hurst ~~and~~ do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of Sub.and Retracements Tp.34 S.,R.10 W.,Tp.33 S.,R.11 W.;Sub.T.31S.R.10W.; Tps.31 and 32 S.,R11 W.,and Sub.T.31 S.,R.9 W.,S.L.B.& M.,Utah.

Edgar S. Hurst, ~~*Moundman.*~~

, *Moundman.*

Subscribed and sworn to before me this 31st day of March, 19 11.

SEAL

John R Stewart
U.S.Transitman

~~WE,~~ I Hugh Hurst ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me to the best of ~~our~~ my skill and ability, in the survey of Sub.and Retracements Tp.34 S.,R.10 W.,and Tp.33 S.,R.11 W.;Sub.T.31S.R. 10W.;Tps.31 and 32 S.,R.11 W.,and Sub. T.31 S.,R.9 W.S.L.B.& M.,Utah.

Hugh Hurst, *Axman.*

, *Axman.*

Subscribed and sworn to before me this 31st day of March, 19 11.

SEAL

John R Stewart
U.S.Transitman

I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, *Flagman.*

Subscribed and sworn to before me this day of , 19

SEAL

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INDEX DIAGRAM.

Township 31 SOUTH, Range No 10 WEST

17 25 6	16 100 5	14 80 4	13 66 3	12 53 2	10 40 1	9
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95 22 18	93 92 17	76 75 16	63 62 15	50 48 14	37 36 13	6
91 21 19	90 88 20	73 72 21	61 59 22	47 46 23	34 31 24	5
87 20 30	85 84 29	71 70 28	58 57 27	45 44 26	30 29 25	4
83 19 31	82 81 32	68 67 33	56 54 34	42 41 35	28 27 36	2

Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Maeser Dalley and Harvey W. Elliott do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivisional lines of T.34 S., R.10 W.; T.33 S., R.10 W.; T.32 S. R.10 W.; T.31 S., R.10 W.; and T.31 S. R.9 W.S.L.B.& M., Utah.

Maeser Dalley, *Chainman.*

Harvey W. Elliott, *Chainman.*

Subscribed and sworn to before me this 30 day of March, 19 11.

Quimby Stewart
U.S. Transitman

SEAL

~~WE~~, I, Milo Nelson and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the subdivisional lines of T.34 S.R.10 W.; T.33 S.R.10 W.; T.32 S.R. 10 W.; T.31 S.R.10 W.; and T.31 S.R.9 W.S.L.B.& M.Utah.

Milo Nelson, *Moundman.*

, *Moundman.*

Subscribed and sworn to before me this 30 day of Marbh, 19 11

Quimby Stewart
U.S. Transitman

SEAL

~~WE~~, I, Kenneth Clark and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me to the best of ~~our~~ my skill and ability, in the survey of the subdivisional lines of T.34 S.R.10 W.; T.33 S.R.10 W.; T.32 S.R. 10 W.; T.31 S., R.10 W.; and T.31 S., R.9 W.S.L.B.& M., Utah.

Kenneth Clark, *Axman.*

, *Axman.*

Subscribed and sworn to before me this 30 day of March, 1911

Quimby Stewart
U.S. Transitman

SEAL

I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, *Flagman.*

Subscribed and sworn to before me this day of , 19

SEAL

6—151

Retracement N.bdy.T.34 S.,R.10 W.

Survey commenced December 18,1910,and executed with a W.and L.E.Curley Explorer's transit,No.957,with solar attachment.The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct,and was approved by the Surveyor general for Utah,on August 6,1910.

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

At the cor.of secs. 1,2,35,and 36,on N.bdy.of Tp.,latitude 37°48'37"N.,longitude 112°54'W., I set off 37°49'N.,on the lat.arc;23° 22'S.,on the decl.arc;and at 2 h 56 m p.m.,l.m.t.,I determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.

December 18.1910.

December 19,1910:At 1 h 36.5 m a.m.,l.m.t.,I observe Polaris at western elongation in accordance with the Manual and mark the line thus determined by cross on a wooden plug set in the ground,5.00 chs.N.of the cor.

At7 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°29'to theeast and mark the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N.of the cor.;this mark falls 0.38 ins.east of the meridia. determined by the solar.

At 7 h 57 m a.m.,l.m.t.,I set off 37°49'N.,on the lat.arc; 23°21'S.,on the decl.arc;and mark the meridian determined with the solar by a cross on the stone already set 5.00

Chains

W.of the cor.;this mark falls 0.35 ins.east of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'28"west and 0'18"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetice bearing of the meridian at 8 h 30 m a.m., in N.16°14'W.,the angle thus determined gives the mag. decl.16°14'E.

The cor.of secs.1,2,35,and 36,on N.bdy.of Tp.34 S.,R.10 W.,is a sandstone,10x12x9 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

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

T 33 S S 35 in NW.

R 10 W S 36 in NE.

R 10 W S 1 in SE.;and

T 34 S S 2 in SW.quadrants;and dig pits,18x18x12 in in each sec.5½ ft.dist.;and raise a mound of earth, 4 ft.base,2 ft.high,W.of cor. ✓

Thence I run

West,on a retracement line along N.bdy.of Tp.,bet.secs. 2 and 35.

Over mountainous land;through dense sage brush.

Asc.

12.75 Asc.more abruptly.,bears N.and S.

15.00 Enter heavy timber,bears N.and S.

20.0 Top of spur,90 ft.above sec.cor.,bears N.30°W.and S.30°E.

Desc.

24.00 Bottom of hollow,60 ft .below spur,course S.75°E.

Asc.

Retracement N.bdy.T.34 S.,R.10 W.-Continued.

Chains	
40.00	Intersect the ¼ sec.cor.bet.secs.2 and 35,which is a sandstone,10x9x8 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows: Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground, for ¼ sec.cor..mkd.on brass cap ¼ S 35 in N half;and S 2 in S half;from which A pinon pine,6 ins.dia.,bears N.38°E.,29 lks. dist..mkd.¼ S 35 B T. A cedar,14 ins.dia.,bears S.60°W.,20 lks. dist..mkd.¼ S 2 B T.
48.60	Top of ridge,400 ft.above hollow,bears N.25°E.and SW. Desc.
63.40	Bottom of hollow,250 ft.below ridge,course N.30°E. Asc.
77.00	Top of ridge,350 ft.above hollow,bears N.20°E.and SW. Desc.
80.00	Intersect the cor.of secs.2,3,34,and 35,which is a sandstone,12x10x9 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general,. I destroy the old cor.and re-establish it in the same place as follows: Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.2,3,34,and 35,mkd.on brass cap T 33 S S 34 in NW. R 10 W S 35 in NE. R 10 W S 2 in SE.;and T 34 S S 3 in SW.quadrants;from which A cedar,10 ins.dia.,bears N.34°E.,39 lks. dist..mkd.T 33 S R 10 W S 35 B T. A pinon pine,16 ins.dia.,bears S.69°E.,128 lks. dist..mkd.T 34 S R 10 W S 2 B T. A pinon pine,12 ins.dia.,bears S.67°W.,143 lks. dist..mkd.T 34 S R 10 W S 3 B T.

Retracement N.bdy.T.34 S.,R.10 W.-Continued.

Chains	
	A cedar,10 ins.dia.,bears N.60°W.,76 lks. dist..mkd.T 33 S R 10 W S 34 B T.
	The course of this line is therefore West,80.00 chs.
	Land,mountainous .General slope eastward.
	Soil,sandy loam mixed with gravel.subsoil,gravel and sandstone.soil,from 1 to 3 ft.deep,2nd rate.
	Timber,cedar and pinon pine on west 65.00 chs.
	Undergrowth,sage brush on entire mile.
	Good grass for grazing on north slopes.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	December 19,1910:At the noon hour the sky is overcast and solar observations are impossible.
	West,on a ratracement line bet.secs .3 and 34.
	Over mountainous land;through heavy timber and scattering sage brush.
	Desc.
32.20	Bottom of hollow,400 ft.below sec.cor.,course N.80°W.
	Asc.
35.70	Top of spur,70 ft.above hollow,bears NW and SE.
	Desc.
39.12	Fall 5 lks.S.of the ¼ sec.cor.bet.secs.3 and 34,which is sandstone,11x8x8 ins.above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd. on brass cap ¼ S 34 in N half; and S 3 in S.half;from which
	A pinon pine,13 ins.dia.;bears S.52°W.,158 lks. dist..mkd.¼ S 3 B T.
	A cedar,14 ins.dia.;bears N.70°W.,70 lks. dist..mkd.¼ S 34 B T.
52.30	Bottom of hollow,200 ft.below ridge,course N.

Retracement N.bdy.T.34 S.,R.10 W.-Continued.

Chains	
55.90	Top of ridge,50 ft.above hollow,bears N.10°W.and S.10°E. Desc.
58.40	Bottom of hollow,75 ft.below ridge,course N.25°W. Asc.
65.00	Top of ridge,50 ft.above hollow,bears N.30°W.and S.30°E. Desc.
77.32	Fall 9 lks.S.of the cor.of secs.3,4,33,and 34,which is a sandstone,11x10x5 ins.above ground,firmly set,and mkd. and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows: Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.3,4,33,and 34,mkd.on brass cap T 33 S R 33 in NW. R 10 W S 34 in NE. R 10 W S 3 in SE.;and T 34 S R 4 in SW.quadrants;from which A pinon pine,12 ins.dia.,bears N.11°E.,106 lks. dist..mkd.T 33 S R 10 W S 34 B T. A pinon pine,14 ins.dia.,bears S.34°E.,38 lks. dist..mkd.T 34 S R 10 W S 3 B T. A pinon pine,10 ins.dia.,bears S.1°W.,10 lks. dist..mkd.T 34 S R 10 W S 4 B T. A pinon pine,5 ins.dia.,bears N.81°W.,74 lks. dist..mkd.T 33 S R 10 W S 33 B T. The course of this mile is therefore N.89°56'W.,77.32 chs. Land,mountainous .drainage northwesterly.steep slopes. Soil,clay and sandy loam about 2 ft.deep,subsoil,clay and conglomerate rock and some sandstone. Timber,cedar and pinon pine,heavy on entire mile. Undergrowth,sage brush. Good grass for grazing. Mountainous or heavily timber[illegible] and,77.32 chs. December 19,1910.

Retracement N.bdy.T.34 S.,R.10 W.-Continued.

Chains	
	December 20,1910:At 8 h 57 m a.m.,l.m.t.,I set off 37°54' N.,on the lat.arc;23°24'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.3,4,33,and 34.
	Thence I run
	West,on a retracement line bet.secs.4 and 33.
	Over mountainous land;through scattering timber and dense sage brush.
	Asc.
4.00	Bottom of hollow,20 ft.below cor.,course NW.
	Asc.
9.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
18.30	Wood road,bears N.and S.
	Leave timber,bears N.and S.
19.00	Bottom of hollow,100 ft.below ridge,course N.
	Desc.
25.00	Foot of steep descent, bears N.and S.
	Enter bottom of broad hollow.
	Desc.gradually.
39.70	Fall 46 lks. S.of the ¼ sec.cor.bet.secs.4 and 33,which is sandstone,9x7x6 ins.,above ground,loosely set,and mkd. and witnessed as described by the surveyor general.
	I destroy the old cor.and restablish it in the same place as follows:
	Set an iron post,3 ft.long,1½ ins.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap S 33 in N half and S 4 in S half;and raise a mound of stond,2 ft.base, 1½ ft.high,N.of cor.
50.00	Bottom of hollow,course N.
	Asc.gradually in hollow.
74.00	Enter scattering timber,bears N.and S.
79.00	Fall 92 lks.S.of the cor.of secs.4,5,32,and 33,which is a sandstone,14x11x9 ins.,above ground,loosely set,and mkd.and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows.

Chains Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.4,5,32,and 33,mkd.on brass cap

T 33 S S 32 in NW.

R 10 W S 33 in NE.

R 10 W S 4 in SE.;and

T 34 S S 5 in SW.quadrants;From which

A pinon pine,8 ins.dia.,bears N.36°E.,110 lks. dist..mkd.T 33 S R 10 W S 33 B T.

A cedar,6 ins.dia.,bears S.33°40'E.,55 lks. dist..mkd.T 34 S R 10 W S 4 B T.

A cedar,6 ins.dia.,bears S.45°W.,135 lks. dist..mkd.T 34 S R 10 W S 5 B T.

A cedar,36 ins.dia.,bears N.10°W.,65 lks. dist..mkd.T 33 S R 10 W S 32 B T.

The course of this mile is therefore N.89°20'W. 79.00 chs.

Land,mountainous .

Soil,sandy and gravelly loam;2nd rate.about 18 ins.deep. underlaid by clay and sandstone.

Timber,cedar and pinon pine(scrubby.)

Undergrowth,sage brush,(tall).

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 79.00 chs.

West,on a retracement line bet.secs.5 and 32.

Over nearly level bottom of broad hollow;through scattering sage brush and dense cedar and pinon pine timber.

Asc.

.50 Begin abrupt ascent,bears NE and SW.

8.50 Top of ridge or reef,250 ft.above hollow,bears NE and SW.

Desc.abruptly over rock and ledges.

20.00 Bottom of hollow,200 ft below ridge or reef,course N.

Asc.

21.50 Top of spur,100 ft.above hollow,bears N.and S.

Desc.abruptly.

Retracement N.bdy.T.34 S.,R.10 W.-Continued.

Chains Leave timber,bears N.and S..

39.80 Foot of descent,250 ft.below spur,bears NE and SW.

Enter valley.

40.20 Fall 20 lks.S.of the ¼ sec.cor.bet.secs.5 and 32,which is a volcanic stone,11x8x8 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 32 in N half and S 5 in S half;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.

73.00 Road from Parowan to Rush Lake ,bears N.30°E.and S.30°W.

81.91 Fall 42 lks. S.of the cor.of secs.5,6,31,and 32,which is a volcanic stone,13x9x4 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs. 5,6,31,and 32,mkd.on brass cap

T 33 S S 31 in NW.

R 10 W S 32 in NE.

R 10 W S 5 in SE.;and

T 34 S S 6 in SW.quadrants;dig pits,18x18x12 ins. in each sec.5½ ft.d st.and raise a mound of earth,4 ft. base,2 ft.high,W.of cor.

The course of the east half of this mile is therefore N.89°43'W.,40.20 chs.;and the west half is N.89°42'W., 41.71 chs.

E.39.80 chs.over rough mountainous land covered with timber and undergrowth,with steep rugged slopes.soil about 1 ft.deep,sandy and gravelly.

W.42.11 chs.Over nearly level valley through dense sage brush.Soil,clay loam about 2 ft.deep,on hard clay subsoil.

Mountainous or heavily timbered land,or land covered with dense undergrowth,81.91 chs.

Retracement N.bdy.T.34 S.,R.10 W.-Continued.

Chains | Land, foothills. Soil, gravelly; 2nd rate. No timber. Undergrowth, sage and shadscales.

Dec.20,1910 :At the noon hour the sky is overcast and solar observations are impossible.

West,on a retracement line bet.secs.6 and 31.

Over nearly level valley;through dense undergrowth.

40.21 Fall 14 lks.S.of the ¼ sec.cor.bet.secs.6 and 31,which is a sandstone,10x10x5 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 31 in N half and S 6 in 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.

58.30 Wash,50 lks.wide,4 ft.deep,course S.25°W.,

58.60 Road from Cedar City to Milford,bears N.25°E.and S.25°W.

61.10 Wash,30 lks.wide,10 ft.deep,course S.25°W.

80.55 Fall 28 lks.S.of the cor.of Tps.33 and 34 S.,Rs.10 and 11 W.,which is a granite stone,14x16x12 ins.,above ground, firmly set,and mkd.and witnessed as described by the surveyor general.

This cor.is on fence line running N.and S.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of Tps.33 and 34 S.,Rs.10 and 11 W.mkd. on brass cap

T 33 S in N half.

T 34 S in S half.

R 11 W S 36 in NW.

R 10 W S 31 in NE.

R 10 W S 6 in SE.;and

R 11 W S 1 in SW.quadrants;and dig pits,24x24x12

Retracement N.bdy.T.34 S.,R.10W

Chains

on each line N.,E.,and W.,4 ft.,and S.of post,8 ft.dist. and raise a mound of earth,5 ft.base,2½ ft.high,S.of cor.

The course of this mile is therefore N.89°48'W.,80.55 chs.

Land,nearly level valley.

Soil,clay loam about 2 ft.deep,on hard clay subsoil.

No timber.

Undergrowth,sage brush and shadscales.

Good grass for grazing.

Land covered with dense undergrowth,80.55 chs.

December 20,1910.

Retracement Sub:T.34 S.,R.10 W.

December 22,1910:At 8 h 58 m a.m.,l.m.t.,I set off 37°54' N.,on the lat.arc;23°25'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.1,2,35,and 36,on N.bdy.of Tp.,heretofore described.

Thence I run

South,on a retreacement line bet.secs.1 and 2.

Over rolling foot hills;through dense sage brush and shadscales.

40.16 Fall 9 lks.W.of the ¼ sec.cor.bet.secs.1 and 2 ,which is a sandstone,13x12x7 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:

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

80.40 Fall 19 lks.West of the cor.of secs.1,2,11,and 12,which is a sandstone,6x10x5 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.,in the

Retracement Sub.T.34 S.,R.10 W.-Continued.

Chains	
	ground,for cor.of secs.1,2,11,and 12,mkd.on brass cap
	T 34 S S 2 in NW.
	R 10 W S 1 in NE.
	S.12 in SE.;and
	S 11 in SW.quadrants;and raise a mound of stone,
	2 ft.base,1½ ft.high,W.of cor.
	The course of this mile is therefore S.0°8'E.,80.40 chs.
	Land,Foot hills sloping east into Parowan valley.
	Soil,clay loam about 18 ins.deep.subsoil,clay.
	No timber.
	Undergrowth,sage brush and shadscales.
	No grass .
	Landscovered with dense undergrowth,80.40 chs.
	December 22,1910:At this cor.I set off 23°26'S.,on the decl.arc;and at 11 h 58 m a.m.,11m.t.,I observe the sun on the meridian,the resulting lat.is 37°53'N.,which is the proper lat.nearly.
	South,on a retracement line bet.secs.11 and 12.
	Over Foot hills,through dense sage brush and shadscales.
	Dense.
10.00	Foot of descent,bears N.80°W.and S.80°W.
	Into valley.
40.24	Intersect the ¼ sec.cor.bet.secs.11 and 12,which is a granite stone,5x10x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:.
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 11 in W half and S 12 in E half;dig pits,18x18x12 ins.E.and S.of post, 3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft. high,W.of cor.
80.43	Intersect the cor.of secs.11,12,13,and 14,which is a sandstone,11x10x6 ins.,above ground,firmly set,and mkd.

Retracement Sub.T.34 S.,R.10 W.,Continued.

Chains

and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.11,12,13,and 14,mkd.on brass cap

T 34 S S 11 in NW.

R 10 W S 12 in NE.

S 13 in SE.;and

S 14 in SW.quadrants;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.✓

The course of this mile is therefore South,80.43 chs.

Land,rolling and level.Soil,clay loam.2nd rate.No timber. Land covered with dense undergrowth,80.43 chs.✓

West,on a retracement line bet.secs.11 and 14.

Over nearly level valley land;through dense undergrowth.

Asc.

40.25 Intersect the ¼ sec.cor.bet.secs.11 and 14,which is a sandstone,10x8x6 ins.,above ground,loosely set,and mkd.and witnessed as described by the surveyor general,

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in .in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 11 in N half. and S 14 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.✓

The course of this half mile is therefore West 40.25 chs.

Land,nearly level.

Soil,clay loam;2nd rate.2 ft.deep,on hard clay subsoil.

No timber.

Undergrowth,sage brush and shadscales.

No grass.

Land covered with dense undergrowth.40.25 chs.

December 22,1910.

Chains	
	December 23,1910:At 8 h 59 m a.m.,l.m.t.,I set off 37°52' N.on the lat.arc;23°25'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.11,12,13,and 14, thence I run
	South,on a retracement line bet.secs.13 and 14.
	Over nearly level valley;through dense undergrowth.
40.14	Fall 3 lks.W.of the ¼ sec.cor.bet.secs.13 and 14,which is sandstone,6x10x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 14 in W half and S 13 in E half;dig pits,18x18x12 ins.W.and S.of post. 3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft. high, W.of cor.
60.35	Wire fence,bears E.and W.
80.43	Fall 7 lks.West of the cor.of secs.13,14,23,and 24,which is a porphyry stone,5x12x5 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.13,14,23,and 24,mkd.on brass cap
	T 34 S S.14 in NW.
	R 10 W S 13 in NE.
	S 24 in SE.;and
	S 23 in SW.quadrants;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.
	The course of this mile is therefore S.0°3'E.,80.43 chs.
	Land,nearly level.
	Soil,clay loam;2nd rate.
	No timber.
	Undergrowth,sage brush and schadscales.
	Good grass.

Retracement Sub.T.34 S.,R.10 W.-Continued.

Chains	
	Land covered with dense undergrowth,80.43. chs.
	N.89°52'W.,on a retracement line bet.secs.14 and 23.
	Over nearly level valley;through dense sage brush.
40.08	Fence,bears N.and S.
40.29	Fall 70 lks.N.of the ¼ sec.cor.bet.secs.14 and 23,which is a sandstone,14x8x4 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 14 in N half and S 23 in 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.
53.40	Wash,40 lks.wide,10 ft.deep,course N.30°E.
77.60	Leave valley,bears NE and SW.
	Asc.,through scattering timber, bearing NE. and SW.
80.30	Fall 64 lks.N.of the cor.of secs.14,15,22,and 23,which is a cobble stone,11x12x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.14,15,22,and 23,mkd.on brass cap
	T 34 S S15 in NW.
	R 10 W S 14 in NE.
	S 23 in SE.;and
	S 22 in SW.quadrants;from which
	A cedar,5 ins.dia.,bears N.21°E, 185 lks. dist..mkd.T 34 S R 10 W S 14 B T.
	A cedar,6 ins.dia.,bears S.40°E.,155 lks. dist..mkd.T 34 S R 10 W S 23 B T.
	A cedar,5 ins.dia.,bears S.20°W.,50 lks. dist..mkd.T 34 S R 10 W S 22 B T.

Retracement Sub.T.34 S.,R.10 W.-Continued.

Chains

A pinon pine,6 ins.dia.,bears N.9°30'W.,213 lks. dist..mkd.T 34 S R 10 W S 15 B T.

The course of the east half of this mile is therefore S.89°08'W.,40.29 chs.and the west half is N.89°47'W., 40.01 chs.

E.77.60 chs.level valley.soil,clay loam;2nd rate 2 ft. deep.No timber.Undergrowth,sage brush.

W.2.70 Chs.east slope of ridge rocky and gravelly ;a few scattering trees,cedar and pinon pine. Some grass. Mountainous land,or land covered with dense undergrowth, 80.30 chs.

December 23,1910;At this cor.I set off 23°24'S.,on the dec.arc;and at 11 h 59 m a.,l.m.t.,I observe the sun on the merdian,the resulting lat,is 37°51'N.,which is the proper lat.nearly.

South,on a retracement line bet.secs.22,and 23.

Over mountainous land;through dense undergrowth and scattering timber,

Desc.

6.00 Foot of mountain,1 0 ft.below cor.,bears NE and SW.

Leave timber,bears same.

Thence in valley.

38.50 Wash,50 lks.wide,4 ft.deep,course NE.

40.[illegible] Intersect[illegible] at the ¼ sec.cor.bet.secs.22 and 23,which is a granite stone,5x12x6 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in.in dia.,36 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 22 in W half and S 23 in 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.

80.58 Intersect[illegible] at the cor.of secs.22,23,26,and 27, which is a limestone,6x14x8 ins.above ground,loosely set,and mkd.and witnessed as described by the surveyor

Retracement Sub.T.34 S.,R.10 W.-Continued.

Chains

set and mkd. and witnessed as described by the surveyor general.

I destroy the old cor. and re-establish it in the same place as follows:

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

T 34 S S 22 in NW.

R 10 W S 23 in NE.

S 26 in SE.; and

S 27 in SW. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

The course of this mile is therefore South ., 80.58 chs.

Land, mountainous 6.00 chs.

Level land 74.58 chs., soil, clay loam; 2nd rate. No timber

Undergrowth, sage brush.

Mountainous land, or land covered with dense undergrowth, 80.58 chs.

West, on a retracement line bet. secs. 22 and 27.

Over level valley; through dense sage.

18.30 Old road, bears N.70°E. and S.70°W.

38.00 Leave valley, bears NE and SW. Asc.

40.24 Intersect the ¼ sec. cor. bet. secs. 22 and 27, which is a sandstone, 4x10x6 ins., above ground, loosely set, and mkd. and witnessed as described by the surveyor general.

I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. mkd. on brass cap ¼ S 22 in N half and S 27 in S half; from which

A pinon pine, 6 ins. dia., bears N.19°W., 47 lks. dist. mkd. ¼ S 22 B T.

A cedar, 5 ins. dia., bears S.73°W., 69 lks. dist. mkd. ¼ S 27 B T.

The course of this half mile is therefore West 40.24 chs.

Retracement Sub.T.34 S.,R.10 W.-Continued.

Chains	
	E.38.00 chs.level valley land;rich clay loam about 2 ft. deep.no timber.undergrowth,sage brush.good grass.
	W.2.24 chs.E.slope of ridge gravelly .sage brush.good grass.
	Mountainous land,or land covered with dense undergrowth, 40.24 chs.✓
	December 23,1910.

	December 24,1910At 8 h 59 m a.m.,l.m.t.,I set off 37°50' N.,on the lat.arc;23°24'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
	South,on a retracement line bet.secs.26 and 27.
	Over level valley land;through dense sage brush.
8.00	Wash,20 lks.wide,3 ft.deep,course S.80°E.
25.50	Wood road,bears N.80°W.and S.80°E.
40.15	Fall 9 lks.E.of the ¼ sec.cor.bet.secs.26 and 27,which is a sandstone,7x12x5 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 27 in W half and ¼ S 26 in 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.✓
80.31	Fall 19 lks.E.of the cor.of secs.26,27,34,and 35.,which is a sandstone,5x10x8 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same placexas follows:
	Set an iron post,3-ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.26,27,34,and 35,mkd.on brass cap T 34 S S 27,in NW.¼

Retracement Sub.T.34 S.,R.10 W.-Continued.

Chains	
	R 10 W S 26 in NE.
	S 35 in SE.;and
	S 34 in SW.quadrants;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.
	The course of this mile is therefore S.0°08'W.,80.31 chs.
	Land,level.
	Soil,clay loam;2nd rate 2 ft.deep.subsoil,clay.
	No timber.Undergrowth,sage brush.No grass.
	Land covered with dense undergrowth,80.31 chs.

	S.89°39'W.,on a retracement line bet.secs.27 and 34.
	Over level valley land;through dense sage brush.
26.40	Wash,10 lks.wide,3 ft.deep,course SE.
35.50	Wash,20 lks.wide,3 ft.deep,course S.30°E.
40.43	Fall 16 lks.S.of the ¼ sec.cor.bet.secs.27 and 34,which is sandstone,5x10x8 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 27 in N half and S 34 in S half;dig pits,18x18x12 ins.,N.and W.of post, 3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft. high,N.of cor.
	Wire fence,bears N.and S.
68.50	Knoll 50 ft.high,.
70.20	Ledge,30 ft.high,bears N.and S.
80.47	Fall 32 lks.S.of the cor.of secs.27,28,33,and 34,which is a limestone,14x12x6 ins.,above ground,loosely set,and mkd. and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.27,28,33,and 34,mkd.on brass cap

Retracement Sub.T.34 S.,R.10 W.-Continued.

Chains

T 34 S S 28 in NW.

R 10 W S 27 in NE.

S 34 in SE.;and

S 33 in SW.quadrants;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.

The course of this mile is therefore S.89°53'W.,80.47 chs.

Land,valley.

Soil,sandy and gravelly loam mixed with some cobble rock.

No timber.

Undergrowth,sage brush.

Good grass ..

Land covered with dense undergrowth,80.47 chs.

December 24,1910:At this cor.I set off 23°25'S.,on the decl arc;and at 11 h 59 m a.m.,l.m.t.I observe the sun on the meridian,the resulting lat.is 37°49'N.,which is the proper lat.nearly.

South,on a retracement line bet.secs.33 and 34.

Over valley land;through dense sage brush.

16.40 Road from Summit to Lund,bears E.and W.

34.30 Wash,40 lks.wide,8 ft.deep,course W.

40.15 Fall 10 lks.E.of the ¼ sec.cor.bet.secs.33 and 34,which is a limestone,10x10x8 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground for ¼ sec.cor..mkd.on brass cap ¼ S 33 in W half;and S 34 in E half;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

42.50 Wash,30 lks.wide,4 ft.deep,course N.70°W.

79.30 Old road, bears E.and W.,bears [illegible]

80.40 Fall 25 lks.East of the cor.of secs.3,4,33,and 34,on S.

Retracement of Sub-T.34 S.,R.10 W.-Continued.

Chains

bdy.of Tp.,which is an iron stone,5x10x10 ins.above ground, firmly set,and mkd.and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

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

T 34 S S 33 in NW.

R 10 W S 34 in NE.

R 10 W S 3 in SE.;and

T35 S.S 4 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

The course of the north half of this mile is therefore S.0°09'W.,40.15 chs.and the south half is S.0°13'W., 40.25 chs.

Land valley.Soil,clay loam mixed with gravel;3rd rate.

No timber.Undergrowth,sage brush.No grass.

Land covered with dense undergrowth,80.40 chs.

December 24,1910.

Retracement S.bdy.T.34 S.,R.10 W.

December 27,1910:At 9 h 1 m a.m.,l.m.t.,I set off 37°49'W., on the lat.arc;25°19'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.3,4,33,and 34.

Thence I run

West,on a retracement line bet.secs.4 and 33.

Over valley land;through dense sage brush.

40.11 Fall 17 lks.S.of the ¼ sec.cor.bet.secs.4 and 33,which is sandstone,4x8x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 33 in N.ahlf

Retracement South bdy.T.34 S.,R.10 W.-Continued.

Chains and S 4 in S half.and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.✓

45.90 Leave valley,bears N.and S.

Asc.

63.10 Top of ridge,150 ft.above valley,bears N.and S.

Desc.

80.22 Fall 35 lks.S.of the cor.of secs.4,5,32,and 33,which is a iron stone,10x10x12 ins.above ground,loosely set,and mkd. and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.4,5,32,and 33,mkd.on brass cap

T 34 S S 32 in NW.

R 10 W S 33 in NE.

R 10 W S 4 in SE.;and

T 35 S S 5 in SW.quadrants;and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.✓

The course of this mile is therefore N.89°45'W.,80.22 chs.

Land,on east 45.90 chs.is level valley,good rich clay loam about 18 ins.deep,on subsoil,of clay.No timber.Undergrowth, sage brush and shadscales.Good grass.

West 34.32 chs.is mountainous land,with smooth slopes soil about 1 ft.deep,clay mixed with gravel.No timber. Mountainous land,or land covered with dense undergrowth, 80.22 chs.✓

— —

West,on a retracement line bet.secs.5 and 32.

Over rolling mountainous land;through dense sage brush.

Desc.

5.00 Enter scattering cedar and pinon pine timber,bears NE and SW.

15.00 Leave timber,bears N.and S.

32.65 Bottom of hollow,125 ft.below sec.cor.,course N.80°W.

Asc.

40.04 Intersect the ¼ sec.cor.bet.secs.5 and 32,which is a sandstone,5x10x6 ins.,above ground,firmly set,and mkd.

Retracement S.bdy.T.34 S.,R.10 W.-Continued.

Chains	
	and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 32 in N half and S 5 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
47.60	Top of spur,90 ft.above hollow,bears N.75°W.and S.75°E.
	Desc.
48.00	Bottom of swale,95 ft.below spur,course NW.
	Asc.
80.38	Fall84 lks.S.of the cor.of secs.5,6,31,and 32,which is an iron stone,20x20x16 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.5,6,31,and 32,mkd.on brass cap
	T 34 S S 31 in NW.
	R 10 W S 32 in NE.
	R 10 W. S 5 in SE.;and
	T 35 S. S 6 in SW.quadrants;and raise a mound of stone2 ft.base,1½ ft.high,W.of cor..
	The course of the east half of this mile is therefore West 40.04 chs.;and the west half is N.88°48'W.,40.34 chs.
	Land,rolling mountains,with smooth slopes.
	Soil,gravelly loam about 18 ins.deep.
	Timber,a few scattering cedars and pinon pines.
	Undergrowth,sage brush.
	A very little grass.
	Mountainous land,or land covered with dense undergrowth, 80.38 chs.
	December 27,1910:At the noon hour the sky is overcast and solar observations are impossible.

Retracement Sub.T.34 S.,R.10 W.

Chains	
	Retracement Sub.T.34 S.,R.10 W.-Continued.
	North,on retracement line bet.secs.31 and 32.
	Over mountainous land;through dense sage brush.
	Desc.
9.20	Bottom of hollow,100 ft.below cor.,course N.80°W.
	Asc.
15.80	Top of spur,200 ft.above hollow,bears E.and W.
	Desc.
24.00	Foot of descent,225 ft.below spur,bears NE and SW.
	Enter valley.
40.44	Fall 87 lks.West of the ¼ sec.cor.,bet.secs.31 and 32, which is a sandstone,6x13x6 ins.,above ground,firmly set, and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.mkd.on brass cap ¼ S 31 in W half and S 32 in E half;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
41.80	Wood road,bears NE.and S.20°W.
48.10	Wood road,bears E.and W.
80.60	Fall 95 lks.West of the cor.of secs.29,30,31,and 32,which is a sandstone,10x10x8 ins.,above ground,loosely set,and mkd. and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:
	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,mkd.on brass cap
	T 34 S S 30 in NW.
	R 10 W S 29 in NE.
	S 32 in SE.;and
	S 31 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ft.high,W.of cor.
	The course of the south half of this mile is therefore

Retracement Sub.T.34.S.,R.10.W.-Continued.

Chains	
	N.1°14'E.,40.45 chs. and the north half is N.0°09'E., 40.16 chs.
	S.24.00 chs.mountainous with steep slopes soil,gravelly and rocky;No timber.Undergrowth,sage brush.
	N.56.61 chs.in level valley.Soil,clay loam about 3 ft. deep.subsoil,clay.good grass .No timber.
	Mountainous land,or land covered with dense undergrowth, 80.61 chs.
	North,on retracement line bet.secs.29 and 30.
	Over level valley;through dense sage brush and shadscales. and greasewood.
9.80	Wash,20 lks.wide,2 ft.deep,course W.
14.00	Wash,10 lks.wide,1 ft.deep,course W.
26.35	Wash,40 lks.wide,7 ft.deep,course W.
35.55	Road from Summit to Lund,bears E.and W.
40.00	Fall 09 lks.W.of the ¼ sec.cor.bet.secs.29 and 30,which a sandstone,5x9x6 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 30 in W half and S 29 in 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.
66.60	Wash ,20 lks.wide,2 ft.deep,course N.80°W.
76.40	Wash,20 lks.wide,2 ft.deep,course N.80°W.
80.54	Fall 19 lks.W.of the cor.of secs.19.20.29.and 30,which is a stone 5x10x10 ins.,above ground,firmly set,and mkd.and witness as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.19,20,29,and 30,mkd.on brass cap

Retracement Sub.T.34 S.,R.10 W.-Continued.

Chains	
	T 34 S S 19 in NW.
	R 10 W S 20 in NE.
	S 29 in SE.;and
	S 30 in SW.quadrants;dig pits,18x18 x12 ins.in each sec.5½ ft.dist.;and raise a mound of earth,4 ft.base, 2 ft.high,W.of cor.
	The course of this mile is therefore N.0°08'E.,80 54 chs.
	Land,level valley.Soil,sandy and clay loam 2 ft.deep.
	No timber.Undergrowth,sage brush,saltbushes and greasewood.
	No grass .
	Land covered with dense undergrowth,80.54 chs..
	———
	S.89°55'W.,on a retracement line bet.secs.19 and 30.
	Over level valley;through dense undergrowth.
30.40	Wash,20 lks.wide,3 ft.deep,course N.65°W.
40.05	Fall 6 lks.N.of the ¼ sec.cor.bet.secs.19 and 30,which is an iron stone,5x10x5 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 19 in N half and S 30 in 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.
49.10	Wash,40 lks.wide,8 ft.deep,course NW.
52.25	Road from Summit to Lund,bears NW and SE.
65.40	Top of small knoll.
	Desc .
80.57	Fall 12 lks.N.of the cor.of secs.19,24,25,and 30,which is a sandstone,10x10x6 ins ,above ground,firmly set,and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the

Retracement. Sub.T.34 S.,R.10 W.-Concluded.

Chains	
	ground,for cor.of secs.19,24,25,and 30,bkd.on brass cap
	T 34 S in N half.
	R 11 W S 24 in NW.
	R 10 W S 19 in NE.
	S 30 in SE.;and
	S 25 in SW.quadrants;dig pits,18x18x18 ins.,in
	each sec5½ ft.dist.;and raise a mound of earth,4 ft.
	base,2 ft.high,W.of cor.
	The course of thismile is therefore S.89°50'W.,80.57 chs.
	Land,nearly level valley.
	Soil,sandy and clay loam about 2 ft.deep,subsoil,clay.
	No timber.Undergrowth,sage brush and greasewood.
	No grass.
	Land covered with dense undergrowth,80.57 chs.
	December 27,1910.

Retracement West bdy.T.34 S.,R.10 W.

December 29,1910:At 9 h 2 m a.m.,l.m.t.,I set off 37°50' N.,on the lat.arc;23°13'S.,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,on retracement line bet.secs.19 and 24.

Over valley land;through dense undergrowth.

Asc.gently.

13.30	Top of small knoll.Desc.
25.30	Road from Summit to Lund,bears NW and SE.
26.40	Wash,60 lks.wide,3 ft.deep,course NW.
	Leave valley and begin ascent of rocky slope,bears NW and SE.
33.00	Top of steep ascent,100 ft.above wash,bears NW and SE.
	Thence over mesa.

Retracement W.bdy.T.34 S.,R.10 W.-Continued.

Chains

40.10 Fall 41 lks.W.of the ¼ sec.cor.bet.secs.19 and 24,which is a black volcanic rock,11x12x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 24 in W half and S 19 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.

80.38 Fall 41 lks.West of the cor.of secs.13,18,19,and 24,which is a black volcanic rock,11x12x10 ins.,above ground, firmly set,and mkd.and witnessed as described by the surveyor geeral.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.13,18,19,and 24,mkd.on brass cap

T 34 S in N half.

R 11 W S 13 in NW.

R 10 W S 18 in NE.

S 19 in SE.;and

S 24 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

The course of the south half of this mile is therefore N.0°35'E.40.10 chs.and the north half is North 40.28 chs.

Land,level and mountainous .

Soil,clay and gravelly loam;2nd rate.

No timber.

Undergrowth,sage brush .

Good.grass .

Mountainous land,or land covered with dense undergrowth, 80.38 chs.

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

Retracement W.bdy.T.34 S.,R.10 W.-Continued.

Chains	
	Over mesa; through dense undergrowth.
35.00	Leave mesa, bears E. and W.
	Asc.
40.31	Fall 07 lks. West of the ¼ sec.cor.bet.secs.13 and 18, which is a volcanic rock, 12x10x12 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	I destroy the old cor. and re-establish it in the same place as follows.
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec.cor. mkd. on brass cap ¼ S 13 in W half and S 18 in E half; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
49.70	Top of ascent, 100 ft. above mesa, bears N.20°E. and S.20°W.
	Thence over mesa.
66.00	Leave mesa, bears N.20°E. and S.20°W.
	Desc. over black volcanic rock.
80.66	Point 300 ft. below mesa.
	Fall 20 lks. West of the cor. of secs. 7, 12, 13, and 18, which is a volcanic rock, 15x12x10 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	I destroy the old cor. and re-establish it in the same place as follows:
	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, mkd. on brass cap
	T 34 S in N half.
	R 11 W S 12 in NW.
	R 10 W S 7 in NE.
	S 18 in SE.; and
	S 13 in SW. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The course of this mile is therefore S.½ N.0°06'E., 40.31 chs. and N.½ N.0°11'E., 40.35 chs.
	Land, mountainous and mesa land.
	Soil, gravelly and rocky; 3rd rate.
	No timber. Undergrowth, sage brush. Good grass.

Retracement W.bdy.T.34.S.,R.10.W.-Continued.

Chains	
	Mountainous land,or land covered with dense undergrowth, 80.66 chs. ✓
	December 29.1910:At the noon hour the sky is overcast and solar observations are impossible.
	———
	North,on a retracement line bet.secs.7 and 12.
	Over mountainous land;through dense undergrowth.
	Desc.over volcanic rock.
9.40	Foot of descent,bears N.30°E.and S.30°W.
	Enter valley and leave rock.
13.15	Road from Cedar to Milford,bears N.30°E.and S.30°W.
15.60	Cor.of rock fence,bears N.0°28'E.and S.30°W.
25.46	House belonging to William Ward bears West 5.00 chs.dist.
26.50	Ward's barn bears West about 2 chs.dist.
40.43	Fall 33 lks.west of the ¼ sec.cor.bet.secs.7 and 12,which is an iron stone,5x8x12 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general. ✓
	This cor.is in a rock fence which bears N.0°28'E.and S.0°28'W.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.mkd.on brass cap ¼ S 12 in W half and S 7 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor. ✓
59.50	Wash,20 lks.wide,2 ft.deep,course W.
80.56	Fall 66 lks.West of the cor.of secs.1,6,7,and 12,which is an iron stone,5x10x9 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general. ✓
	I Destroy the old cor.and re-establish it in the same place asfollows:
	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.1,6,7,and 12,mkd.on brass cap
	T 34 S in N half.

Retracement W.bdy.T.34 S.,R.10 W.-Continued.

Chains

R 11 W S 1 in NW.

R 10 W S 6 in NE.

S 7 in SE.;and

S 12 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

The course of this mile is therefore N.0°28'E.80.56 chs.

Land,level valley,except south 9.40 chs.which is rocky northwest slope of ridge.

Soil in valley clay loam about 18 ins.deep.clay subsoil.

No timber.

Undergrowth,sage brush and greasewood.

Good grass .

Land covered with dense undergrowth,80.56 chs.

Mountainous land,9.40 chs.

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

Over level valley;through dense undergrowth.

18.50 End of rock fence and beginning of board fence bears E.15 lks.dist.;this fence bears N.0°28'E.and S.0°28'W.

40.27 Fall 27 lks.West of the ¼ sec.cor.bet.secs.1 and 6, which is an iron stone,7x10x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

I destroy this cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 1 in W half and S 6 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.

80.97 Fall 54 lks.West of the cor.of Tps.33 and 34 S.,Rs.10 and 11 W.,heretofore described.

The course of this mile is therefore N.0°23'E.,80.97 chs.

Land,valley.Soil,clay loam;2 ft.deep,on hard clay subsoil

No timber,Undergrowth,sage brush and greasewood.

Chains

Land covered with dense undergrowth.80.97 chs.

December 29,1910.

John R Stewart

U.S.Transitman.

Subdivision of T.34 S.,R.10 W.

Survey commenced December 26,1910;and executed with a Young and sons light mountain transit No 7382,with solar attachment.The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arc;

The instrument was examined,tested on the meridian at Salt Lake City,found correct,and was approved by the surveyor general for Utah,on August 6,1910.

I examine the adjustments of the instrument and correct the level and collimation errors;then,to test the solar apparatus by comparing its indications resulting from solar observations made during p.am. and a.m.hours with a meridian established by Polaris observation:I proceed as follows:At 4h 0m p. m. l. m. t. at the cor.of secs.14,15,22,and 23,heretofore described, latitude 37°51'16"N.,longitude 112°55'07"W., I set off 37°51'N.,on the lat.arc;23°21'N.,on the decl.arc;and determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5.00 chs. N.of the cor.;

December 26,1910.

December 27,1910;At 1 h 5 m a.m.,l.m.t.,I observe Polaris at western elongation in accordance with the Manual and mark a point in the line thus determined by a cross on a wooden plug set in the ground,5.00 chs.N.of the cor.

Chains

At 8 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°28'to the west,and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor.;this mark falls 0.35 ins.east of the meridian established by the solar.

At 9 h 1 m a.m.,l.m.t.,I set off 37°51'N.,on the lat. arc;23°19'S.,on the decl.arc;and determine a meridian with the solar,and mark a point thereof by a cross on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.39 ins.east of the meridian established by Polaris observation The solar apparatus by p.m.and a.m.observations defines positions for meridians respectiveley about 0'18"west and 0'21"east of the meridian established by Polaris observation;therefore I concluded that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 9 h 30 m a.m.,. is N.16°05'W.,the angle thus determined gives the mean mag decl.16°05'E.

From the cor.of secs.14,15,22,and 23,heretofore described I run

North,on a random line bet.secs.14 and 15.

40.00 Set temp.¼ sec.cor.

80.00 Set temp.cor.of secs.10,11,14,and 15.

Thence I run

East,on a random line bet.secs.11 and 14.

40.05 I fall 93 links South,of the ¼ sec.cor.,bet.secs.11 and 14,heretofore described.

Therefore I begin at the ¼ sec.cor.bet.secs.11,and 14; and run

West,on a true line bet.secs.11 and 14.

Over valley land;through dense sage brush.

Asc.gradually.

5.00 Leave valley,bears NE and SW.

Asc.

Chains	
6.00	Enter scattering timber,bears NE and SW.
19.40	Top of spur,400 ft.above valley,bears NW and SE.
	Desc.
35.60	Bottom of hollow,100 ft.below spur,course SE.
	Asc.
40.05	Intersect N.and S.line 93 lks.N.of temp.cor.of secs.10,11, 14 and 15.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.10,11,14,and 15,mkd.on brass cap
	T 34 S S 10 in NW.
	R 10 W S 11 in NE.
	S 14 in SE.;and
	S 15 in SW.quadrants;from which
	A pinon pine 6 ins.dia.,bears N.8°E.,29 lks.
	dist..mkd.T 34 S R 10 W S 11 B T.
	A pinon pine,8 ins.dia.,bears S.65°E.,53 lks.
	dist..mkd.T 34 S R 10 W S 14 B T.
	A pinon pine,6 ins.dia.,bears S.37°W.,39 lks.
	dist..mkd.T 34 S R 10 W S 15 B T.
	A pinon pine,7 ins.dia.,bears N.10°W.,78 lks.
	dist..mkd.T 34 S R 10 W S 10 B T.
	Land,on east 5.00 chs.valley.rich clay loam about 18 ins.deep.No timber.
	W.35.05 chs.steep mountain slopes covered with rock and gravel.Soil,gravelly;3rd rate.Timber,cedar and pinon pine. undergrowth,sage brush.
	Mountainous land,or land covered with dense undergrowth, 40.05 chs.
	South,on true line bet.secs.14 and 15.
	Over mountainous land;through heavy cedar and pinon pine timber.
	Asc.
2.00	Top of ridge,100 ft above cor.,bears N.60°W.and S.60°E.
	Desc.over ledges.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
17.40	Bottom of hollow,325 ft.below ridge,course S.50°E.
	Asc.
26.90	Top of ridge,250 ft.above hollow,bears N.60°W.and S.60° E.
	Desc.
37.80	Bottom of hollow,300 ft.below ridge,course E.
	Asc.
40.93	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 15 in W half and S 14 in E half;fromwwhdch
	A pinon pine,9 ins.dia. bears N.15°W.,7 lks. dist..mkd.¼ S 15 B T.
	A pinon pine,6 ins.dia.,bears S.78°E.,75 lks. dist..mkd.¼ S 14 B T.
45.90	Top of spur,200 ft.above hollow,bears E.and W.
	Desc.
72.20	Bottom of hollow,300 ft.below spur,course East.
	Asc.
75.90	Top of spur,75 ft.above hollow,bears E.and W.
	Desc.
77.40	Bottom of hollow,100 ft.below spur,course NE.
	Asc.
79.00	Top of spur,50 ft.above hollow,bears NE and SW.
	Desc.
80.93	The cor.of secs.14,15,22,and 23.
	Land,rough and mountainous .
	Soil,rocky ;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80;93 chs.
	December 27,1910:At the noon hour the sky is overcast and solar observations are impossible.

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Sub.T.34 S.,R.10 W.-Continued.

Chains	
	North,on a random line bet.secs.10 and 11.
40.00	Set temp.¼ sec.cor.
80.00	Set temp.cor.of secs.2,3,10,and 11.
	Thence I run
	East,on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
80.22	Intersect N.and S.line,55 lks.S.of the cor.of secs.1,2, 11,and 12.
	Therefore I begin at the cor.of secs.1,2,11,and 12.
	Thence I run
	West,on a true line bet.secs.2 and 11.
	Over rolling foot hills, through sage brush.
	Asc.gently.
15.00	East bank of wash,4 ft.deep,course S.80°E.
19.00	Wash,bank of wash.
35.00	Enter scattering timber,bears NE and SW.
35.00	Begin ascent of mountain,bears N.30°E.and S.30°W.
40.11	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 2 in N half and S 11 in S half;from which
	A cedar,8 ins.dia.,bears N.78°30'W.,30 lks. dist..mkd.¼ S 2 B T.
	A pinon pine,7 ins.dia.,bears S.3°30'W.,42 lks. dist.:mkd.¼ S 11 B T.
56.00	Top of ridge,400 ft.above valley,bears NE and SW.
	Desc.
60.00	Bottom of hollow,30 ft.below ridge,course NE.
	Asc.
78.00	Top of spur,100 ft.above hollow,bears NW and SE.
	Desc.
80.22	Intersect N.& S.line 55 lks.N.of temp.cor.secs.2,3,10 & 11.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.2,3,11,and 10,mkd.on brass cap
	T 34 S S 3 in NW.
	R 10 W S 2 in NE.
	S 11 in SE.;and

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	S.10 in SW.quadrants;from which
	A pinon pine,6 ins.dia.,bears N.29°E.,70 lks.
	dist..mkd.T 34 S R 10 W S 2 B T.
	A pinon pine,4 ins.dia.,bears S.53°E.,120 lks.
	dist..mkd.T 34 S R 10 W S 11 B T.
	A pinon pine5 ins.dia.,bears S.56°W.,104 lks.
	dist..mkd.T 34 S R 10 W S 10 B T.
	A pinon pine,12 ins.dia.,bears N.58°W.,112 lks.
	dist..mkd.T 34 S R 10 W S 3 B T.
	Land,on east 55.00 chs.rolling foot hills or valley.
	Soil,clay loam about 18 ins.deep,subsoil,clay good grass.
	No timber.Undergrowth,sage brush.
	W.45.22 chs.Mountainous with steep slopes.soil,gravelly
	about 1 ft.deep,subsoil,cemented gravel and rock.
	Timber,cedar and pinon pine.Undergrowth,sage brush.
	Mountainous land,or land covered with dense undergrowth,
	80.22 chs.
	South,on a true line bet.secs.10 and 11.
	Over mountainous land;through scattering timber and dense
	undergrowth.
	Desc.
5.00	Bottom of hollow,200 ft.below cor.,course E.
	Asc.
7.00	Top of spur,50 ft.above hollow,bears E.and W.
	Desc.
9.00	Bottom of hollow,50 ft.below spur,course N.80°E.
	Asc.
12.00	Top of spur,200 ft.above hollow,bears E.and W.
	Desc.
15.00	Bottom of hollow,50 ft.below spur,course E.
	Asc.
20.00	Top of ridge line ,60 ft.above hollow,bears E.and W.
	Desc.
23.00	Bottom of hollow,50 ft.below ridge,course E.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	Asc.
30.00	Top of ridge,150 ft.above hollow,bears NW and SE.
	Desc.
38.50	Bottom of hollow,300 ft.below ridge,course S.80°E.
	Asc.
40.55	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 10 in W half and S 11 in E half;from which
	A pinon pine,8 ins.dia.,bears N.8°30'E.,23 lks. dist..mkd.¼ S 11 B T.
	A pinon pine,8 ins.dia.,bears N.42°30'W.,32 lks. dist..mkd.¼ S 10.B T.
65.00	Top of ridge,350 ft.above hollow,bears NW and SE.
	Desc.
78.00	Bottom of hollow,200 ft.below ridge,course S.65°E.
	Asc.
80.55	The cor.of secs.10,11,14,and 15. 150 ft.above hollow.
	Land,mountainous steep and rough.
	Soil,gravelly ;3rd rate.
	Timber,scattering cedar and pinon pine. Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.55 chs.

N.0°9'W,on a random line bet.secs.2 and 3.

40.00	Set temp.¼ sec.cor.
80.26	Intersect N.bdy.of Tp.,21lks.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 mountainous land;through scattering timber and dense undergrowth.
	Asc.
19.00	Top of ridge,200 ft.above sec.cor.,bears N.10°E.and S.
	Thence along top of ridge.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
40.20	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 3 in W half and S 2 in E half;from which
	A pinon pine,5 ins.dia.,bears S.23°E.,15 lks. dist..mkd.¼ S 2 B T.
	A pinon pine,5 ins.dia.,bears W.,17 lks. dist.,mkd.¼ S 3 B T.
45 00	Leave ridge,bears W.and SE.
	Desc.
52.50	Ledge,20 ft.high,bears NE and SW.
57.50	Wood road,bears E.and W.
79.25	Top of ridge,bears N.80°W.and S.80°E.
	Desc.
80.20	The cor.of secs.2,3,10,and 11.
	Land,mountainous.
	Soil,sandy and gravelly loam about 1 ft.deep,subsoil, cemented gravel and rock .
	Timber,dedar and pinon pine.
	Undergrowth,sage,and buck brush.
	Good grass for grazing.
	mountainous land,or land covered with dense undergrowth, 80.20 chs.

December 27,1910.

December 28,1910:At 9 h 1 m a.m.,l.m.t.;I set off 37°49'N., on the lat.arc;23°16'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs:27,28,33,and 34.

Thence I run

North,on a random line bet.secs.27 and 28.

40.00	Set temp.¼ sec.cor.
80.00	Set temp.cor.of secs.21,22,27,and 28.

Thence I run

East,on a random line bet.secs.22 and 27.

Sub.T.34 S.,R.10 W.-Continued.

Chains

40.60 Fall 51 lks. S of ¼ sec.cor.bet.secs.22 and 27,heretofore described. Therefore I begin at the ¼ sec. cor. between secs. 11 and 14, and run,

West,on a true line bet.west halves of secs.22 and 27.

Over mountainous land;through scattering timber and dense undergrowth.

Desc.

7.70 Bottom of hollow,60 ft.below ¼ sec.cor.,course SW.

Asc.

80.00 Top of ridge,120 ft.above hollow,bears NE and SW.

Desc.

40.60 Intersect N. and S. line 51 lks. N. of Temp. cor. of Secs. 21,22,27 and 28.

Set an iron post.3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.21,22,27,and 28,mkd.on brass cap

T 34 S S 21 in NW.

R 10 W S 22 in NE.

S 27 in SE.;and

S 28 in SW.quadrants;from which

A pinon pine,6 ins.dia.;bears N.31°E.,58 lks. dist..mkd.T 34 S R 10 W S 22 B T.

A cedar,8 ins.dia.,bears S.10°E.,90 lks. dist..mkd.T 34 S R 10 W S 27 B T.

A pinon pine,12 ins.dia.,bears S.63°30'W.,100 lks. dist..mkd.T 34 S R 10 W S 28 B T.

A pinon pine,16 ins.dia.,bears N.64°30'W.,104 lks. dist..mkd.T 34 S R 10 W S 21 B T.

Land,mountainous

Soil,sandy and gravelly about 2 ft.deep.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 40.60 chs.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	South,on a true line bet.secs.27 and 28.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
20.00	Top of rocky ridge,100 ft.above cor.bears NE and SW.
	Desc.
27.20	Bottom of swale,100 ft.below ridge,course SW.
	Desc.
40.51	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 28 in W half and S 27 in E half;from which
	A cedar,7 ins.dia.,bears S.86°E.,35 lks. dist..mkd.¼ S 27 B T.
	A pinon pine,7 ins.dia.,bears N.65°W.,45 lks. dist..mkd.¼ S 28 B T.
47.00	Foot of descent,bears NE and SW.
	Enter valley. Leave timber,bears NE and SW.
52.50	Wash,50 lks.wide,4 ft.deep,course NE .
80.51	The cor.of secs.27,28,33,and 34.
	N.47.00 chs.mountainous .rocky soil,clay subsoil.
	Timber,cedar and pinon pine.Undergrowth,sage brush.
	S.33.51 chs.valley land;clay loam 2 ft.deep.clay subsoil.
	No timber.Undergrowth,sage brush.good grass.
	Mountainous land,or land covered with dense undergrowth, 80.51 chs.
	December 28,1910:At this cor.I set off 23°17'S.,on the decl.arc;and at 0 h 1 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°49'N.,which is the proper lat.nearly.

	N.0°1'W.bet.secs.21 and 22.
	Over mountainous land;through scattering timber and dense sage brush.
	Desc.
10.50	Road,bears NE and SW.(wood road)

Sub.T.34 S.,R.10 W.-Continued.

Chains	
20.00	Bottom of hollow,100 ft.below ridge,course W.
	Asc.
24.00	Wash,20 lks.wide,3 ft.deep,course S.70°W.
36.00	Wood road,bears N.and W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 21 in W half and S 22 in E half;from which
	A cedar,6 ins.dia.,bears N.40°E.,3 lks.
	dist.mkd.¼ S 22 B T.
	A pinon pinr,5 ins.dia.,bears S.10°W.,55 lks.
	dist..mkd.¼ S 21 B T.
41.00	Wood road,bears NW and SE.
72.50	Top of spur,300 ft.above hollow,bears NE and SW.
	Desc.
75.50	Bottom of hollow,100 ft.below ridge,course SW.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.15,16,21,and 22,mkd.on brass cap
	T 34 S S 16 in NW.
	R 10 W S 15 in NE.
	S 22 in SE.;and
	S 21 in SW.quadrants;from which
	A pinon pine,10 ins.dia.,bears N.22°E.,15 lks.
	dist..mkd.T 34 S R 10 W S 15 B T.
	A cedar,7 ins.dia.,bears S.60°E.,22 lks.
	dist..mkd.T 34 S R 10 W S 22 B T.
	A cedar,6 ins.dia.,bears S.30°W.,35 lks.
	dist..mkd.T 34 S R 10 W S 21 B T.
	A cedar,5 ins.dia.,bears N.34°W.,30 lks.
	dist..mkd.T 34 S R 10 W S 16 B T.
	Land,mountainous,general westerly slope and drainage.
	Soil,sandy and gravelly about 2 ft.deep,subsoil clay and conglomerate rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass.
	Mountainous land,or land covered with dense undergrowth,

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	80.00 chs.
	Note:Knowing that the line bet.secs.15 and 22 will not intersect the N.and S.line within limits;
	I run
	East,on a true line bet.secs.15 and 22.
	Over mountainous land;through heavy timber and scattering undergrowth.Conglomerate formation.
	Asc.
5.00	Top of spur,100 ft.above cor.,bears N.and S.
	Desc.
17.95	Bottom of hollow,200 ft.below spur,course S.
	Asc.
24.00	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
31.45	Bottom of hollow,75 ft.below ridge,course S.
	Asc.
39.00	Top of ridge,125 ft.above hollow,bears NW and SE.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,14 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor.,mkd.on brass cap ¼ S 15 in N half. and S 22 in S half;from which
	A pinon pine,8 ins.dia.,bears N.19°E.,25 lks. dist.,mkd.¼ S 15 B T.
	A cedar5 ins.dia.,bears S.10W.,45 lks. dist.,mkd.¼ S 22 B T.
49.40	Bottom of hollow,100 ft.below ridge,course SE.
	Asc.
66.00	Top of ridge,150 ft.above hollow,bears NW and SE.
	Desc.
81.02	Intersect N.and S.line,81 lks.S.of the cor.of secs.14,15, 22,and 23.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.15 and 22,mkd.on brass cap T 34 S R 10 W in N half.

Sub.T 34 S.,R.10 W;-Continued.

Chains

C C S 14 S 23 in E half;

S 22 in SW;and

S 15 in NW.quadrants;from which

A cedar,10 ins.dia.,bears S.15°W.,62 lks.

dist..mkd.T 34 S R 10 W S 22 B T.

A cedar,4 ins.dia.,bears N.28°30'W.,155 lks.

dist..mkd.T 34 S R 10 W S 15 B T.

Note:I destroy all marks on the cor.of secs.14,15,22,and 23,which pertain to secs.15 and 22.

Land,mountainous .

Soil,gravelly;3rd rate.subsoil,conglomerate rock.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,81.02 chs.

December 28,1910

Timothy Stewart

U.S.Transitman

Survey commenced March 31,1911,and executed with a W. and L.E.Gurley Explorer's transit,No.957 with solar attachment .The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct,and was approved by the surveyor general for Utah,on Mar 28,1911.

I examine the adjustments of the instrument and correct the level and collimation errors;then,to test the solar apparatus by an a.m.observation with Polaris observation I proceed as follows:

Note:For complete forenoon and afternoon tests see notes

Sub.T.34 S.,R.10 W.-Continued.

Chains of T.33 S.,R.11 W.

At the cor.of secs.15,16,21,and 22,heretofore described latitude 37°51'16"N.,longitude 112°56'10"West,At 6 h 50 m a.m.,. m.t.,I observe Polaris at western elongation,in accordance with the manual,and mark a point thereof on a wooden plug set in the ground,5.00 chs.N.of the cor. At 7 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°28'to the west,and mark a point in the meridian thus determined by cutting a small groove in a stone firmly set in the ground,5.00 chs.N.of the cor.;this mark falls 0. At 8 h 5 m a.m.,l.m.t.,I set off 37°51'N.,on the lat.arc; 3°54'N.,on the decl.arc;and determine a meridian with the solar,and mark a point thereof on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.22 ins.east of the meridian established by Polaris observation;therefore I conclude the instrument is in satisfactory adjustment.

N.0°01'W.,bet.secs.15 and 16.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.

35.00 Top of ridge,300 ft.above cor.,bears NW.and SE.

Desc.

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

A cedar,5 ins.dia.,bears S.45°E.,65 lks. dist..mkd.¼ S 15 B T.

A pinon pine,10 ins.dia.,bears N.85°W.,22 lks. dist..mkd.¼ S 16 B T.

57.20 Wood road,bears NE and SW.

Leave heavy and enter scattering timber,bears NE and SW.

Enter dense sage brush,bears NE and SW.

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

Sub,T.34 S.,R.10 W.-Continued.

Chians	
	T 34 S S 9, in NW.
	R 10 W. S 10 in NE.
	S 15 in SE.;and
	S 16 in SW. quadrants;from which
	A pinon pine,12 ins.dia.,bearsN.56°E.,77 lks.
	dist..mkd.T 34 S R 10 W S 10 B T.
	A pinon pine,9 ins.dia.,bears S.12°30'E.,120 lks.
	dist..mkd.T 34 S R 10 W S 15 B T.
	A cedar,16 ins.dia.,bears S.16°W.,220 lks.
	dist..mkd.T 34 S R 10 W S 16 B T.
	A cedar,10 ins.dia.,bears N.56°W.,48 lks.
	dist..mkd.T 34 S R 10 W S 9 B T.
	Land,mountainous .
	Soil,gravelly and rocky;3rd rate.about 18 ins.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous orheavily timbered land,or land covered with dense undergrowth,80.00 chs.
	For reasons already explained I run
	East,on a true line bet.secs.10 and 15.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
9.00	Enter sandstone ledges,bears NW and SE.
12.00	Leave ledges,bears NW and SE.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 10 in N half and S 15 in S half;from which
	A pinon pine,4 ins.dia.,bears N.7°E.,58 lks.
	dist..mkd.¼ S 10 B T.
	A cedar,14 ins.dia.,bears S.11°W.,183 lks.
	dist..mkd.¼ S 15 B T.
41.00	Enter heavy timber,bears N.and S.

Sub.T.34 S.,R.10 W.-Continued.-

Chains	
50.50	Asc.more abruptly over ledges,bears N.and S.
61.60	Top of ridge,500 ft.above sec.cor.,bears N.and S. Desc. along S.slope.
80.90	Ridge ,200ft. below last ridge, bears N.W. and S.E. desc.
81.20	Intersect N.and S.line,199 lks.South of the cor.of secs. 10,11,14,and 15.

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.10 and 15,mkd.on brass cap

T 34 S R 10 W in N half.

C C S 11 S 14 in E.half.

S 10 in NW.;and

S 15 in SW.quadrants;from which

A pinon pine,4 ins.dia.,bears S.42°W.,72 lks. dist..mkd.T 34 S R 10 W S 15 B T.✓

A cedar,14 ins.dia.,bears N.24°W.,19 lks. dist.mkd.T 34 S R 10 W S 10 B T.✓

Note:I destroy all marks on the cor.of secs.10,11,14,and 15,which pertain to secs.10 and 15. ✓

Land,mountainous .

Soil,gravelly loam;3rd rate:about 18 ins.deep,subsoil, sandstone and conglomerate rock.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,81.20 chs. ✓

N.0°1'W.,bet.secs.9 and 10.

Over mountainous land;through scattering timber and dense undergrowth.

Asc.

17.50	Wood road,bears NW and SE.
36.65	Wood road,bears N.20°E.and S.20°W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 9 in W half and S 10 in E half;from which

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	A cedar,8 ins.dia.,bears S.61°E.,127 lks. dist..mkd.T S 10 B T.
	A cedar,6 ins.dia.,bears N.30°W.,100 lks. dist..mkd.T S 9 B T.
55.00	Enter heavy timber,bears E.and W.
65.00	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.3,4,9,and 10,mkd.on brass cap
	T 34 S S 4 in NW.
	R 10 W S 3 in NE.
	S 10 in SE.;and
	S 9 in SW.quadrants;from which
	A pinon pine,10 ins.dia.,bears N.66°E.,140 lks dist.mkd.T 34 S R 10 W.S 3 B T.
	A cedar,5 ins.dia.,bears S.32°E.,65 lks. dist..mkd.T 34 S R 10 W S 10 B T.
	A pinon pine,4 ins.dia.,bears S.58°W.,124 lks. dist..mkd.T 34 S R 10 W S 9 B T.
	A pinon pine,8 ins.dia.,bears N.40°W.,166 lks. dist..mkd.T 34 S R 10 W S 4 B T.
	Land,mountainous .
	Soil,sandy and gravelly loam;3rd rate.2 ft.deep.subsoil clay and cemented gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	March 31,1911:At this cor.I set off 3°58'N.,on the decl. arc;and at 0 h 5 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°53'N.,which is the proper lat.nearly.

For reasons already explained I run

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	East,on a true line bet.secs.3 and 10 .
	Over mountainous land;through scattering timber and scattering undergrowth.
	Asc.gradually.
7.50	Wash,20 lks.wide,4 ft.deep,course N.20°W.
	Enter heavy timber,bears N.and S.
	Asc.over ledges.
15.00	Wash,40 lks.wide,3 ft.deep,course N.
29.00	Begin more abrupt ascent,bears N.and S.
40.00	Set an iron post,3ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 3 in N half and S 10 in S half;from which
	A pinon pine,8 ins.dia.,bears N.20°E.,20 lks. dist..mkd.¼ S 3 B T.
	pinon pine,8 ins.dia.,bears S.15°E.,55 lks. dist..mkd.¼ S 10 B T.
51.00	Top of ridge,300 ft.above wash,bears NW and SE.
	Desc.
70.50	Begin more abrupt descent,bears NW and SE.
81.00	Intersect N.and S.line,2.62 chs.S.of the cor.of secs.2, 3,10,and 11.
	Set an iron post,3 ft.long,2 ins.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for closing cor.of secs.3 and 10,mkd.on brass cap
	T 34 S R 10 W in N half.
	C C S 2 S 11 in E.half.
	S 3 in NW.;and
	S 10 in SW.quadrants;from which
	A cedar,8 ins.dia.,bears S.51°W.,50 lks. dist..mkd.T 34 S R 10 W S 10 B T.
	A pinon pine,12 ins.dia.,bears N.38°W.,323 lks. dist..mkd.T 34 S R 10 W S 3 B T.
	Note:I destroy all marks on the cor.of secs.2,3,10,and 11 that pertain to secs.3 and 10.
	Land,mountainous .
	Soil,sandy and gravelly.;3rd rate.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	Timber,cedar and pinon pine .
	Undergrowth,sage brush.
	Good grass for grazing.g
	Mountainous or heavily timbered land,81.00 chs.
	Note:Knowing from retracement that the line bet.secs. 3 and 4 will not intersect N.bdy.of Tp.within limits. I run N,0°01'W.,on a true line bet.secs.3 and 4. Over mountainous land;through dense undergrowth and scattering timber.
	Desc.
18.10	Wash,30 lks.wide,5 ft.deep,course N.80°W.
	Asc.
24.00	Top of ridge,100 ft.above wash,bears E.and W.
	Desc.
27.80	Wood road,bears NE and SW.
37.35	Wood road,bears NW and SE.
40.00	Bottom of hollow,75 ft.below ridge,course NW.
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ seccor.,mkd.on brass cap ¼ S 4 in W half and S 3 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
51.00	Top of ridge,100 ftlabove hollow,bears E.and W.
	Desc.
60.00	Bottom of hollow,75 ft.below ridge,course W.
	Asc.
71.90	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
75.00	Bottom of hollow,25 ft.below ridge,course W.
	Asc.
79.00	Top of ridge,50 ft.above hollow,bears E.and W. Desc.
82.20	Bottom of hollow,20 ft.below ridge,course NW.
82.68	Intersect N.bdy.of Tp.,3.47 chs.N.89°20'W.of the cor.of

Sub.T.34 S.,R.10 W.-Continued.

Chains

secs.3,4,33,and 34,heretofore described.

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

T 34 S R 10 W C C S 33 S 34 in N half.

R 10 W S 3 in SE.;and

T 34 S S 4 in SW.quadrants;from which

A cedar,6 ins.dia.,bears S.6°E.,145 lks.

dist..mkd.T 34 S R 10 W S 3 B T.

A pinon pine,10 ins.dia.,bears S.35°W.,116 lks.

dist..mkd.T 34 S R 10 W S 4 B T.

Note :I destroy all marks on the cor.of secs.3;4,33,and 34,which pertain to secs.3 and 4.

Land,mountainous.

Soil,gravelly ;3rd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Mountainous land,or heavily timbered land,or land covered with dense undergrowth,82.68 chs.

March 31,1911.

John R Stewart

U.S.Transitman.

December 28,1910:At 9 h 1 m a.m.,l.m.t.,I set off 37°49' N.,on the lat.arc;23°17'S.,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

N.0° 10'E.,bet.secs.32 and 33.

Note.I know from resurveys that this line will be 80.00 chs.

Over rolling mountainous land;through scattering timber and dense undergrowth.

Desc.

10.50 Bottom of hollow,30 ft.below cor.,course N.50°W.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
17.50	Top of spur,50 ft.above hollow,bears NW and SE.
	Dense.
26.50	Wash,20 lks.wide,4 ft.deep,course N.80°W.
	Continue descent ,
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 32 in W half and S33 in E half;from which
	A cedar,5 ins.dia.,bears S.48°E.,244 lks.
	dist..mkd.¼ S 33 B T.
	A cedar,6 ins.dia.,bears S.14°W.,50 lks.
	dist..mkd.¼ S 32 B T,
67.00	Begin abrupt descent, bears E.and W.
72.70	Wire fence,bears E.and W.
75.00	Creek,3 lks.wide,3 ins.deep,in wash,50 lks.wide,20 ft. deep,in bottom of canon,150 ft.below spur,course N.80° W.
	Arc.gradually.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.28.29.32,and 33,mkd.on brass cap
	S 34 S S 29 in NW.
	B 10 W S 28 in NE.
	S 33 in SE.;and
	S 32 in SW.quadrants;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.
	Hard,rolling mountains with smooth,gradual slopes.
	Timber,cedar and piñon pine scattering.
	Soil,sandy loam ,medium texture,about 14 ins.deep,sub-soil,clay.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	December 28,1910:At the noon hour the sky is overcast and solar observations are impossible.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	S.89°45'E.,on a random line bet.secs.28 and 33.
40.00	Set temp.¼ sec.cor.
80.40	Intersect N.and S.line,35 lks.S.of the cor.of secs.27,28,33 33,and 34.
	Thence I run
	West,on a true line bet.secs.28 and 33.
	Over level valley;through dense sage brush.
18.30	Wash,40 lks.wide,6 ft.deep,course S.10°E.
20.00	Leave valley,bears N.and S.
	Asc.abruptly.Enter scattering timber,bears same.
35.00	Top of ridge,150 ft.above valley,bears N.25°E.and S.25°W.
40.20	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 28 in N half and S 33 in S half;from which
	A cedar,7 ins.dia.,bears N.82°W.,144 lks. dist..mkd.¼ S 28 B T.
	A cedar,8 ins.dia.,bears S.75°W.,87 lks. dist..mkd.¼ S 33 B T.
46.00	Bottom of hollow,30 ft.below ridge,course NW.
	Asc.
48.00	Road from Summit to Lund,bears N.50°W.and S.50°E.
	Top of ridge,40 ft.above hollow,bears N.50°W.and S.50°E.
	Desc.
65.00	Bottom of hollow,50 ft.below ridge,course S.10°W.
	Asc.
70.30	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
75.35	Fence,bears N.and S.
80.40	The cor.of secs.28,29,32;and 33.
	N.20.00 chs.level valley;rich clay loam about 2 ft.deep. Subsoil clay.No timber.Undergrowth,sage brush.
	N.60.40 chs.is rolling mountains with gradual and smooth slopes,general drainage west.Timber,scattering cedar and pinon pine.Undergrowth,sage brush.Good grass .Soil, gravelly;3rd rate.
	Mountainous land,or land covered with dense undergrowth,

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	80.40 chs.
	Note:Knowing from retracement made that the line bet. secs.29 and 32 will not close within limits; I run West,on a true line bet.secs.29 and 32. Over rolling mountainous land;through dense sage brush. Desc.
18.65	Fence,bears N.10°E.and S.10°W.
24.15	Creek,4 lks.wide,4 ins.deep,in wash,50 lks.wide,10 ft. deep,in hollow,30 ft.below cor.,course N.70°W. Asc.gradually.
31.70	Fence,N.70°W.and S.70°E.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 29 in N half. and S 32 in S half;dig pits,18x18x12 ins,E.and W.of post, and 3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft.high,N.of cor.
62.00	Top of spur 40 ft.above hollow,bears N.and S. Desc.
69 00	Foot of descent,bears N.10°E.and S.10°W. Enter valley.
69.10	Wood road,bears N.10°E.and S.10°W.
79.47	Intersect N.and S.line,1.43 chs.S.0°09'W.,from the cor. of secs.29,30,31,and 32,heretofore described. Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.29 and 32,mkd.on brass cap T 34 S R 10 W in N half. C C S 30 S 31 in W half. S 29 in NE.;and S 32 in SE.quadrants;dig pits,24x18x12 ins. crosswise.on each line N.and S.,3 ft.and E.of post, 7 ft.dist.;and raise a mound of earth,4 ft.base,2 ft.high, E of cor. I destroy all marks on the cor.of secs.29,30,31,and

Sub.T.34 S.,R.10 W.-Continued.

Chains

32,which pertain to secs.29 and 32.

Land,rolling mountainous and level valley.

Soil,sandy loam about 18 ins.deep,2nd rate.

No timber.

Undergrowth,sage brush

Mountainous land,or land covered with dense undergrowth,

79.47 chs.

December 28,1910.

John R.Stewart

U.S.Transitman.

December 29,1910:At 9 h 1 m a.m.,l.m.t.,I set off 37°49'N. on the lat.arc;23°13'S.,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°1'W.,bet.secs.28 and 29.

Over rolling mountainous land;through scattering timber and scattering undergrowth

Asc.

4.70 Road from Summit to Lund,bears N.80°E.and S.80°W.

8.65 A corral bears W.,3.00 chs.dist.

11.90 Top of ridge,80 ft.above sec.cor.bears N.80°E.and S.80° W.

Desc.

15.00 Road from Summit to Lund,bears N.60°E.and S.60°W.

Bottom of hollow,40 ft.below ridge,course SW60°W.

Asc.

22.30 Top of ridge,120 ft.above hollow,bears N.65°E.and S.65° W.

Desc.

23.00 Leave timber,bears E.and W.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 28 in W half and S 28 in E half;dig pits,18x18x12 ins.N.and S.of post, 3 ft.dist.;and raise a mound of earth,3½ ft.base,and 1½ high,

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	N. of cor.
51.75	Bottom of hollow,50 ft.below ridge,course S.70°W.
	Asc.gradually.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.20,21,28,and 29,mkd.on brass cap
	T 34 S S.20 in NW.
	R 10 W S 21 in NE.
	S 28 in SE.;and
	S 29 in SW.quadrants;dig pits,18x18x12 ins.in eac sec.5½ ft.dist.;and raise a mound of earth,4 ft.base,2 ft high,W.of cor.
	Land,rolling mountainous.
	Soil,sandy loam;2nd rate.about 2 ft.deep.
	Timber,scattering cedar and pinon pine.
	Undergrowth,dense sage brush.
	A very little grass.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	East,on a random line bet.secs.21 and 28.
40.00	Set temp.¼ sec.cor.
80.40	Intersect N.and S.line 27 lks. S.of cor. of secs.21,22,27, and 28.
	Thence I run
	S.89°48'W.,on a true line bet.secs.21 and 28.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
40.20	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 21 in N half and S 28 in S half;from which
	A cedar,6 ins.dia.,bears S.54°W.,25 lks. dist..mkd.¼ S 28 B T.
	A pinon pine,6 ins.dia.,bears N.65°W.,19 lks. dist..mkd.¼ S 21 B T. I.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
47.70	Bottom of hollow,100 ft.below sec.cor.,course SW.
	Asc.gradually.
56.10	Top of ridge,30 ft.above hollow,bears N.15°W.and S.15°E.
	Desc.
69.00	Leave timber,bears N.and S.
80.40	The cor.of secs.20,21,28,and 29.
	Land,rolling mountainous.gradual west slopes.
	Timber,cedar and pinon pine.
	Soil,sandy loam about 2 ft.deep,2nd rate.subsoil,clay.
	Undergrowth,sage brush.
	Good grass.
	Mountainous land,or land covered with dense undergrowth,
	80.40 chs. ✓
	December 29,1910:At the noon hour the sky is overcast
	and solar observations are impossible.

For reasons already explained I run
West,on a true line bet.secs.20 and 29.
Over rolling mountainous land;through dense sage brush
and shadscales.
Desc.

34.30	Bottom of hollow,100 ft.below sec.cor.,course S.30°W.
	Asc.gently.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼.sec.cor..mkd.on brass cap ¼ S 20,in N half and S 29 in S half;dig pits,18x18x18 ins.E.and W.of post, 3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft. high,N.of cor.✓
43.30	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
49.30	Foot of descent,bears N.30°W.and S.30°E.
	Enter valley.
	Road (wood),bears N.20°E.and S.20°W.
79.30	Intersect N.and S.line,198 lks.S.0°08'W.,of the cor.of secs.19,20,29,and 30,heretofore described.

Sub.T.34 S.,R.10 W.-Continued.

Chains

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.20 and 29,mkd.on brass cap

T 34 S R 10 W in N half.

C C S 19 S 30 in W half.

S 20 in NE.

S 29 in SE.quadrants;and dig pits,24x18x12 ins. N.and S.3 ft.and E.of post,7 ft.dist.;and raise a mound of earth,4 ft.base,2 ft.high,E.of cor.

Note :I destroy all marks on the cor.of secs.19,20,29,and 30,which pertain to secs.20 and 29.

Land,mountainous and level.

Soil,sandy loam;2nd rate.2 ft.deep,subsoil,clay and gravel

No timber.

Undergrowth,sage brush and shadscales.

Good grass.

Mountainous land,or land covered with dense undergrowth, 79.30 chs.

December 29,1910.

Jimby Stewart

U.S.Transitman.

April 1,1911 At 8 h 4 m a.m.,l.m.t.,I set off 37°50'N., on the lat.arc;4°18'W.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.20,21,28,and 29.

Thence I run

N.0°2'W.,bet.secs.20 and 21.

Over mountainous land;through dense sage brush .

Asc.gradually.

12.55 Wood road,bears E.and W.

37.00 Enter scattering timber,bears E.and W.

40.00 Set an iron pot,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 20 in W half and S 21 in E half;from which

A pinon pine,8 ins.dia.,bears S.63°E.,90 lks. dist..mkd.¼ S 21 B T.

Sub.2.34 S.,R.10 W.-Continued.

Chains

A pinon pine,6 ins.dia.,bears S.21°30'W.,250 lks. dist..mkd.¼ S 20 B T.✓

54.20 Top of ridge,150 ft.above cor.,bears N.60°E.and S.60°W.

Desc.

73.25 Wash,30 lks.wide,4 ft.deep,course W.

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,mkd.on brass cap

T 34 S S 17 in NW.

R 10 W S 16 in NE.

S 21 in SE.;and

S 20 in SW.quadrants;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.✓

Land,rolling mountainous.

Soil,sandy loam about 18 ins.deep.subsoil clay and gravel.

Timber,scattering cedar and pinon pine.

Undergrowth,dense sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

N.89°48'E.,on a random line bet.secs.16 and 21.

40.00 Set temp.¼ sec.cor.

80.20 Intersect N.and S.line,16 lks. N.of the cor.of secs.15,16, 21,and 22.

Thence I run

S.89°55'W.,on a true line bet.secs.16 and 21.

Over mountainous land;through scattering undergrowth.

Desc.

20.40 Enter scattering timber;bears N.and S.

21.70 Wood road,bears N.and S.

27.00 Volcanic rock slide ,bears N.and S.

52.85 Bottom of hollow,100 ft.below sec.cor.,course S.20°W.

Asc.

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

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S 16 in N half and S 21 in S half;from which
	A cedar,5 ins.dia.,bears N.43°W.,10 lks.dist. mkd.¼ S 16 B T.
	A cedar,6 ins.dia.,bears S.24°W.,35 lks. dist..mkd.¼ S 21 B T.
41.90	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
51.60	Bottom of hollow,75 ft.below ridge,course S.
	Asc.
60.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
65.00	Begin more abrupt descent over ledges,bears N.and S.
72.00	Leave ledges,bears N.and S.
80.20	The cor.of secs.16,17,20,and 21.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.20 chs.
	N.0°02'W.,bet.secs.16 and 17.
	Over rolling mountainous land;through dense undergrowth
	Desc.over black volcanic rock.
10.50	Bottom of hollow,25 ft.below ridge,course S.30°W.
	Asc.over rocks.
20.00	Top of steep ascent,100 ft.above hollow,bears NE and SW.
	Leave rock.Asc.gradually.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 17 in W half and S 16 in E half;raise a mound of stone,2 ft.base,1½ ft high, W.of cor.
70.00	Top of ridge,200 ft.above hollow,bears NE and SW.
	Desc.gradually.

Sub.T.34 S.,R.10 W.-Continued.

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

T 34 S S 8 in NW.

R 10 W S 9 in NE.

S 16 in SE.;and

S 17 in SW.quadrants; and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

Land,mountainous .

Soil,gravelly;3rd rate.about 18 ins.deep.subsoil,gravel.

No timber.

Undergrowth,sage brush.

Good grass .

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

N.89°55'E.,on a random line bet.secs.9 and 16.

40.00 Set temp.¼ sec.cor.

80.04 Intersect N.and S.line,5 lks.N.of the cor.of secs.9 10,15, and 16.

Thence I run

S.89°57'W.,on a true line bet.secs.9 and 16.

Over mountainous land;through scattering timber and dense sage brush.

Desc.

12.00 Bottom of hollow,50 ft.below cor.,course S.30°W.

Asc.

29.00 Top of ridge,50 ft.above hollow,bears NE and SW.

Desc.

34.00 Foot of abrupt descent,bears N.and S.

40;02 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 9 in N half and S 16 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.

42.50 Bottom of hollow,125 ft.below ridge,course SW.

Asc.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
50.00	Leave timber,bears NE and SW.
70.00	Top of ridge,40 ft.above hollow,bears NE and SW.
	Desc.
80.04	The cor.of secs.8,9,16,and 17.
	Land,mountainous .
	Soil,gravelly;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous land,or land covered with dense undergrowth, 80.04 chs.
	April 1,1911:At this cor.I set off 4°21'N.,on the decl. arc;and at 0 h 4 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°52'N.,which is the proper lat.nearly.
	N.0°02'W.,bet.s cs.8 and 9.
	Over rolling mountainous land;through dense undergrowth.
	Desc.gradually.
5.10	Bottom of hollow,30 ft.below cor.,course W.
	Asc.
35.00	Top of ridge,50 ft.above hollow,bears N.70°E.and S.70° W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 8 in W half and S 9 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
49.75	Bottom of hollow,200 ft.below ridge,course W.
	Asc.abruptly.
56.00	Top of ridge,50 ft.above above hollow,bears E.and W.
	Desc.
59.75	Bottom of hollow,60 ft.below ridge,bears E.and W.
	Asc.abruptly.
65.00	Top of ridge,150 ft.above hollow,bears E.and W.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	Desc.
70.00	Bottom of hollow,50 ft.below ridge,course S.60°W.
	Asc.
80.00	Set an iron post,3 ft.long;2 ins.in dia.,24 ins.in the ground,for cor.of secs.4,5,8,and 9,mkd.on brass cap
	T 34 S S 5 in NW.
	R 10 W S 4 in NE.
	S 9 in SE.;and
	S 8 in SW.quadrants;raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Land,rolling mountainous .
	Soil,gravelly and sandy loam;2nd rate.subsoil,clay and gravel.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs. ✓
	N.89°57'E.,on a random line bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,at the cor.of secs.3,4,9,and 10.
	Thence I run
	S.89°57'W.,on atrue line bet.secs.4 and 9.
	Over mountainous land;through dense undergrowth;and scattering timber.
	DAsc. gradually .
5.00	Leave timber,bears N.and S.
30.00	Bottom of broad hollow,50 ft.below sec.cor.,course N.
	Asc.gradually.
40.01	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 4 in N half. and S 9 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor. ✓
72.00	Top of ridge,50 ft.above hollow,bears N.and S.

Sub.T.34 S.,R.10 W.-Continued.

Chains	Desc.
80.02	The cor.of secs.4,5,8,and 9.
	Land,mountainous .
	Soil,clay loam ;about 18 ins.deep.subsoil,clay and gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush .
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth.
	80.02 chs.
	—
	For reasons already explained I run
	N.0°02'W.on a true line bet.secs.4 and 5.
	Over mountainous land;through dense undergrowth.
	Asc.
5.00	Top of ridge,20 ft.above cor.,bears E.and W.
	Desc.gradually along east slope of mountain.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 5 in W half and S 4 in E half;and raise a mound of stone,2 ft.base,1 ½ ft.high,W.of cor.
45.00	Bottom of hollow,50 ft.below ridge,course N.60°E.
	Asc.gradually.
71.00	Begin abrupt ascent of ridge,bears N.20°E.and S.20°W.
	Enter scattering timber,bears N.20°E.and S.20°W.
83.70	Intersect N.bdy.of Tp.,4.38 chs.N.89°43'W.,of the cor.of secs.4,5,32,and 33,heretofore described.
	Set an iron post,3 ft.long,2 ins. n dia.,14 ins.in the ground,on solid rock,and surrounded by mound of stone, for closing cor.of secs.4 and 5,mkd.on brass cap
	C C T 33 S R 10 W S 32 S 33 in N half.
	R 10 W S 4 in SE.;and
	T 34 S S 5 in SW.quadrants;from which
	A pinon pine,8 ins.dia.,bears S.24°E.,70 lks. dist..mkd.T 34 S R 10 W S 4 B T.
	A pinon pine,8 ins.dia.,bears S.26°W.,16 lks. dist..mkd.T 34 S R 10 W S 5 B T.

Chains

Note:I destroy the marks on the cor.of secs.4,5,32,and 33,which pertain to secs.4 and 5.

Land mountainous .

Soil,clay loam;2nd rate.about 2 ft.deep.subsoil clay.

Timber, cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with denseundergrowth, 33.70 chs.

April 1,1911.

April 3,1911:At 8 h 4 m a.m.,l.m.t.,I set off 37°50'N., on the lat.arc;5°04'N.,on the decl.arc;and determine a meridian with the solar,at the corner of sections 19 and 30.

Thence I run

N.0°03'W.,bet.secs.19 and 20.

Over valley land;through dense undergrowth.

Esc:gently.

8.85 Wash,20 lks.wide,4 ft.deep,course S.75°W.

40.00 Set an iron post,5 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 19 in W half and S 20 in 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.

57.00 Leave valley,bears N.75°W.and S.75°E.

Asc.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.17,18.19,and 20,mkd.on brass cap

T 34 S S 18 in NW.

R 10 W S 17 in NE.

S 20 in SE.;and

S 19 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

Land,on S.57.00 chs.level valley;soil,clay loam;2 nd rate

Sub.T.34 S.,R.10 W.-Continued. -.

Chains	
	about 2 ft.deep,,subsoil,clay.No timber.Undergrowth, shadscales.
	N.23.00 chs.Mountainous land;rocky on surface,soil,gravelly;3rd rate.subsoil,gravel.No timber.Undergrowth,shadscales and sage brush.
	Mountainous land,or land covered with dense undergrowth.
	80.00 chs.
	East,on a random line bet.secs.17 and 20.
40.00	Set temp.¼ sec.cor.
79.12	Intersect N.and S.line,190 lks.N.of the cor.of secs. 16,17,20,and 21.
	Therefore I begin at the cor.of secs.16,17,20,and 21.
	Thence I run
	West,on a true line bet.secs.17 and 20;
	Over rolling mountainous land;through dense undergrowth,
	Desc.
3.50	Bottom of hollow,40 ft.below sec.cor.,course SW.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 17 in N.half and S 20 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
45.00	Tpp of ridge,100 ft.above hollow,bears N.and S.
	Desc.
67.20	Begin more abrupt descent,bears N.and S.
79.12	Intersect N.and S.line,190 lks.S.0°03'E.of cor.of secs. 17,18,19,and 20.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.17 and 20.mkd.on brass cap
	T 34 S R 10 W in N half.
	C C S 18 S 19 in W half.
	S 17 in NE.;and
	S 20 in SE.;quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,E.of cor.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	Note:I destroy all marks on the cor.of secs.17,18,19,and 20 which pertain to secs.17 and 20.
	Land,mountainous
	Soil,gravelly and clay loam;2nd rate.about 16 ins.deep.
	No timber.
	Undergrowth,sage brush and shadscales.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 79.12 chs.
	April 3,1911:At this cor.I set off 5°07'N.,on the decl. arc;and at 0 h 04 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°51'N.,which is the proper lat.nearly.

	From the cor.of secs.18 and 19 I run
	S.89°50'W.,on a random line bet.secs.18 and 19.
40.00	Set temp.¼ sec.cor.
80.20	Intersect W.bdy.of Tp.,23 lks.S.of the cor.of secs.13,18, 19,and 24,heretofore described.
	Thence I run
	East,on a true line bet.secs.18 and 19.
	Over mesa;through dense undergrowth.
24.20	Leave mesa,bears N.20°E.and S.20°W.
	Desc.
28.70	Foot of abrupt descent,bears N.20°E.and S.20°W.
36.40	Bottom of hollow,100 ft.below mesa,course S.25°W.
	Asc.
40.20	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 18 in N half and S 19 in S half;and raise a mound of stone 2 ft.base, 1½ ft.high,N.of cor.
47.40	Top of ridge,90 ft.above hollow,bears NE and SW.
	Desc.
71.65	Bottom of hollow,100 ft.below ridge,course S.10°W.

Sub.T.34 S.,R.10 W.-Continued.

Chains	
	Asc.
80.20	The cor.of secs.18 and 19.
	Land,level and mountainous.
	Soil,sandy and gravelly loam;2nd rate.about 14 ins.deep.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.20 chs.

April 5,1911.

April 4,1911:At 8 h 3 m a.m.,l.m.t.,I set off 37°51'N., on the lat.arc;5°27'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.0°03'W.,bet.secs.17 and 18,from the cor.of secs.18,and 19.

Over mountainous land;through dense undergrowth.

	Asc.over boulders.
29.00	Top of ridge,200 ft.above sec.cor.,bears NE and SW.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 18 in W half; and S 17 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
60.00	Bottom of hollow,150 ft.below ridge,course SW.
	Asc.
78.00	Begin more abrupt ascent over boulders,bears E.and W.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.7 and 18,mkd.on brass cap T 34 S R 10 W in N half. S 7 in NW.;and S 18 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

Sub.T.34 S.,R.10 W.- Continued.

Chains	
	Land mountainous.
	Soil,gravelly;3rd rate.
	No timber.
	Undergrowth,sage brush.
	Good grass.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	Note:Knowing that the line bet.secs.8 and 17 will not intersect within limits;I begin at the cor.of secs. 8,9,16,and 17.and run
	West,on a true line bet.secs.8 and 17.
	Over rolling mountainous land;through dense undergrowth.
	desc.
12.00	Bottom of hollow,25 ft.below sec.cor.,course NW.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 8 in N half and S 17 in S.half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
41.00	Top of ridge,80 ft.above hollow,bears N.20°W.and S.20°E.
	Desc.
70.00	Bottom of hollow,100 ft.below ridge,course S.20°W.
	Asc.
79.26	Intersect N.and S.line,2.05 chs.S.0°03'E.of cor. secs.7 and 18,.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.8 and 17,mkd.on brass cap
	T 34 S R 10 W in N half.
	C C S 7 S 18 in W.half.
	S 8 in NE.;and
	S 17 in SE.;quadrants;and raise a mound of stone,
	2 ft.base,1½ ft.high,E.of cor.
	Land,mountainous.
	Soil,sandy and gravelly;3rd rate.

Sub.T.34 S.,R.10 W.-Continued:

Chains	
	Soil,gravelly loam;3rd rate.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	79.26 chs.
	April 4,1911:At this cor.I set off 5 °30'N.,on the decl. arc;and at 0 h 3 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°52'N.,which is the proper lat.nearly.
	Note:Knowing from retracement that the line bet.secs.7 and 18 will not intersect W.bdy.within limits;I run
	West,on a true line bet.secs.7 and 18 from the cor.of secs.7 and 18.
	Over mountainous land;through dense undergrowth.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 7 in N half; and S 18 in S half;dig pits,18x18x12 ins.,N.and W.of post, 3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft. high,N.of cor.
49.00	Top of ascent and east edge of mesa,150 ft.above sec.cor., bears N.30°E.and S.30°W.
	Desc.gently over mesa.
74.00	Leave mesa,bears N.20°E.and S.20°W.
	Desc.abruptly.
80.20	Intersect W.bdy.of Tp.,75 lks.S.0°11'W.,of the cor.of secs.7,12,13,and 18,heretofore described.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.7 and 18,mkd.on brass cap
	T 34 S in N half.
	C C R 11 W S 12 S 13 in W half.
	R 10 W S 7 in NE.
	S 18 in SE.quadrants;and raise a mound of stone,

Sub.T.34 S.,R.10 W.-Continued.

Chains

2 ft.base,1½ ft.high,E.of cor.

Note:I destroy all marks on the cor.of secs.7,12,13,and 18,which pertain to secs.7 and 18.

Land,level and mountainous.

Soil,sandy and gravelly loam;2nd rate.about 18 ins. deep.subsoil,clay and gravel.

No timber.

Undergrowth,sage brush.

Good grass for grazing:

Mountainous land,or land covered with dense undergrowth, 80.20 chs.

April 4,1911.

April 5,1911:At 8 h.3 m a.m.,l.m.t.,I set off 37°52'N., on the lat.arc;5°50'W.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.7 and 18.

Thence I run

N.0°03'W.,bet.secs.7 and 8.

Over mountainous land;through dense undergrowth.

Asc.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 7 in W half. and S 8 in E half;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

46.00 Top of ridge,200 ft.above sec.cor.,bears N.70°E.and S. 70°W.

Desc.

49.40 Bottom of hollow;70 ft below ridge,course SW.

Asc.

55.00 Top of ridge,300 ft.above hollow,bears NE.and SW.

Desc.

60.00 Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.6, and 7 marked.on brass cap

T.34 S.,R.10 W.in N half.

S 6 in NW.;and ...

Sub.T.34 S., R.10 W.- Continued.

Chains,

S 7 in SW.quadrants; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Land, mountainous.

Soil, gravelly; 3rd rate.

No timber.

Undergrowth, sagebrush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth

80.00 chs.

For reasons already explained I run from the cor.of secs.4,5,8, and 9,

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

Descending over mountainous land; through dense undergrowth.

6.00 Desc.more abruptly; bearing N.and S.

15.00 Head of hollow, 20 ft.below cor., course S. Asc.

22.60 Top of knoll on ridge, 30 ft.above hollow, bears N.20° E. and S.20° W. Desc.

40.00 Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ¼ S 5 in N. half, and S 8 in S.half; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.

47.70 Bottom of hollow, 60 ft.below ridge, course SW. Asc.

51.00 Begin more abrupt ascent, bears N.20° E. and S.20° W.

60.00 Top of ridge, 150 ft.above hollow, bears NE. and SW. Desc.

79.09 Intersect N.and S.line 2.08 chs.S.0°03'E.of cor.secs.6 and 7;

Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.5 and 8, mkd.on brass cap

T 34 S R 10 W in N.half,

C C S 6 S 7 in W.half,

Chains. S 5 in NE.

S 8 in SE.quadrants; and raise a mound of stone, 2 ft.base, 1½ ft.high E.of cor.

Land, mountainous.

Soil, sandy and gravelly; 3d rate.

No timber. Undergrowth, sagebrush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth 79.09 chs.

April 5, 1911: At this cor.I set off 5°53'N.on the decl. arc; and at 0 h 3m p.m.l.m.t., observe the sun on the meridian; the resulting lat.is 37° 53'N.,which is the proper lat.nearly.

For reasons already explained I run from cor.secs.6 & 7

West on true line bet.secs.6 and 7,

Descending over mountainous land; through dense sagebrush.

13.70 Begin more abrupt descent, bears N.30° E. and S.30° W.

31.15 Bottom of descent,600 ft.below cor.,bears N.30° E.and S. 30° W. Enter valley.

40.00 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ¼ S 6 in N. half, S 7 in S.half; dig pits 18x18x12 ins.E.& W.of post 3 ft.dist.;and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

41.30 Road from Parowan to Rush Lake, bears N.30°E. & S.30° W.

70.00 Wash 30 lks.wide, 4 ft.deep, course S.15° W.

74.80 Road from Cedar to Milford, bears N.and S.

79.54 Intersect W.bdy.of Tp., 1.25 chs.S.0° 28'W.of the cor.of secs.1,6,7 & 12, heretofore described.

Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.6 and 7, mkd.on brass cap

T 34 S in N.half,

Sub.T.34 S., R.10 W.- Continued.

Chains.

C C R 11 W S 1 S 12 in W.half,

R 10 W S 6 in NE.; and

S 7 in SE.quadrants; and raise a mound of stone 2 ft.base, 1½ ft.high E.of cor.

Note: I destroy all marks on the cor.of secs.1,6,7 & 12 which pertain to secs.6 and 7.

Land, mountainous and level.

Soil, sandy and gravelly loam; 2nd rate.

No timber. Undergrowth, sagebrush and shadscale.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth 79.54 chs.

For reasons already explained I run, from the cor.of secs.6 and 7,

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

Descending over mountainous land; through dense undergrowth.

15.80 Begin abrupt descent, bears N.30° E. and S. 30° W.

31.70 Foot of descent, 600 ft.below sec.cor., bears N.30° E. and S.30° W. Enter valley.

40.00 Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ¼ S 6 in W. half, and S 5 in E.half; dig pits 18 x 18 x 12 ins.N. and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

38.40 Road from Parowan to Rush Lake, bears N.30° E.and S.30°W.

81.30 Intersect N.bdy.of Tp. 139 lks.N.89° 48'W.of the cor.of secs.5,6,31 and 32, heretofore described.

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

C C T 33 S R 10 W S 31 S 32 in N.half,

Sub.T.34 S., R.10 W.- Continued.

Chains. R 10 W S 5 in SE.; and

T 34 S S 6 in SW.quadrants; dig pits 24 x 18 x 12 ins.crosswise on each line E.and W.3 ft.; and S.of post 7 ft.dist.; and raise a mound of earth, 4 ft.base, 2 ft. high S.of cor.

Note; I destroy all marks on the cor.of secs.5,6,31 & 32, which pertain to secs.5 and 6.

Land, mountainous on S.31.70 chs.; and level valley on N.50.10 chs.

Soil, on S.31.70 chs., gravelly, 3d rate., and on N. 50.10 chs.it is clay loam, 2 ft.deep, on hard clay subsoil.

No timber. Undergrowth, sagebrush and shadscale.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth 81.90 chs.

April 5, 1911.

John R Stewart

U.S.Transitman.

General Description.

This township occupies the extreme south end of the range of mountains separating Parowan Valley and Rush Lake Valley. On the west there is an abrupt descent from flat ridges and mesas into Rush Lake Valley, of about 800 ft., while on the east the descent into Parowan Valley is more gradual. The general trend of the ridges is N.and S.

The soil is generally sandy or clay loam in the hollows and on the mesas; while on the ridges it is generally gravelly. The greater part of the township is covered with an overflow of black volcanic rock, espedially noticeable on the western edge. The sedimentary rock is a red sandstone.

Cedar and pinon pine timber is quite abundant in

the northeastern part of the township; scattering in the central and southern parts; and none in the western part. Sagebrush is pretty dense all over the township, with patches of shadscales in the lower parts.

There is a small spring, rising in sec.33, but not seen from line, which flows through secs.33,32, and 29, where it sinks again.

There is some fencing in sec.14, and near the cor.of secs.28,29,32, and 33, but no one is living on the land; and I was unable to find out who claimed either place.

There is no mineral in the township.

John R Stewart
Timothy Stewart
U.S.Transitman.

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Page

TRANSITMAN

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

LIST OF NAMES.

A list of the names of the individuals employed by Quinby Stewart, United States ~~Deputy Surveyor~~ Transitman, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivision of Tp.31 S., Rs.6,7 & 8 W.; Tps.32 & 33 S., R.9 W.;and T.34 S.R.10 W. S.L.B.& M., Utah, showing the respective capacities in which they acted:

Maeser Dalley, *Chainman.*

Harvey W.Elliott, *Chainman.*

Alton Ivie, *Moundman.*

, *Moundman.*

Milo Nelson, *Axman.*

, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Quinby Stewart, United States ~~Deputy Surveyor~~ Transitman, in surveying all those parts or portions of the subdivisional lines of Tp.31 S., Rs.6, 7 & 8 W.; Tps.32 & 33 S., R.9 W.; and T.34 S., R.10 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 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.

Maeser Dalley, *Chainman.*

Harvey W Elliott, *Chainman.*

, *Moundman.*

~~Kenneth Clark~~, ~~*Moundman.*~~

Milo Nelson, *Axman.*

, *Axman.*

, *Flagman.*

Subscribed and sworn to before me this 31 day of December, 1910, ~~1900~~

Quinby Stewart
U.S. Transitman

SEAL

6—151

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 ....., 190 , 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 .....

For final oath of transitann see book "Z[12]" T.31 S., R.9 W.

..... 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.

Quimby Stewart
United States Deputy Surveyor

Subscribed by said ....., and sworn to before me this ..... day of ....., 190

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

..... 190

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

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executed by .....

under his contract No. ....., dated ....., 190 , 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.

6—151

FINAL OATHS OF ~~DEPUTY SURVEYO~~TRANSITMAN R AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Quinby Stewart, United States ~~Deputy Surv~~Transitman eyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivision of Tps.31 S.,Rs.6,7 & 8 W.;Tps.32 & 33 S.,R.9 W.; and T.34 S.R. 10 W.S.L.B.& M.,Utah, showing the respective capacities in which they acted:

, *Chainman.*

, *Chainman.*

, *Moundman.*

, *Moundman.*

Alton Svie, ~~Axman.~~ Moundman.

, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

I ~~We~~ hereby certify that ~~we~~ I assisted Quinby Stewart, United States ~~Deputy Surveyor~~ Transitman, in surveying all those parts or portions of the subdivisional lines of Tp.31 S., Rs.6,7 and 8 W.; Tps.32 and 33 S., R.9 W.; and T.34 S., R.10 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 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.*

, *Moundman.*

Alton Svie, Moundman.

, *Axman.*

, *Flagman.*

Subscribed and sworn to before me this 31 day of December, 1910, 190

Quinby Stewart

U.S. TRANSITMAN.

SEAL

6—151

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 _____, 190 , 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 _____

For final oath of transitman see book "Z 12" T.31 S., R.9 W.

_____ 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 _____, 190

_____

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

_____, 190

The foregoing field notes of the survey of _____

executed by _____ under his contract No. _____, dated _____, 190 , 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.

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

LIST OF NAMES.

A list of the names of the individuals employed by John R. Stewart Instrumentman G.L.O., ~~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 Sub.Tp.31 S., Rs.7 and 8 W.; Sub.Tp.32 S., Rs.8 and 9 W.; Sub.Tp.34 S., R.10 W.; Retracement Sub.and W.bdy.T.32 S., R.8 W.; Retracement Sub.Tp.32 S., R.9 W.; and Retracement Sub.Tp.34 S., R.10 W. showing the respective capacities in which they acted:

R.Bert Carter, *Chainman.*

Verne O.Nelson, *Chainman.*

Isaac R.Hayes, *Moundman.*

, *Moundman.*

Ruban W.Riley, *Axman.*

, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John R.Stewart Instrumentman G.L.O., ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the Sub.Tps.31 S., Rs.7 and 8 W.; Sub.Tp.32 S., Rs.8 and 9 W.; Sub.Tp.34 S., R.10 W.; Retracement Sub.and W.bdy.T.32 S. R.8 W.; Retracement Sub.Tp.32 S., R.9 W.; and Retracement Sub.Tp.34 S., R.10 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 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.

R. Bert Carter, *Chainman.*

Verne O. Nelson, *Chainman.*

Isaac R. Hayes, *Moundman.*

, *Moundman.*

Ruban W. Riley, *Axman.*

, *Axman.*

, *Flagman.*

Subscribed and sworn to before me this 31st day of December 1910, ~~190~~

John R Stewart
Instrumentman G.L.O.

SEAL

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For final oath of assistants for 1911 seebook "Z12" T.31 S., R.9 W.

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 ....., 190 , I have well, faithfully, and truly, in my own or per 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 .....

For final oaths of transitmen see book "Z12" T. 31 S., R. 9 W.

..... 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 ....., 190

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, January 7, 1914.

The foregoing field notes of the survey of retracements of the north, south, and west boundaries, and the survey and retracements of the subdivisional lines of Township No. 34 South, Range No. 10 West, of the Salt Lake Base and Meridian, Utah,

executed by John B. Stewart and Quinby Stewart under the Special Instructions dated August 6, 1910, 190 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

[signature]

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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Obs, and N.Bdy.CVP.
Ex.FAS.

Filed Dec.11, 1911.
WSH.

4—679

Y.
BOOK A-386

Trib.

FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT OF THE EAST BOUNDARY

AND

RESURVEY OF THE NORTH AND WEST BOUNDARIES

OF

TOWNSHIP NO.33 SOUTH,

RANGE NO. 10 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

JOHN R.STEWART AND GUIBBY STEWART

In the capacity of U. S. ~~*Surveyor*~~ Transitmen, *under instructions dated* Aug.6, *191* 0, *issued by the United States Surveyor General to govern surveys included in Group No.* 1, *which were approved by the Commissioner of the General Land Office,* Aug.25, *191*0, *pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced March 30, *191*1.

Survey completed April 5, *191*1.

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NAMES AND DUTIES OF ASSISTANTS.

Maeser Dalley,	Chainman.
Harvey W.Elliott,	Chainman.
Milo Nelson,	Moundman.
Kenneth Clark,	Axman.

BOOK A-386

INDEX DIAGRAM.

Township ....., *Range* .....

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BOOK A-386

INDEX DIAGRAM.

Township 33 South, *Range* 10 West

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Meanders Page .....

6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, Maeser Dalley and Harvey W. Elliott

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of E.& W.Bars.T.33 S.R.10 W.; W.& N.Bars.T.32 S.R.10 W.; E.& W.Bars.T.31 S.R.10 W.; and retracement 6th St.Par.S.R.10 W. S.L.B.& M.,Utah.

Maeser Dalley, *Chainman.*

Harvey W Elliott, *Chainman.*

Subscribed and sworn to before me this 30 day of March, 19 11

SEAL

Quimby Stewart
U.S. Transitman

~~We~~ I, Milo Nelson and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of E.& W.Bars.T.33 S.R.10 W.; W.& N.Bars.T.32 S.R.10 W.; E.& W.Bars.T.31 S.R.10 W.; and retracement 6th ST.Par.S.R.10 W.S.L.B.& M.Utah.

Milo Nelson, *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this 30 day of March, 1911

SEAL

Quimby Stewart
U.S. Transitman

~~We~~, I, Kenneth Clark and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of E.& W.Bars.T.33 S.R.10 W.; W.& N.Bars.T.32 S.R.10 W.; E.& W.Bars.T.31 S.R.10 W.; and retracement 6th St.Par.S.R.10 W.S.L.B.& M.utah.

Kenneth Clark, *Axman.*

....., *Axman.*

Subscribed and sworn to before me this 30 day of March, 1911.

SEAL

Quimby Stewart
U.S. Transitman

I, ..., do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

....., *Flagman.*

Subscribed and sworn to before me this ..... day of ....., 19

SEAL

.....

.....

RETRACEMENT E.BDY.T.33 S., R.10 W.

Survey commenced March 30, 1911, and executed with a Keuffel and Esser mountain transit, No.20578, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latittude and declination arcs.

The instrument was examined, tested on the true meridan at Salt Lake City, found correct, and was approved by the Surveyor General for Utah, on March 20, 1911.

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

At the cor.of secs.7,12,13 and 18, heretofore described, lat.37° 57' 19" N.; long. 112° 52' 56" W., I set off 37° 57'N.on the lat.arc; 3° 38'N.on the decl.arc; and at 4h 5m 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 6h 53m p.m.l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs.N.of my station.

March 30, 1911.

March 31, 1911: At 8h 5m a.m.l.m.t., I set off 37° 57' N.on the lat.arc; 3° 54'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 sta-

RETRACEMENT E. BDY. T.33 S., R.10 W.

Chains.

tion.

At 8h 20 m.a.m.l.m.t., I lay off the azimuth of Polaris 1° 28.8' to the E.and mark the meridian thus determined, by cutting a small groove in the stone ~~set in the stone~~ set March 30, on which the meridian falls 0.22 ins.E.of the mark determined by the solar.

The solar apparatus by p.m.and a.m.observations, defines positions for meridians, respectively, about 0' 23" W. and 0' 12" E.of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h 55m a.m. is N.16° 20'W.; the angle thus determined gives the mag.decl. N.16° 20'E.

Note: Before beginning the regular subdivision of this township, I proceed with the retracement of the old lines adjoining the work, as follows:

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

South bet.secs.13 and 18,

40.80 Fall 0.85 chs.E.of $\frac{1}{4}$ sec.cor., which is a quartzite boulder 6 x 6 x 3 ft.above the ground, mkd. (X) on top and $\frac{1}{4}$ on N.face. The marks are almost illegible, and the stone is crumbling; therefore I re-establish this cor.as follows:

Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 13 in W.half, and S 18 in E.half; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.

54.00 Top of ridge, 200 ft.above corner, bears E.and W.

Desc.

74.00 Bottom of swale, 100 ft.below ridge, course S.80° E.

RETRACEMENT EUBDY. T. 33 S., R.10 W.

Chains.

Asc.gradually.

80.62 Fall 1.69 chs.E.of old cor.of secs.13,18,19 and 24, which is a sandstone 18 x 12 x 6 ins.lying loose on the ground. I re-establish corner as follows:

Set an iron post 3 ft.long, 3 ins.in dia., 19 ins.in the ground, on rock, surrounded by a mound of earth and stone, for cor.of secs.13,18,19, and 24, mkd.on brass cap

T 33 S S 13 in NW.

R 9 W S 18 in NE.

S 19 in SE.; and

R 10 W S 24 in SW.quadrants; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

The course of this mile is therefore S.1° 12'W.80.64 chs.

Land, mountainous, sloping easterly.

Soil, sandy loam 2d rate, hard texture.

Subsoil, hard clay.

No timber.

Undergrowth, sagebrush.

Good grass for grazing.

Mountainous land or land covered with timber or brush 80.64 chs.

March 31, 1911: At the noon hour sky overcast, solar observation impossible.

RESURVEY WEST BOUNDARY T.33 S., R.10 W.

Before commencing my resurvey of lines bet.secs.19 and 24, 13 and 18, 7 and 12 and 1 and 6, I deem it necessary to retrace line bet.secs.25 and 30.

I begin at the cor.of secs.25,30,31 and 36, which is a charred post set in mound, as described by the surveyor general, and run

RESURVEY W.BDY.T.33 S., R.10 W.

Chains.

North on a retracement line bet secs.25 and 30;

Gradually ascending, through Cedar Valley.

40.54 Intersect old ¼ sec.cor., which is a charred post in mound, as described by the surveyor general; marks illegible. I destroy it and replace it as follows.

Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ¼ S 25 in W. half, S 30 in E.half; dig pits 18 x 18 x 12 ins.N. and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

81.08 Find remains of old cor., a white sandstone 20 x 14 x 10 ins., loosely set and marks illegible. I destroy all trace of it, and in its place

Set an iron post 3 ft.long, 3 ins.dia., 24 ins.in the ground, for cor.of secs.19,24,25, and 30, marked on brass cap

T 33 S in N.half,

R 10 W S 19 in NE.

S 30 in SE.; and

S 25 in SW.; and W.; and

R 11 W S 24 in NW.quadrants; dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, gradually ascending; somewhat rolling on N.half.

Soil, rich clay loam about 30 ins.deep; subsoil white sand and gravel.

Undergrowth rabbit brush and scattering sage.

Land gently rolling or covered with dense undergrowth 81.08 chs.

North bet.secs.19 and 24,

Over bench land; through sagebrush,

39.61 Old ¼ sec.cor., 10 lks.W.of line, a charred post in mt

RESURVEY N.BDY.T.33 S., R.10 W.

Chains.

mound, as described by the surveyor general. I destroy it, and at

40.00 Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ½ S 24 in W. half, and S 19 in E.half; dig pits 18 x 18 x 12 ins. N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

71.00 Road, bet.Mud Springs and Parowan, bears N.50° W. and S. 60° E.

79.40 Intersect old cor.of secs.13,18,19, and 24,a charred post in mound, as described by the surveyor general. I destroy it, and at

80.00 Set an iron post 3 ft.long, 3 ins.dia., 20 ins.in the ground, on rock, and surrounded by a mound of earth and stone, for cor.of secs.13,18,19, and 24, marked on brass cap

T 33 S in N.half,

R 11 W S 13 in NW.

R 10 W S 18 in NE.

S 19 in SE.; and

S 24 in SW.quadrants; dig pits 18 x 18 x 12 ins. in each sec.5½ ft.dist.; and raise a mound of earth 2 ft.base, 2 ft.high W.of cor.

Land, bench, gently sloping southerly.

Soil, sandy loam, 6 ins.deep,

Subsoil, clay and gravel hard pan.

No timber.

Undergrowth, sage and shadscale.

No grass.

Bench land, covered with sage and shadscale 80.00 chs.

North bet.secs.13 and 18,

Over nearly level bench land; through sage and shad-

Chains.	
	scale brush.
40.00	No trace of old ¼ sec.cor.
	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ¼ S 13 in W.half, and S 18 in E.half; dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
67.00	Ascend to bench, 60 ft.above lower bench, bears E. and W.
79.20	Old cor.25 lks.W.of line,charred post in mound, as described by the surveyor general. I destroy it, and
	Set an iron post 3 ft.long, 3 ins.dia., 24 ins.in the ground, for cor.of secs.7,12,13, and 18, mkd.on brass cap.
	T 33 S in N.half,
	R 11 W S 12 in NW.
	R 10 W S 7 in NE.
	S 18 in SE.; and
	S 13 in SW.quadrants; and raise a mmound of stone 2 ft.base, 1½ ft.high W.of cor.
	Land, nearly level bench, sloping gently to south.
	Soil, sandy loam, well mixed with gravel; 3d rate.
	Subsoil, gravel and clay hard-pan.
	No timber.
	Undergrowth, sage and shadscale. Very little grass.
	Bench land covered with brush 80.00 chs.
	April 3, 1911, at this cor.I set off 5° 07'N.on the decl.arc; and at 0 h 4m p.m.l.m.t., I observe the sun on the meridian; the resulting lat.is 37° 57' which is the proper lat.nearly.
	North on a resurvey line bet.secs.7 and 12,
	Over mesa land; through sagebrush.
25.00	Old road; bears N.70° W. and S.70° E.

Resurvey W.Bdy.T.33 S., R.10 W.

Chains.

40.00 No trace of old ¼ sec.cor.

Set an iron post 3 ft.long, 1 in.in dia., 17 ins.in the ground, to rock, surrounded by a mound of earth and stone, for ¼ sec.cor., mkd.on brass cap ¼ S 12 in W.half, and S 7 in E.half; dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

80.00 No trace of old sec.cor.

Set an iron post 3 ft.long, 3 ins.dia., 19 ins.in the ground, to rock, surrounded by a mound of earth,for cor.of secs.1,6,7, and 12, mkd.on brass cap

T 33 S in N.half,

R 11 W S 6 in NE.

S 7 in SE.; and

S 12 in SW.quadrants; and dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, mesa, sloping S.

Soil, sandy loam, well mixed with gravel; 2d rate.

Subsoil, gravel.

No timber.

Undergrowth, shadscale and sage.

Mesa land, covered with sage 80.00 chs.

North on a resurvey line bet.secs.1 and 6,

Over mesa land; through dense sagebrush.

39.21 Remains of old cor., 62 lks.W.of line; an iron stone 16 x 12 x 8, as described by the surveyor general. I destroy all trace of same, and

Set an iron post 3 ft.long, 1 in.in dia., 21 ins.in the ground, to bed rock, and surrounded by mound of earth and stone, for ¼ sec.cor., mkd.on brass cap ¼ S 1 in W.half; and S 6 in E.half; dig pits 18 x

Resurvey W.Bdy.T.33 S., R.10 W.

Chains.	
	18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
80.00	Set temp.cor.for Tps.32 and 33 S., Rs.10 and 11 W.
87.14	No trace of old cor.
	Temporary corner afterward made permanent at 83.04 chs. in survey of N.bdy.of this Tp.
	Land, mesa, sloping southerly.
	Soil, sandy loam, 2d rate, 12 ins.deep.
	Subsoil, clay.
	No timber.
	Undergrowth, sage.
	A little grass.
	Mesa land, or land covered with brush 87.14 chs.
	April 3, 1911.

April 4, 1911: At 8h 3m a.m.l.m.t., I set off 37° 59' N.on the lat.arc; 5° 27'N.on the decl.arc; and determine a meridian with the solar at the temporary cor. of Tps.32 and 33 S., Rs.10 and 11 W. Thence I run

East on a random line along N.Bdy.of Tp., setting temporary ¼ and sec.cors.at intervals of 40.00 chs., and at 481.33 chs.intersect N.and S.line on E.Bdy.of Tp. 3.04 chs.S.of the cor.of Tps.32 and 33 S., Rs.9 and 10 W., heretofore described.

April 4, 1911.

April 5, 1911: At 8h 3m a.m.l.m.t., I set off 37°59'N. on the lat.arc; 5° 50'N.on the decl.arc; and determine a meridian with the solar at the cor.of Tps.32 and 33 S., Rs.9 and 10 W. Thence I run

West on a true line bet.secs.1 and 36,

Over rolling mountainous country; through heavy sagebrush

Desc.

18.75	Bottom of swale, 45 ft.below cor., course S.70° W., wash

Resurvey N.Bdy.T 33 S., R.10 W.

Chains. in bottom.

Ascend.

40.00 Set an iron post 3 ft.long, 1 in.in dia., 19 ins.in the ground, on rock, surrounded by a mound of earth and stone, for ¼ sec.cor., mkd.on brass cap ¼ S 36 in N.half, and S 1 in S.half; and raise a mound of stone, 2 ft.base, 1½ ft.high N.of cor.

41.70 Top of ridge, 100 ft.above swale, bears N.and S.

Desc.

65.50 Bottom of swale, 75 ft.below ridge, course S.

Ascend.

66.00 Enter heavy cedar and pinon pine timber, bears N.and S.

80.00 200 ft.above swale, on N.point of Long Hill,

Set an iron post 3 ft.long, 3 ins.in dia., 20 ins.in the ground, to bed rock, surrounded by a mound of earth and stone for cor.of secs.1,2,35, and 36, mkd. on brass cap

T 32 S S 35 in NW.

R 10 W S 36 in NE.

S 1 in SE.; and

T 33 S S 2 in SW.quadrants; from which

A cedar, 6 ins.in dia., bears N.84° 30'E. 41 lks. dist., mkd. T 32 S R 10 W S 36 B T

A cedar 5 ins.dia.bears SE.13 lks.dist., mkd. T 33 S R 10 W S 1 B T

A cedar, 10 ins.dia., bears SW. 60 lks.dist., mkd.T 33 S R 10 W S 2 B T

A cedar, 8 ins.dia., bears N.75° W. 34 lks.dist. mkd.T 32 S R 10 W S 35 B T

Land, rolling mountainous.

Soil, sandy loam, 18 ins.deep; 2d rate.

Subsoil, gravel.

Timber, cedar and pinon pine.

Undergrowth, sage.

Resurvey N.Bdy.T.33 S. R.10 W.

Chains.	
	Good grass for grazing.
	Mountainous land, or land covered with heavy timber 80.00 chs.
	I found no trace of old $\frac{1}{4}$ or sec.cors.on this mile.

West bet.secs.2 and 35,

	Over mountainous land; through cedar and pinon pine timber and dense sagebrush. Desc.
23.50	Foot of descent, bearing NE. and SW.
	Enter mesa, bears NE. and SW.
	Leave timber, bearing NE. and SW.
39.50	Wash in hollow, 40 lks.wide, 20 ft.deep, course SW. Asc.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 35 in N. half, and S 2 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 $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.
	Found no trace of old $\frac{1}{4}$ sec.cor.
49.00	Top of ridge, 30 ft.above hollow. bears N.15° E. and S. 15° W. Desc.
61.50	Bottom of swale, 30 ft.below ridge, course S.35° W. Ascend.
66.50	Top of ridge, 40 ft.above swale, bears N.30° E. and S. 30° W. Desc.
78.40	Bottom of swale, 40 ft.below ridge, course S.20° W. Asc.
80.00	Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of secs.2,3,34, and 35, mkd.on brass cap T 32 S S 34 in NW. R 10 W S 35 in NE. S 2 in SE.; and

Resurvey N.bdy.T.33 S., R.10 W.

Chains.	
	T 33 S S 3 in SW.quadrants; and raise a mound of stone, 2 ft.base, 1½ ft.high W.of cor.
	Land, mountainous, sloping and draining SW.
	Soil, clay loam, medium texture.
	Subsoil, gravel and clay hardpan.
	Timber, cedar and pinon pine.
	Undergrowth, sage,
	Good grass for grazing.
	Mountainous land or land covered with heavy timber
	80.00 chs.
	I found no trace of old sec.cor.
	West bet.secs.3 and 34,
	Over rolling mountainous land; through dense sagebrush. Asc.
38.00	Top of ridge, 40 ft.above cor., bears N.10° E. and S. 10° W. Desc.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 21 ins.in the ground, to solid rock, surrounded by a mound of earth and stone, for ¼ sec.cor., mkd.on brass cap ¼ S 34 in N.half; and S 3 in S.half; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
48.00	Old road, bearsNW30° E. and S.20° W.
54.00	Desc.abruptly, bears N.30° E. and S.30° W.
62.50	Foot of descent, bears N.30° E. and S.30° W.
67.40	Wash, 100 ft.wide, 8 ft.deep, 300 ft.below bench,course S.30° W. Asc.
76.00	Top of spur, 130 ft.above wash, bears NW. and SE. Desc.
80.00	Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of secs.3,4,33, and 34, mkd.on brass cap
	T 32 S S 33 in NW.
	R 10 W S 34 in NE.

Resurvey North Bdy.T.33 S., R.10 W.

Chains.	
	S 3 in SE.; and.
	T 33 S S 4 in SW.quadrants; from which
	A cedar 8 ins.dia. bears N.84° 15'E. 75 lks.dist. mkd.T 32 S R 10 W S 34 B T
	A cedar, 12 ins.dia., bears N.56° 30'W. 59 lks. dist., mkd.T 32 S R 10 W S 33 B T.
	No other bearing trees within limits; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	I found no trace of old ¼ or sec.cors.
	Land, rolling, mountainous; sloping and draining south-westerly.
	Soil, sandy loam, 16 ins.deep, well mixed with small cobble rocks.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land, or land covered with timber 80.00 chs.
	April 5, 1911: At this cor.I set off 5° 53'N.on the decl. arc; and at 0 h 3m p.m.l.m.t., observe the sun on the meridian; the resulting lat.is 37° 59'N.which is the proper lat.nearly.
	West bet.secs.4 and 33,
	Over rolling mountainous land; through sagebrush.
	Desc.
.50	Bottom of hollow, 30 ft.below cor., course SE.
	Asc.
23.00	Top of ridge, 300 ft.above hollow, bears N.20° W. and S.20°E.
	Desc.
28.80	Bottom of swale, 300 ft. below ridge, course SE.
	Asc.

Resurvey N.Bdy.T.33 S.; R.10 W.

Chains.	
40.00	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ¼ S 33 in N. half, and S 4 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 N.of cor.
40.50	Top of flat ridge, 100 ft.above swale, bears N.20° W. and S.20° E.
	Desc.
54.50	Bottom of swale, 60 ft.below ridge, course S.10° W.
	Asc.
66.80	Top of ridge, 75 ft.above swale, bears N.and S.
	Desc.
76.20	Bottom of swale, 60 ft.below ridge, course S.20° W.
	Asc.
80.00	Set an iron post 3 ft.long, 3 ins.dia., 18 ins.in the ground, to solid rock, surrounded by a mound of earth and stone for cor.of secs.4,5,32, and 33, mkd. on brass cap,
	T 32 S S 32 in NW.
	R 10 W S 33 in N.E.
	S 4 in SE.; and
	T 33 S S 5 in SW.quadrants; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	I found no trace of old ¼ and sec.cors.
	Land, mountainous, sloping and draining southerly.
	Soil, sand and clay loam, 1 ft.deep.
	Subsoil, clay and gravel hardpan.
	No timber.
	Good grass for grazing.
	Mountainous land, covered with sagebrush 80.00 chs.

West bet.secs.5 and 32,

Over rolling mountainous land; through dense sagebrush.

Resurvey N.Bdy.T.33 S., R.10 W.

Chains.	
	Ascend.
2.00	Top of ascent; enter flat ridge, bearing N.and S.
13.40	Descent, bears N.and S.
19.50	Bottom of hollow, 150 ft.below ridge, course S.15° W.
	Asc.
38.00	Top of ascent, bearing N.and S.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 16 ins.in the ground, to solid rock, and surrounded by a mound of earth and stone for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 32 in N.half, and S 5 in S.half; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
	I found no trace of old $\frac{1}{4}$ sec.cor.
40.50	Road from Milford to Parowan and Cedar City, bears N. and S.
80.00	Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of secs.5,6,31 and 32, mkd.on brass cap
	T 32 S S 31 in NW.
	R 10 W S 32 in NE.
	S 5 in SE.; and
	T 33 S S 6 in SW.quadrants; and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.
	I found no trace of old sec.cor.
	Land, mountainous, rolling; sloping and draining southerly.
	Soil, sandy loam, well mixed with cobble rock.
	Subsoil, gravel.
	No timber.
	Undergrowth,sage.
	Good grass for grazing.
	Rolling, mountainous land, covered with brush 80.00 chs.

West bet.secs.6 and 31,

Resurvey N.Bdy.T.33 S., R.10 W.

Chains.

Over mesa; through dense sagebrush.

40.00 Set an iron post 3 ft.long, 1 in.in dia., 21 ins.in the ground, to solid rock, surrounded by a mound of earth and stone, for ¼ sec.cor., mkd.on brass cap ¼ S 31 in N.half, and S 6 in S.half; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.

I found no trace of old ¼ sec.cor.

41.15 Bottom of swale, 60 ft.below cor., course S.15° W.

As c.

81.33 Intersect W.bdy.of Tp. 3.04 chs.N.of temp.cor.previously set.

Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of Tps.32 and 33 S., Rs.10 and 11 W. mkd.on brass cap

T 32 S S 36 in NW.

R 10 W S 31 in NE.

T 33 S S 6 in SE.; and

R 11 W S 1 in SW.quadrants; dig pits 24 x 24 x 12 in ins.on each line, N.E., and W.4 ft., and S.of post 8 ft.dist.; and raise a mound of earth 5 ft.base, 2½ ft.high S.of cor.

I destroy the temp.corner.

Land, mesa, sloping gently to the S.

Soil, sandy, well mixed with small pebbles, 18 ins.deep, 2d rate.

Subsoil, clay.

No timber,

Undergrowth, sage.

Good grass for grazing.

Mesa land, covered with dense sage 81.33 chs.

April 5, 1911.

Quimby Stewart

Instrumentman G.L.O.

Boundaries of T.33 S., R.10 W.

Latitudes, Departures, and Closing Errors.

Lines Designated	True Bearing	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
West Bdy.Sec.32,	North	40.30	40.30	.....	.....	.....
West Bdy.Sec,32	N. 0°42'E.	40.67	40.67	.....	50	.....
West Bdy.Sec.29,	N. 0°15'E.	40.17	40.17	.....	.18	.....
West Bdy.Sec.29,	N. 0°13'W.	40.39	40.39	.....	.....	.15
South Bdy.Sec.19	N.89°51'W.	80.53	.21	.....	.....	80.53
W.Bdy.T.33 S.R.10 W.	North	323.04	323.04	.....	.....	.....
N.Bdy.T.33 S.R.10 W.	East	481.33	.....	.....	481.33	.....
E.Bdy.Secs.1 and 12	South	155.50	.....	155.50	.....	.....
E.Bdy.Sec.13,	S. 1°12'W.	80.64	.....	80.62	.....	1.70
S.Bdy.Sec.13	N.89°47'W.	40.10	.15	.....	.....	40.10
S.Bdy.Sec.13	S.89°55'W.	39.87	.....	.17	.....	39.87
E.Bdy.Sec.23	S. 0°10'W.	80.08	.....	80.08	.....	.23
E.Bdy.Sec.26	S. 0°15'W.	40.11	.....	40.11	.....	.17
E.Bdy.Sec.26,	S. 0°49'W.	42.91	.....	42.91	.....	.59
E.Bdy.Sec.35	S. 0°24'W.	86.72	.....	86.71	.....	.60
S.Bdy.Sec.35	West	80.00	.....	.....	.....	80.00
S.Bdy.Sec.34	N.89°56'W.	77.32	.09	.....	.....	77.32
S.Bdy.Sec.33,	N.89°20'W.	79.00	.92	.....	.....	79.00
S.Bdy.Sec.32	N.89°43'W.	40.20	.20	.....	.....	40.20
S.Bdy.Sec.32	N.89°42'W.	41.71	.22	.....	.....	41.71
Convergency					.53	
Totals			486.36	486.10	482.54	482.71
			486.10			482.54
Error in lat. and dep.			.26			.17

For general description see notes of the subdivision of this township.

Linsby Stewart

Instrumentman G.L.O.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....

....., 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 .....

.....

showing the respective capacities in which they acted:

....., *Chainman.*

For list of names and final oath of assistants see book ....., *Chainman.*

"Z 11" T.31 S., R.9 W ....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

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

..... meridian, ... of ....., 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 knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

.....

.....

6—151

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 _____, 190 , 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 _____

For final oath of transitman see book "Z11" T.31 S.R.9 W.

_____ 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 _____, 190

_____

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914

The foregoing field notes of the ~~survey~~ of retracement of East, and resurvey of the North and West Boundaries of Township No.33 South, Range No. 10 West of the Salt Lake Base and Meridian, Utah,

executed by Quinby Stewart under his special instructions dated August 6, 1910, ~~190~~ 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

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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EX.PAS.

Filed Dec.11, 1911.
WSH.

4—670

BOOK A-386

Z

REF.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP 33 SOUTH, RANGE 10 WEST

Of the SALT LAKE BASE AND *Meridian,*

in the State of UTAH

EXECUTED BY

JOHN R.STEWART AND QUINBY STEWART

in the capacity of U. S. ~~Surveyor~~ Transitmen, *under instructions dated* Aug.6, *1910,*

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

Group No. 1, *which were approved by the Commissioner of the General Land*

Office, Aug.25, *1910, pursuant to authority contained in the Act of*

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

Survey commenced March 30, *1911*

Survey completed April 17, *1911.*

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NAMES AND DUTIES OF ASSISTANTS.

Maeser Dalley,	Chainman.
Harvey W.Elliott,	Chainman.
Milo Nelson,	Moundman.
Kenneth Clark,	Axman .

For preliminary affidavits see book "X" T.34 S., R.10 W.

BOOK A-286

INDEX DIAGRAM.

Township ....., *Range* .....

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

BOOK A-386

INDEX DIAGRAM.

Township 33 SOUTH, *Range* 10 WEST

6 27	28 5 37	38 4 73	74 3 72	58 2 57	21 1 19
7 25	26 8 35	36 9 70	71 10 69	56 11 54	18 12 16
18 23	24 17 33	34 16 67	68 15 66	53 14 51	15 13 1
19 13	23 20 31	32 21 63	65 22 62	49 23 48	3 24
30	12 29 10	24 28 43	61 27 42	46 26 40	5 25
31	8 32	11 33	59 34	45 35	7 36

Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of
.....

..... , *Chainman.*

..... , *Chainman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of
.....

..... , *Moundman.*

..... , *Moundman.*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of
.....

..... , *Axman*

..... , *Axman*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

I, ..., do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

..... , *Flagman*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

Retracement Subdivision T. 33 S., R. 10 W.

Chains	
	Survey commenced March 31, 1911, and executed with the instrument described in book "Y" of this survey.
	For complete test of instrument see book "Y" of this survey.
	From the cor. of secs. 13,18,19 and 24 on E. bdy. of Tp., heretofore described, I run
	West on a retracement line bet. secs. 13 and 24.
	Over rough mountainous land; through cedar and pinon pine timber and greasewood undergrowth; ascending abruptly over series of sandstone ledges.
16.30	Top of ridge, 300 ft. above corner, bearing N.30°W. and S.30°E. Desc.
20.00	Bottom of swale, 60 ft. below ridge, course NW. Asc.
40.10	Fall 15 lks. S. of ¼ sec. cor., which is a sandstone 18 x 6 x 5 ins. lying on the ground. I re-establish the corner as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 21 ins. in the ground, on solid rock and surrounded by a mound of earth and stone, for ¼ sec. cor., mkd. on brass cap ¼ S 13 in N. half, and S 24 in S. half; from which
	A cedar 8 ins.dia.,bears N.41°E. 31 lks. dist., mkd. ¼ S 13 B T
	Pinon Pine, 7 ins.dia.,bears S.42°E, 28 lks. dist., mkd. ¼ S 24 B T
46.60	Top of ridge, 200 ft. above swale, bears N. and S. Desc.
59.60	Bottom of swale, 90 ft. below ridge, course N. 15°E. Asc.
73.60	Top of ridge, 200 ft. above swale, bears N. and S. Desc.
79.97	Fall 9 lks. S. of old cor., which is a lime rock 18 x 10 x 6 loosely lying on the ground. The cor. was in

Retracement Subdivision T. 33 S., R. 10 W.

Cosins

bad condition, therefore I re-establish the corner as follows:

Set an iron post 3 ft. long, 2 ins. in dia., 20 ins. in the ground, to bed-rock, surrounded by a mound of earth and stone, for cor. of secs. 13,14,23 and 24, mkd. on brass cap

T 33 S S 14 in NW.

R 10 W S 13 in NE.

S 24 in SE.; and

S 23 in SW. quadrants; from which

A pinon pine, 12 ins. in dia, bears N.87°E. 22 lks. dist., mkd. T 33 S R 10 W S 13 B T

A pinon pine, 8 ins. dia., bears S.46°E. 35 lks. dist., mkd. T 33 S R 10 W S 24 B T

A pinon pine, 10 ins. dia., bears S.58°W. 59 lks. dist., mkd. T 33 S R 10 W S 23 B T

A pinon pine, 8 ins. in dia., bears N.1°W. 9 lks. dist., mkd. T 33 S R 10 W S 14 B T

The course of the E. ¼ of this mile is therefore N.89° 47'W. 40.10 chs.

The course of the W. ¼ is S.89°55'W. 39.87 chs.

Land, mountainous sloping and draining southerly.

Soil, sandy clay loam, 2d rate; medium texture, 12 ins. deep. Subsoil, clay.

Timber, cedar and pinon pine.

Undergrowth, greasewood. No grass.

Mountainous land or land heavily timbered 79.97 chs.

March 31, 1911.

April 1, 1911: At 8h 4m a.m.l.m.t., I set off 38°02'N. on the lat. arc; 4°16'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

South, on a retracement line bet. secs. 23 and 24,

Retracement Subdivision T. 33 S., R. 10 W.

Chains	
	Over rough mountainous land, through heavy cedar and pinon pine timber and sagebrush; descending.
6.00	Bottom of swale, 90 ft. below sec. cor., course S.78°W. Asc.
11.20	Top of spur, 75 ft. above swale, bears E. and W. Desc.
16.40	Bottom of swale, 140 ft. below spur, course NW. for 7 chs.; thence W. Asc.
24.40	Top of spur, 200 ft. above swale, bears N.70°E. and S. 60°W. Desc.
33.75	Bottom of swale, 100 ft. below spur, course N.20°E. Asc.
40.10	Fall 12 lks. E. of ¼ sec. cor., which is a sandstone 18 x 8 x 6 ins., poorly mkd. and witnessed; I destroy all trace of old corner, and in same place, Set an iron post 3 ft. long, 1 in. in dia., 17 ins. in the ground, on rock, and surrounded by mound of earth and stone for ¼ sec. cor., mkd. on brass cap ¼ S 23 in W. half, and 24 in E. half; from which A pinon pine, 12 ins. dia., bears N.16°E. 75 lks. dist., mkd. ¼ S 24 B T A pinon pine, 9 ins. dia., bears S.14°W. 42 lks. dist., mkd. ¼ S 23 B T
52.00	Top of ridge, 150 ft. above swale, bears N.40°E. and S. 40°W. Desc.
62.60	Bottom of swale, 100 ft. below ridge, course S.80°E. Ascend.
65.20	Top of point, 90 ft. above swale. Desc.
71.00	Bottom of swale, 100 ft. below point, course S.85°E. Asc.
73.70	Top of point, 70 ft. above swale, bears N.75°W. and S. 75°E. Desc.
80.08	Fall 23 lks. E. of old cor. of secs. 23,24,25 and 26, which is a sandstone 5 x 10 x 5 ins. above ground, as described by the surveyor general.

Retracement Subdivision T. 33 S., R. 10 W.

Chains	
	I destroy the stone and in its place
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for re-established cor. of secs. 23,24,25 and 26, marked on brass cap
	T 33 S S 23 in NW.
	R 10 W S 24 in NE.
	S 25 in SE., and
	S 26 in SW. quadrants; from which
	A pinon pine, 7 ins. dia., bears N.34°30'E. 39 lks. dist.,mkd.T.33 S R 10 W S 24 B T
	A pinon pine,11 ins.dia.,bears S.48°E. 45 lks. dist.,mkd. T 33 S R 10 W S 25 B T
	A pinon pine,12 ins.dia.,bears S.40°W., 84 lks. dist., mkd. T 33 S R 10 W S 26 B T
	A cedar, 14 ins.dia.,bears N.89°W. 22 lks. dist., mkd. T 33 S R 10 W S 23 B T
	The course of this mile is therefore S.0°10'W. 80.08 chs.
	Land, mountainous, sloping and draining southeasterly.
	Soil, sandy, well mixed with small sandstone cobbles; 2d rate; 14 ins. deep.
	Subsoil, sandstone formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Small patches of grass.
	Mountainous land, covered with heavy timber 80.08 chs.
	South on retracement line bet.secs. 25 and 26,
	Over rough moungainous land; through heavy cedar and pinon pine timber and sage and mahogany brush. Desc.
20.00	Bottom of swale, 160 ft. below cor., course SE. Asc.
25.65	Top of ridge, 90 ft. above swale, bears NW. and SE. Desc.

Retracement Subdivision T. 33 S., R. 10 W.

Chains	
33.00	Head of swale, 120 ft. below ridge, course S.70°E.
	Asc.
40.11	Fall 18 lks. E. of old ¼ sec. cor., which is a cedar tree 8 ins. in dia., as described by the surveyor general. The tree being dead, I destroy the marks, and re-establish the ¼ sec. cor. as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 26 in W. half, and S 25 in E. half; from which
	A pinon pine, 10 ins. in dia., bears S.27°E. 22 lks. dist., mkd. ¼ S 25 B T
	A pinon pine, 10 ins. dia., bears S.34°W. 20 lks. dist., mkd. ¼ S 26 B T
42.75	Top of ridge, 120 ft. above swale, bears N.50°W. and S. 50°E.
	Desc.
50.00	Bottom of swale, 120 ft. below ridge, course S.50°E.
	Asc.
55.50	Top of ridge, 100 ft. above swale, bears NW. and SE.
	Desc. abruptly.
62.60	Bottom of swale, 150 ft. below ridge, course S.70°E.
	Asc.
68.80	Top of ridge, 150 ft. above swale, bears N.75°W. and S. 75°E. Leave timber, bears E. and W.
	Desc.
82.00	Fall 78 lks. E. of old cor., which is a sandstone 18 x 7 x 6 ins. as described by the surveyor general, but lying loosely on the ground. I destroy all trace of the old cor., and re-establish it as follows:
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36, mkd. on brass cap
	T 33 S S 26 in NW.
	R 10 W S 25 in NE.
	S 36 in SE. and
	S 35 in SW. quadrants; and raise a

Retracement Subdivision T. 33 S., R. 10 W.

Chains	
	mound of stone 2 ft. base, 1½ ft. high W. of cor.
	The course of the N. ½ of this mile is, therefore S.0° 15'W. 40.11 chs.; and the S ½ is S.0°49'W. 42.91 chs.
	Land, mountainous, sloping easterly.
	Soil, sandy clay; 3d rate. Subsoil, hard clay and sand.
	Timber, cedar and pinon pine.
	Undergrowth, sage and mahogany.
	Mountainous land, or land covered with heavy timber 80.02 chs.
	South on retracement line bet. secs. 35 and 36,
	Over mountainous land; through sagebrush. Ascending.
10.20	Top of ridge, 50 ft. above cor., bears N.80°E. and S. 80°W. Desc.
22.20	Foot of descent, 200 ft. below ridge.
22.70	Old road bears N.80°E. and S.80°W.
23.65	Edge of Little Salt Lake, bears N.80°W. and S.80°E.
30.75	Road from Parowan to Milford, bears E. and W.
31.70	Ascend, bearing E. and W.
46.22	Fall 32 lks. E. of old ¼ sec. cor., which is a red sandstone 15 x 10 x 3 ins. as described by the surveyor general; loosely set and poorly mkd. I destroy all trace of the old corner, and re-establish it as follows:
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 35 in W. half, and S 36 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
55.60	Top of point, 200 ft. above lake, bears N.80°E. and S. 80°W. Desc.
86.72	Fall 60 lks. E. of cor. of secs. 1,2,35 and 36, on S. bdy. of Tp., as re-established under this assignment, and heretofore described.
	The course of this mile is therefore S.0°24'W. 86.72 chs.

Retracement Subdivision T. 33 S., R. 10 W.

Chains	
	Land, mountainous; sloping and draining easterly.
	Soil, sandy, well mixed with small cobble rock.
	Subsoil, gravel.
	No timber.
	Undergrowth sagebrush.
	Good grass for grazing.
	Mountainous land, or land covered with undergrowth 86.72 chs.
	April 1, 1911.
	April 8, 1911: At 8h 2m a.m.l.m.t., I set off 37°54'N. on the lat. arc; 6°58'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., re-established under this assignment, and heretofore described.
	Thence I run
	North on a retracement line bet. secs. 31 and 32,
	Over nearly level valley land; through shadscale brush.
29.00	Wash, 30 lks. wide, course SW.
40.30	Intersect remains of old ¼ sec. cor., a piece of charred post lying loose on the ground. I destroy it and re-establish the ¼ sec. cor. as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 31 in W. half, and S 32 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
56.40	Wash 20 lks. wide, 2 ft. deep, course SW.
80.96	Fall 49 lks. W. of old cor., which is an iron stone 16 x 10 x 8 ins., as described by the surveyor general, but lying loose on the ground. I re-establish this cor. as follows:
	Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground to bed rock, and surrounded by mound of earth and stone, for cor. of secs. 29,30,31 and 32,

Retracement Subdivision T. 33 S., R. 10 ".

Chains	
	mkd. on brass cap T 33 S S 30 in NW. R 10 W S 29 in NE. S 32 in SE.; and S 31 in SW. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. The course of the S.½ of this mile is, therefore N.40. 30 chs., and the N.½, N.0°42'E. 40.67 chs. Land, nearly level valley, with a very gentle slope to the SW. Soil, rich sandy loam, 6 ft. deep; 1st rate; soft texture. Subsoil, gravel and clay. No timber. Undergrowth, shadscale.
	East on a retracement line bet. secs. 29 and 32, Over nearly level valley; through shadscale and sage-brush.
34.10	Wash, 20 lks. wide, 2 ft. deep, course S.60°W.
40.10	Fall 15 lks. N. of old ¼ sec. cor., which is an iron stone 16 x 8 x 7 ins. as described by the surveyor general. The marks are almost invisible; I therefore destroy all trace of this old ¼ sec. cor., and re-establish it in same place as follows: Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 29 in N. half, and S 32 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 N. of cor. The course of this half-mile is therefore S.89°47'E. 40.10 chs. I proceed to complete the survey of this line as follows

Retracement Subdivision T. 33 S., R. 10 W.

Chains	
	East on true line bet.secs.29 and 32, from re-est. ¼ sec. cor.
	Over level valley land; through sage and shadscale under-growth.
9.45	Wash, 40 lks. wide, 3 ft. deep, course S.38°W.
14.40	Road from Rush Lake to Parowan bears N. and S.
28.70	Ascend, bearing N.65°E. and S.
30.50	Top of ascent; enter bench.
40.00	Set temp. cor. for secs. 28,29,32 and 33. This cor. afterward made permanent at 41.39 chs.
	Land, nearly level valley, with gentle slope to SW.
	Soil, rich sandy loam, 6 ft. deep; 1st rate.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage and shadscale.
	No grass.
	S.0°02'E. on random line bet. secs. 32 and 33,
40.00	Set temp. ¼ sec. cor.
81.29	Intersect S. bdy. of Tp. 1.39 chs. N.89°42'W. of cor.of secs. 32 and 33, heretofore described.
	The falling being out of limits, I begin at the cor. of secs. 32 and 33, and run
	N.0°02'W. on a true line bet.secs. 32 and 33.
	Over rough mountainousland; through cedar and pinon pine timber; ascending.
20.10	Top of ridge, 350 ft. above cor., bears N.10°E. and S. 20°W. Desc. abruptly.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 32 in W. half, and S 33 in E. half; and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
45.00	Leave timber, bears NE. and SW.
59.00	Foot of descent bears N.20°E. and S.20°W.
	Enter bench land.

Retracement Subdivision T. 33 S., R. 10 W.

Chains	
75.60	Wash, 15 lks. wide, 2 ft. deep, course SW.
81.29	Fall 1.39 chs. E. of temp. cor. of secs. 28,29,32 and 33, which I now destroy, and at this point
	Set an iron post 3 ft. long, 2 ins. in dia., 21 ins. in the ground to bed rock, surrounded by mound of earth and stone for cor. of secs. 28,29,32 and 33, mkd. on brass cap,
	T 33 S S 29 in NW.
	R 10 W S 28 in NE.
	S 33 in SE.; and
	S 32 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, mountainous and steep on S.59.00 chs.; nearly level bench land on N.22.29 chs.
	Soil, sandy loam, well mixed with gravel.
	Timber, cedar and pinon pine.
	Undergrowth sage and shadscale. No grass.
	Mountainous land, covered with heavy timber, or bench land 81.29 chs.
	April 8, 1911: At this cor. I set off 6°55'N. on the decl. arc; and at 0h 2m p.m. l.m.t., I observe the sun on the meridian; the resulting lat. is 37°55'N., which is the proper lat. nearly.
	North on retracement line bet. secs. 29 and 30,
	Over nearly level bench land; through sage and shadscale undergrowth.
24.50	Wash, 15 lks. wide, 8 ft. deep, course S.12°W.
40.17	Fall 17 lks. W. of the old ¼ sec. cor., which is a piece of charred post in mound, as described by the surveyor general. I destroy the post, and in its place
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for re-established ¼ sec. cor., mkd. on brass cap ¼ S 30 in W. half, and S 29 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

Retracement Subdivision T.33 S., R. 10 W.

Chains	
80.56	Fall 2 lks. W. of old cor. which is an iron stone 18 x 9 x 6 ins. as described by the surveyor general, poorly set and marks scarcely visible. I destroy the old cor. and re-establish it as follows:
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 19,20,29 and 30, mkd. on brass cap
	T 33 S S 19 in NW.
	R 10 W S 20 in NE.
	S 29 in SE.; and
	S 30 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	The course of the S. ½ of this mile is therefore N.0°15' E. 40.17 chs.; and the N. ½ is N.0°13'W. 40.39 chs.
	Land, nearly level bench, sloping gently to the south.
	Soil, sandy loam 3 ft. deep; 1st rate.
	Subsoil, gravel and sand.
	No timber.
	Undergrowth, sage and shadscale.
	No grass
	Bench land covered with sage and shadscale 80.56 chs.
	West on retracement line bet. secs. 19 and 30,
	Over bench land; through greasewood.
15.50	Wash 15 lks. wide, 4 ft. deep, course S.
29.60	Road between Cedar and Milford bears N. and S.
40.30	Fall 10 lks. S. of old ¼ sec. cor., which is an old charred post, lying on the ground, answering to description furnished by the surveyor general. I destroy all trace of the old cor., and re-establish it in original place as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 19 in N. half, and S 30 in S. half; and raise a mound of

Retracement Subdivision T. 33 S., R. 10 W.

Chains

stone 2 ft. base 1½ ft. high N. of cor.

80.53 Well 21 lks. S. of old cor. of secs. 19,24,25 and 30, which is a lava stone 18 x 14 x 9 ins. firmly set as described by the surveyor general. The stone is poorly marked; therefore I destroy it, and re-establish the cor. as follows:

Set an iron post 3 ft. long, 3 ins. in dia., 20 ins. in the ground to bed rock, and surrounded by a mound of earth and stone for cor. of secs. 19,24,25 and 30, mkd. on brass cap

T 33 S S 24 in NW.

R 10 W S 19 in NE.

S 30 in SE., and

R 11 W S 25 in SW. quadrants; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

The course of this mile is therefore N.89°51'W. 80.53 chs.

Land, bench.

Soil, sandy. Subsoil, gravel.

No timber.

Undergrowth, greasewood. No grass.

Bench land, or land covered with greasewood undergrowth 80.53 chs.

April 8, 1911.

April 6, 1911: At 8h 3ma.m.l.m.t., I set off 38°02'N. on the lat. arc; 6°13'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 rough mountainous country; through heavy cedar and piñon pine timber and sagebrush. Asc.

Subdivision T. 33 S., R. 10 W.

Chains	
10.00	Top of point 100 ft. above cor., bears N.10°E. and S.10° W. Desc.
24.60	Bottom of swale, 200 ft. below ridge, course W. Asc.
34.50	Top of ridge, 100 ft. above swale, bears NW. and SE. Desc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 17 ins. in the ground to bed rock, surrounded by a mound of earth and stone, for ¼ sec. cor., mkd. on brass cap ¼ S 14 in W. half, and S 13 in E. half; from which A pinon pine, 8 ins. india., bears N.21°30'E. 40 lks. dist., mkd. ¼ S 13 B T A pinon pine, 7 ins. in dia., bears N.53°45'W. 36 lks. dist., mkd. ¼ S 14 B T
49.50	Foot of descent, 200 ft. below ridge, bears N.80°W. and S.80°E.
54.20	Wash, 30 lks. wide, 2 ft. deep, course W. Asc.
62.50	Top of ridge, 150 ft. above wash, bears NW. and SE. Desc.
78.75	Bottom of swale, 120 ft. below ridge, course N.80°W. Asc.
80.00	Set temp. cor. for secs. 11, 12, 13, and 14. This cor. afterward made permanent at 80.55 chs. Land, mountainous, sloping westerly. Soil, sandy clay, well mixed with small pebbles. Subsoil, gravel. Timber, cedar and pinon pine. Undergrowth, sage and mahogany. A little grass. Mountainous land, or land covered with heavy timber or brush 80.00 chs. April 6, 1911: At this cor. I set off 6°16'N. on the decl. arc; and at 0h 3m p.m.l.m.t., I observe the sun on the meridian, the resulting lat. is 37°57'N. which

Subdivision of T. 33 S., R. 10 W.

Chains	
	is the proper lat. nearly.
	East on a random line bet. secs. 12 and 13,
40.00	Set temp. ¼ sec. cor.
81.81	Intersect E. Bdy. of Tp. 55 lks. S. of cor. of secs. 7, 12,13, and 18, heretofore described.
	Thence I run
	West on a true line bet. secs. 12 and 13,
	Over mountainous land; descending through pinon pine and cedar timber, and sagebrush.
17.30	Wash in swale, 20 lks. wide, 1 ft. deep, 100 ft. below cor. course N.80°W.
33.00	Top of ridge, 100 ft. above swale, bears N. and S. Desc.
37.00	Bottom of swale, 100 ft. below ridge, course S.15°E. Asc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 12 in N. half, and S 13 in S. half; from which
	A pinon pine, 12 ins. in dia.,bears N.43°E. 65 lks. dist., mkd. ¼ S 12 B T
	A pinon pine 11 ins.in dia.,bears S.10°E. 45 lks. dist.,mkd. ¼ S 13 B T
43.40	Top of spur, 100 ft. above swale, bears N. and S. Desc.
50.70	Bottom of swale, 50 ft. below spur, course N.10°W. Asc.
60.70	Top of ridge, 60 ft. above swale, bears N.10°E. and S. 35°W. Desc.
71.30	Bottom of swale, 150 ft. below ridge, course NW. Asc.
77.75	Top of ridge, 75 ft. above swale, bears N.60°W. and S. 60°E.
81.81	Fall 55 lks. N. of temp. cor.

Subdivision T. 33 S., R. 10 W.

Chains	
	Set an iron post 3 ft. long, 2 ins. in dia., 22 ins. in the ground to bed rock, surrounded by a mound of earth and stone for cor. of secs. 11,12,13 and 14, mkd. on brass cap
	T 33 S S 11 in NW.
	R 10 W S 12 in NE.
	S 13 in SE., and
	S 14 in SW. quadrants; from which
	A cedar 9 ins.dia.bears N.26°E. 1.36 chs. dist.,mkd. T 33 S R 10 W S 12 B T
	A cedar 7 ins.dia.bears S.64°E. 2.87 chs.dist., mkd. T 33 S R 10 W S 13 B T
	A cedar 10 ins.dia.bears S.11°W. 2.44 chs. dist.,mkd. T 33 S R 10 W S 14 B T
	A cedar 8 ins.dia.bears N.27°W. 232 lks. dist.,mkd. T 33 S R 10 W S 11 B T
	Land, mountainous, with steep slopes.
	Soil, sandy loam, 8 ins. deep.
	Subsoil, gravel and clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	No grass.
	Mountainous land, or land heavily timbered 81.81 chs.
	April 6, 1911.
	April 7, 1911: At 8h 2m a.m.l.m.t., I set off 38°57'N. on the lat. arc; 6°35'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 heavy cedar and pinon pine and sagebrush. Ascending.
4.20	Top of point 100 ft. above cor., bears N.50°W. and S. 50°E.
	Desc.

Subdivision of T. 33 S., R. 10 W.

Chains	
25.10	Leave timber, bears S.70°E. and W.
	Enter dense sagebrush.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec.cor., mkd. on brass cap ¼ S 11 in W. half, and S 12 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
49.60	Hollow, with wash, 25 lks. wide, and 4 ft. deep, 200 ft. below point, course W.
55.60	Wash, 60 lks. wide, 6 ft. deep., course S.70°W.
	Asc.
68.40	Top of ridge, 100 ft. above hollow, bears NE. and SW.
	Desc.
75.00	Enter cedar and pinon pine timber, bears NE. and SW.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 20 ins. in the ground on bed rock, surrounded by mound of earth and stone for cor. of secs. 1,2,11, and 12, mkd. on brass cap T 33 S S 2 in NW. R 10 W S 1 in NE. S 12 in SE.; and S 11 in SW. quadrants; from which A cedar 8 ins.dia.bears N.69°30'E. 11 lks. dist., mkd. T 33 S R 10 W S 1 B T A cedar 10 ins.dia.bears S.32°E. 33 lks. dist.,mkd. T 33 S R 10 W S 12 B T A pinon pine 6 ins.dia.bears S.38°W. 33 lks. dist., mkd. T 33 S R 10 W S 11 B T A cedar 6 ins.dia.bears N.38°W. 90 lks. dist., mkd. T 33 S R 10 W S 2 B T
	Land, mountainous, sloping and draining westerly.
	Soil, sand and gravel; 2d rate.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass for grazing.

Subdivision T. 33 S., R. 10 W.

Chains	
	Mountainous land, heavily timbered or covered with dense undergrowth 80.00 chs.
	April 7, 1911.
	East on a random line bet. secs. 1 and 12,
40.00	Set temp. ¼ sec. cor.
81.89	Intersect.E. Bdy. of Tp. at the cor. of secs. 1,6,7, and 12 heretofore described. Thence I run
	West on a true line bet. secs. 1 and 12,
	Over rolling mountainous land; through heavy cedar and pinon pine timber and sagebrush. Ascending.
1.90	Ridge, 25 ft. above cor. bears NW. and SE.
20.90	Bottom of swale, 180 ft. below ridge, course N. for 5 chs., thence W.
	Asc.
27.90	Top of spur, 60 ft. above swale, bears N. and S. Desc.
41.89	Set an iron post 3 ft. long, 1 in. in dia., 19 ins. in the ground on rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap ¼ S 1 in N. half, and S 12 in S. half; from which
	A pinon pine, 7 ins.dia.,bears N.8°W. 100 lks. dist., mkd. ¼ S 1 B T
	A pinon pine, 6 ins.dia.,bears S.36°W. 119 lks. dist.,mkd. ¼ S 12 B T
44.90	Leave timber, bears N. and SE.
49.60	Bottom of swale, 120 ft. below spur, course SW.
	Asc.
73.90	Top of ridge, 150 ft. above swale, bears NE. and SW.
	Desc.
75.90	Enter cedar and pinon pine timber, bears N.10°E.and SW.
81.89	The cor. of secs. 1,2,11 and 12.
	Land, rolling mountainous; sloping and draining westerly.
	Soil, sand and clay.

Subdivision T. 33 S., R. 10 W.

Chains	
	Subsoil, clay hard-pan.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land, or land heavily timbered 81.89 chs.
	April 7, 1911: At noon hour the sky is overcase, making solar observations impossible.
	Note: From lines previously run I know that I shall not intersect the N. Bdy. of Tp. within limits; therefore I run
	N.0°01'W. on a true line bet: secs. 1 and 2,
	Over rough mountainous land; through heavy cedar and pinon pine timber and sagebrush.
	Desc.
1.05	Ravine 100 ft. below cor., course S.70°W.
	Asc.
12.40	Top of spur, 90 ft. above ravine, bears N.80°E. and S. 80°W. Desc:
17.00	Bottom of hollow, 100 ft. below spur; course W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 16 ins. in the ground, on rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap ¼ S 2 in W. half, and S 1 in E. half; from which
	A cedar 10 ins.dia.bears N.89°E. 6 lks. dist., mkd. ¼ S 1 B T
	A pinon pine, 8 ins.dia.,bears S.42°W. 70 lks. dist., mkd. ¼ S 2 B T
73.40	Top of Long Hill, 400 ft. above hollow, bears N.30°E. and S.30°W.
75.48	Intersect N. Bdy. of Tp. 1.98 chs. W. of cor. of secs. 1, 2,35, and 36, heretofore described.
	Set an iron post 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on rock, surrounded by a mound of earth and stone for cor. of secs. 1 and 2, mkd. on brass cap

Subdivision T. 33 S., R. 10 W.

Chains

C C T 32 S R 10 W S 35 S 36 in N.half,
S 1 in SE., and
T 33 S S 2 in SW.quadrants; from which
A pinon pine, 14 ins.dia.,bears S,17°E. 64
lks. dist., mkd. T 33 S R 10 W S 1 BT
A pinon pine,9 ins.dia.bears S.9°W. 34 lks.
dist., mkd. T 33 S R 10 W S 2 B T

I destroyed all marks on the cor. of secs. 1,2,35 and 36 pertaining to secs. 1 and 2.

Land, mountainous, sloping and draining southwesterly.

Soil, sandy, well mixed with small pebbles.

Subsoil, gravel.

Timber, cedar and pinon pine.

Undergrowth, sage.

Good grass for grazing.

Mountainous land, heavily timbered 75.48 chs.

April 7, 1911.

April 12, 1911: At 8h 1m a.m.l.m.t., I set off 37°56'N. on the lat. arc; 8°27'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19,20,29, and 30. Thence I run

N.0°03'W. bet. secs. 19 and 20.

Over bench land, through sagebrush.

37.25 Road from Mud Spring to Parowan, bears N.60°W. and S. 60°E.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 19 in W. half, and S 20 in E. half; and dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on solid rock, surrounded by a mound of earth and stone, for cor. of secs. 17,18,19, and 20, mkd. on brass cap

Subdivision T.33 S., R. 10 W.

Chains	
	T 33 S S 18 in NW.
	R 10 W S 17 in NE.
	S 20 in SE.; and
	S 19 in SW.quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, nearly level bench.
	Soil, sandy; subsoil, gravel.
	No timber. Undergrowth sage.
	April 12, 1911.
	N.89°51'W. on a random line bet. secs. 18 and 19,
40.00	Set temp. ¼ sec. cor.
80.52	Intersect W. Bdy. of Tp. 2 lks. S. of cor. of secs. 13, 18,19 and 24, heretofore described.
	Thence I run
	S.89°50'E. on a true line bet.secs. 18 and 19.
	Over bench land; through sage.
40.52	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 18 in N. half, and S 19 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 3 ft. base, 1½ ft. high N. of cor.
46.00	Wash, 20 lks. wide, course S.10°E.
69.60	Road from Cedar to Milford bears N. and S.
80.52	The cor. of secs. 17,18,19, and 20.
	Land, bench, sloping gently to the south.
	Soil, sandy loam, 2 ft. deep, 1st rate; soft texture.
	Subsoil, gravel.
	No timber, Undergrowth, sage.
	A little grass.
	Bench land, covered with sagebrush 80.52 chs.
	N.0°03'W. bet. secs. 17 and 18,

Subdivision T. 33 S., R. 10 W.

Chains	
	Over mesa; through sagebrush.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 18 in W. half, and S 17 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
41.40	Road from Parowan to Milford bears N.10°W. and S.10°E.
52.90	Road from Milford to Parowan and Cedar, bears N.10°E. and S.10°W.
60.00	Begin ascent, bears E. and W.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 7,8,17, and 18, mkd. on brass cap T 33 S S 7 in NW. R 10 W S 8 in NE. S 17 in SE.; and S 18 in SW. quadrants; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, bench, sloping gently to the south.
	Soil, sand, well mixed with pebbles.
	Subsoil, gravel hard-pan.
	No timber.
	Undergrowth, sage.
	Very little grass.
	Mesa land, or land covered with dense sage 80.00 chs.
	April 12, 1911: At this cor. I set off 8°30'N. on the decl. arc; and at 0 h 1m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 37°57'N., which is the proper lat. nearly.

	N.89°50'W. on a random line bet. secs. 7 and 18,
40.00	Set temp. ¼ sec. cor.
80.40	Intersect W. Bdy. of Tp. 2 lks. S. of cor. of secs. 7, 12,13, and 18, heretofore described.
	Thence I run

Subdivision T. 33 S., R. 10 W.

Chains

S.89°49'E. on true line bet. secs. 7 and 18,

Over mesa; through heavy sagebrush.

28.00 Old road, bears NW. and SE.

31.50 Descent, bears N.20°W. and S.20°E.

32.40 Wash, 20 lks. wide, 2 ft. deep, course S.20°E.

Ascend.

39.00 Top of ascent, bearing N.20°W. and S.20°E.

40.40 Set an iron post 3 ft. long, 1 in. in dia., 17 ins. in the ground, on rock, surrounded by a mound of earth and stone, for ¼ sec. cor., mkd. on brass cap ¼ S 7 in N. half, and S 18 in S. half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

80.40 The cor. of secs. 7,8,17 and 18.

Land, mesa, gently sloping to the south.

Soil, sand and gravel, 8 ins. deep. Subsoil, gravel and clay hard-pan.

No timber. Undergrowth, sage.

No grass.

Mesa land, covered with sagebrush 80.40 chs.

N.0°03'W. bet. secs. 7 and 8,

Over mesa; through dense sagebrush.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 19 ins. in the ground, on rock, surrounded by a mound of earth and stone, for ¼ sec. cor., mkd. on brass cap ¼ S 7 in W. half, and S 8 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

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

T 33 S S 6 in NW.

R 10 W S 5 in NE.

S 8 in SE.; and

S 7 in SW.quadrants; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of

Subdivision T. 33 S., R. 10 W.

Chains	
	earth 4 ft. base, 2 ft. high W. of cor.
	Land, mesa, sloping southerly.
	Soil, sand and gravel, mixed; 8 ins. deep.
	Subsoil, clay-gravel-hard-pan.
	No timber.
	Undergrowth, sage.
	No grass.
	Mesa land, covered with sagebrush 80.00 chs.
	N.89°49'W. on a random line bet.secs. 6 and 7,
40.00	Set temp. ¼ sec. cor.
80.40	Intersect W. Bdy. of Tp. 2 lks. N. of cor. of secs. 1, 6,7 and 12, heretofore described.
	Thence I run
	S.89°50'E. on true line bet.secs.6 and 7,
	Over mesa land; through dense sagebrush.
36.60	Wash, 15 lks. wide, 2 ft. deep, course S.20°E.
39.00	Descent, bears NE. and SW. for 10 chs.; thence S.
40.40	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 6 in N. half, and S 7 in S. half; and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
42.20	Wash, 20 lks. wide, 4 ft. deep, in swale, 40 ft. below mesa, course SW. for 10 chs., thence S.
	Ascend.
45.00	Top of ascent; enter mesa, bearing NE. and SW.
56.00	Descent, bears NE. and SW.
60.20	Bottom of swale, 30 ft. below mesa, course SW.
	Ascend.
63.50	Top of ascent, bears NE. and SW.
80.40	The cor. of secs. 5,6,7 and 8.
	Land, rolling mesa, sloping south.
	Soil, sand and clay hard-pan.
	No timber. Undergrowth, sage.
	A little grass.

Subdivision of T. 33 S., R. 10 W.

Chains	
	Rolling mesa land, covered with sagebrush 80.40 chs.
	Note: From calculation of the N. and W. bdrs. of section 6 I know that this line will not fall within limits, so
	I run
	N.0°03'W. on true line bet.secs. 5 and 6,
	Over mesa; through dense sagebrush.
23.60	Descend, bearing NE. and SW.
27.45	Bottom of swale, 75 ft. below mesa, course SW.
	Asc.
40.00	Top of ascent, bearing NE. and SW., 80 ft. above swale.
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 6 in W. half, and S 5 in E. half; and dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3 ft. base, 1½ ft. high W. of cor.
83.20	Intersect N. bdy. of Tp. 1.02 chs. W. of cor. of secs. 5,6,31 and 32, heretofore described.
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 5, and 6, mkd. on brass cap
	C C T 32 S R 10 W S 31 S 32 in N. half,
	T 33 S R 10 W in S. half,
	S 5 in SE.; and
	S 6 in SW. quadrants; dig pits 24 x 18 x 12 ins. crosswise in each line E. and W. 3 ft., and S. of post 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.
	I destroy all marks on old cor. pertaining to secs. 5 and 6.
	Land, mesa, sloping to south.
	Soil, sandy, 12 ins. deep.
	Subsoil, hard gravel formation.

Subdivision T. 33 S., R. 10 W.

Chains	
	No timber.
	Undergrowth, sage.
	A little grass in patches.
	Mesa land covered with sage 83.20 chs.
	April 12, 1911.
	April 13, 1911: At 8h 1m a.m.l.m.t., I set off 37°55' N. on the lat. arc; 8°49'N. on the decl. arc; I determine a meridian with the solar at the cor. of secs. 28, 29,32, and 33.
	Thence I run
	N.0°02'W. bet. secs. 28 and 29,
	Over bench land; through shadscale, greasewood and sagebrush.
2.80	Descent, bears E. and W.
	Leave bench.
5.90	Foot of descent bearing N.80°E. and S.80°W.
26.00	Road from Rush Lake to Parowan, bears N.20°E. and S.20° W.
31.00	Wash, 15 lks. wide, and 4 ft. deep, course SW.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 22 ins. in the ground to bed rock, surrounded by a mound of earth, for ¼ sec. cor., mkd. ¼ S 29 in W. half, and S 28 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft., high W. of cor.
47.70	Wash, 50 lks.wide, 8 ft. deep, course S.30°W.
69.70	Wash, 30 lks. wide, 2 ft. deep, course SW.
75.45	Road from Mud Springs to Parowan bears N.80°W. and S. 80°E.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 21 ins. in the ground, on rock, surrounded by mound of earth and stone for cor. of secs. 20,21,28 and 29, mkd, on brass cap
	T 33 S S 20 in NW.

Subdivision T. 33 S., R. 10 W.

Chains	
	R 10 W S 21 in NE.
	S 28 in SE.; and
	S 29 in SW.quadrants; and raise a mound of stone 2.ft. base, 1½ ft. high W. of cor.
	Land, mesa, slopes to the SW.
	Soil, sandy loam, from 4 to 6 ft. deep, soft texture, 1st rate.
	Subsoil, coarse sand.
	No timber.
	Undergrowth, sage, greasewood and shadscale.
	Grass in patches.
	Mesa or desert land, covered with short brush 80.00 chs.
	Note: From retracement of lines on W. bdy. of sec. 29, I know that this line will fall out of limits, therefore I run
	West on true line bet. secs. 20 and 29,
	Over desert land; through sage, shadscale, and greasewood
10.00	Road from Mud Springs to Parowan bears NW. and SE.
34.40	Wash, 30 lks. wide, 3 ft. deep, course S.20°E.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 17 ins. in the ground, on rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap ¼ S 20 in N. half, and S 28 in S. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
81.52	Fall 81 lks. S. of cor. of secs. 19,20,29 and 30, heretofore described.
	Set an iron post 3 ft. long, 2 ins. in dia., 16 ins. in the ground, on rock, and surrounded by mound of earth and stone for C C. of secs. 20 and 29, mkd. on brass cap
	C C in W half,
	T 33 S S 19 in NW.
	R 10 W S 20 in NE.
	S 29 in SE.; and

Subdivision T. 33 S., R. 10 W.

Chains	
	S 30 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high E. of cor.
	I destroy all marks on the cor. set for cor. of secs. 19, 20, 29, and 30, that pertain to secs. 20 and 29.
	Land, desert, sloping gently to the south.
	Soil, sandy loam from 2 to 4 ft. deep; soft texture; 1st rate.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage, shadscale and greasewood.
	Very little grass.
	Desert land, covered with short brush 81.52 chs.
	April 13, 1911.
	N.0°03'W. bet. secs. 20 and 21.
	Over desert land; through sagebrush.
25.55	Road from Parowan to Milford, bears NW. and SE.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 20 ins. in the ground, surrounded by a mound of earth, for ¼ sec. cor. mkd. on brass cap ¼ S 20 in W. half, and S 21 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
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, mkd. on brass cap
	T 33 S S 17 in NW.
	R 10 W S 16 in NE.
	S 21 in SE.; and
	S 20 in SW. quadrants; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, desert, sloping and draining southerly.
	Soil, sandy loam, from 1 to 2 ft. deep; 2d rate.

Subdivision T. 33 S., R. 10 W.

Chains	
	Subsoil, gravel.
	No timber.
	Undergrowth, sage and shadscale.
	No grass.
	Desert land covered with brush, 80.00 chs.
	Knowing from retracements that this line will not intersect N. and S. line within allowable limits, I run West on true line bet. secs. 17 and 20,
	Over desert land; through sagebrush.
34.30	Wash, 40 lks. wide, 4 ft. deep, course S.30°W.
39.70	Wash, 10 lks. wide, 3 ft. deep, course S.10°W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, surrounded by a mound of earth for ¼ sec. cor., mkd. ¼ S 17 in N. half, and S 20 in S. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3 ft. base, 1½ ft. high W. of cor.
47.55	Road from Parowan to Milford bears NW. and SE.
81.53	Intersect N. and S. line 71 lks. S. of cor. of secs. 17, 18,19 and 20,
	Set an iron post 3 ft. long, 2 ins. in dia., 19 ins. in the ground, surrounded by a mound of earth for C.C. of secs. 17, and 20, mkd. on brass cap C C in W. half, T 33 S S 18 in NW. R 10 W S 17 in NE. S 20 in SE.; and S 19 in SW,quadrants; dig pits 24 x 18 x 12 ins. crosswise in each line N. and S. 3 ft. and E. of post 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high E. of cor.
	Land, level.
	Soil, sandy, 12 ins. deep, well mixed with cobble rock.
	Subsoil, gravel and coarse sand hard-pan.
	No timber. Undergrowth, sagebrush.

Subdivision T. 33 S., R. 10 W.

Chains	
	Very little grass.
	Land covered with sagebrush 81.53 chs.
	April 13, 1911:- At this cor. I set off 8°52'N. on the decl. arc; and at Oh 1m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 37°56'N., which is the proper lat. nearly.
	N.0°03'W. bet. secs. 16 and 17.
	Over desert land; through sagebrush.
40.00	Set an iron post 3 ft. long 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 17 in W. half, and S. 16 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
53.00	Wash, 35 lks. wide, 6 ft. deep, course S.30°W.
61.00	Ascend to bench bearing NE. and SW.
61.50	Bench 30 ft. higher than desert; ascend very gently.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 19 ins. in the ground, on solid rock, and surrounded by a mound of earth and stone for cor. of secs. 8,9,16 and 17, mkd. on brass cap T 33 S S 8 in NW. R 10 W S 9 in NE. S 16 in SE.; and S 17 in SW.quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling; slopes southerly.
	Soil, sandy loam, well mixed with small pebbles.
	Subsoil, gravel and sand.
	No timber.
	Undergrowth, scattering sagebrush.
	A little grass.
	Land covered with sagebrush 80.00 chs.
	For reasons already explained, I run
	West on true line bet. secs. 8 and 17,
	Over bench land; through sagebrush.

Chains	
18.60	Swale, 30 ft. below bench, course S.
32.90	Wash, 15 lks. wide, 3 ft. deep, in swale; course S.15°W.
	Asc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 8 in N. half, and S 17 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 N. of cor.
40.10	Wash, 15 lks. wide, 1 ft. deep, course S.
	Asc. to bench.
64.50	Top of ascent bears N. and S.
75.15	Road from Milford to Parowan and Cedar, bears N. and S.
81.60	Intersect N. and S. line 72 lks. S.0°03'W. of cor. of secs. 7,8,17, and 18.
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 8 and 17, mkd. on brass cap C C in W. half, T 33 S S 7 in NW. R 10 W S 8 in NE. S 17 in SE.; and S 18 in SW.quadrants; dig pits 24 x 18 x 12 ins. crosswise on each line N. and S. of post 3 ft. dist., and E. of post 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high E. of cor.
	I destroy the marks on the cor. set for secs. 7,8,17 and 18 that pertain to secs. 8 and 17.
	Land, bench, sloping to the south.
	Soil, sandy loam, 12 ins. deep.
	Subsoil, cemented gravel hard-pan.
	No timber.
	Undergrowth, sage. No grass.
	Bench land covered with sagebrush 81.60 chs.

N.0°03'W. bet. secs. 8 and 9.

Over rolling bench land; through dense sagebrush.

Subdivision T. 33 S., R. 10 W.

Chains	
40.00	Set an iron post 3 ft. long, 1 in. in dia., 22 ins. in the ground, on rock, and surrounded by a mound of earth and stone, for ¼ sec. cor., mkd. on brass cap ¼ S 8 in W. half, and S 9 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
45.50	Bottom of swale, 25 ft. below bench, course S.30°W.
	Asc. to bench.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 4,5,8 and 9, mkd. on brass cap
	T 33 S S 5 in NW.
	R 10 W S 4 in NE.
	S 9 in SE.; and
	S 8 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling bench, sloping southwesterly.
	Soil, sandy loam, 12 ins. deep; subsoil, gravel hard-pan.
	No timber. No grass.
	Undergrowth, sage.
	Rolling land, covered with sagebrush 80.00 chs.
	For reasons already explained, I run
	West on true line bet. secs. 5 and 8.
	Over rolling mesa; through dense sagebrush. Desc. gradually.
4.50	Bottom of swale, 40 ft. below cor., course SW.
	Asc.
12.00	Top of ascent, bears NE. and SW., 40 ft. above swale.
19.00	Descend, bearing N. and S.
22.80	Bottom of swale, 80 ft. below bench, course SE.
	Asc.
29.00	Top of ascent, 80 ft. above swale, bears N. and S.
37.50	Desc. bears N. and S.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. ¼ S 5 in N. half, and

Chains	
	S 8 in S. half; raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
42.20	Bottom of hollow, 100 ft. below bench, course S.
	Asc.
46.25	Top of ascent, bears N. and S.
61.25	Road from Milford to Parowan and Cedar, bears N.10°E. and S.10°W.
81.71	Intersect N. and S. line 74 lks. S.0°03'W. of the cor. of secs. 5,6,7 and 8, mkd. on brass cap C C in W. half, T 33 S S 6 in NW. R 10 W S 5 in NE. S 8 in SE.; and S 7 in SW. quadrants; dig pits 24 x 18 x 12 ins. crosswise on each line N. and S. of post 3 ft. and E. of post 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high E. of cor.
	I destroy all marks on the cor. set for secs. 5,6,7 and 8, that pertain to secs. 5 and 8.
	Land, rolling bench, sloping S.
	Soil, sandy, well mixed with small pebbles.
	Subsoil, gravel and clay.
	No timber.
	Undergrowth, sage and shadscale.
	Good grass.
	Rolling bench land covered with sagebrush 80.71 chs.
	Note: Knowing from lines already run that I cannot intersect N. bdy. of Tp., within limits, I run N.0°03'W. on true line bet. secs. 4 and 5,
	Over rolling, mountainous land; through dense sagebrush.
	Descending.
6.60	Bottom of swale, 40 ft. below cor., course S.35°W.
	Asc.
15.00	Top of ascent, 60 ft. above swale, bears N.10°E. and S.

Subdivision T. 33 S., R. 10 W.

Chains	
	30°W. Enter broad ridge.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the ground on solid rock, surrounded by a mound of earth for ¼ sec. cor., mkd. on brass cap ¼ S 5 in W. half; S 4 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
52.20	Desc., bearing N.20°E. and S.20°W.
65.00	Bottom of swale, 40 ft. below ridge, course S.10°W.
	Ascend.
83.84	Intersect N. Bdy. of Tp. 66 lks. E. of cor. of secs. 4,5, 32 and 33, heretofore described.
	Set an iron post 3 ft. long, 2 ins. in dia., 21 ins. in the ground, on rock, surrounded by a mound of earth and stone, for closing cor. of secs. 4 and 5, mkd. on brass cap
	C C T 32 S R 10 W S 32 S 33 in N. half,
	T 33 S R 10 W in S. half,
	S 4 in SE.; and
	S 5 in SW.quadrants; raise a mound of stone 2 ft. base, 1½ ft. high S. of cor.
	I destroy all marks on the cor. set for secs. 4,5,32,and 33, that pertain to secs. 4 and 5.
	Land, rolling bench, sloping to the south.
	Soil, sandy loam, mixed with pebbles.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	Very little grass.
	Bench land, or rolling land covered with brush 83.84 chs.
	April 13, 1911.

April 10, 1911: At 8h 2m a.m.l.m.t., I set off 37°55'N. on the lat. arc; 7°42'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25,

Subdivision T. 33 S., R. 10 W.

Chains	
	26,35 and 36.
	Note: Knowing from previous retracements that the S. bdy. of this township is out of allowable limits in both alinement and measurement, I run West on a sectional correction line bet. secs. 26 and 35.
	Over rough mountainous land; through sagebrush. Desc.
1.80	Bottom of swale, 70 ft. below cor., course S.
4.50	Enter cedar and pinon pine timber, bearing N. and S.
15.00	Top of ridge, 100 ft. above swale, bears N.10°W. and S. 10°E. Desc. abruptly.
26.70	Bottom of gulch, 200 ft. below ridge, course S.10°E. Asc. abruptly.
34.48	Top of point, 200 ft. above gulch, bears NE. and SW. Desc. over series of ledges.
40.00	Point on ledge, mkd. with a cross (X) at exact point for ¼ sec. cor.
46.06	Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the ground, on rock, surrounded by a mound of earth and stone for witness ¼ sec. cor., mkd. on brass cap W C ¼ S 26 in N. half, and S 35 in S. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
54.00	Foot of descent, 600 ft. below top of ridge, bearing N. and S. Leave timber, bearing N. and S. Enter flat in mouth of hollow.
70.00	Ascent bears NE. and SW.
72.15	Top of point, 90 ft. above flat, bears NE. and SW. Descend.
76.00	Foot of descent, bearing N. and S., 100 ft. below point.
76.10	Parowan road, bears N. and S.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on rock, surrounded by a mound of earth and stone, for cor. of secs. 26,27,34 and 35, mkd. on brass cap T 33 S S 27 in NW. R 10 W S 26 in NE.

Subdivision T. 33 S., R. 10 W.

Chains	
	S 35 in SE.; and
	S 34 in SW.quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, steep mountainous, with series of high sandstone ledges.
	Soil, sand, from 2 ins. to 2 ft. deep.
	Subsoil, sandstone formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	No grass.
	Mountainous land, or land covered with timber 80.00 chs.
	April 10, 1911.
	April 14, 1911: At 8h 1m.a.m.l.m.t., I set off 37°55' N. on the lat. arc; 9°10'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 26,27,34 and 35.
	Thence I run
	West on sectional correction line bet. secs. 27 and 34.
	Over rough mountainous country; through sagebrush.
2.15	Asc. abruptly, over series of low ledges bearing NE. and S.
13.25	Top of ridge, 600 ft. above cor. bearing N.10°E. and S. 10°W. Desc. abruptly.
32.00	Bottom of hollow, 500 ft. below ridge, course S.10°E. Asc. abruptly.
39.50	Top of ridge, 400 ft. above hollow, bears N. and S. Desc. abruptly.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 20 ins. in the ground, surrounded by mound of earth and stone, (post set to bed rock), for ¼ sec. cor., mkd. on brass cap ¼ S 27 in N. half, S 34 in S. half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

Subdivision T. 33 S., R. 10 W.

Chains	
48.25	Gulch, 300 ft. below ridge, course N.40°W.
	Asc. abruptly.
64.00	Top of ridge, 300 ft. above gulch, bears N.67°W.and S. 67°E. Desc. abruptly.
71.20	Foot of descent 350 ft. below ridge, bears N. and S.
	Enter flat.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 27,28,33, and 34, mkd. on brass cap
	T 33 S S 28 in NW.
	R 10 W S 27 in NE.
	S 34 in SE.; and
	S 33 in SW.quadrants; and dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, steep, mountainous sloping northerly.
	Soil, sandy, well mixed with lava rock.
	Subsoil, sand and lava rock.
	No timber.
	Undergrowth, sage.
	No grass.
	Mountainous land, covered with sagebrush 80.00 chs.

	West on sectional correction line bet.secs.28 and 33
	Over nearly level land; through sage and greasewood undergrowth.
5.00	Wash, 20 lks. wide, 3 ft. deep, course N.
6.75	Wood road, bears N.30°E. and S.30°W.
7.40	Leave field, bearing N. and S.30°W.
	Ascend.
13.50	Knoll on ridge 160 ft. above cor., bearing N.14°E. and S.14°W.
	Descend.
26.40	Bottom of swale, 150 ft. below knoll, course SW.
	Asc.

Subdivision T. 33 S., R. 10 W.

Chains	
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 28 in N. half, and S 33 in S. half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
41.40	Top of ridge 400 ft. above swale, bears NE. and S.60°W. Desc.
54.90	Bottom of swale, 150 ft. below ridge, course N. Asc.
59.70	Top of ridge 200 ft. above swale, bears N.10°E. and S. 10°W. Desc.
65.00	Foot of descent 350 ft. below ridge, bearing N.10°E.and S.10°W. Enter bench.
76.84	Intersect N. and S. line 4.40 chs. N.0°02'E. of cor. of secs. 28,29,32 and 33,

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 28 and 33, mkd. on brass cap

C C T 33 S S 29 in NW.
R 10 W S 28 in NE.
S 33 in SE.; and
S 32 in SW.quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high E. of cor.

I destroy all marks on the cor. set for secs. 28,29,32, and 33, that pertain to secs. 28 and 33.

Land, mountainous E.59.70 chs., sloping easterly and west 17.14 chs. sloping westerly.

Soil, sand and clay loam, well mixed with lava rock.

Subsoil, lava formation.

No timber.

Undergrowth, sage and greasewood.

Good grass for grazing.

Mountainous land covered with sage and greasewood 76.84 chs.

April 14, 1911.

Subdivision T. 33 S., R. 10 W.

Chains	
	Note: Knowing from retracements that the E. Bdy. of secs. 26 and 35 is out of allowable limits, both in alinement and measurement, I run from the cor. of secs. 26,27,34 and 35,
	South on Sectional Guide Meridian bet.secs.34 and 35
	Over steep, mountainous land; through sagebrush.
10.00	Asc. abruptly, bearing NW. and SE.
13.00	Enter cedar and pinon pine timber, bearing E. and W.
35.00	Top of ridge 600 ft. above cor., bears N.60°E. and S.60° W. Descend.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 34 in W. half, S 35 in E. half; from which
	A cedar 10 ins.dia., bears SE. 30 lks. dist., mkd. ¼ S 35 B T
	A cedar 9 ins.dia.,bears S.52°W. 14 lks. dist., mkd. ¼ S 34 B T
58.00	Foot of descent, bears NE. and SW., 400 ft. below ridge.
58.10	Wood road in hollow, road bears NE. and SW., hollow drains NE.
58.20	Ascent bears NE. and SW.
86.69	Intersect S. bdy. of Tp. 58 lks. E. of cor. of secs. 2, 3,34, and 35, heretofore described.
	Set an iron post 3 ft. long, 2 ins. in dia., 19 ins. in the ground on rock, surrounded by a mound of earth and stone for closing cor. of secs. 34 and 35, mkd. on brass cap
	C C T 34 S R 10 W S 2 S 3 in S. half,
	T 33 S R 10 W in N. half,
	S 34 in NW. and S 35 in NE.quadrants; from which
	A pinon pine, 7 ins.dia.,bears N.56°E. 71 lks. dist., mkd. T 33 S R 10 W S 35 B T
	A pinon pine, 7 ins.dia.,bears N.62°W. 135 lks. dist., mkd. T 33 S R 10 W S 34 B T

Subdivision T. 33 S., R. 10 W.

Chains	
	I destroy all marks on old cor. set for secs. 2,3,34, and 35, that pertain to secs. 34 and 35.
	Land, steep, mountainous draining easterly.
	Soil, sandy, mixed with lava rock.
	Subsoil, lava formation.
	Timber, cedar and pinon pine.
	Good grass for grazing.
	Mountainous land, or land heavily timbered 86.69 chs.
	From the cor. of secs. 26,27,34 and 35, I run, for reasons already given,
	North on a Sectional Guide Meridian bet. secs. 26 and 27,
	Over steep, rough mountainous land; through sagebrush.
2.80	Asc. abruptly, bearing NE. and SW.
9.50	Top of spur 250 ft. above cor., bearing NE. and SW. Desc. abruptly.
15.19	Foot of descent, 250 ft. below point, bearing E.and W.
16.90	Parowan road, bears E. and W.
22.95	Asc. abruptly, bearing E. and W.
28.30	Top of point, 400 ft. above foot of descent, bears NE. andSW. Desc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 27 in W. half, and S. 26 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
40.20	Bottom of hollow, 300 ft. below ridge, course S.35°W. Asc.
45.00	Enter cedar and pine timber, bears E. and W.
61.00	Top of ridge 400 ft. above hollow, bears NE. and SW. Desc.
80.00	400 ft. below top of ridge,
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 22,23,26, and 27, mkd. on brass cap

Subdivision T. 33 S., R. 10 W.

Chains	
	T 33 S S 22 in NW.
	R 10 W S 23 in NE.
	S 26 in SE.; and
	S 27 in SW.quadrants; from which
	A pinon pine,8 ins.in dia.,bears N.67°E. 56 lks. dist.,mkd. T 33 S R 10 W S 23 B T
	A pinon pine,12 ins.in dia.,bears S.68°E. 96 lks. dist.,mkd. T 33 S R 10 W S 26 B T
	A pinon pine,15 lks. in dia.,bears S.13°W. 202 lks. dist.,mkd. T 33 S R 10 W S 27 B T
	A pinon pine, 8 ins.dia.,bears N.24°W. 69 lks. dist.,mkd. T 33 S R 10 W S 22 B T
	Land, mountainous, steep slopes.
	Soil, sand and clay.
	Subsoil, sandstone formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage and mahogany.
	Good grass for grazing, on N. slopes.
	Mountainous land, or land heavily timbered 80.00 chs.
	April 10, 1911: At this cor. I set off 7°46'N. on the decl. arc; and at Oh 2m p.m.l.m.t., I observe the sun on the meridian; the resulting lat. is 37°56'N. which is the proper lat. nearly.
	Note: Knowing from retracements previously made that I cannot intersect the N. and S. line within allowable limits, I run
	East on a true line bet. secs. 23 and 26,
	Over steep mountainous land; through heavy cedar and pinon pine timber and dense sagebrush; ascending abruptly.
5.50	Top of ridge, 350 ft. above cor., bearing N.15°W. and S.15°E. Desc.

Subdivision T. 33 S., R. 10 W.

Chains	
15.00	Bottom of hollow, 190 ft. below top of ridge, course NW. Ascend.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 23 in N. half, S 26 in S. half; from which A pinon pine, 8 ins. in dia., bears N.5°W. 29 lks. dist., mkd. ¼ S 23 B T A pinon pine, 10 ins. in dia., bears S.65°E. 12 lks. dist., mkd. ¼ S 26 B T
46.25	Top of ridge, 200 ft. above swale, bears N.35°E. and S. 35°W. Desc.
55.40	Bottom of swale, 80 ft. below ridge, course S.35°W. Asc.
63.00	Top of ridge 40 ft. above swale, bears N.30°E. and S.30° W. Desc.
80.66	Intersect N. and S. line 3.11 chs. S.0°15'W. of the cor. of secs. 23,24,25, and 26, heretofore described. Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 23 and 26, mkd. on brass cap C C in E. half, T 33 S S 23 in NW. R 10 W S 24 in NE. S 25 in E.; and S 26 in SW. quadrants; from which A pinon pine, 12 ins. dia., bears S.17°W. 112 lks. dist., mkd. T 33 S R 10 W S 26 B T A pinon pine, 12 ins. dia., bears N.47°W. 103 lks. dist., mkd. T 33 S R 10 W S 23 B T I destroy all marks on cor. set for secs. 23,24,25, and 26 that pertain to secs. 23 and 26. Land, mountainous; W.46.25 chs. sloping and draining northwesterly. E.34.41 chs. drains SE. Soil, sand and clay well mixed with Subsoil, clay and gravel. Timber, cedar and pinon pine. Undergrowth, sage.

Subdivision T. 33 S., R. 10 W.

Chains	
	Good grass for grazing.
	Mountainous land, or land heavily timbered 80.66 chs.
	N.0°02'W. bet. secs. 22 and 23,
	Over mountainous land; through heavy cedar and pinon pine timber, and sagebrush. Desc.
1.65	Bottom of swale, 40 ft. below cor., course N.70°W. Asc.
7.80	Top of ridge, 100 ft. above swale, bears N.70°W. and S. 70°E. Asc.
21.90	Bottom of swale 75 ft. below ridge, course NW. Asc.
31.50	Top of ridge, 60 ft. above swale, bears N.70°W. and S. 70°E. Desc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 19 ins. in the ground on rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap ¼ S 22 in W. half, and S 23 in E. half; from which A cedar 10 ins.dia.,bears N.7°E. 153 lks. dist., mkd. ¼ S 23 B T A cedar 10 ins.dia.,bears S.45°W. 21 lks. dist., mkd. ¼ S 22 B T
47.70	Road in hollow 90 ft. below ridge, course W., bears E. Ascend.
61.65	Top of ridge, 100 ft. above hollow, bears N.70°W. and S.70°E. Desc.
65.00	Bottom of swale, 65 ft. below ridge, course N.70°W. Ascend.
71.00	Top of spur, 60 ft. above swale, bears E. and W. Desc.
80.00	Set an iron post 3 ft. long 2 ins. in dia., 24 ins. in the ground for cor. of secs. 14,15,22 and 23, mkd. on brass cap T 33 S S 15 in NW. R 10 W S 14 in NE. S 23 in SE.; and

Subdivision T. 33 S., R. 10 W.

Chains	
	S 22 in SW.quadrants; from which
	A cedar 7 ins.dia.,bears N.28°E. 58 lks. dist.,mkd. T 33 S R 10 W S 14 B T
	A pinon pine,8 ins.dia.,bears S.57°E. 39 lks. dist.,mkd. T 33 S R 10 W S 23 B T
	A pinon pine,14 ins.dia.,bears S.29°W. 38 lks. dist.,mkd. T 33 S R 10 W S 22 B T
	A pinon pine,9 ins.dia.bears N.4°W. 190 lks. dist.,mkd. T 33 S R 10 W S 15 B T
	Land, mountainous, sloping and draining westerly.
	Soil, sandy loam 18 ins. deep.
	Subsoil, clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage. A little grass.
	Mountainous land, heavily timbered 80.00 chs.
	April 10, 1911.
	April 11, 1911: At 8h 1m a.m.l.m.t., I set off 37°56'N. on the lat. arc; 8°5'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, for reasons already explained
	East on a true line bet.secs. 14 and 23,
	Over mountainous land; through heavy cedar and pinon pine timber and sagebrush. Desc.
.50	Bottom of swale, 5 ft. below cor., course N.60°W. Asc.
18.00	Top of ridge, 150 ft. above swale, bears NW. and SE. Desc.
23.80	Bottom of hollow 140 ft. below ridge, course NW. Asc.
35.10	Top of ridge 70 ft. above hollow bears NW. and SE. Desc.
38.95	Bottom of swale, 60 ft. below ridge, course NW. Asc.

Subdivision T. 33 S., R. 10 W.

Chains	
40.00	Set an iron post 3 ft. long 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 14 in N. half, and S 23 in S. half; from which A pinon pine 14 ins.dia.,bears N.40°W. 36 lks. dist., mkd. ¼ S 14 B T A pinon pine,8 ins.dia.,bears S.7°W. 24 lks. dist., mkd. ¼ S 23 B T
49.75	Top of ridge 150 ft. above swale, bears NW. and SE.
	Desc.
67.75	Bottom of hollow, 100 ft. below ridge, course NW.
	Asc.
80.80	Intersect N. and S. line 3.10 chs. S.0°10'W. of cor. of secs. 13,14,23, and 24, heretofore described.
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 14 and 23, mkd. on brass cap C C in E. half, T 33 S S 14 in NW. R 10 W S 13 in NE. S 24 in SE.; and S 23 in SW.quadrants; from which A pinon pine,14 ins.dia.,bears S.89°W.100 lks. dist.,mkd. T 33 S R 10 W S 23 B T A pinon pine,14 ins.dia.,bears N.30°W. 37 lks. dist.,mkd. T 33 S R 10 W S 14 B T
	I destroy all marks on corner set for secs. 13,14,23, and 24, that pertain to secs. 14 and 23.
	Land, mountainous, sloping and draining NW.
	Soil, sandy loam 12 ins. deep.
	Subsoil, gravel and clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage and shadscale.
	A little grass.
	Mountainous land covered with heavy timber 80.80 chs.
	April 11, 1911.

Subdivision T. 33 S., R. 10 W.

Chains	
	N.0°02'W. bet. secs. 14 and 15,
	Over mountainous land, through heavy cedar and pinon pine timber and sagebrush.
.40	Bottom of swale 40 ft. below cor., course N.60°W.
	Ascend.
5.10	Top of ridge 60 ft. above swale, bears N.65°W. and S. 65°E. Desc.
13.00	Bottom of swale 60 ft. below ridge, course S.80°W.
	Asc.
21.00	Leave timber, bears E. and W.
36.00	Top of point 40 ft. above swale, bears E. and W.
	Desc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 15 in W. half, S 14 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
54.70	Foot of descent bears E. and W.
	Enter valley.
55.60	Wash 10 lks. wide, 2 ft. deep, course W.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 10,11,14, and 15, mkd.on brass cap
	T 33 S S 10 in NW.
	R 10 W S 11 in NE.
	S 14 in SE.; and
	S 15 in SW.quadrants; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, S.54.70 chs.mountainous, sloping and draining westerly. N.25.30 chs. desert land, sloping gently to the west.
	Soil, sandy loam, 12 to 18 ins. deep.
	Subsoil, clay or gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.

Subdivision T. 33 S., R. 10 W.

Chains	
	No grass.
	Mountainous land or desert land 80.00 chs.
	For reasons already explained I run
	East on a true line bet. secs. 11 and 14,
	Over desert land; through sagebrush.
10.00	Ascend, bearing NW. and SE.
12.40	Top of spur, 40 ft. above cor., bears NW. and SE.
	Desc.
16.40	Bottom of swale 30 ft. below ridge, course NW.
	Asc.
20.30	Top of spur, 40 ft. above swale, bears NE. and SE.
	Desc.
28.60	Bottom of swale, 35 ft. below spur, course SW.
	Asc.
38.00	Top of spur 30 ft. above swale, bears NW. and SE.
	Desc.
39.50	Bottom of swale 20 ft. below ridge, course N.70°W.
	Asc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the ground, to solid rock, surrounded by a mound of earth for ¼ sec. cor., mkd. on brass cap ¼ S 11 in N. half, and S 14 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 N. of cor.
65.00	Enter cedar and pinon pine timber, bearing N.15°E. and SW.
72.20	Top of ridge 90 ft. above swale, bears NW. and SE.
80.73	Intersect N. and S. line 3.71 chs. S.0°01'E. of cor. of secs. 11,12,13, and 14.
	Set an iron post 3 ft. long 2 ins. in dia., 18 ins. in the ground to solid rock, surrounded by a mound of earth and stone for closing cor. of secs. 11 and 14, mkd. on brass cap
	T 33 S S 11 in NW.

Subdivision T. 33 S., R. 10 W.

Chains	
	R 10 W S 12 in NE. C C S 13 in SE.; and S 14 in SW.quadrants; from which A pinon pine 6 ins.dia.,bears S.49°W. 45 lks. dist., mkd.T 33 S R 10 W S 14 B T A pinon pine,16 ins.dia.,bears N.19°W. 69 lks. dist., mkd. T 33 S R 10 W S 11 B T I destroy all marks on the cor. set for secs. 11,12,13 and 14, that pertain to secs. 11 and 14. Land, mountainous; sloping and draining NW. Soil, sandy loam, 2 ft. deep. Subsoil, clay and gravel. Timber, cedar and pinon pine. Undergrowth, sage. A little grass. Mountainous land or land covered with heavy timber 80. 73 chs. April 11, 1911: At this cor. I set off 8°8'N. on the decl. arc; and at 0h 1m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 37°57'N. which is the proper lat. nearly.
	N.0°02'W. bet. secs. 10 and 11, Over desert land; through dense sagebrush.
32.80.	Wash, 15 lks. wide, 3 ft. deep, course N.80°W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 10 in W. half, S 11 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
44.40	Old road, bears NE. and SW.
48.00	Wash 660 lks. wide, 2 ft. deep, course SW.
80.00	Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 2,3,10, and 11, mkd. on brass cap T 33 S S 3 in NW.

Subdivision T. 33 S., R. 10 W.

Chains	
	R 10 W S 2 in NE. S 11 in SE.; and S 10 in SW.quadrants; dig pits 18 x 18 x 12 ins. in each section, 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, nearly level. Soil, sandy. Subsoil, clay and gravel. No timber. Undergrowth sagebrush. Land covered with dense sagebrush 80.00 chs.
	For reasons already given I run East on a true line bet. secs. 2 and 11, Over desert land; through sagebrush.
30.60	Old road bears N.15°E. and S.15°W. Asc.
38.80	Enter cedar and pinon pine timber, bearing N. and S.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 2 in N. half, and S 11 in S. half; from which A cedar, 9 ins.dia., bears N.40°E. 21 lks. dist., mkd. ¼ S 2 B T A cedar 10 ins.dia., bears S.10°E. 34 lks. dist., mkd. ¼ S 11 B T
53.50	Top of Long Hill, 400 ft. above sec. cor., bears N.20°E. and S.20°W.
72.60	Bottom of swale, 300 ft. below ridge, course S.30°W.
80.68	Intersect N. and S. line 3.72 chs. S. of cor. of secs. 1,2,11, and 12. Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 2 and 11, mkd. on brass cap T 33 S S 2 in NW. R 10 W S 1 in NE. C C S 12 in SE.; and S 11 in SW.quadrants; from which

Subdivision T. 33 S., R. 10 W.

Chains

A pinon pine, 12 ins. dia., bears S.40°W. 36 lks. dist., mkd. T 33 S R 10 W S 11 B T

A pinon pine, 6 ins. dia., bears N.16°26'W. 190 lks. dist., mkd. T 33 S R 10 W S 2 B T

I destroy all marks on the cor. set for secs. 2, 3, 10, and 11, that pertain to secs. 2 and 11.

Land, mountainous and desert.

Soil, sandy loam, well mixed with small pebbles.

Subsoil, clay and gravel.

Timber, cedar and pinon pine.

Undergrowth, sage.

A little grass.

Mountainous or desert land, or land covered with heavy timber 80.68 chs.

For reasons already explained I run

N.0°02'W. bet. secs. 2 and 3, on true line

Over desert land; through sagebrush.

17.50 Wash 100 lks. wide, 10 ft. deep, course SW.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 3 in W. half, and S 2 in E. half; and dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

47.50 Ascend to mesa, bearing N.20°E. and S.20°W.

79.22 Intersect N. Bdy. of Tp. 2.66 chs. W. of cor. of secs. 2, 3, 34 and 35, heretofore described.

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

C C.T 32.S R 10 W S 34 S 35 in N. half,

R 10 W S 2 in SE.; and

T 33 S S 3 in SW. quadrants; dig pits 18 x 18 x 12 ins. crosswise on each line, E. and W, of post 3 ft. and S. of post 7 ft. dist.; and raise a mound of

Subdivision T. 33 S., R. 10 W.

Chains	
	earth 4 ft. base, 2 ft. high S. of cor.
	I destroy all marks on the cor. set for secs. 2,3,34, and 35 that pertain to secs. 2 and 3.
	Land, desert or bench.
	Soil, sandy loam 3 ft. deep; 2d rate.
	Subsoil, gravel and clay.
	No timber.
	Undergrowth, sage.
	A little grass.
	Desert land or mesa, covered with sagebrush 79.22 chs.
	April 11, 1911.
	April 14, 1911: For a.m. obs. see line bet. secs. 27 and 34.
	From the cor. of secs. 27,28,33 and 34, I run S.0°02'E. on true line bet. secs. 33 and 34,
	Over rolling mountainous land; through sagebrush.
8.50	Ascent, bears N.70°W. and S.70°E.
12.00	Enter cedar and pinon pine timber, bearing N.45°W. and S.45°E.
15.25	Top of ridge, 90 ft. above cor., bears NW. and SE.
	Desc.
32.20	Bottom of swale, 65 ft. below ridge, course N.60°W.
	Asc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 17 ins. in the ground, to solid rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap ¼ S 33 in W. half, and S 34 in E. half; from which
	A cedar 9 ins.dia., bears S.88°E. 49 lks. dist., mkd. ¼ S 34 B T
	A cedar 8 ins.dia., bears S.40°W. 103 lks. dist., mkd. ¼ S 33 B T
43.40	Top of spur, 100 ft. above swale, bears NW. and SE.
	Desc.
53.40	Bottom of swale, 45 ft. below ridge, course NW.

Subdivision T. 33 S., R. 10 W.

Chains	
	Asc.
75.80	Top of ridge 150 ft. above swale, bears NW. and SE.
	Descend.
86.53	Intersect S. bdy. of Tp. 2.11 chs. N.89°20'W. of cor. of secs. 3,4,33, and 34, heretofore described.
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 33 and 34, mkd. on brass cap
	C C T 34 S R 10 W S 3 S 4 in S. half,
	T 33 S S 33 in NW., and
	R 10 W S 34 in NE. quadrants; from which
	A cedar, 6 ins. dia., bears N.64°30'E. 227 lks. dist., mkd. T 33 S R 10 W S 34 B T
	A pinon pine, 7 ins. dia., bears N.15°30'W. 59 lks. dist., mkd. T 33 S R 10 W S 33 B T
	I destroy all marks on the cor. originally set for secs. 33 & 34, that pertain to secs. 33 and 34.
	Land, mountainous, sloping westerly.
	Soil, sandy loam, from 1 to 4 ft. deep.
	Subsoil, sandstone formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land, or land heavily timbered 86.53 chs.
	April 14, 1911: At the noon hour the sky is overcast, making solar observations impossible.
	From the cor. of secs. 27,28,33 and 34, I run N.0°02'W. bet. secs. 27 and 28,
	Over rolling mountainous land; through sagebrush.
8.55	Old road, bears NE. and S.30°W.
18.45	Wash, 20 lks. wide, 2 ft. deep, course N.35°E.
	Asc.
29.00	Top of spur, 60 ft. above cor., bears NE. and SW.
	Desc.

Subdivision C. 33 S. R. 10 W.

Chains	
37.50	Foot of descent, 70 ft. below ridge.
	Enter flat, bearing N.80°W. and S.80°E.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 28 in W. half, and S 27 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
43.40	Road from Parowan to Milford, bears N.80°W. and S.80°E.
49.70	Wood road, bears NW. and SE.
	Asc.
60.00	Set an iron post 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on rock, surrounded by a mound of earth and stone for cor. of secs. 21,22,27 and 28, mkd. on brass cap T 33 S S 21 in NW. R 10 W S 22 in NE. S 27 in SE.; and S 28 in SW.quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling, mountainous or flat.
	Soil, in flat sandy and clay mixed, 2 ft. deep; on ridges sandy, 10 ins. deep; 2d rate.
	Subsoil, clay and gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage. No grass.
	Mountainous land or land in flats 60.00 chs.

	East on a random line bet.secs, 22 and 27.
40.00	Set temp. ¼ sec. cor.
60.04	Intersect N. and S. line 5 lks. S. of 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 steep mountainous land; through heavy cedar and pinon pine timber; and through dense sagebrush.
	Desc.

Subdivision T. 33 S., R. 10 W.

Chains	
18.50	Bottom of gulch 120 ft. below cor., course SW. Asc. abruptly.
24.00	Top of ridge 100 ft. above gulch, bearing N.30°E. and S.30°W. Desc. abruptly.
34.55	Bottom of hollow, course S.40°W. 200 ft. below ridge. Asc. abruptly.
40.02	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 22 in N. half, S 27 in S. half; from which A cedar 10 ins.dia., bears N.62°W. 165 lks. dist., mkd. ¼ S 22 B T A cedar 13 ins.dia., bears S.22°E. 127 lks. dist., mkd. ¼ S 27 B T.
47.00	Top of ridge, 200 ft. above hollow, bears NE. and SW. Desc.
57.50	Bottom of hollow 200 ft. below ridge, course SW. Asc.
65.10	Top of ridge 150 ft. above hollow, bears NE. and SW. Desc.
69.90	Bottom of swale 100 ft. below ridge, course S. Leave timber, bears N. and S.
80.04	100 ft. above swale.

The cor. of secs. 21,22,27, and 28.

Land, steep mountainous sloping and draining SW.

Soil, loam, well mixed with cobble rock, 1 ft. deep.

Subsoil, gravel.

Undergrowth, sage.

Good grass for grazing.

Mountainous land, covered with timber 80.04 chs.

Knowing that I will not intersect N. and S. line within allowable limits, I run

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

Over mountainous land; through sagebrush. Desc.

Subdivision T. 33 S., R. 10 W.

Chains	
14.40	Foot of descent, 200 ft. below cor., bearing N.10°W. and S.10°E.
14.50	Wood road, bears N.10°W. and S.10°E.
16.80	Ascent bears N.10°W. and S.10°E.
31.40	Top of ridge, 350 ft. above foot of descent, bearing NE. and S.30°W.
	Desc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. ¼ S 21 in N. half, and S 28 in S. half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
40.30	Foot of descent, 400 ft. below ridge, bearing NE. and SW.
	Enter valley.
57.00	Road from Parowan to Milford bears NW. and SE.
63.30	Wash 70 lks. wide, 6 ft. deep, course S.10°E.
76.83	Intersect N. and S. line 4.46 chs. N.0°03'W. of cor. of secs. 20,21,28 and 29.
	Set an iron post 3 ft. long, 2 ins. in dia., 21 ins. in the ground, on rock, surrounded by a mound of earth and stone for closing cor. of secs. 21 and 28, mkd. on brass cap
	C C T 33 S S.20 in NW.
	R 10 W S.21 in NE.
	S 28 in SE.; and S 29 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high E. of cor.
	I destroy all marks on the cor. set for secs. 20,21,28, and 29, that pertain to secs. 21 and 28.
	Land, mountainous or desert
	Soil, sandy, well mixed with cobble rock.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	No grass.
	Mountainous land, or desert 76.83 chs.
	April 14, 1911.

Subdivision T. 33 S., R. 10 W.

Chains	
	April 15, 1911: At 8h 1m a.m.l.m.t., I set off 37°56' N. on the lat. arc; 9°32'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 21,22,27 and 28. Thence I run
	N.0°02'W. bet. secs. 21 and 22.
	Over mountainous land; through sagebrush.
.50	Top of ridge 10 ft. above cor., bears NE. and SW.
8.30	Descend from ridge, bearing E. and W.
22.90	Bottom of hollow, 200 ft. below ridge, course W.
	Asc.
27.70	Top of ridge, 200 ft. above hollow, bears N.70°E. and S.70°W. Desc.
30.70	Enter cedar and pinon pine timber, bearing E. and W.
36.00	Leave timber, bearing NE. and SW.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 19 ins. in the ground, to solid rock, and surrounded by a mound of earth for ¼ sec. cor., mkd. on brass cap ¼ S 21 in W. half, and S 22 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
40.10	Foot of descent, bearing N.80°E. and S.80°W.
	Enter desert.
51.60	Wash 30 lks. wide, 4 ft. deep, course SW.
53.30	Wood road, bears NE. and SW.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 15,16,21, and 22, mkd. on brass cap
	T 33 S S 16 in NW.
	R 10 W S 15 in NE.
	S 22 in SE.; and
	S 21 in SW.quadrants; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, mountainous, or desert.
	Soil, sandy loam, well mixed with cobble rock.
	Subsoil, gravel and clay.

Subdivision T. 23 S., R. 10 W.

Chains	
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass.
	Mountainous or desert land 80.00 chs.
	N.89°58'E. on a random line bet.secs. 15 and 22,
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line 4 lks. S. of cor. of secs. 14, 15,22 and 23. Thence I run
	West on a true line bet. secs. 15 and 22,
	Over mountainous land; through cedar and pinon pine timber and sagebrush. Desc.
23.30	Bottom of swale, 60 ft. below cor., course NW.
34.70	Top of ridge 60 ft. above swale, bears NW. and SE.
40.01	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 15 in N. half, and S 22 in S. half; from which
	A cedar 8 ins.dia.,bears N.83°E. 283 lks. dist., mkd. ¼ S 15 B T
	A cedar 8 ins.dia.,bears S.24°W. 50 lks. dist., mkd. ¼ S 22 B T
50.00	Leave timber, bears NE. and SE.
61.00	Foot of descent, bears N. and S.
	Enter desert.
68.60	Wood road, bears NE. and SW.
80.02	The cor. of secs. 15,16,21, and 22.
	Land, mountainous or desert.
	Soil, sand and gravel.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous or desert land 80.00 chs.
	For reasons already explained, I run

Subdivision T. 33 S., R. 10 W.

Chains	
	West on true line bet. secs. 16 and 21,
	Over desert land; through sagebrush.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 16 in N. half; S 21 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 N. of cor.
40.10	Wash, 90 lks. wide, 7 ft. deep, course S.15°W.
49.20	Old road, bears N.30°E. and S.30°W.
76.80	Intersect N. and S. line 4.50 chs. N.0°03'W. of the cor. of secs. 16,17,20, and 21.
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 16 and 21, mkd. on brass cap
	C C T 33 S S 17 in NW.
	R 10 W S 16 in NE.
	S 20 in SW.; and
	S 21 in SE.quadrants; dig pits 24 x 18 x 12 ins. crosswise on each line N. and S. of post 3 ft. dist.; and E. of post 7 ft. dist.; and rasie a mound of earth 4 ft. base, 2 ft. high E. of cor.
	I destroy all marks on the cor. set for secs. 16,17,20, and 21, that pertain to secs. 20 and 21.
	Land, desert.
	Soil, sand. Subsoil, clay.
	No timber. Undergrowth, sage.
	No grass.
	Desert land covered with sagebrush 76.80 chs.
	April 15, 1911: At this cor. I set off 9°35'N. on the decl. arc; and at 0h 1m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 37°56'N. which is the proper lat. nearly.

N.0°02'W. bet. secs. 15 and 16,

Over desert land; through dense sagebrush.

Subdivision T. 33 S., R. 10 W.

Chains	
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 16 in W. half, S 15 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
58.00	Wash 60 lks. wide, 4 ft. deep, course SW.
72.00	Ascent bears E. and W.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 9,10,15 and 16.mkd. on brass cap T 33 S S 9 in NW. R 10 W S 10 in NE. S 15 in SE.; and S 16 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, desert sloping southerly.
	Soil, sandy. Subsoil, gravel and clay.
	No timber.
	Undergrowth, sage.
	A little grass.
	Desert land, or land covered with brush 80.00 chs.
	East on a random line bet. secs. 10 and 15,
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 2 lks. N. of the cor. of secs. 10,11,14 and 15. Thence I run
	N.89°59'W. on a true line bet.secs.10 and 15,
	Over desert land; through sagebrush.
33.60	Old road, bears N.30°E. and S.30°W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 10 in N. half, and S 15 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 N. of cor.
66.25	Wash, 20 lks. wide, 2 ft. deep, course SW.

Subdivision T. 33 S., R. 10 W.

Chains	
71.30	Wash, 70 lks. wide, 7 ft. deep, course SW.
73.40	Ascent bears NE. and SW.
80.00	The cor. of secs. 9,10,15 and 16.
	Land, desert, sloping SW.
	Soil, sand 12 to 18 ins. deep.
	Subsoil, clay, hard.
	No timber.
	Undergrowth, sage.
	A little grass.
	Desert land covered with brush 80.00 chs.
	For reasons already explained, I run
	West on a true line bet. secs. 9 and 16,
	Over rolling mesa; through dense sagebrush. Asc.
1.00	Top of ascent, bearing N.30°E. and S.30°W., 10 ft. above cor. Enter bench.
8.10	Old road, bears N.30°E. and S.30°W.
36.40	Desc. bears NE. and SW.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 9 in N. half, S 16 in S. half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
43.50	Foot of descent, 100 ft. below bench, bears NE. and SW.
50.00	Wash 50 lks. wide, 4 ft. deep, course SW.
60.00	Old road bears N.60°E. and SW.
64.00	Asc. bears NE. and SW.
76.80	Intersect N. and S. line 4.53 chs. N.0°03'W. of cor. of secs. 8,9,16 and 17.
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 9 and 16, mkd. on brass cap
	C C T 33 S S 8 in NW.
	R 10 W S 9 in NE.
	S 16 in SE., and
	S 17 in SW. quadrants; and raise a mound of

Chains	
	stone 2 ft. base, 1½ ft. high E. of cor.
	I destroy all marks on the cor. set for secs. 8,9,16 and 17, that pertain to secs. 9 and 16.
	Land, bench and gently rolling.
	Soil, sandy loam, well mixed with small pebbles, 8 ins. deep.
	Subsoil, clay and gravel hard-pan.
	No timber.
	Undergrowth, sage.
	A little grass.
	Land, bench and gently rolling covered with brush 76.80 chs.
	N.0°02'W. bet. secs. 9 and 10,
	Ascending over rolling bench land; through sagebrush.
3.00	Top of ascent, 40 ft. above cor., bearing N.30°E. and S. 30°W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the ground, on rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap ¼ S 9 in W. half, and S 10 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
44.10	Old road, bears N.15°E. and S.15°W.
76.70	Descend bearing N.30°E. and S.30°W.
80.00	30 ft. below bench,
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 3,4,9 and 10, mkd. on brass cap
	T 33 S S 4 in NW.
	R 10 W S 3 in NE.
	S 10 in SE.; and
	S 9 in SW.quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, bench; sloping southwesterly.
	Soil, coarse sand.
	Subsoil, gravel.

Subdivision T. 33 S., R. 10 W.

Chains	
	No timber.
	Undergrowth, sage. No grass.
	Banch land, covered with brush 80.00 chs.
	April 15, 1911.
	April 17, 1911: At 8h 0m a.m.l.m.t., I set off 37°58' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3,4,9 and 10. Thence I run
	S.89°59'E. on a random line bet. secs. 3 and 10,
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 2,3,10 and 11. Thence I run
	N.89°58'W. on true line bet. secs. 3 and 10,
	Over desert land; through sagebrush.
10.00	Wash, 100 lks. wide, 4 ft. deep, course S.35°W.
10.50	Ascend bearing N.35°E. and S.35°W.
30.00	Top of ascent, 100 ft. above flat, bears N.25°E. and S.25°W. Enter mesa.
39.98	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 3 in N. half, and S 10 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 N. of cor.
73.10	Old road bears N.12°E. and S.12°W.
77.40	Descent bears N.20°E. and S.20°W.
79.96	30 ft. below mesa.
	The cor. of secs. 3,4,9 and 10.
	Land, rolling mesa, sloping southerly.
	Soil, sandy loam, well mixed with coarse sand, 18 ins. deep. Subsoil, hard clay and gravel.
	No timber.
	Undergrowth, sage.
	No grass.
	Rolling mesa, covered with sagebrush 79.96 chs.

Subdivision T. 33 S., R. 10 W.

Chains	
	For reasons already explained, I run
	West on a true line bet.secs.4 and 9,
	Over rolling bench land; through dense sage. Desc.
9.00	Foot of descent, 120 ft. below cor., bears N.30°E. and S.30°W.
13.70	Wash, 90 lks. wide, 10 ft. deep, course S.30°W.
17.00	Ascent bears N.30°E. and S.30°W.
37.30	Top of ascent, 300 ft. above foot, bears NE. and SW.
	Enter bench.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 4 in N. half, S 9 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 N. of cor.
75.00	Descend, bearing N.10°E. and S.10°W.
76.76	20 ft. below bench,
	Intersect N. and S. line 4.55 chs. N.0°03'W. of cor. of secs. 4,5,8 and 9.
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 4 and 9, mkd. on brass cap C C in W. half,
	T 33 S S 5 in NW.
	R 10 W S 4 in NE.
	S 9 in SE., and
	S 8 in SW.quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high E. of cor.
	I destroy all marks on the cor. set for secs. 4,5,8 and 9 that pertain to secs. 4 and 9.
	Land, rolling bench, sloping to S.
	Soil, sandy loam, 12 ins. deep.
	Subsoil, clay and gravel.
	No timber.
	Undergrowth, sage.
	No grass.
	Rolling bench land, covered with sagebrush 76.76 chs.

Subdivision T. 33 S., R. 10 W.

Chains	
	For reasons already explained, I run N.0°02'W. on true line bet.secs. 3 and 4,
	Over rolling mountainous country; through dense sage-brush. Desc.
20.50	Foot of descent 200 ft. below cor., bears N.30°E. and S.30°W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap ¼ S 3 in E. half; S 4 in W. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
42.90	Wash, 100 lks. wide, 6 ft. deep, course S.30°W.
64.50	Ascent; bears N.30°E. and S.30°W.
79.34	Intersect N. bdy. of Tp. 2.58 chs. W. of cor. of secs. 3,4,33 and 34, heretofore described.
	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 3 and 4, mkd. on brass cap
	C C T 32 S R 10 W S 33 S 34 in N. half,
	R 10 W S 3 in SE.; and
	T 33 S S 4 in SW.quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high S. of cor.
	I destroy all marks on the cor. set for secs. 3,4,33, and 34, that pertain to secs. 3 and 4.
	Land rolling, mountainous; sloping and draining south-westerly.
	Soil, sandy loam, from 1 to 6 ft. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	No grass.
	Mountainous land covered with sagebrush 79.34 chs.
	April 17, 1911.

General Description T. 33 S., R. 10 W.

The greater portion of this township lies to the NW. of the divide range between Parowan Valley and the desert west of the valley, which divide bears in a northeasterly and southwesterly direction. The portion lying on the divide range slopes northwesterly, while the portion lying on the desert has a gentle slope southerly.

The eastern, southeastern, and northwestern portions of the township are covered with a growth of cedar and pinon pine timber, not fit for commercial use, unless for fuel, or fence posts. The entire township has a growth of sagebrush & shadscale, the sage being dense in most places not covered with timber.

The township is partly covered with a growth of grass, which affords good grazing for sheep and cattle.

There is no water in the township, except in the southeast corner, in sec. 36, where the Little Salt Lake is situated. Water coming from melting snows in the winter and spring season, makes the land most profitable for winter grazing.

The rock found in the township is volcanic to the south, sandstone in the eastern, and cobble rock in the northwestern portions.

I found no trace of mineral in the township.

There are no settlers in the township.

April 17, 1911.

Lumby Stewart

Instrumentman G.L.O.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....

....., United States Deputy Surveyor, to assist in running, measuring, and

arking the lines and corners described in the foregoing field notes of the survey of .....

.....

owing the respective capacities in which they acted:

For list of names and final oath of assistants see book ..., *Chainman.*

"Z" T.31 S., R.9 W. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

se parts or portions of the .....

.....

.....

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

..... meridian, ... of ....., which are represented

he foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the ner monuments established, according to the instructions furnished by the United States Surveyor

eral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

scribed and sworn to before me this .....
day of ....., 190

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyo
solemnly swear that, in pursuance of a contract received from .....
United States Surveyor General for ....., bearing date o
..... day of ....., 190 , I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Sur
General for ....., the Manual of Surveying Instructions, and the laws o
United States, surveyed all those parts or portions of .....

For final oath of transitman see book "Z" 12 T.31 S., R.9 W.

.....of the .....
..... meridian, in the ..... of ....., which are represented
foregoing field notes as having been surveyed by me, and under my direction; and I do further sol
swear that all the corners of said survey have been established and perpetuated in strict accordanc
the Manual of Surveying Instructions, and the special written instructions of the United States Su
General for .....and in the specific manner described in the field notes, an
the foregoing are the original field notes of such survey.

.....
United States Deputy Su

Subscribed by said ....., and sworn to before me
this ..... day of ....., 190

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914.

The foregoing field notes of the survey of the subdivisional lines of Town
No.33 South, Range No.10 West of the Salt Lake Base and Meridian,
Utah,

executed by Quinby Stewart
under ~~his contract No.~~ special instructions, dated August 6, 1910, ~~190~~, havi
critically examined, and the necessary corrections and explanations made, the said field notes,
surveys they describe, are hereby approved.

Thomas Kell
United States Surveyor G

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 o

.....
United States Surveyor G

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4—679

Filed Feb.17, 1912.
WSH.

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ER

FIELD NOTES

BOOK A-386

OF THE SURVEY OF THE

NORTH BOUNDARY

OF

TOWNSHIP NO. 33 SOUTH, RANGE NO. 11 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

JOHN R. STEWART AND QUINBY STEWART

In the capacity of U. S. ~~*Surveyor*~~ TRANSITMEN, *under instructions dated* Aug.6, *191*0, *issued by the United States Surveyor General to govern surveys included in Group No.* 1, *which were approved by the Commissioner of the General Land Office,* Aug.25, *191*0, *pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced April 9, *191*1

Survey completed April 11, *191*1

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NAMES AND DUTIES OF ASSISTANTS

Isaac R.Hayes,	Chainman.
J.Clarence Clark,	Chainman.
Edgar S.Hurst,	Moundman.
Hugh Hurst,	Axman.

BOOK A-386

INDEX DIAGRAM.

Township ....., *Range* .....

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BOOK A-386

INDEX DIAGRAM.

Township ~~33~~ 13 South, *Range* 11 West

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19	20	21	22	23	24
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Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

We, Isaac R. Hayes and J. Clarence Clark do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; tha we will report the true distances to all notable objects, and the true lengths of all lines that we assist i measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey o

N.bdy.T.33 S.,R.11 W.and N.bdy.T.32 S.,R.11 W. S.L.B.& M., Utah.

Isaac R. Hayes, Chainma

J. Clarence Clark, Chainma

Subscribed and sworn to before me this 9th day of April, 19 11

SEAL

John R Stewart
U.S.Transitman

~~We~~, Edgar S.Hurst ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishme of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey

N.bdy.T.33 S.,R.11 W.and T.32 S.,R.11 W. S.L.B.& M., Utah.

Edgar S. Hurst, ~~Moundma~~ Commun

, Moundma

Subscribed and sworn to before me this 9th day of April, 19 11

SEAL

John R Stewart
U.S.Transitman

~~We~~, I Hugh Hurst ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corne and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey

N.bdy.T.33 S.,R.11 W. and N.bdy.T.32 S.,R.11 W. S.L.B.& M., Uta

Hugh Hurst, Axma

, Axma

Subscribed and sworn to before me this 9th day of April, 1911.

SEAL

John R Stewart
U.S.Transitman

I, ..., do solemnly swear that I will well and tru perform the duties of flagman according to instructions given me, to the best of my skill and ability, in th survey of .....

....., Flagma

Subscribed and sworn to before me this ..... day of ....., 19

SEAL

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North bdy.T.33 S.,R.11 W.

Survey commenced April 9, 1911, and executed with a W.and L.E.Gurley light mountain transit No.957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc; which is also the least count of the lat.n and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor General for Utah on Mar.28, 1911.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting form solar observations made during p.m.and a.m.hours with a meridia. established by Polaris observation, I proceed as follows:

At the cor.of Tps.32 and 33 S., Rs.10 and 11 W., latitude 37°59'04"N., longitude 112°59'50"W., I set off 37°59'N., on the lat.arc; 7°28'N., on the decl.arc; and at 4 h 2 m p.m., l.m.t., I determine a meridian with solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs.N.of the cor.;

At 6 h 15 m p.m.l.m.t., I observe Polaris at western elongation, in accordance with the Manual and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs.N.of the cor.

April 9, 1911.

April 10, 1911, At 6 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris 1° 29'east and mark the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor.; this mark falls 0.31 in a.east of the mark determined by the solar.

At 8 h 2 m a.m., l.m.t., I set off 37-59'N., on the lat.arc. 7°42'N., on the decl.arc; and mark the meridian determined with the solar, by a cross on the stone already set 5.00

Resurvey of North bdy.T.33 S.,R.11 W.-Continued.

Chains chs.N.of the cor.;this mark falls 0.27 ins.east of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines 2 positions for meridians respectively about 0'16"west and 0'14"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8 h 30 m a.m.,is N.16°15'W.,the angle thus determined gives the mag.ecl. 16°15'E.

From the cor.of Tps.32 and 33 S.,Rs.10 and 11 W.,heretofore described I run

West,on a random line along north bdy.of Tp.,setting temp.¼ sec.and sec.cors.at intervals of 40.00 chs.and at 481.70 chs.Intersect W.bdy.of Tp.,305 lks N.0°11'E.of the cor.of Tps.32 and 33S.,Rs.11 and 12 W.,which is an iron post,3 ins.in dia.,and projecting 12 ins.above mound of earth and stone,mkd.and witnessed as described by the surveyor general.The falling is out of limits therefore at my intersection I

Set an iron post 3 ft.long,3 ins.in dia.,24 ins.in the ground,for closing cor.of Tps.32 and 33 S.,R.11 W.,mkd. on brass cap

T 32 S T 33 S R 12 W S1 S 36 in W half

C C R 11 W in E half,

T 32 S S 31 in NE,and

T 33 S S 6 in SE quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.

Note:I destroy all marks on the cor.of Tps.32 and 33 S., Rs.11 and 12 W.,which pertain to Tps.32 and 33 S.,R.11 W.

April 10,1911.

North bdy.T.33 S.,R.11 W.-Continued.

Chains	
	April 11,1911,At 8 h 1 m a.m.,l.m.t.,I set off 37°59'N., on the lat.arc;8°05'N.,on the decl.arc;and determine a meridian with the solar,at the closing cor.of Tps.32 and 33 S.,R.11 W.,
	Thence I run
	East,on a true line along North bdy.of Tp.,bet.secs.6 and 31.
	Over mountainous land;through dense sage and rabbit brush.
	Asc.over rocky ground.
16.70	Top of ridge,125 ft.above cor.,bears NE and SW.
	Desc.
36.50	Bottom of hollow,150 ft.below ridge,course S.10°W.
	Asc.
41.70	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 31 in N half and S 6 in S half;and raise a mound of stone 2 ft.base,1½ ft.high,N.of cor.
71.70	Top of ridge,225 ft.above hollow,bears N.and S.
	Desc.through heavy timber .
81.70	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.5,6,31,and 32,mkd.on brass cap
	T 32 S S 31 in NW.
	R 11 W S 32 in NE.
	R 11 W S 5 in SE.;and
	T 33 S S 6 in SW.quadrants;from which
	A cedar,8 ins.dia.,bears N.14°E.,140 lks. dist.mkd.T.32 S.,R 11 W S 32 B T.
	A cedar,8 ins.dia.,bears N.77°W.,185 lks. dist.mkd.T 32 SR 11 W S 31 B T.,no other trees within limits;raise a mound of stone,2 ft.base,1½ ft.high W of cor.
	Land rolling and broken ridges and hollows covered with sage and rabbit brush and quite gravelly .Subsoilclay and gravel.Heavy cedar and pinon pine timber on E.10.00 chs.The rocks are a mixture of sandstones and volcanic.

North bdy.T.33 S.,R.11 W.-Continued.

Chains	
	East, on a true line bet.secs.5 and 32.
	Over mountainous land; through heavy cedar and pinon pine timber and scattering sage and rabbit brush.
	Desc.
3.50	Bottom of hollow
	,50 ft.below cor.,course S.10°W.
	Asc.
28.50	Top of ridge,200 ft.above hollow,bears NW and SE.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 32 in N half and S 5 in S half; from which
	A cedar,10 ins.dia.,bears N.62°30'E.,40 lks.dist..mkd.¼ S 32 B T.
	A cedar,10 ins.dia.,bears S.64°W.,63 lks. dist..mkd.¼ S 5 B T.
66.50	Wash,30 lks.wide,4 ft.deep,course S.30°E.
	Asc.
73.00	Top of knoll,40 ft.high.
	Desc.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.4,5,32,and 33,mkd.on brass cap
	T 32 S S 32 in NW.
	R 11 W S 33 in NE.
	R 11 W S 4 in SE.;and
	T 33 S S 5 in SW.quadrants; from which
	A cedar,12 ins.dia.,bears N.77°E.,110 lks. dist..mkd.T 32 S R 11 W S 33 B T.
	A cedar,10 ins.dia.,bears S.38°E.,56 lks. dist..mkd.T 33 S R 11 W S 4 B T.
	A cedar,11 ins.dia.,bears S.35°W.,78 lks. dist..mkd.T 33 S R 11 W S 5 B T.
	A cedar.8 ins.dia.,bearsN.78°W.,165 lks. dist..mkd.T 32 S R 11 W S 32 B T.

North bdy.T.33 S.,R.11 W.-Continued.

Chains	
	Land,mountainous.
	Soil,sandy and gravelly loam;2nd and 3rd rate.about 12 in deep.Subsoil,gravelly and clay .
	Timber,cedar and pinon pine,rather scrubby.
	Undergrowth,sage and rabbit brush .
	Good grassfor grazing.
	The general slope and drainage of this country is to the south.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	April 11,1911,At this cor.I set off 8°08'N.,on the decl.arc;and at 0 h 1 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37° 59'N.,which is the proper lat.nearly.
	East,on a true line bet.secs.4 and 33.
	Over rolling mountainous land;through scattering timber and dense sage brush.
	Desc.
1.00	Wash,40 lks.wide,3 ft.deep,course SE.
5.65	Wash,40 lks.wide,4 ft.deep,course S.;
	Asc.
12.00	Top of spur,50 ft.above wash,bears N.and S.
	Desc.
23.00	[illegible] Wood road,bears N.10°E.and S.10°W.
24.25	Wash,30 lks.wide,2 ft.deep,course S.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼°sec.cor..mkd.on brass cap ¼ S 33 in N half and S 4 in S half;from which
	A cedar,5 ins.dia.,bears S.77½ W.,45 lks. dist..mkd.¼ S 4 B T.;No other trees within limits;raise a mound of stone,2 ft.base,1½ ft.high,N. of cor.
41.00	Bottom of hollow,100 ft.below ridge,course S.15°W.
	Asc.

Chains

56.50 Top of ridge,50 ft.above hollow,bears N.20°E.and S.20°W.

Desc.

70.40 Bottom of hollow,,100 ft.below ridge,course S.10°E.

Asc.

75,50 Top of spur,50 ft.above hollow,bears N.10°W.and S.10°

E.

Desc.

80.00 Set an iron posr,3 ft.long,3 ins.in dia.,24 ins.in the

graomd,for cor.of secs.3,4,33,and 34,mkd.on brass cap

T 32 S S 33 in NW.

R 11 W S 34 in NE.

R 11 W S 3 in SE.;and

T 33 S S 4 in SW.quadrants;from which

A cedar,4 ins.dia.,bears N.4°15'E.,174 lks.

dist.mkd.T 32 S R 11 W S 34 B T.

A cedar,14 ins.dia.,bears S.45°E.,188 lks.

dist..mkd.T 33 S R 11 W S 3 B T.

Acedar,8 ins.dia.,bears S.59°W.,201 lks.

dist..mkd.T 33 S R 11 W S 4 B T.

A cedar,9 ins.dia.,bears N.9°30'W.,74 lks.

dist..mkd.T 32 S R 11 W S 33 B T.

Land,rolling mountains with gradual and quite smooth slopes general drainage south .

Soil..,hard clay and gravel;3rd rate about 1 ft.deep, subsoil,clay and rock.

Timber,scattering scrub cedar and pinon pine .

Undergrowth,sage and rabbit brush and a few patches of service berry.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

4

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

Over rolling mountainous land;through scattering cedar and pinon pine timber and dense sage and rabbit brush.

Chains	
	Desc.
2.25	Bottom of hollow, 25 ft. below cor., course S.
	Asc.
8.50	Top of ridge, 100 ft. above hollow, bears N. and S.
	Desc.
34.80	Wash, 30 lks. wide, 3 ft. deep, course S. 30°E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. mkd. on brass cap ¼ S 34 in N half and S 3 in S half; from which A cedar, 6 ins. dia., bears N. 46°W., 38 lks. dist. mkd. ¼ S 34 B T. A cedar, 7 ins. dia., bears S. 30°E., 55 lks. dist. mkd. ¼ S 3 B T.
45.30	Bottom of hollow, 175 ft. below ridge, course SE.
	Asc.
51.90	Top of ridge, 100 ft. above hollow, bears N. and S.
	Desc.
55.00	Bottom of hollow, 60 ft. below ridge, course SW.
	Asc.
63.65	Road from Parowan to Lost Spring, bears N. 20°E. and S. S. 20°W.
71.25	Top of ridge, 40 ft. above hollow, bears N. 20°E. and S. 20°W.
	Desc.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 2, 3, 34, and 35, mkd. on brass cap T 32 S S 34 in NW. R 11 W S 35 in NE. R 11 W S 2 in SE.; and T 33 S S 3 in SW. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, rolling mountainous sloping to the south.

Soil, hard clay and gravel about 14 ins. deep, on subsoil of clay and rock.

Timber, scattering cedar and pinon pine.

Good grass for grazing.

Undergrowth, sage and rabbit brush.

North bdy.T.33 S.,R.11 W.-Continued.

Chains

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

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

Over rolling hilly country with long gradual slopes and through dense sage brush.Desc.gradually.

10.00 Bottom of hollow,50 ft.below cor.,course S.

Asc.

30.00 Top of ridge,75 ft.above hollow,bears N.and S.

Desc.gradually.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 35 in N half and S 2 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.

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

T 32 S S 35 in NW.

R 11 W S 36 in NE.

R 11 W S 1 in SE.;and

T 33 S S 2 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

Land,rolling hills.

Soil,hard white clay and gravel about 12 ins.deep,

Subsoil,hard pan of white clay.

No timber.

Undergrowth,dense sage brush,scattering rabbit brush.

A very little grass for grazing.

Land,covered with dense undergrowth,80.00 chs.

East,on a true line bet.secs.1 and 36.

Over nearly level land;through dense sage brush..

Desc.gradually.

36.40 Chains. North bdy.T.33 S.,R.11 W.-Continued.

36.40 Wash,20 lks.wide,4 ft.deep,course S.30°E.

Asc.gradually.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 36 in N half and S 1 in S half;dig pits,18x18x12 ins.E and W of post, 5 ft.dist.;and raise a mound of earth,3½ ft.base 1½ ft.hi high,N.of cor.

40.25 Old road,bears N.35°W.and S.35°E.

80.00 The cor.of Tps.32 and 33 S.,Rs.10 and 11 W.,heretofore described.

Land,nearly level gradually sloping to the south.This nearly flat country is generally known as the Rush Lake Benches,although it is impossible to give any definite line of division between the benches and the mountainous land because the one slopes so gradually into the other.

Soil,clay and gravelly;3rd rate,about 12 ins.deep,on subsoil of hard pan of white clay.

No timber .

Undergrowth,sage brush .

A very little grass .

Land covered with dense unergrowth,80.00 chs.

April 11,1911.

Boundaries of T.33 S.,R.11 W.-Continued.

Line Designated	Course	Distance	Latitudes N.	Latitudes S.	Departures E	Departures W
		chs.	chs.	chs.	chs.	chs.
W.bdy.T.33 S.R.11 W.	N.0°21'E.	81.94	81.94		.50	
W.bdy.T.33 S.,R.11 W.	N.0°07'E.	235.80	235.80		.48	
W.bdy.T.33 S.,R.11 W.	N.0°11'E.	3.05	3.05		.01	
N.bdy.T.33 S.,R.11 W.	East	481.70			481.70	
E.bdy.T.33 S.,R.11 W.	South	404.12		404.12		
S.bdy.sec.25 Sub. T.33 S.,R.11 W.	West	40.00				40.00
S.by.sec.25 Sub. T.33 S.,R.11 W.	N.89°56'W.	40.27	.05			40.27
S.bdy.sec.26,Sub. T.33 S.,R.11 W.,	S.89°58'W.	40.26			.02	40.26
S.bdy.sec.26,Sub. T.33 S.,R.11 W.	N.89°50'W.	40.12	.12			40.12
S.bdy.sec.27,Sub. T.33 S.,R.11 W.	S.89°52'W.	40.36			.09	40.36
S.bdy.sec.27 Sub. T.33 S.,R.11 W.	N.89°56'W.	40.13	.05			40.13
S.bdy.sec.28,Sub. T.33 S.,R.11 W.	West	40.24				40.24
S.bdy.sec.28,Sub. T.33 S.,R.11 W.	S.89°54'W.	40.14			.07	40.14
S.bdy.sec.29,Sub. T.33 S.,R.11 W.	S.89°52'W.	39.15			.09	39.15
S.bdy.sec.29,Sub. T.33 S.,R.11 W.	West	41.34				41.34
W.bdy.sec.29,Sub. T.33 S.,R.11 W.	North	80.44	80.44			
S.bdy.sec.19,Sub. T.33 S.,R.11 W.	S.89°56'W.	40.36			.05	40.36
S.bdy.sec.19,Sub. T.33 S.,R.11 W.	N.85°39'W.,	40.40	3.06			40.28
Convergency					.46	
Totals			404.51	404.44	483.15	482.65
			404.44		482.65	
Error in lat.			.07		.50	

General Description.

For general description see subdivision T.33 S.,R.11 W.

John R. Stewart
U.S.Transitman

FINAL OATHS OF ~~DEPUTY SURVEYOR~~ U.S. TRANSITMAN AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John R. Stewart, United States ~~Deputy Surveyor~~ Transitman, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the North Boundary of Township 33 South, R. 11 W. S.L.B.& M., Utah, showing the respective capacities in which they acted:

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

Hugh Hurst, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

~~We~~ I hereby certify that ~~we~~ I assisted John R. Stewart, United States ~~Deputy Surveyor~~ Transitman, in surveying all those parts or portions of the North Boundary of Township No. 33 South, Range No. 11 West 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.*

_____, *Moundman.*

Hugh Hurst, *Axman.*

_____, *Axman.*

_____, *Flagman.*

Subscribed and sworn to before me this 11 day of April, 1911, ~~190~~

SEAL

John R. Stewart
U.S. Transitman

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For list of names and final oath of remaining assistants see book 225 " T.32 S.R.11 W.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, bearing date of the United States Surveyor General for _____ day of _____, 190 , 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 _____

TRANSITMAN

For final oath of ~~xxxxxx~~ see book "Z5 " T.32 S.R.11 W.

_____ 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.

John R. Stewart
United States Deputy Surveyor

Subscribed by said _____, and sworn to before me this _____ day of _____, 190

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914

The foregoing field notes of the survey of the North Boundary of Township No. 33 South, Range No.11 West of the Salt Lake Base and Meridian, Utah

executed by John R.Stewart under his ~~contract No.~~ special instructions, ~~dated~~ August 6, 1910, ~~190x~~, 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
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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BOOK A-386

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FEB 17 1912

MSB.

FIELD NOTES

OF THE SURVEY OF THE

RETRACEMENT SUBDIVISION

and

SUBDIVISION

of

Township No.33 South, Range No.11 West.

Of the Salt Lake Base and *Meridian,*

the State of Utah

EXECUTED BY

John R. Stewart and Quinby Stewart

the capacity of U. S. Transitmen ~~*Surveyors*~~, *under instructions dated* August 6, ~~19~~, *1910*,

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

roup No. 1, *which were approved by the Commissioner of the General Land*

fice, August 25, *1910*, *pursuant to authority contained in the Act of*

ngress dated , *191*

Survey commenced April 5, *1911*

Survey completed April 20, *1911*.

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Retr. Surv. 7-03-21
Surv. 47-29-48

Closings 13.20

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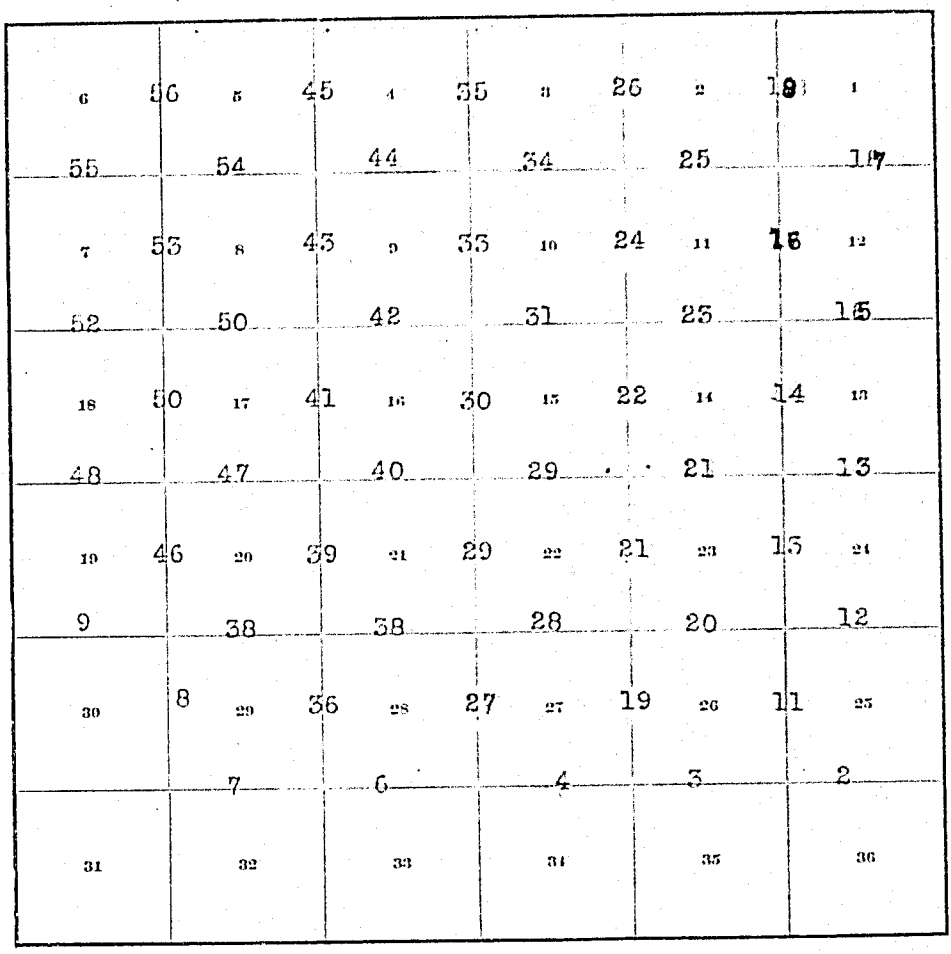
INDEX DIAGRAM.

Township 33 South, *Range* 11 West



For preliminary affidavits of assistants see book "X" T.34 S., R. 10 W.

Retracement Subdivision T.33 S., R.11 W.

Survey commenced April 5, 1911, and executed with a W. and L. E. Gurley Explorer's transit, No. 957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on March 28, 1911.

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

At the cor. of secs. 25, 30, 31, and 36, on E. bdy. T. 33 S., R. 11 W., latitude 37°54'43"N., longitude 112°59'30"W., I set off 37°55'N., on the lat. arc; 5°58'N., on the decl. arc; and at 4 h 3 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone, firmly set in the ground, 5.00 chs. N. of the cor.

At 6 h 30 m p.m., l.m.t., I observe Polaris at western elongation, in accordance with the Manual and Mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor.

April 5, 1911.

April 6, 1911, At 7 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris 1°29' to the east and mark the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.35 ins. east of the meridian established by the solar.

At 8 h 3 m a.m., l.m.t.; I set off 37°55'N., on the lat. arc; 6°13'N., on the decl. arc; and mark the meridian determined with the solar, by a cross on the stone already set 5.00

Chains	
	chs.N.of the cor.;this mark falls 0.40 ins.east of the meridian established by Polaris observation.
	The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'13"west and 0'21"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the meridian at 8 h 30 m a.m.is N.16°15'W.,the angle thus determined gives the mag.decl. 16°15'E.

	Note:Before beginning the subdivision of Tp.33 S.,R.11W., I deem it necessary to retrace the lines of the old work adjoining my work;therefore I run
	S.89°54'W.,on retracement line bet.secs.25 and 36.
	Over nearly level Rush Lake Benches .Through dense sage brush and shadscales.
	Desc.gradually.
29.00	Begin ascent,bears NE and SW.
32.50	Bottom of wash,30 lks.wide,20 ft.deep,course SW.
40.00	Fall 7 lks.S.of the ¼ sec.cor.bet.secs.25 and 36,which is a granite stone,5x8x8 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 25 in N half and S 36 in 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.
42.80	Wash,20 lks.wide,3 ft.deep,course S.
62.50	Wash,30 lks.wide,4 ft.deep,course S.
80.27	Fall 19 lks.South of the cor.of secs.25,26,35,and 36,which is a blue granite stone,5x10x4 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general

Chains	
	General.I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.25,26,35,and 36,mkd.on brass cap
	T 33 S S 26 in NW.
	R 11 W S 25 in NE.
	S 36 in SE.;and
	S 35 in SW.quadrants;Dig pits,18x18x12 ins. in eachsec.5½ ft.dist.;and raise a mound of earth 4 ft. base,2 ft.high,W.of cor.
	The course of the east half of this mile is therefore West 40.00 chs. and the west half is N.89°56'W.,40.27 chs.
	Land,gradually rolling bench land sloping southward.
	The soil issandy and clay loam about 12 ins.deep,on subsoil of hard white clay and some rocks.
	No timber .
	Undergrowth,sage brush and shadscales and a few greasewood.
	Land covered with dense undergrowth,80.27 chs.

	N.89°55'W.,on retracement line bet.secs.26 and 35.
	Over rolling bench land;through dense sage brush,shadscales and greasewood.
	Asc. gradually.
10.00	Top of low flat ridge,25 ft.above cor.,bears N.and S.
	Desc.gradually.
40.26	Fall 8 lks.N.of the ¼ sec.cor.bet.secs.26 and 35,which is a charred post almost decayed the marks being only partially preserved.I destroy all traces of the old post and re-establish the cor.in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 26 in N half and S 35 in 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.

Chains

51.00 hi Bottom of swale,30 ft.below ridge,course S.

Asc.gently.

80.38 Fall 5 lks.N.of the cor.of secs.26,27,34,and 35,which is an iron stone,5x10x5 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

I destroy all traces of the old cor.and re-establish it in the same place as follows:

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

T 33 S S 27 in NW.

R 11 W S 26 in NE

S 35 in SE.;and

S 34 in SW.quadrants;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.

The course of this mile is therefore :East half, S.89°58' 40.26 chs.;West half,N.89°50'W.,40.12 chs.

Rolling bench land sloping gently to the south and also draining southerly.

The soil is clay and sandy;2nd rate,about 12 ins.deep, with a subsoil of hard white clay .

No timber .

Undergrowth,sage brush,shadscales,and greasewood.

A very little grass.

Land covered with dense undergrowth,80.38 chs.

April 6,1911,At this cor.I set off6°16'N.,on the decl. arc;and at 0 h 3 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37° 55'N.,which is the proper lat.nearly.

N.89°51'W.,on a retracement line bet.secs.27 and 34.

Over rolling bench land;through dense sage brush and greasewood.

Asc.gradually.

Retracement Subdivision T.33 S.,R.11 W.-Continued.

Chains	
18.00	Top of low flat ridge,30 ft.above cor.,bears N.20°E.and S 20°W.
	Desc.gently.
25.00	Bottom of hollow,20 ft.below ridge,course S.20°W.
	Asc.gently.
40.36	Fall 20 lks.N.of the ¼ sec.cor.bet.secs.27 and 34,which is a charred post fairly well preserved mkd.and witnessed as described by the surveyor general .I destroy the old cor. and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground;for ¼ sec.cor..mkd.on brass cap ¼ S 27 in N half and S 34 in 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.
80.49	Fall 25 lks.North of the cor.of secs.27,28,33,and 34, which is an iron stone,6x12x6 ins.above ground,firmly set, and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.27,28,33,and 34,mkd.on brass cap
	T 33 S S 28 in NW.
	R 11 W S 27 in NE
	S 34 in SE.;and
	S 33 in SW.quadrants;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.
	The course of the east half of this mile is therefore S.89°52'W.,40.36 chs.and the west half N.89°56'W40.13 chs.
	Land,bench land sloping southward.
	Soil,sandy and clay loam;2nd rate about 12 ins.deep,with subsoil of white clay ,very hard.
	No timber.
	Undergrowth,sage brush and greasewood.
	Land covered with dense undergrowth,80.49 chs.

Chains

N.89°53'W.,on a retracement line bet.secs.28 and 33.
Over nearly level bench land;through dense sage brush and greasewood,and rabbit brush.
Desc.gradually.

2.00 Wood road,bears N.60°E.and S.60°W.

30.60 Wood road,bears N.and S.
Bottom of hollow,40 ft.below sec.cor.,course S.
Asc.gently.

36.00 Top of ridge,20 ft.above hollow,bears NE and SW.
Desc.gradually.

40.00 Bottom of hollow,20 ft.below ridge,course S.
Asc.gently.

40.24 Fall 8 lks.N.of ¼ sec.cor.bet.secs.28 and 33,which is a charred post,projecting 1 ft.above the ground,and fairly well preserved .I destroy all traces of the old cor.and re/establish it in the same place as follows:
Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.mkd.on brass cap ¼ S 28 in N half and S 33 in 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.

73.75 Road from Parowan to Lund,bears NE and SW.

80.38 Fall 23 lks.N.of the cor.of secs.28,29,32,and 33,which is a volcanic rock,5x12x6 ins.,above ground,firmly set, and mkd.and witnessed as described by the surveyor general.I destroy all traces of the old cor.and re-establish it in the same place as follows:
Set an iron post,3 ft.long,2 ins.in dia.,24 in.in the ground,for cor.of secs.28,29,32,and 33,mkd.on brass cap

T 33 S S 29 in NW
R 11 W S 28 in NE.
S 33 in SE.;and
S 32 in SW.quadrants;dig pits,18x18x12 ins. in each sec.5½ ft.diat;and raise a mound of earth,4 ft. base,2 ft.high,W.of cor.

Retracement Sub.T.33 S.,R.11 W.-Continued.

Chains	
	The course of the east half of this mile is therefore West,40.24 chs.and the west half is S.89°54'W.,40.14 chs.
	Land rolling .
	Soil,clay and gravelly about 1 ft.deep,subsoil,hard white clay .
	No timber .
	Undergrowth,sage brush,greasewood and shadscales.
	No grass.
	Land covered with dense undergrowth,80.38 chs.
	S.89°56'W.,on a retracement line bet.secs.29 and 32.
	Over nearly level land;through dense undergrowth.
	Desc.gently.
27.60	Road from Parowan to Lund,bears NW and SE.
39.15	Fall 5 lks.N.of the ¼ sec.cor.bet.secs.29 and 32,which is a charred post almost completely destroyed;marks are plain enough to be distinguished.I destroy the old cor. and re-established it in the same place as follows:
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the round,for ¼ sec.cor.mkd.on brass cap ¼ S 29 in N half and S 32 in S half;dig pits,18x18x12 ins.E.and W.of post, 3 ft.dist.;and raise a mound of earth3½ ft.base,1½ ft. high,N.of cor.
67.55	Wash,30 lks.wide,2 ft.deep,course SE.
80.49	Intersect the cor.of secs.29,30,31,and 32,which is an iron stone,5x10x6 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
	I destroy all traces of the old cor.and re-establish it n in the same place as follows:
	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,mkd.on brass cap
	T 33 S S 30 in NW.
	R 11 S S 29 in NE .

Chains

S 32 in SE;and

S 31 in SW.quadrants;dig pits,18x18x12 ins. in each sec.5½ ft.dist.;and raise a mound of earth 4ft. base,2 ft.high,W.of cor.

The course of the east half of this mile is therefore S.89°52'W.,39.15 chs.and the west half is West 41.34 chs.

Land,nearly level sloping southward.

Soil,clay loam about 1 ft.deep,2nd rate. Subsoil,hard white clay.

No timber.

Undergrowth,sage ,and rabbit brush,greasewood,and shadscales.

No grass.

Land covered with dense undergrowth, 80.49 chs.

April 6,1911.

April 7,1911,At At 8 h 2 m a.m.,l.m.t.,I set off 37°55'N. on the dat.arc;6°35'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

North,on a retracement line bet.secs.29 and 30.

Over nearly level land;through dense undergrowth.

desc.gently.

25.00 Wash,10 lks.wide,4 ft.deep,course SE.

30.40 Road from Parowan to Lund,bears NW and SE.

40.26 Intersect the ¼ sec.cor.bet.secs.29 and 30,which is a white sandstone,9x10x4 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 30 in W. half

Chains	
	and S 29 in E.half;and raise a mound of stone 2 ft.base, 1½ ft.high,W.of cor.
50.00	Top of ridge, 5 ft.above wash,bears E and W.
	Desc.
71.00	Wood road,bears NE and SW.
	Bottom of hollow,30 ft.below ridge,course SW.
	Asc.
80.44	Intersect the cor.of secs.19,20,29,and 30,which is an iron stone,6x12x4 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.19,20,29,and 30,mkd.on brass cap
	T 33 S S 19 in NW.
	R 11 W S 20 in NE.
	S 29 in SE.;and
	S 30 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	The course of this mile is therefore North 80.44 chs.
	Land,nearly level and sloping gently to the south,the soil is generally gravelly loam 2nd rate and about 1 ft. deep,on a subsoil of hard clay and gravel.
	No timber .
	Undergrowth,sage brush,shadscales,and greasewood.
	No grass .
	Land covered with dense undergrowth,80.44 chs.
	West,on a retracement line bet.secs.19 and 30.
	Ovr nearly level land;through dense sage brush and greasewood
	Asc.gradually.
26.80	Top of ridge,30 ft.above cor.,bears NE and SW.
	Desc.

Retracement Sub T 33 S. R 11 W.-Continued

Chains	
35.00	Bottom of hollow, 40 ft below ridge, course SW.
	Asc.
40.36	Fall 5 lks. N. of the ¼ sec. cor. bet. secs. 19 and 30, which is an iron stone, 5x10x8 ins., above ground, firmly set, and mkd and witnessed as described by the surveyor general.
	I destroy the old cor. and re-establish it in the same place as follows.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. mkd. on brass cap ¼ S 19 in N half and S 30 in S half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
70.00	Wash, 35 lks. wide, 3 ft. deep, course S.
	Asc. gently.
77.70	Road from Parowan to Lund, bears NW and SE.
80.64	Fall 301 lks. South of the cor. of secs. 19 and 30, on W. bdy. of Tp., which is an iron post, projecting 1 ft. above ground, and 3 ins. in dia., mkd. and witnessed as described by the surveyor general.
	The course of the east half of this mile is therefore S. 89°56'W., 40.36 chs. and the west half is N. 85°39'W., 40.40 chs.
	Land, nearly level.
	Soil, sandy and gravelly loam; 2nd rate. about 1 ft. deep, on subsoil, of hard clay.
	No timber.
	Undergrowth, sage brush and geasewood.
	Land covered with dense undergrowth, 80.76 chs.
	April 7, 1911: At this cor. I set off 6°38'N., on the decl. arc; and at 0 h 2 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 37°56'N., which is the proper lat. nearly.

John R Stewart

U.S. Transitman

Chains

Survey commenced April 7,1911,and executed with a W.and L. E.Gurley Explorer's transit,No.957,with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs.

The instrument was examind,tested on the meridian at Salt Lake City,found correct,and was approved by the surveyor general for Utah,on March 28,1911.

Note:For test of instrument see notes of Retracement of Sub.T.33 S.,R.11 W.,this book.

April 7,1911,At 2 h 2 m p.m.,l.m.t.,I set off 37°55'N.,on the lat.arc;6°40'W.,on the decl.arc;and determine a meridian at the cor.of secs.25,26,35,and 36,heretofore described.

Thence I run

N.0°01'W.,bet.secs.25 and 26.

Over nearly level land on what is called the Rush Lake Benches .through dense undergrowth.

Asc.gently.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 26 in W.half and S 25 in 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.

46.50 Road from Parowan to Lund,bears N.70°E.and S.70°W.

66.85 Road from Parowan to Lund,bears NW and SE.

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,mkd.on brass cap

T 33 S.S23 in NW

R11 W S 24 in NE.

S 25 in SE. ;and

S 26 in SW.quadrants;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,nearly level.

Soilwhite sand and gravel about 14 ins.deep,on subsoil

Chains	
	of white clay very hard.Undergrowth,sage and rabbit brush.
	A very little grass..
	No timber.
	Land covered with dense undergrowth,80.00 chs.
	———
	S.89°58'E.,on a random line bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
80.33	Intersect E.bdy.of Tp.,107 lks.South of the cor.of secs. 19,24,25,and 30,heretofore described.
	The falling is out of limits;therefore At my intersection I set an iron post,3 ft.long,2 ins.in dia. 24 ins.in ground, for closing cor.of secs.24 and 25,mkd.on brass cap
	T 33 S in N half.
	C C R 10 W S 19 S 30 in E half.
	R 11 W S 25 in SW;and
	S 24 in NW.quadrants;and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	I destroy all marks on the old cor.pertaining to secs.24 an
	Thence I run
	N.89°58'W.,on a true line bet.secs.24 and 25.
	Over nearly level land;through dense undergrowth.
	Desc.gently .
14.00	Wash,20 lks.wide,3 ft.deep,course S.
	Asc.gently.
40.16½	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 24 in N half and S 25 in S hlf;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.
69.00	Wash,20 lks.wide,2 ft.deep,course S.
71.35	Road from Parowan to Lund,bears NW and SE.
80.33	The cor.of secs.23,24,25,and 26.
	Land,nearly level.
	Soil,sandy and clay loam;2nd rate.Subsoil,hard clay .
	No timber .
	Undergrowth,dense sage and rabbit brush.

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	Land covered with dense undergrowth, 80.33 chs.
	N.0°1'W.,bet.secs.23 and 24.
	Over rolling bench land;through dense undergrowth.
	Asc.gently.
9.85	Road from Parowan to Lund,bears NW and SE.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 23 in W.hhalf and S 24 in 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.in dia.,24 ins.in the ground,for cor.of secs.13,14,23,and 24,mkd.on brass cap T 33 S S 14 in NW. R 11 W S 13 in NE. S 24 in SE.;and S 23 in SW.quadrants;dig pits,18x18x12 ins., in each sec.5½ ft.dist.;and raise a mound of earth,4 ft. abase,2 ft.high,W.of cor.
	Land,nearly level.
	Soil,clay loam;2nd rate.14 ins.deep.
	Subsoil,clay .
	No timber.
	Undergrowth,sage and rabbit brush.
	No grass.
	Land covered with dense undergrowth,80.00 chs.
	S.89°58'E.,on a random line bet.secs.13 and 24.
40.00	Set temp.¼ sec.cor.
80.27	Intersect E.bdy.of Tp.,105 lks.South of the cor.of secs. 13,18,19,and 24,heretofore described.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.13 and 24,mkd.on brass cap

Sub,T.33 S.,R.11 W.-Continued.

Chains

T 33 S in N half.

C C R 10 W S 18 S 19 in E half.

S 13 in NW.;and

R 11 W S 24 in SW.quadrants;dig pits,24x18x12 ins.crosswise on each line N.and S.of post,3 ft.and W. of post,7 ft.dist.;and raise a mound of earth,4 ft.base, 2 ft.high,W.of cor.

Thence I run

N.89°58'W.,on a true line bet.secs.13 and 24.

Over nearly level land;through dense sage brush and shadscales.

Desc.gradually.

33.00 Wash,25 lks.wide,4 ft.deep,course S.

Asc.gradually.

40.13½ Set an iron post,3 ft.long,1 in.in dia.26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap¼ S 13 in N half and S 24 in 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.

80.27 The cor.of secs.13,14,23,and 24.

Land,rolling.

Soil,sandy and white clay loam;2nd rate about 16 ins. deep,on subsoil of hard white clay.

No timber.

Undergrowth,sage and rabbit brush and shadscales.

No grass.

Land covered with dense undergrowth,80.27 chs.

N.0°01'W.,bet.secs.13 and 14.

Over nearly level land;through dense undergrowth.

Asc.gradually.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 14 in W.half and S 13 in E.half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.

Sub.T.33 S.,R.11 W.--Continued.

Chains
40.10 Wash,10 lks.wide,5 ft.deep,course S.30°W.
Asc.gradually.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.11,12,13,and 14,mkd.on brass cap

T 33 SS 11 in NW.
R 11 W S 12 in NE.
S 13 in SE.;and
S 14 in SW quadrants;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,nearly level.

Soil,white clay and sandy loam about 18 ins.deep,Subsoil white clay very hard.

No timber .

Undergrowth,sage brush and shadscales.

A very little grass.

Land covered with dense undergrowth,80.00 chs.

April 8,1911:At this cor.I set off 7 °1'N.,on the decl. arc;and at 0 h 2 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°57'N.,which is the proper lat.nearly.

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

40.00 Set temp. ¼ sec.cor.

80.24 Intersect E.bdy.of Tp.,104 lks.South of the cor.of secs. 7,12,13,and 18,heretofore described.

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.12 and 13,mkd.on brass cap

T 33 S.in N.half
C C R 10 W S 7 S 18 in E half.
S 12 in NW.;and
R 11 W S 13 in SW quadrants;dig pits,24x18x12 ins crosswise on each line N.and S.of post,3 ft.and W.of post,7 ft.dist.;and raise a mound of earth,4 ft.base,2 ft.high,W.of cor.

Note :I destroy all marks on the cor.of secs.7,12,13,and 18 which pertain to secs.12 and 13.

Sub .T.33 S.,R.11 W.-Continued.

Chains

Thence I run N.89°58'W.,on a true line bet.secs. 12 and 13.

Over nearly level land;through dense sage brush and shadscales.

Desc.gradually.

12.20 Wash,20 lks.wide,4 ft.deep,course S.

40.12 Set an iron post;3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 12 in N half and S 13 in 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.

80.24 The cor.of secs.11,12,13,and 14.

Land,nearly level ,sloping southward on what is called the Rush Lake Benches.

No timber.

Soil,sandy and clay loam about 10 ins.deep,1st rate .

Subsoil,gravel and clay very hard .

Undergrowth,sage and shadscales.

This land is hardly suitable for dry farming because the soil is only about 10 ins.deep on the average and the subsoil is a hard pan which would be very hard to break with a plough.

Land covered with dase undergrowth,80.24 chs.

N.0°01'W.,bet.secs.11 and 12.

Over nearly level land;through dense undergrowth.

Asc.gently.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 11 in W half and S 12 in E half;dig pits,18x18x12 ins.,N.and S.of pos 3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft. high,W.of cor.

51.25 Wash,30 lks.wide,4 ft.deep,course SE.

Asc.gently.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the

Sub-T.33 S., R.11 W.-Continued.

Chains	
	ground, for cor. of secs. 1, 2, 11, and 12, mk. on brass cap
	T 33 S S 2 in NW.
	R 11 W S 1 in NE.
	S 12 in SE.; and
	S 11 in SW. quadrants; 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, level.
	Soil, sandy and clay loam about 1 ft. deep, subsoil, hard white clay and gravel.
	No timber.
	Undergrowth, sage brush and shadscales.
	No grass.
	Land covered with dense undergrowth, 80.00 chs.
	S. 89°58' E., on a random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.30	Intersect E. bdy. of Tp., 100 lks. South of the cor. of secs. 1, 6, 7, and 12, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. in dia. 24 ins. in the cor. ground, for closing cor. of secs. 1 and 12, mkd. on brass cap
	T 33 S in N half.
	C C R 10 W S 6 S 7 in E half.
	S 1 in NW.; and
	R 11 W S 12 in SW. quadrants; dig pits, 24x18x12 N. and S., 3 ft., and W. of post, 7 ft. dist; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Note: I destroy all marks on the cor. of secs. 1, 6, 7, and 12, which pertain to secs. 1 and 12.
	Thence I run
	N. 89°58' W., on a true line bet. secs. 1 and 12.
	Over nearly level land; through dense undergrowth.
	desc. gently.
10.20	Old road, bears N. 20° W. and S. 20° E.

Sub.T.33 S.,R.11 W.-Continued.

Chains

25.10 Wash,15 lks.wide,3 ft.deep,course S.30°W.

40.15 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 1 in N half and S 12 in S half;dig pits,18x18x12 ins.,E and W of post,3 ft.dist.;and raise a mound of earth,3 ½ ft.base, 1½ ft.high,N.of cor.

70.00 Top of ridge,20 ft.above wash,bears NW and SE.

Desc.gradually.

80.30 The cor.of secs.1,2,11,and 12.

Land,nearly level.sloping gently to the south.

Soil,sandy and clay loam about 1 ft.deep,2nd rate.

Subsoil,hard pan of white clay.

No timber.

Undergrowth,sage brush and shadscales.

No grass

Land covered with dense undergrowth,80.30 chs.

April 8,1911,

April 12,1911.,At 8 h 1 m a.m.,l.m.t.,I set off 37°58'N on the lat.arc;8°27'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.¼ sec.cor.

83.94 Intersect N.bdy.of Tp.,27 lks.W.of the cor.of secs.1,2, 35,and 36,heretofore described.

Thence I run

S.0°10'W.,on a true line bet.secs.1 and 2.

Over gently rolling land;through dense sage brush.

Asc.gently.

43.94 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 2 in W half. and S 1 in E half;dig pits,18x18x12 ins.,N.and S.of pos

Sub.T.33 S.,R.11 W.-Continued.

Chains

3 ft.dist.;and raise a mound of earth 3½ ft.base,1½ ft.high,W.of cor.

73.40 Top of low ridge,30 ft.above ¼ sec.cor.,bears NW and SE. Desc.gently.

83.94 The cor.of secs.1,2,11,and 12.

Land,nearly level.

Soil,sandy and clay loam about 1 ft.deep,subsoil,hard clay.

No timber .

Undergrowth,sage brush.

No grass .

Land covered with dense undergrowth,83.94 chs.

From the cor.of secs.26,27,34,and 35,heretofore described I run

N.0°01'W.,bet.secs.26 and 27.

Over nearly level bench land;through dense undergrowth. Asc.gently.

33.00 Road from Parowan to L nnd,bears E.and W.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 27 in W half; and S 26 in 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.

62.00 Top of ridge,20 ft.above ¼ sec.cor.bearsNE and SW. Desc gently.

67.00 Bottom of hollow,20 ft.below ridge,course SW. Asc.gradually.

75.00 Wash,20 lkswide,2 ft.deep,course SW.

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

T 33 S S 22 in NW.

R 11 W S 23 in NE.

S 26 in SE.;and

S 27 ins SW.quadrats;dig pits,18x18x12 ins.

~~Sub-T.33 S., R.11 W./Continued.~~

Chains

in each sec. 5½ ft. dist.; and raise a mound of earth, 4½ ft base, 2½ ft. high, W. of cor.

Land, nearly level sloping southward.

Soil, sandy loam about 18 ins. deep, subsoil hard pan of white clay.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

April 12, 1911, At this cor. I set off 8°30' N., on the decl. arc; and at 0 h 1 m p.m. l.m.t., I observe the sun on the meridian, the resulting lat. is 37°56' N., which is the proper lat. nearly.

S. 89°56' E., on a random line bet. secs. 23 and 26.

40.00 Set temp. ¼ sec. cor.

80.42 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 23, 24, 25, and 26.

Thence I run

N. 89°58' W., on a true line bet. secs. 23 and 26.

Over rolling bench land; through dense sage brush.

Desc. gently.

8.00 Road from Parowan to Lund, bears NW and SE.

28.75 Wash, 35 lks. wide, 4 ft. deep, course S. 30° W.

Asc. gradually.

40.211 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. mkd. on brass cap ¼ S. 23 in N. half and S 26 ins 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.

69.40 Top of ridge, 30 ft. above wash, bears N. 20° E. and S. 20° W.

Desc. gradually.

79.00 Wash, 25 lks. wide, 6 ft. deep, course S.

Asc.

80.42 The cor. of secs. 22, 23, 26, and 27.

~~Sub-T.33 S., R.11 W.--Continued.~~

Chains

Land rolling bench land sloping southward.

Soil, sandy loam; about 15 ins. deep, 2nd rate.

Subsoil, white clay hard pan.

No timber.

Undergrowth, sage brush.

Grass in patches.

Land covered with dense undergrowth, 80.42 chs.

N. 0°01' W., bet. secs. 22 and 23

Over rolling bench land; through dense sage brush.

Asc. gradually.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins in the ground, for ¼ sec. cor. mkd. on brass cap ¼ S 22 in W half and S 23 in 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 13 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, mkd. on brass cap

T 33 S S 15 in NW.

R 11 W S 14 in NE:

S 23 in SE.; and

S 22 in SW quadrants; 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 bench land; the slope is to the south.

Soil, sandy loam 2nd rate. Subsoil, white clay.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Land covered with dense undergrowth, 80.00 chs.

S. 89°58' E., on a random line bet. secs. 14 and 23.

40.00 Set temp. ¼ sec. cor.

Sub,T,33 S.,R.11 W.-Continued.

Chains	
80.46	Intersect N.and S.line,at the corof secs.13,14,23,and 24.
	Thence I run
	N.89°58'W.,on a true line bet.secs.14 and 23.
	Over rolling bench land;through dense sage brush.
	Desc.gently.
13.00	Wash,20 lks.wide,5 ft.deep,course S.
	Asc.gently.
32.00	Top of ridge,25 ft.above wash,bears N.and S.
	Desc.gradually.
40.23	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 14 in N half and S 23 in 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.
49.00	Road from Parowan to Lund,bears N.20°W.and S.20°E.,
53.30	Hollow,20 ft.below ridge,course S.
	Asc. gradually.
69.55	Road from Parowan to Lund,bears NW and SE.
80.46	The cor.of secs.14,15,22,and 23.
	Land,mearly level.
	Soil,sandy loam;about 1 ft.deep,subsoil white clay.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.
	Land covered with dense undergrowth,80.46 chs.

	N.0°01'W.,bet.secs.14 and 15.
	Over rolling bench land;through dense undergrowth.
	Asc.gradually.
9 75	Road from Parowan to Lund,bears NW and SE.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 15 in W half and S 14 in E half;dig pits,18x18x12 ins.,N.and S.of post

Chains

3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft.high,W.of cor.

59.00 Road from Parowan to Lund,bears N.60°W.and S.60°E.

71.25 Road from Parowan to Lost Spring,bears NW and SE.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.10,11,14,and 15,mkd.on brass cap

T 33 S S 10 in NW.

R 11 W S 11 in NE.

S 14 in SE.;and

S 15 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

Land rolling.

Soil,sandy loam;about 1 ft.deep,2nd rate.Subsoil, white clay and gravel.

No timber.

Undergrowth,sagebrush.

Good grass for grazing.

Land covered with dense undergrowth,80.00 chs.

S.89°58'E.,on a random line bet.secs.11 and 14.

40.00 Set temp.¼ sec.cor.

80.44 Intersect N.and S.line,5 lks.S.of the cor.of secs.11,12,13,and 14.

Thence I run

West,on a true line bet.secs.11 and 14.

Over nerly level land;through dense sage brush.

Asc.

30.00 Top of ridge,30 ft.above cor.,bears N.and S.

Desc.

40.22 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 11 in N half and S 14 in 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 Bottom of hollow 20 ft.below ridge,course S.

Chains

Asc.

72.20 Old road,bears N.and S.

80.44 The cor.of secs.10,11,14,and 15.

Land,nearly level.

Soil,sandy loam;2nd rate.

No timber.

Undergrowth,sage brush.

A very little grass.

Land covered with dense undergrowth,80.44 chs.

April 12,1911.

April 13,1911,At 8 h 1 m a.m.,l.m.t.,I set off 37°57'N., on the lat.arc;8°49'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.10,11,14,and 15.

Thence I run

N.0°1'W.,bet.secs.10 and 11.

Over nearly level bench land;through dense sage brush.

Asc.gradually.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 10 in W half and S 11 in 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.in dia,24 ins.in the ground,for cor.of secs.2,3,10,and 11,mkd.on brass cap

T 33 S S 3 in NW.

R 11 W S 2 in NE.

S 11 in SE.;and

S 10 in SW.quadrants;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.

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	Land,nearly level.
	Soil,sandy loam,1 ft.deep,2nd rate.Subsoil,white clay.
	No timber.
	Undergrowth,sage brush.
	A very little grass.
	Land covered with dense undergrowth,80.00 chs.
	East,on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
80.40	Intersect N.and S.line,at the cor.of secs.1,2,11,and 12.
	Thence I run
	West,on a true line bet.secs.2 and 11.
	Over nearly level bench land;through dense undergrowth.
	Desc.
25.00	Wash,20 lks.wide,5 ft.deep,course SE.
	Asc.gradually.
40.20	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 2 in N half and S 11 in 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.
66.00	Top of low ridge,30 ft.above wash,bears N.and S.
	Desc.
72.80	Bottom of hollow,25 ft.below ridge,course S.20°E.
	Asc.
80.40	The cor.of secs 2,3,10,and 11.
	Land,nearly level.
	Soil,sandy loam and gravelly;2nd rate 12 ins.deep.
	Subsoil,white clay.
	No timber.
	Undergrowth,sage brush.
	Good grass for grazing.

Chains	
	Land covered with dense undergrowth, 80.40 chs.
	N.0°01'W.,on a random line bet.secs.2 and 3.
40.00	Set temp.¼ sec.cor.
83.92	Intersect N.bdy.of Tp.,55 lks.West of the cor.of secs. 2,3,34,and 35,heretofore described.
	The falling is out of limits;therefore at my intersection I set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.2 and 3,mkd.on brass cap
	CC T 32 S R 11 W S 34 S 35 in N half
	R 11 W S 2 in SE.;and
	T 33 S S 3 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.
	Note:I destroy all marks on the cor.of secs.2,3,34,and 35,which pertain to secs.2 and 3.
	Thence I run
	S.0°01'E.,on a true line bet.secs.2 and 3.
	Over rolling bench land;through dense sage brush.
	Asc.gently.
34.00	Top of ridge,20 ftlabove cor.,bears NW and SE.
	Desc.
43.92	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 3 in W half; and S 2 in 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.
76.00	Bottom of hollow,30 ft.below ridge,course SE.
	Asc.
83.92	The cor.of secs.2,3,10,and 11.
	Land,rolling.
	Soil,sandy and clay loam;2nd rate.1 ft.deep,subsoil clay and gravel.
	No timber.

Sub-T.33 S., R.11 W.--Continued.

Chains Land covered with dense undergrowth, 83.92 chs.

April 13, 1911, At this cor. I set off 8°52'N., on the decl. arc; and at 0 h 1 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 37°58'N., which is the proper lat. nearly.

From the cor. of secs. 27, 28, 33, and 34, heretofore described. I run

N. 0°02'W., bet. secs. 27 and 28.

Over rolling bench land; through dense sage brush.

Desc. gradually.

.75 Road, bears NE and SW.

15.00 Begin more abrupt descent, bears E. and W.

25.00 Wash, 10 lks. wide, 6 ft. deep, course W.

Asc. gradually.

34.00 Road from Parowan to Lund, bears NW and SE.

40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for ¼ sec. cor. mkd. on brass cap ¼ S 28 in W half and S 27 in E half; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

60.00 Enter scattering cedar and pinon pine timber, bears E. and W.

70.25 Road, bears NE and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, mkd. on brass cap

T 33 S S 21 in NW.

R 11 W S 22 in NE.;

S 27 in SE.; and

S 28 in SW. quadrants; from which

A cedar, 12 ins. dia., bears N. 71°30'E., 130 lks. dist. mkd. T 33 S R 11 W S 22 B T.

A cedar, 6 ins. dia., bears S. 2°E., 21 lks. dist. mkd. T 33 S R 11 W S 27 B T.

A cedar, 6 ins. dia., bears S. 59°W., 56 lks. dist. mkd. T 33 S R 11 W S 28 B T.

A cedar, 16 ins. dia., bears N. 31°30'W., 126 lks. dist. mkd. T 33 S R 11 W S 21 B T.

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	lks.dist..mkd.T 33 S.,R.11 W S 21 B.T.
	Land,rolling .
	Soil,sandy and gravelly loam;2nd rate about 2 ft. deep.Subsoil,gravel.
	Timber,cedar and pinon pine on N.20.00chs.
	Undergrowth,sage brush.
	Good grass for grazing.
	Land covered with dense undergrowth,80.00 chs.
	N.89°58'E.,on a random line bet.secs.22 and 27.
40.00	Set temp.¼ sec.cor.
80.48	Intersect N.and S.line,at 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 rolling land;through dense undergrowth.
	Asc.gradually.
40.24	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 22 in N half and S 27 in S half.dig pit s,18x18x12 ins.,E.and W.of post,3 ft.dist;and r ise a mound of earth,3½ ft.base,1½ ft.high,N.of cor.
70.00	Road,bears NE and SW.
75.00	Enter scattering timber,bears N.and S.
80.48	The cor.of secs.21,22,27,and 28.
	Land,rolling.
	Soil,sandy and clay loam;2nd rate.subsoil,white clay and gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	A very little grass.
	Land covered with dense undergrowth,80.48 chs.

Sub.T.33 S., R.11 W.-Continued.

Chains N.0°2'W.bet.secs.21 and 22.

Over rolling bench land;through dense sage brush and scattering timber.

Desc.gradually.

19.50 Wash,30 lks.wide,6 ft.deep,course S.70°W.

Asc.

16.50 Wash,20 lks.wide,6 ft.deep,course S.30°W.

sc.

30.00 Leave timber,bears W.and .

40.00 et an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 21 in W half and S 22 in 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.

4_.40 Old road,bears NE and SW.

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

T 33 S S 16 in NW.

R 11 W S 15 in NE.

S 22 in SE.;and

S 21 in SW.quadrants;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 .

Soil,sandy and gravelly loam;2nd rate.

Subsoil,clay and gravel hard.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Land covered with dense undergrowth,80.00 chs.

April 13,1911.

April 14,1911,/ At 8 h 1 m a.m.,l.m.t.,I set off 37°56' N.,on the lat.arc;9°10'W.,on the decl.arc;and determined

Chains	
	a meridian with the solar, at the cor. of seccs 15, 16, 21, and 22.
	Thence I run
	N. 89°58' E., on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.50	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 14, 15, 22, and 23.
	Thence I run
	S. 89°55' W., on a true line bet. secs. 15 and 22.
	Overrolling bench land; through dense undergrowth.
	Desc. gradually.
40.25	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. mkd. on brass cap ¼ S 15 in N half and S 22 in S half; dig pits, 18x1 x12ins E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
40.40	Old, road, bears NE and SW.
45.75	Wash, 30 lks. wide, 3 ft. deep, course S. 30° W.
	Asc. gently.
80.50	The cor. of secs. 15, 16, 21, and 22.
	Land, rolling bench. slopes southward.
	Soil, sandy and gravelly loam 2nd rate; about 1 ft. deep.
	Subsoil, clay and gravel.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Land, covered with dense undergrowth, 80.50 chs.

	N. 0°2' W., bet. secs. 15 and 16.
	Over rolling bench land; through dense undergrowth.
	Asc. gradually, through scattering timber.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. mkd. on brass cap ¼ S 16 ins W half

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	and S 15 in E half;from which
	A cedar,16 ins.dia.,bears N.14°30'E.,33 lks. dist.;mkd.¼ S 15 B T. No other trees within limits;raise a mound of stone,2 ft.base,1½ ft.high,W. of cor.
50.00	Wash,10 lks.wide,4 ft.deep,course N.80°W., Asc.gradually.
54.50	Leave timber,bears E and W.
69.25	Bottom of hollow,course SW.
	Asc.
75.00	Enter scattering timber,bears E.and W.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.9,10,15,and 16,mkd.on brass cap
	T 33 S S 9 in NW.
	R 11 W S 10 in NE.;and
	S 15 in SE.;and
	S 16 in SW.quadrants;from which.
	A cedar,10 ins.dia.,bears N.58°E.,150 lks. dist..mkd.T 33 S R 11 W S 10 B T.
	A cedar,8 ins.ins.dia.,bears S.80°E.,59 lks. dist..mkd.T 33 S R 11 W S 15 B T.No other trees within limits;dig pits,18x18x12 ins.,in secs.9 and 16 5½ ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft.high,W.of cor.
	Land,rolling bench land.
	Soil,sandy and gravelly loam about 1 ft.deep,2nd rate.
	Subsoil,hard clay and gravel.
	Timber,scattering cedar and pinon pine.
	Undergrowth,sage and rabbit brush.
	Grass in patches.
	Land covered with dense undergrowth,80.00 chs.

	N.89°55'E.,on a random line bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.

Chains	
80.50	Intersect N.and S.line,7 lks.S.of the cor.of secs.10,11, 14,and 15.
	Thence I run
	S.89°52'W.,on a true line bet.secs.10 and 15.
	Over rolling bench land;through dense undergrowth.
	Asc.
5.25	Road from Parowan to Lost Spring,bears N.20°W.and S.20°E
19.50	Top of ridge,25 ftlabove cor.,bears N.20°W.and S.20°E.
	Desc.
22.50	Bottom of hollow,40 ft.below ridge,course S.20°E.
	Asc.
29.15	Top of ridge,40 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
29.50	Enterscattering cedar and pinon pine timber,bears N. and S.
36.00	Bottom of hollow,50 ft.below ridge,course S.
	Asc.
40.25	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 10 in N half and S 15 in S half;from which
	A cedar,16 ins.dia.,bears N.72°W.,44 lks. dist..mkd.¼ S 10 B T,
	A cedar,6 ins.dia.,bears S.33°E.,30 lks. dist..mkd.¼ S 15 B T.
42.00	Road from Parowan to Lund,bears NE and SW.
46.50	Top of ridge,50 ft.above hollow,bears NE and SW.
	Desc.
61.50	Leave timber,bears N.and S.
69.00	Bottom of hollow,70 ft.below ridge,course SW.
	Asc.
73.50	Road from Parowan to Lund,bears NE and SW.
76.50	Enter scattering timber,bears NE and SW.
80;50	The cor.of secs.9,10,15,and 16.
	Land rolling bench land or fool hills.
	Soil,sandy loam about 2 ft.deep,and mixed with gravel and and some rock.Subsoil hard clay and gravel.

Chains	
	Timber,cedar and pinon pine.
	Undergrowth,sage and rabbit brush and shadscales.
	Some good grass in patches.
	Land covered with dense undergrowth,80.50 chs.
	April 14,1911,At this cor.I set off 9°43'N.,on the decl. arc;and at 0 h 1 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°57'N.,which is the proper lat.nearly.

	N.0°02'W.,bet.secs.9 and 10.
	Over rolling hills ;through scattering timber and dense undergrowth.Asc.
12.10	Road from Parowan to Lund,bears N.60°E.and S.60°W.
25.00	Top of ridge,25 ft.above cor.,bears NE and SW.
	Leave timber,bears NE and SW.
	Desc.
31.45	Wash,30 lks.wide,5 ft.deep,course SW.
38.65	Road from Parowan to Lund,bears NW and SE,
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 9 in W half and S 10 in 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.
45.00	Road from Parowan to Lund,bears N.60°W.and S.60°E.
45.30	Wash,20 lks.wide,5 ft.deep,course SW.
	Asc.
50.00	Enter heavy cedar and pinon pine timber,bears E and W.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.3,4,9,and 10,mkd.on brass cap T 33 S S 4 in NW.; R 11 W S 3 in NE.; S 10 in SE.;and S 9 in SW.quadrants;from which A cedar,11 ins.dia.,bears N.50°E.,32 lks. dist..mkd.T 33 S R 11 W S 3 B T.

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	A cedar,10 ins.dia.,bears S.55°E.,65 lks. dist..mkd.T 33 S R 11 W S 10 B T.
	A cedar,8 ins.d,bears S.51°W.,58 lks. dist..mkd.T 33 S R 11 W S 9 B T.
	A cedar,10 in.dia.,bears N.61°30'W.,35 lks. dist..mkd.T 33 S R 11 W S 4 B T.
	Land rolling hills.
	Soil,sandy and gravelly loam about 18 ins.deep,2nd rate.Subsoil,hard clay and gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage and rabbit brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	N.89°52'E.,on a random line bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
80.50	Intersect N.and S.line,12 lks.N.of the cor.of secs.2,3, 10,n 11.
	Thence I run
	S.89°57'W.,on a true line bet.secs.3 and 10.
	Over rolling hills and hollows;through dense undergrowth.
	Asc.gradually.
21.35	Road from Parowan to Lost spring,bears NW and SE.
37.20	Top of ridge,50 ft.above cor.,bears N and S.
	Enter heavy timber,bears N.and S.
	Desc.
40.25	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 3 in N half and S 10 in S half;from which
	A cedar,12 ins.dia.,bears N.80°E.,47 lks. dist..mkd.¼ S 3 B T.
	A cedar,6 ins.dia.,bears S.24°W.,50 lks. dist..mkd.¼ S 10 B T.

Sub.T.33 S.,R.11 W.,Continued.

Chains	
42.50	Bottom of hollow,50 ft.below ridge,course S.
	Asc.
50.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
56.00	Bottom of hollow,60 ft.below ridge,course S.
	Asc.
60.60	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
70.80	Road from Parowan to Lost Spring,bears N.20°E.and S.20° W.
75.60	Bottom of hollow,100 ft.below ridge,course S.20°W.
	Asc.
80.50	The cor.of secs.3,4,9,and 10.
	Land,rolling hills and hollows:
	Soil,sandy and clay loam about 18 ins.deep and mixed with some gravel and rock.Subsoil,clay and gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.50 chs.
	Note:Knowing from connections already made that the line bet.secs.3 and 4 will not intersect N.bdy.within limits I run
	N.0°02'W.,on a true line bet.secs.3 and 4.
	Over rolling mountainous land;through heavy timber and dense undergrowth.
	Desc.
10.00	Bottom of hollow,60 ft.below ridge,course SE.
	Asc.
35.00	Top of ridge,100 ft.above hollow,bears NE and SW.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the

Sub.T.33 S.,R.11 W.-Continued.

Chains ground, for ¼ sec.cor..mkd.on brass cap ¼ S 4 in W half. and S 3 in E half; from which

A cedar, 8 ins.dia., bears S.35°E.; 38 lks. dist..mkd.¼ S 3 B T.

A cedar, 12 ins.dia., bears N.65°W., 96 lks dist..mkd.¼ S 4 B T.

48.75 Bottom of hollow, 30 ft.below ridge course S.30°W.

Asc.

63.50 Top of ridge, 50 ft.above hollow, bears NE and SW.

Desc.

69.00 Bottom of hollow, 75 ft.below ridge, course SW.

Asc.

84.20 Intersect N.bdy.of Tp., 103 lks.West of the cor.of secs. 3,4,33, and 34, heretofore described.

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

C C T 32 S R 11 W S 33 S 34 in N half.

R 11 W S 3 in SE.; and

T 33 S S 4 in SW quadrants; and raise a mound of stone, 2 ft.base, 1½ ft.high, S.of cor.

Note: I destroy all marks on the cor.of secs.3,4,33, and 34, which pertain to secs.3 and 4.

Land rolling mountains.

Soil, sandy and gravelly loam about 12 ins.deep, with subsoil of hard clay;.

Timber, cedar and pinon pine.

Undergrowth, sage brush and shaedscales.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 84.20 chs.

April 14, 1911.

April 15, 1911, At 8 h 0 m a.m., l.m.t., I set off 37°55' on the lat.arc; 9°32' W., on the decl.arc; and determine

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	meridian with the solar,at the cor.of secs.28,29,32,and 33,heretofore described.
	Thence I run
	N.0°03'W.,bet.secs.28 and 29.
	Over rolling bench land;through dense undergrowth.
	Asc.gradually.
12.00	Begin more abrupt ascent,bears E.and W.
36.25	Road from Parowan to Lund ,bears E.and W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 29 in W half and S 28 in E half;dig pits,18x18x12 ins.,N.and S.of post,3 ft.dist.;and raise a mound of eart,3½ ft.base,1½ ft.high,W.of cor.
62.00	Top of ridge,100 ft.above sec.cor.,bears NE and SW.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.20,21,28,and 29,mkd.on brass cap
	T 33 S S 20 in NW.
	R 11 W S 21 in NE.
	S 28 in SE.;and
	S 29 in SW.quadrants;from which
	A cedar,8 ins.dia.,bears N.11°E.,176 lks.
	dist..mkd.T 33 S R 11 W S 21 B T.
	A cedar,10 ins.dia ,bears N.72°W.,147 lks.
	dist..mkd.T 33 S R 11 W S 20 B T.;and no other trees within limits;raise a mound of stone,2 ft.
	base,1½ ft.high,W.of cor.
	Land,rolling .
	Soil,sandy loam and clay ;2nd rate.
	Subsoil,white clay.
	No timber.
	Undergrowth,sae brush .
	Good grass for grazing.
	Land covered with dense undergrowth,80.00 chs.

Chains N.89°57' E.on a random line bet.secs.21 and 28.

40.00 Set temp.¼ Sec.cor.

80.50 Intersect N.and S.line,2 lks.N.of the cor.of secs.21,22, 27,and 28.

Thence I run

S.89°58'W.,on a true line bet.secs.21 and 28.

Over rolling bench land;through dense sage brush and heavy timber.

Desc.

6.50 Wash,30 lks.wide,2 ft.deep,course SW.

Asc.gradually.t

40.25 Set a iron post,3 ft.long,1 in.in dia.,26 ins.in the ground, for ¼ sec.cor..mkd.on brass cap.¼, S 21 in N half and S 28 in S half;from which

A cedar,12 ins.dia.,bears N.52°W.,58 lks. dist..mkd.¼ S 21 B T.

A cedar,20 ins.dia.,bears S.65°W.,73 lks. dist..mkd.¼ S 28 B T.

63.50 Top of ridge,30 ft.above hollow,bears NE and SW.

Desc.

80.50 The cor.of secs.20,21,28,and 29.

Land,rolling.

Soil,sandy and clay loam about 2 ft.deep,subsoil, white clay add gravel.

Timber,cedar and pinon pine on entire mile.

Undergrowth,sage brush on entire mile.

Good grass for grazing in patches.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.50 chs.

S.89°54'W.,on a random line bet.secs.20 and 29.

40.00 Set temp.¼ sec.cor.

80.50 Intersect N.and S.line,57 lks.S.of the cor.of secs. 19,20,29,and 30,heretofore described.

Thence I run

S.89°40'W.,on a true line bet.secs.20 and 29.

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	Over rolling land;through dense sage brush.
	Desc.
5.00	Road,bears NE and SW.
5.50	Bottom of hollow,30 ft.below cor.,course SW.
	Asc.
30.00	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
40.25	Wash,20 lks.wide,5 ft.deep,course S.
	It is impossible to perpetuate a cor.at this point therefore at
40.57	Set an iron post.3 ft.long,1 in.in dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor..mkd.on brass cap T 33 S R 11 W W C ¼ S 20 in N half;and S 29 in S half;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor cor.
50.25	Top of ridge,30 ft.above wash,bears N.and S.
	Desc.
72.00	Road,bears NE and SW.
	Bottom of hollow,50 ft.below ridge,course SW.
	Asc.
80.50	The cor.of secs.20,21,28,and 29.
	Land,rolling .
	Soil,sandy and clay loam;2nd rate.
	Subsoil,white clay and gravel very hard.
	No timber.
	Undergrowth,sage brush and rabbit brush.
	Good grass for grazing.
	Land covered with dense undergrowth,80.50 chs.
	April 15,1911,At this cor.I set off 9°35'N.,on the decl. arc;and at 0 h 1 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°56'N.,which is the proper lat.nearly.
	N.0°03'W.,bet.sec.20 and 21.
	Through scattering timber and dense undergrowth.

Chains	
5.00	Road,bears NE and SW.
	Bottom of hollow,20 ft.below cor.course SW.
	Asc.
30.00	Leave timber,bears NE and SW.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 20 in W half and S 21 in E half.;and raise a mound of stone,2 ft.base 1½ ft.high,W.of cor.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins in the ground,for cor.of secs.16,17,20,and 21,mkd.on brass cap T 33 S. S 17 in NW. R 11 W S 16 in NE. S 21 in SE.;and S 20 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor
	Land,rolling .
	Soil,sandy loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Land covered with dense undergrowth,80.00 chs .

	N.89°58'E.,on a random line bet.secs.16 and 21.
40.00	Set temp.¼ sec.cor.
80.40	Intersect N.and S.line,5 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 rolling hills and hollows;through dense undergrowth and a few scattering cedars.
	Desc.gradually.
29.00	Bottom of hollow,40 ft.below cor.,course SW.
	Asc.
40.20	Set an iron post,3 ft.long 1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 16 in N half and S 21 in South half.;and raise a mound of stone,2 ft.

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	[illegible] ft.;and raise a mound of stone,2 ft. base, 1½ ft.high,N.of cor.
42.00	Top of ridge,100 ft.above hollow,bears NE and SW.
	Desc.
50.00	Bottom of hollow,100 ft.below ridge,course S.
	Asc.
63.00	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
68.00	Bottom of holllow, 50 ft.below ridge,course S.
	Asc.
80.40	The cor.of secs.16,17,20,and 21.
	Land rolling hills sloping southward .
	Soil,sandy and clay loam about 1 ft.deep,subsoil,hard clay and gravel.
	Timber cedar.
	Undergrowth,sage brush.
	Good grass for grazing.
	Land covered with dense undergrowth,80.40 chs.
	April 15,1911,
	April 17,1911.At 8 h 0 m a m.,l.m.t.,I set off 37°56'N., on the lat.arc;10°15'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.16,17,20,ad 21.
	Thence I run
	N.0°03'W.,bet.secs.16 ad 17.
	Over rolling mountainous land;through dense sage brush
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 17 in W half and S 16 in E half;and raise amound of stone,2 ft.base, 1½ ft.high,W.of cor.
80.00	Set an iron post,3 ft.long,2 ins.in dia., 24 ins in the ground,for cor.of secs.8,9,16,and 17,mkd.on br brass cap

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	T 33 S S 8 in NW.;
	R 11 W S 9 in NE.;
	S 16 in SE.;and
	S 17 in SW.quadrants;and raise a mound of
	stone,2 ft.base,1½ ft.high,W.of cor.
	Land rolling with gradual south slope.
	Soil,sandy loam;2nd rate and about 1 ft deep,
	Subsoil,white clay and gravel.
	No timber.
	Undergrowth,sage brush.
	Good grass in patches.
	Land covered with dense undergrowth,80.00 chs.
	N.89°56'E.,on a random line bet.secs.9 and 16.
40.00	Set temp.¼ sec.cor.
80.30	Intersect N.and S.line,at the cor.of secs.9,10,15,and 16.
	Thence I run
	S.89°56'W.,on a true line bet.secs.9 and 16.
	Over rolling mountainous land;through dense undergrowth and a few scattering cedars.
	Asc.
7.00	Ridge,30 ft.above cor.,bears N.and S.
	Desc.
10.10	Wash,30 lks.wide,3 ft.deep,course S.20°E.,
	Asc.
23.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
30.00	Bottom of hollow,40 ft.below ridge,course S.
	Asc.
40.15	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S9 in N half. and S 16 in S half ;and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
47.50	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.

Sub.T.33 S.,R.11 W.-Continued.

Chains	Desc.
60.00	Bottom of hollow,40 ft.below ridge,course S.
	Asc.
80.30	The cor.of secs.8,9,16,and 17.
	Land,rolling .
	Soil,sandy loam;about 14 ins.deep,2nd rate.Subsoil, clay and gravel.
	Timber,cedar.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,80.30 chs.
	N.0°03'W.,bet.secs.8 and 9.
	Over rolling mountainous land;through dense undergrowth, and scattering timber.
	Desc.
25.00	Bottom of hollow.,40 ft.below cor.,course SE.
	Asc.
31.80	Top of ridge,30 ft.above hollow,bears NW and SE.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 8 in W half; and S 9 in 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.
57.00	Road from Parowan to Lund,bears NW and SE.
79.00	Wash,40 lks.wide,4 ft.deep,course SW.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.4,5,8,and 9,mkd.on brass cap T 33 S S 5 in NW. R 11 W S 4 in NE. S 9 in SE.;and S 8 in SW.quadrants;and raise a mound of

Sub.T.33 S., R.11 W.-Continued.

Chains	
	stone, 2 ft.base, 1½ ft.high, W.of cor.
	Land, mountainous .slopes southward .
	Soil, sandy loam about 1 ft.deep; 2nd rate.
	Timber, scattering cedar.
	Undergrowth, sage brush and rabbit brush.
	Good grass for grazing.
	Mountainous land; or land covered with dense undergrowth,
	80.00 chs.
	April 17, 1911: At this cor. I set off 10°18'N., on the decl.arc; and at 12 h M.xxxxxxxx., l.m.t., I observe the sun on the meridian, the resulting lat.is 37°58'N., which is the proper lat.nearly.
	N.89°56'E., on a random line bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
80.26	Intersect N.and S.line, 7 lks.S.of the cor.of secs.3, 4, 9, and 10.
	Thence I run
	S.89°53'W., on a true line bet.secs.4 and 9.
	Over rolling mountainous land; through dense sa e brush and scattering timber.
	Asc.
8.50	Top of ridge, 10 ft.above cor., bears N.and S.
	Desc.
25.00	Wash, 30 lks.wide, 3 ft.deep, course S.
	Asc.
32.00	Road bears NW and SE.
	Enter heavy cedar and pinon pine timber, bears NW and SE.
36.50	Wash, 25 lks.wide, 2 ft.deep, course S.20°E.
40.13	Set an iron post, 3 ft.long, 1 in.in dia., 26 in.in the ground, for ¼ sec.cor..mkd.on brass cap ¼ S 4 in N half and S 9 in S half; from which
	A cedar, 8 ins.dia., bears N.38°W., 45 lks. dist..mkd.¼ S 4 B T.

Chains	
	A cedar, 12 ins.dia., bears S.10°W., 31 lks. dist., mkd. ¼ S 9 B.T.
42.50	Wash, 20 lks.wide, 3 ft.deep, course S.
	Asc.
52.00	Wash, 60 lks.wide, 3 ft.deep, course S.
	Asc.
65.00	Leave heavy and enter scattering timber, bears N. and S.
69.50	Top of ridge, 100 ft.above wash, bears N.20°E. and S.20°W.
	Desc.
79.50	Wash, 20 lks.wide, 2 ft.deep, course S.30°W.
	Asc.
80.26	The cor. of secs. 4, 5, 8, and 9.
	Land, rolling mountainous. drainage and slope southward.
	Soil, sandy loam about 1 ft.deep, 2nd rate. Subsoil, white clay and gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage and rabbit brush and greasewood.
	A very little grass.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.26 chs;
	N.0°03'W., on a true line bet. secs. 4 and 5.
	For reasons already explained.
	Over rolling mountainous land; through dense undergrowth and scattering timber.
	Desc.
20.00	Bottom of hollow, 20 ft.below cor., course S.35°W.
	Asc.
30.00	Enter heavy cedar and pinon pine timber, bears E. and W.
33.50	Bottom of same hollow, 15 ft.above last crossing, course SE.
	Asc.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., mkd. on brass cap ¼ S 5 in W half

~~Sub.T.33 S.,R.11 W.-Continued.~~

Chains | and S 4 in E half;from which

A cedar,5 ins.dia.,bears S.72°E.,74 lks.

dist..mkd.¼ S 4 B T.

A cedar,18 ins.dia.,bears N.29°W.,64 lks.

dist..mkd.¼ S 5 B T.

76.50 Wash,15 lks.wide,2 ft.deep,course SE.

Asc.

84.40 Intersect N.bdy.of Tp.,133 lks.West of the cor.of secs. 4,5,32,and 33,heretofore described.

Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.4 and 5,mkd.on brass cap

C C T 32 S R 11 W S 32 S 33 in N half.

R 11 W S 4 in SE.;and

T 33 S S 5 in SW.quadrants;from which

A cedar,8 ins.dia.,bears S.12°E.,92 lks.

dist..mkd.T 33 S R 11 W S 4 B T.

A cedar,8 ins.dia.,bears S.63°30'W.,176 lks

dist..mkd.T 33 S R 11 W S 5 B T.

Note:I destroy all marks on the cor.of secs.4,5,32,and 33,which pertain to secs.4 and 5.

Land mountainous .

Soil,sandy and gravelly loam about 18 ins.deep,subsoil white clay and gravel.

Timber,cedar and pinon pine scrubby .

Undergrowth,sage and rabbit brush and greasewood.

Grass in patches.

Mountainous or heavily timbered land,or land covered with dense undergrowth,84.40 chs.

April 17,1911.

April 18,1911:At 8 h 00.4 m a.m.,l.m.t.,I set off 37°56' N.,on the lat.arc;10°36'N.,on the decl.arc;and determine ameridian with the solar,t the cor.of secs.19,20, 29,and 30,heretofore described.

Thence I run

Chains	
	N.0°03'W., bet.secs.19 and 20.
	Over rolling mountainous land; through dense undergrowth.
	Asc.
19.50	Top of ridge, 50 ft.above cor., bears NE and SW.
	Desc.
20.00	Enter scattering cedar and pinon pine timber, bears NE ad SW.
27.35	Bottom of hollow, 35 ft.below ridge, course SW.
	Leave timber, bears NE and SW.
	Asc.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ¼ S 19 in W half and S 20 in 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.
45.00	Enter scattering timber, bears E.and W.
69.80	Top of ridge, 50 ft.above hollow, bears NE and SW.
	Desc.
80.00	Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.17, 18, 19, and 20, mkd.on brass cap
	T 33 S S 18 in NW.
	R 11 W S 17, in NE.
	S 20 in SE.; and
	S 19 in SW.quadrants; and raise a mound of stone, 2 ft.base, 1½ ft.high, W.of cor.
	Land, mountainous.
	Soil, sandy loam; 2nd rate.about 1 ft.deep, subsoil, white clay;
	Timber, scattering cedar and pinon pine.
	Undergrowth, sage and rabbit brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.

S.89°40'E., on a random line bet.secs.17 and 20.

Chains	
40.00	Set temp.¼ sec.cor.
80.50	Intersect N.and S.line,12 lks.N.of the cor.of secs. 16,17,20,and 21.
	Thence I run
	N.89°45'W.,on a true line bet.secs.17 and 20.
	Over mountainous land;through dense undergrowth and a few scattering cedars.
	Asc.
26.00	Top of ridge,30 ft.above cor.,bears N and S.
	Desc.
40.35	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 17 in N half and S 20 in S half ;and raise a mound of stone,2 ft.base 1½ ft.high,N.of cor.
54.75	Road,bears N.and S.
60.00	Bottom of swale,60 ft.below ridge,course S.
	Asc.
77.00	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
80.50	The cor.of secs.17,18,19,and 20.
	Land,mountainous .
	Soil,sandy loam about 1 ft.deep,2nd rate.Subsoil white clay and rocky;.
	Timber,a few scattering cedars .
	Undergrowth,sage and rabbit brush.
	Good grass in patches.
	Mountainous land,or land covered with dense undergrowth, 80.50 chs.
	April 18,1911:At this cor.I set off 10°39'N.,on the decl.arc;and at 12 h 00 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37° 56'N.,which is the proper lat.nearly.

Note:Knowing from connections already made that the line bet.secs.18 and 19 will not intersect W.bdy.within

Sub.T.33 S., R.11 W.- Continued.

Chains.	
	limits, I run
	West on a true line bet.secs.18 and 19,
	Over rolling ground; descending through undergrowth.
8.75	Bottom of hollow, 100 ft.below cor., course SW.
	Asc.
11.35	Wash, 50 lks.wide, 8 ft.deep, course S.
15.80	Sandstone ledge, 10 ft.high, bears N.and S.
20.00	Top of ridge, 50 ft.above hollow, bears N.and S.
	Desc.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ¼ S 18 in N.half, and S 19 in S.half; and raise a mound of stone, 2 ft.base, 1½ ft.high N.of cor.
50.50	Wash, 30 lks.wide, 2 ft.deep, course SW.
58.00	Foot of descent, bears NE. and SW.Thence over level land.
80.30	Intersect W.bdy.of Tp.150 lks.N.0° 21'E.of the cor.of secs.13 and 24, T.33 S., R.12 W., which is an iron post 3 ins.dia., projecting 1 ft.above ground, mkd. 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.18 and 19, mkd. on brass cap
	T 33 S in N.half,
	C C R 12 W S 13 S 24 in W.half,
	R 11 W S 18 in NE.: and
	S 19 in SE.quadrants; and raise a mound of stone 2 ft.base, 1½ ft.high E.of cor.
	From this cor.the cor.of secs.18 and 19, T.33 S., R.11 W., set by Nelson and Stumm, under their assignment Group No.2, bears N.0° 21'E.5.56 chs.dist.
	I destroy all marks on said corner and leave it as a witness point to closing cor.of secs.18 and 19.
	Land, rolling and level.
	Soil, sandy loam, 2d rate, about 1 ft.deep.

Sub.T.33 S., R.11 W.- Continued.

chains.

Subsoil, clay and gravel.

No timber.

Undergrowth, sage, rabbit brush and greasewood.

No grass.

Mountainous land, or land covered with dense undergrowth 80.30 chs..

N.0° 3'W.bet.secs.17 and 18,

Over mountainous land; through dense undergrowth.Desc.

14.50 Bottom of hollow, 25 ft.above cor., course SW. Asc.

40.00 Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor., mkd.on brass cap ¼ S 18 in W.half, and S 17 in E.half; dig pits 18 x 18 x 12 ins.N.and S.of post 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

45.00 Top of ridge, 40 ft.above hollow, bears N.20° E. and S. 20° W. Desc.

72.50 Bottom of hollow, 75 ft.below ridge, course SW. Asc.

80.00 Set an iron post 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.7,8,17 and 18 mkd.on brass cap T 33 S S 7 in NW.
R 11 W S 8 in NE.
S 17 in SE.; and
S 18 in SW.quadrants; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Land, mountainous; general slope and drainage southward.
Timber, cedar and pinon pine; very scattering
Undergrowth; sage and rabbit brush.
Soil, sandy and gravelly loam about 18 ins.deep;2d rate.
Subsoil, white clay and gravel.
Mountainous land, or land covered with dense undergrowth 80.00 chs.

April 18, 1911.

April 19, 1911: At 7h 59m a.m.l.m.t., I set off 37° 57'N.on the lat.arc; 10° 57'N.on the decl.arc; and determine a meridian with the solar at the cor.of

Chains	
	secs.7,8,17, and 18. Thence I run S.89°45'E., on a random line bet.secs.8 and 17.
40.00	Set temp.¼ Sec.cor.
80.50	Intersect N.and S.line,2 lks.N.of the cor.of secs. 8,9,16,and 17.
	Thence I run
	N.89°44'W., on a true line bet.secs.8 and 17.
	Over mountainous land;through dense undergrowth and scattering timber.
	Asc.
31.70	Top of ridge,100 ft.above cor.,bears N.and S.
	Desc.
40.25	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 8 in N half and S 17 in S half;from which
	A cedar,6 ins.dia.,bears N.74°W.,28 lks. dist..mkd.¼ S 8 B T.
	A cedar,10 ins.dia.,bears S.50°W.,36 lks. dist..mkd.¼ S 17 B T.
42.65	Bottom of hollow,75 ft.below ridge,course SW.
	Asc.
51.70	Top of ridge,8 ft.above hollow,bears N.and S.
	Desc.
54.25	Bottom of hollow,40 ft.below ridge,course S.20°E.
	Asc.
67.80	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
76.40	Bottom of swale,25 ft.below ridge,course SW.
	Asc.
80.50	The cor.of secs.7,8,17,and 18.
	Land,mountainous general slope and drainage south.
	Soil,sandy and gravelly loam;2nd rate,and about 14 ins.deep.Subsoil,white clay and gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush,shadscales,rabbit brush,and greasewood.
	Good grass for grazing.

Chains	
	Mountainous land,or land covered with dense undergrowth, 80.50 chs.
	For reasons already explained I run West,on a true line bet.secs.7 and 18.
	Over mountainous land;through dense undergrowth
	Asc.
10;00	Top of ridge,50 ft.above cor.,bears N.and S.
	Desc.
19.70	Wash,20 lks.wide,4 ft.deep,course N.60°W.
28.00	Bottom of hollow,40 ft.below ridge,course S.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.cor.,mkd.on brass cap.¼ S 7 in N half and S 18 in S half;and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
42.90	Top of ridge,60 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
58.50	Foot of descent,100 ft.below ridge,bears N.and S.
	Desc.over nearly level land;
80.24	Intersect W.bdy.of Tp.,143 chs.N.,0°07'E.,of the cor.of secs.7,12,13,and 18, [illegible],which is an iron post,3 ins.in dia., projecting 1 ft.above the ground, and mkd.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.7 and 18,mkd:on brass cap
	T 33 S in N half.
	C C R 12 W S 12 S 13 in W half.
	R 11 W S 7 in NE.;and
	S 18 in SE.quadrants;dig pits,14x18x12 ins., crosswise on each line N.and S.,3 ft.,and E.of post,7 ft.dist.;and raise a mound of earth,4½ ft.base,2½ ft.high,E.of cor.
	I destroy the marks on the cor.of secs.7,12,13 and 18 that pertain to secs.7 and 18.

Chains	
	Land ,mountainous and nearly level.
	Soil,sandy and gravelly loam;2nd rate.Subsoil clay and gravel.
	No timber.
	Undergrowth,sage and rabbit brush and greasewood.
	No grass .
	Land covered with dense undergrowth,80.24 chs.
	April 19,1911:At this cor.I set off 11°00'N.,on the decl arc;and at 11 h 59 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°57'N.,which is the proper lat.nearly.

	N.0°03'W.,bet.secs.7 and 8.
	Over mountainous land;through dense undergrowth.
	Asc.
15.00	Top of ridge,30 ft.above cor.,bears NE and SW.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 7 in W half; and S 8 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
45.00	Bottom of hollow,40 ft.below ridge,course SW.
	Asc.
48.00	Enter sandstone boulders,bears NE and SW.
67.50	Leave boulders,bears NE and SW.
74.00	Top of ridge,150 ft.above hollow,bears NE and SW.
	Desc.
78.85	Road from Parowan to Lund,bears NE and SW.
	Bottom of hollow,100 ft.below ridge,course SW.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.5,6,7,and 8,mkd.on brass cap
	T 33 S S 6 in NW.
	R 11 W S 5 in NE.
	S 8 in SE.;and

Chains

and S 7 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

Land,mountainous.

Soil,sandy loam;2nd rate.2 ft.deep.Subsoil,white clay.

No timber.

Undergrowth,sage brush and shadscales.

Good grass for grazing.

Land covered with dense undergrowth,80.00 chs.

April 19,1911.

April 20,1911:At 7 h 59 m a.m.,l.m.t.,I set off 37°58'N., on the lat.arc;11°18'N.,on the decl.arc;and determine a hemeridian with the solar,at the cor.of secs.5,6,7,and 8.

Thence I run

S.89°44'E.,on a random line bet.secs.5 and 8.

40.00 Set temp.¼ sec.cor.

80.48 Intersect N.and S.line,14 lks.S.of the cor.of secs.4,5, 8,and 9.

Thence I run

N.89°50'W.,on a true line bet.secs.5 and 8.

Over mountainous land;through dense undergrowth;and scattering timber.

Desc.

4.50 Wash,30 lks.wide,4 ft.deep,course S.20°E.

Asc.

20.00 Enter heavy timber,bears N.and S.

29.00 Top of ridge,100 ft.above hollow,bears NE and SW.

Desc.

39.00 Bottom of hollow,30 ft.below ridge,course SW.

Asc.

40.24 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 5 in N half

Chains	
	and S 8 in S half;from which
	A cedar,10 ins.dia.,bears N.18°W.,19 lks. dist.mkd.¼ S 5 B T.
	A cedar,20 ins.dia.,bears S.10°W.,56 lks. dist..mkd.¼ S 8 B T.
44.00	Leave heavy and enter scattering timber,bears N.and S.
50.00	Leave timber,bears N.and S.
58.00	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
70.00	Road from Parowan to Lund,bears NW and SE.
77.83	Road from Parowan to Lund,bears N.60°E.and S.60°W.
80.48	The cor of secs.5,6,7,and 8.
	Land,mountainous with a general southerly slope and drainage.
	Soil,sandy and clay loam about 1 ft.deep;2nd rate.
	Subsoil,white clay very hard .
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.48 chs.

	For reasons already explained I run
	West,on a true line bet.secs.6 and 7.
	Over mountainous land;through dense undergrowth.
	Asc.
13.30	Top of ridge,100 ft.above cor.,bears NE.and SW.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins. in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 6 in N half and S 7 in S half; and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Bottom of swale,150 ft.below ridge,course S.30°W.

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	Asc.
42.30	Foot of descent, bears NE and SW.
	Desc. over nearly level land.
54.00	Road from Parowan to Lund, bears N.60°W. and S.60°E.
79.50	Wash, 75 lks. wide, 4 ft. deep, course S.30°W
	Asc.
80.10	Intersect W.bdy. of Tp., 145 lks. N.0°07'E of the cor. of secs. 1 [illegible], 6 [illegible], 7, and 12 [illegible], which is an iron post, 3 ins. in dia., and projecting 1 ft. above ground, firmly set, and mkd. and witnessed as described by the surveyoer general.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 6 and 7, mkd. on brass cap
	C C R 12 W S 1 S 12 in W half.
	T 33 S in N half.
	R 11 W S 6 in NE.; and
	S 7 in SE. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.
	Note: I destroy all marks on the cor. just closed on that pertain to T.33 S., R.11 W.
	Land, mountainous and nearly level.
	Soil, sandy and clay loam mixed with some gravel about 15 ins. deep. Subsoil, clay.
	No timber.
	Undergrowth, sage brushgreasewood and rabbit brush.
	Good grass in patches.
	Mountainous land, or land covered with dense undergrowth, 80.10 chs.
	April 20, 1911: At this cor. I set off 11°21'N., on the decl. arc; and at 11 h 59 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 37°58'N., which is the proper lat. nearly.

For reasons already explained I run N.0°03'W., on a true line bet. secs. 5 and 6.

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	Over mountainous land;through dense undergrowth.
	Asc.
7.00	Top of ridge,150 ft.above cor.,bears NE and SW.
	Desc.
10.00	Bottom of hollow,25 ft.below ridge,course W.
	Asc.
15.00	Top of spur,50 ft.above hollow,bears E.and W.
	Desc.
23.00	Bottom of hollow,125 ft.below ridge,course W.
	Asc.
29.50	Top of ridge,75 ft.above hollow,bears N.60°E.and S.60° W.
	Desc.
38.25	Bottom of hollow,60 ft.below ridge,course SW.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 6 in W half;and S 5 in E half;and raise a mound of stone,2 ft.base,1½ ft.high, high,W.of cor.
45;00	Top of spur,125 ft.above hollow,bears N.60°E.,and S.60° W.
	Desc.
52.00	Bottom of hollow,100 ft.below ridge,course S.60°W.
	Asc.
57.90	Top of ridge,60 ft.above hollow,bears N.60°E.and S.60°W
	Desc.
66.35	Bottom of hollow,60 ft.below ridge,course S.25°W.
	Asc.
84.10	Intersect N.bdy.of Tp.,175 lks.West of the cor.of secs. 5,6,31,and 32,heretofore described.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.5 and 6 ,mkd.on brass cap C C T 32 S R 11 W S 31 S 32 in N half R 11 W S 5 in SE.;and T 33 S S 6 in SW.quadrants;and raise a moud of stone 2 ft.base,1½ ft.high,S of cor.

Chains

Note:I destroy all marks on the cor.of secs.5,6,31,and 32 which pertain to secs.5 and 6.

Land mountainous with a general southwesterly slope and drainage.

Soil,sandy and clay loam about 30 ins.deep,2nd and 3rd rate.

No timber.

Undergrowth,sage brush and shadscales.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth,84.10 chs.

April 20,1911.

General Description.

The southern and eastern part of this township is a rolling bench country called the Rush Lake Benches ;with a gradual southerly slope and drainage.These benches are really only an extension of the Rush Lake valley and develope so gradually into mountainous land that the line of division cannot be traced on the ground. The south half and the east two tiers of sections can be cultivated as dry farming lands unless the hard pan which is about 1 ft.under the surface would be a serious objection. This part of the township is covered with a dense undergrowth of sage brush,greasewood ,rabbit brush,and shadscales growing from two to five ft.high,. The soil is a sandy and clay loam mixed with ~~with~~ some gravel.The subsoil is about one foot under the surface and consists of a hard white clay .

There is no water in the township and no chance for water for irrigation in this township.

Sub.T.33 S.,R.11 W.-Continued.

Chains	
	The northwest part of the township is rolling and mountainous and covered with a heavy growth of cedar ad pinon pine timber mostly scrubby.and a dense growth of sage and rabbit brush and some greasewood and shad-scales.
	There are no settlers in the township.
	The geological formation where rock in place is exposed, is sedimentary,mostly sandstone;although there is some volcanic rock on the surface in the extreme north end of the township.
	Grass is not abundant because it is pastured to excess in the winter and spring season with sheep and range horses.
	April 20,1911.
	John R Stewart
	U.S.Transitman.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....

....., 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 .....

.....

showing the respective capacities in which they acted:

....., *Chainman.*

For list of names and final oath of assistants see book "Z12"

T. 31 S., R.9 W.

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

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

..... meridian, ... of ....., 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 knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

Subscribed and sworn to before me this .....
day of ....., 19

SEAL

.....

.....

6—161

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 _____

For final oath of transitman see book "Z12" T. 31 S., R. 9 W.

_____ 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,

Salt Lake City, Utah, January 7, 19 14

The foregoing field notes of the survey of the subdivisional lines of Township No. 33 South, Range No. 11 West of the Salt Lake Base and Meridian, Utah,

executed by John R. Stewart under his ~~contract No.~~ ~~Special Instructions~~ A, 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

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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Filed Dec.11, 1911.
WSH.

4—679

Z3

BOOK A-386

MSB.

FIELD NOTES

OF THE SURVEY OF THE

WEST AND RESURVEY OF THE NORTH BOUNDARIES

OF

TOWNSHIP 32 SOUTH, RANGE 10 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

JOHN R. STEWART AND QUINBY STEWART

In the capacity of U. S. Transitmen ~~*Surveyor*~~, *under instructions dated* Aug.6, *191*0, *issued by the United States Surveyor General to govern surveys included in Group No.* 1, *which were approved by the Commissioner of the General Land Office,* August 25, *191*0, *pursuant to authority contained in the Act of Congress dated* ....., *191*...

Survey commenced April 16, *191*1

Survey completed April 19, *191*1.

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NAMES AND DUTIES OF ASSISTANTS.

Maeser Dalley,	Chainman.
Harvey W.Elliott,	Chainman.
Milo Nelson,	Moundman.
Kenneth Clark,	Flagman.

For preliminary affidavits see book "Y" T.33 S., R.10 W.

BOOK A-386

INDEX DIAGRAM.

Township ....., *Range* .....

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
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31	32	33	34	35	36

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BOOK A-386

INDEX DIAGRAM.

Township 32 SOUTH, Range 10 WEST

	19	18	16	14	13	11
10	6	5	4	3	2	1
8	7	8	9	10	11	12
6	18	17	16	15	14	13
4	19	20	21	22	23	24
3	30	29	28	27	26	25
2	31	32	33	34	35	36

Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

.....

....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me this .....
day of ....., 19

.....

SEAL

.....

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

.....

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this .....
day of ....., 19

.....

SEAL

.....

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

.....

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this .....
day of ....., 19

.....

SEAL

.....

I, ..., do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

....., *Flagman.*

Subscribed and sworn to before me this .....
day of ....., 19

.....

SEAL

.....

U. B. dy. T. 32 S. R. 10 W.

Survey commenced Apr. 16, 1911, and executed with a Keuffel and Esser mountain transit No. 20578. with solar attachments. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.
The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on March 28, 1911.
Examine the adjustments of the instrument and correct the level and collimation error; then, to test the solar apparatus by comparing the results of solar observations made during a. m. and p. m. hours, with a meridian established by Polaris observations I proceed as follows;

At the cor. of secs. 1, 6, 31 and 36, on S. W. cor. of Tp. lat. 37°59' 04" N., long. 112°59'30" W., I set off 37°59' N., on the lat. arc; 10°01' N., on the decl. arc; and at 4 h. 0 m. p. m., l. m. t., I determine a meridian with the solar, and mark a point there of on a stone firmly set in the ground 5.00 chs. N. of the cor.

At 5 h. 57 m. a. m., l. m. t., I observe Polaris at eastern elongation in accordance with the Manual and mark a

point in the line thus determined by a tack driven in a wooden plug set in the ground, 500 chs. N. of the cor.

April 16, 1911.

April 17, 1911: At 7 h. 55 m. 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 already set 500 chs. N. of the cor.; this mark falls 0.24 ins. east of the meridian determined by the solar.

At 8 h. 0 m. a.m., l.m.t., I set off 37°59' N., on the lat. arc; 10°15' N., on the decl. arc; and determine a meridian with the solar and mark a point there of by a cross on the stone already set 500 chs. N. of the cor.; this mark falls 0.27 ins. east of the meridian established by Polaris observations. The solar apparatus by p. m. and a. m. observations defines positions for meridians respectively about 0'12" west and 0'13" east of the meridian established by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8 h. 30 m. a.m., is N. 16°04' W., the angle thus determined gives the mag. decl. 16°04' E.

W. Bdy. T32 S. R. 10 W. Continued

Chains: Thence Sun
North on a true line bet. secs. 31 and 36.
Over mesa land; through dense sage brush.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1/4 sec. cor. mkd. on brass cap 1/4 S 36 in W. half and S 31 in E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, mkd. on brass cap,
T32 S S 25 in N. W.
R10 W S 30 in N. E.
S 31 in S. E. and
R11 W S 36 in S. W. quadrants;
and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
Sand, flat and slightly rolling.
Soil, coarse gravel and sand.
Subsoil, clay, hardpan.
No timber.
Undergrowth, sage.
Mesa land, or land covered with dense undergrowth, 80.00 chs.
April 17, 1911: At the noon hour the sky is overcast and solar observations are impossible

---

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

W. Bdy. T. 32 S. R. 10 W. Continu

Chains.

Over mesa land; through dense sage brush.

31.00 Old road from Minersville to Paroman, bears N. E. and S. W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1/4 sec. cor. mkd. on brass cap; 1/4 S. 25 in W. half and S. 30 in E. half; dig pits 18 x 18 x 12 ins., N. and S. of post 3 ft. dist. and raised a mound of earth, 3 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 18 ins. in the ground, ownrock surrounded by a mound of earth, for cor. of secs. 19, 24, 25 and 30, mkd. on brass cap,

T. 32 S. S. 24 in N. W.
R. 10 W. S. 19 in N. E.
S. 30 in S. E. and
R. 11 W. S. 25 in S. W. quadrants;

and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, flat and slightly rolling.
Soil, gravel and sand, 12 ins. deep.
Subsoil, clay and gravel hardpan.
No timber.
Undergrowth, sage.
Mesa land, or land covered with dense undergrowth, 80.00 chs.

North bet. secs. 19 and 24.
Over rolling mountainous country; through dense sage brush.
Desc. gradually.

6.00 Enter heavy cedar and pinon pine timber, bears E. and W.

15.20 Bottom of swale, 50 ft. below cor. bears S. 25° W.
Asc.

Township W. Bdy. T. 32 S R. 10 W. -Continued.

Chains

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, ow solid rock surrounded by a mound of earth and stone, for 1/4 sec. cor. mkd. on brass cap 1/4 S 24 in W. half and S 19 in E. half; from which,

A cedar, 7 ins. in dia., bears N. 52° E., 74 lks. dist., mkd. 1/4 S 19 BT.

A cedar, 10 ins. in dia., bears N. 82° W., 17 lks. dist., mkd. 1/4 S 24 BT.

44.00 Ridge, 90 ft. high, bears N. 20° W. and S. 20° E.

Desc.

49.25 Swale, 40 ft. below ridge, course S. 30° E.

Asc.

65.00 Leave heavy timber, enter scattering timber; bears E. and W.

73.00 Spur, 40 ft. above swale, bears N. 60° W. and S. 60° E.

Desc.

77.00 Swale, 40 ft. below spur, course S. 60° E.

Asc.

80.00 60 ft. above swale,

Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground; ow rock surrounded by a mound of earth, for cor. of sec. 13, 18, 19, and 24, mkd. on brass cap,

T 32 S S 13 in N. W.
R 10 W S 18 in N. E.
S 19 in S. E. and
R 11 W S 24 in S. W. quadrants,
from which,

A cedar, 7 ins. in dia., bears N. 68° 15' E., 153 lks. dist., mkd. T 32 S R 10 W S 18 B T.

A cedar, 8 ins. in dia., bears S 77° E., 209 lks. dist., mkd. T 32 S R 10 W S 19 B T.

A cedar, 9 ins. in dia., bears

Chains.

S 32° 25' W., 69 lks. dist., mkd.
T 32 S R 11 W S 24 13 T.
A cedar, 11 ins. in dia., bears
N. 63° 10' W., 95 lks. dist., mkd.
T 32 S R 11 W S 13 B T.
Land, mountainous.
Soil, gravel and sand 12 ins. deep,
well mixed with lava rock.
Subsoil, clay and gravel hard-pan.
Timber, cedar and pinon pine.
Undergrowth, sage.
Mountainous land on land covered
with heavy timber. 80.00 chs.

Apr. 17, 1911.

North bet. secs. 13 and 18.
Over rough mountainous country;
through cedar and pinon pine
timber and dense sage brush.
Asc.
21.50 Top of ridge, 200 ft. above corner,
bears N. W. and S. E.
Desc.
37.50 Old road, bears N. W. and S. E.
39.10 Bottom of hollow, 160 ft. below
ridge, course S. 40° E.
Asc.
40.00 Set an iron post, 3 ft. long, 1 in. in
dia., 20 ins. in the ground on rock surrounded
by a mound of earth and stone, for
1/4 sec. cor., mkd. on brass cap, 1/4 S 13
in W. half and S 18 in E. half, from
which,
A cedar, 7 ins. in dia., bears
N. 14° E., 66 lks. dist., mkd.
1/4 S 18 B T.
A cedar, 20 ins. in dia.,
bears S. 87° W., 62 lks. dist.,
mkd. 1/4 S 13 B T.

Asc.

Survey W. Bdy. T. 32 S. R. 10 W. — Continued

Chains.

72.00 Top of ridge, 400 ft. above hollow, bears N. 50° W. and S. 50° E.

Desc.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 19 ins. in the ground, on rock surrounded by a mound of earth and stone, for cor. of secs. 7, 12, 13, and 18, mkd. on brass cap,

T 32 S S 12 in N. W.
R 10 W S 7 in N. E.
S 18 in S. E. and
R 11 W S 13 in S. W. quadrants,
from which,

A cedar, 7 ins. in dia., bears N. 47° E., 37 lks. dist., mkd. T 32 S R 10 W S 17 B T.

A pinon pine, 6 ins. in dia., bears S 50° E., 67 lks. dist., mkd. T 32 S R 10 W S 18 B T.

A cedar, 7 ins. in dia., bears S 52° 30' W., 23 lks. dist., mkd T 32 S R 11 W S 12 B T.

A cedar, 6 ins. in dia., bears N 29° W., 15 lks. dist., mkd. T 32 S R 11 W S 12 B T.

Land, mountainous.
Soil, gravel and sand, 8 ins. deep, well mixed with lava rock.
Subsoil, clay and gravel hard pan.
Timber, cedar and pinon pine.
Undergrowth, sage.
Mountainous land or land covered with heavy timber. 80.00 chs.

Apr. 17, 1911.

Quincy Stewart
Instrumentman G.L.O.

Chains

Apr. 18, 1911: At 8 h. a.m., l.m.t., I set off 38°03' N., on the lat. arc; 10°36' N., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 7, 12, 13, and 18.

Thence I run,

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

Over rough mountainous country, through heavy cedar timber and sage bush.

Desc.

3.80 Bottom of swale, 60 ft. below cor., course S. 60° E.

Asc.

9.00 Top of ridge, 120 ft. above swale, bears N. 70° W. and S. 70° E.

Desc.

15.00 Bottom of swale, 90 ft. below ridge, course S 70° E.

Asc.

24.00 Top of spur, 100 ft. above swale, bears E. and W.

Desc.

27.00 Bottom of swale, 75 ft. below spur, course E.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 22 ins. in the ground; on rock surrounded by a mound of earth and stone, for 1/4 sec. cor. mkd on brass cap 1/4 S. 12 in W. half and S 7 in E. half, from which

A cedar, 10 ins. in dia., bears S. 40° E., 54 lks. dist., mkd. 1/4 S 7 B.T.

A cedar, 8 ins. in dia., bears S. 60° W., 63 lks. dist., mkd. 1/4 S 12 B.T.

59.00 Top of ridge, 400 ft. above swale, bears N. 80° W. and S. 80° E.

Desc. abruptly.

Asc.

Chains.

63.70 Bottom of hollow, 150 ft. below ridge, course S. 80° E.
Asc. abruptly.

75.00 Top of ridge, 250 ft. above hollow, bears N. 50° W. and S. 80° E.
Desc. abruptly.

80.00 100 ft. below top of ridge,
Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in ground; surrounded by a mound of earth and stone, for cor. of secs. 1, 6, 7 and 12, mkd. on brass cap,

T 32 S S 1 in N. W.
R 10 W S 6 in N. E.
S 7 in S. E. and
R 11 W S 12 in S. W. quadrants;

from which,
A cedar, 7 ins. in dia., bears N. 50° 30' E., 127 lks. dist., mkd. T 32 S R 10 W S 6 B T.
A cedar, 7 ins. in dia., bears S. 16° 30' E., 87 lks. dist., mkd. T 32 S R 10 W S 7 B T.
A cedar, 6 ins. in dia., bears S. 60° W., 119 lks. dist., mkd. T 32 S R 11 W S 12 B T.
A cedar, 5 ins. in dia., bears N. 56° W., 79 lks. dist., mkd. T 32 S R 11 W S 1 B T.

Land, mountainous, steep and rocky slopes.
Soil, sand and clay, 6 ins. deep.
Subsoil, clay.
Timber, cedar and pinon pine.
Undergrowth, sage.
No grass for grazing.
Mountainous land or land covered with heavy timber, 80.00 chs.

Apr. 18, 1911.

Survey W. Bdy. T. 32. S.R. 10 W. - Continued

Chains.

North on true line bet. secs. 1 and 6.
Over steep mountainous country; through heavy cedar and pinon pine timber and sage brush.
Desc.

10.50 Bottom of hollow, 180 ft. below cor. course S. 65° E.
Asc.

30.25 Top of ridge, 300 ft. above hollow bears N. W. and S. E.
Desc.

33.00 Leave timber, bears N. 30° E. and S. 30° W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground; on rock surrounded by a mound of earth and stone; for 1/4 sec. cor. mkd. on brass cap; 1/4 S 1 in W. half and S 6 in E. half, and raised a mound of stone 2 ft. base and 1 1/2 ft. high, west of cor.

44.60 Bottom of swale, 260 ft. below ridge, course E.
Asc.

47.00 Wood road, bears N. W. and S. E.

60.80 Top of ridge, 200 ft. above swale, bears N. 30° E and S. 30° W.
Desc.

69.70 Bottom of swale, 70 ft. below ridge, course N. W.
Asc.

80.00 Set temporary cor. for Tps. 31 + 32 S. & Rs. 10, and N. W.
Land, rough and mountainous; slopes south easterly.
Soil, sandy loam about 18 ins. deep, mixed with rock.
Subsoil, clay and gravel.
Timber, cedar and pinon pine, a very little grass.
Mountainous land or land heavily timbered, 80.00
Asc.

Chains.

April 18, 1911: At this cor. I set off 10°39' N., on the decl. arc; and at 12h. 0.0m. a.m., l.m.t., I observe the sun on the meridian; the resulting lat. is 38°04' N. which is the proper lat. nearly.

East, on a random line along north l. dy. of Tps., setting temp. 1/4 sec. and sec. cors. at intervals of 40.00 chs.; and at 480.90 chs. Intersect E. bdy. of Tps. 5.72 chs. South of the cor. of Tps. 31 and 32 S., Rs. 9 and 10 W. heretofore described.

Apr. 18, 1911.

John R. Stewart
Instrumentman G.L.O.

April 19, 1911: At 7h. 59m. a.m., l.m.t., I set off 38°04' N. on the lat. arc, 10°57' N., on the decl. arc; and determine a meridian with the solar; at the cor. of Tps. 31 and 32 S. Rs. 9 and 10 W.

Thence I run,

West on a true line between secs. 1 and 36.

Over rolling mountainous country; through scattering cedar timber and dense sagebrush.

Asc. gradually.

16.00 Top of asc. 40 ft. above cor. bears N. and S.

Enter mesa.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground on rock

Resurvey N. Bdy. T. 32 S. R. 10 W.

Chains

surrounded by a mound of earth and stone, for 1/4 sec. cor., mkd. on brass cap, 1/4 S 36 N. half and S 1 in S. half, from which,

A cedar, 6 ins. in dia., bears S. 31° 30' E., 134 lks. dist., mkd. 1/4 S 1 B T.

A cedar, 6 ins. in dia., bears N. 56° W., 65 lks. dist., mkd. 1/4 S 36 B T.

41.00 Leave mesa, bears N. and S.

Desc.

45.50 Road from Minersville to Kane Springs, bears N. 70° W. and S. 70° E.

53.00 Bottom of hollow, 90 ft. below mesa, course S. 30 W.

Asc. gradually.

80.00 150 ft. above hollow,

Set an iron post, 3 ft. long, 3 ins. in dia., 16 ins. in the ground, on rock, surrounded by a mound of earth and stone, for cor. of secs. 1, 2, 35, and 36, mkd. on brass cap,

T 31 S S 35 in N. W.
R 10 W S 36 in N. E.
R 10 W S 1 in S. E. and
T 32 S S 2 in S. W. quadrants,

from which,

A cedar, 6 ins. in dia., bears N. 54° E., 275 lks. dist., mkd. T 31 S R 10 W S 36 B T.

A cedar, 8 ins. in dia., bears S. 19° E., 150 lks. dist., mkd. T 32 S R 10 W S 1 B T.

A cedar, 7 ins. in dia., bears S 38° W., 314 lks. dist., mkd. T 32 S R 10 W S 2 B T.

A cedar, 8 ins. in dia., bears N. 82° W., 188 lks. dist., mkd. T 31 S R 10 W S 35 B T.

Asc.

Chains

Land, rolling mountainous, slopes southerly.
Soil, sandy loam, 12 ins. deep.
Subsoil, clay.
Timber, cedar.
Undergrowth, dense sage.
Small patches of grass.
Mountainous land or land covered with cedar timber and dense sage, 80.00 chs.

Apr. 19, 1911.

West on true line bet. secs. 2 and 35.
Over high rolling mountainous country; through scattering cedar timber and heavy sage brush.
Asc.

17.00 Top of ridge, 180 ft. above cor. bears N. 30° W. and S. 30° E.
Desc.

31.80 Bottom of hollow, 150 ft. below ridge, course S. 30° E. Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 17 ins. in the ground, ow rock surrounded by a mound of earth and stone, for 1/4 sec. cor. inkd. on brass cap, 1/4 S 35 in N. half and S 2 in S. half; raise a mound of stone, 2 ft. base and 1 1/2 ft. high, north of cor.

57.00 Top of spur, 150 ft. above hollow, bears N. 50° W. and S. 50° E. Desc.

68.25 Bottom of swale, 100 ft. below spur, course S. 55° E. Asc.

80.00 300 ft. above swale,
Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in ground; ow rock surrounded by a mound of

Chains.

earth and stone, for cor. of secs. 2, 3, 34, and 35, mkd. on brass cap,
T 31 S S 34 in N. W.
R 10 W S 35 in N. E.
S 2 in S. E., and
T 32 S S 3 in S. W. quadrants;
from which,
A cedar, 7 ins. in dia., bears
N. 59° E., 125 lks. dist., mkd.
T 31 S R 10 W S 35 B T.
A cedar, 8 ins. in dia., bears
S. 53° E., 62 lks. dist., mkd.
T 32 S R 10 W S 2 B T.
A cedar, 6 ins. in dia., bears
S. 60° W. 76 lks. dist., mkd.
T 32 S R 10 W S 3 B T.
A cedar, 8 ins. in dia., bears
N. 82° W., 135 lks. dist., mkd.
T 31 S R 10 W S 34 B T.
Land, rolling mountainous, slopes southerly.
Soil, sandy loam, 10 ins. deep.
Subsoil, gravel.
Timber, cedar.
Undergrowth, sage.
A little grass.
Rolling mountainous land or land covered with cedar timber, 80.00 chs.

Apr. 19, 1911.

West on true line between secs. 3 and 34.
Over high rolling mountainous country; through scattering cedar timber and heavy sage brush.
Asc. gradually.
1.20 Top of ridge, 10 ft. above cor. bears N. 40° E. and S. 20° W.
Desc. abruptly.

Resurvey N. Bdy. T. 32 S. R. 10 W. — Continued

Chains.

5.00 Leave timber, bears N. 20° E. and S. 20° W.

40.00 Set an iron post, 3 ft. long, 1 inc. in dia., 18 ins. in the ground, surrounded by a mound of earth, for 1/4 sec. cor. noted on bearcaps 1/4 S 34 in N. half and S 3 in S. half; and dig pits, 18 x 18 x 12 ins., E. and W. of post 3 ft. dist., and raise a mound of earth, 3 ft. base, 1 1/2 ft. high, W. of cor.

44.50 Road from Pawnee to Quincyville in hollow; road bears N. 20° E. and S. 20° W. Hollow, 390 ft. below ridge, course S. 20° W.

Cor.

73.00 Top of ridge, 150 ft. above hollow, bears N. 70 E. and S. 10° W.

Pass.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, which surrounded by a mound of earth and stones for cor. of secs. 3, 4, 33, and 34, noted on bearcaps

T 31 S S 33 in N. W.
R 10 W S 34 in N. E.
S 3 in S. E. and
T 32 S S 4 in S. W. quadrants;

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, high rolling mountainous, slope southwest.

Soil, sandy loam, 12 ins. deep.

Subsoil, gravel.

Timber, scattering cedar.

Undergrowth, dense sage.

Mountainous land, or land covered with scattering cedar timber, 80.00 chs.

Chains

April 19, 1911: At this cor. I set off 11° 00' N. on the decl. arc; and at 11 h. 59 m. a. m., l. m. t., I observe the sun on the meridian; the resulting lat. 38° 04' which is the proper lat. nearly.

West on a true line bet. secs. 4 and 33. Over rolling mountainous country; through dense sage brush.

Desc.

3.90 Bottom of swale, 90 ft. below cor., course S. 30° E.

Asc.

9.00 Top of ridge, 75 ft. above swale, bears N. 20° W. and S. 20° E.

Desc. abruptly.

16.10 Bottom of swale, 90 ft. below ridge, course S. 20° E.

Asc. abruptly.

27.80 Top of ridge, 180 ft. above swale, bears N. 15° W. and S. 15° E.

Desc.

37.80 Bottom of swale, 120 ft. below ridge, course S. 15° E.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 19 ins. in the ground; ow surrounded by a mound of earth and stone, for 1/4 sec. cor. mkd. on brass cap; 1/4 S 33 in N. half and S 4 in S. half, and raise a mound of stone, 2 ft. base and 1 1/2 ft. high N. of cor.

53.00 Top of ridge, 250 ft. above swale, bears N. 10° E. and S. 10° W.

Desc.

62.00 Enter scattering cedar and pinon pine timber, bears N. and S.

Asc.

Resurvey N. Bdy. T. 32 S. R. 10 W. Continue

Chains.

63.40 Bottom of swale, 180 ft. below ridge, course S. 10° W. Asc. abruptly.

80.00 Top of ridge, 400 ft. above swale, bears N. 20° E. and S. 20° W. Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in ground; on rock surrounded by mound of earth and stone, for cor. of secs. 4, 5, 32, and 33, mkd. on brass cap.

T 31 S S 32 in N. W.
R 10 W S 33 in N. E.
S 4 in S. E. and
T 32 S S 5 in S. W. quadrants;
from which.
A cedar, 8 ins. in dia., bears N. 38° 45' E., 60 lks. dist., mkd. T 31 S R 10 W S 33 B T.
A cedar, 10 ins. in dia., bears S. 63° 30' E., 26 lks. dist., mkd. T 32 S R 10 W S 4 B T.
A cedar, 7 ins. in dia., bears S. 70° W. 70 lks. dist., mkd. T 32 S R 10 W S 5 B T.
A cedar, 9 ins. in dia., bears N. 66° 35' W. 51 lks. dist., mkd. T 31 S R 10 W S 32 B T.

Land, rolling mountainous, drains southerly.
Soil, sandy, 10 ins. deep.
Subsoil, gravel.
Timber, cedar and pinon pine.
Undergrowth, sage.
No grass.
Rolling mountainous land or land covered with timber.
80.00 chs.

Apr. 19, 1911.

Chains.

West on a true line bet. secs. 5 and 32.
Over high mountainous country; through heavy timber and dense sage brush.
Desc. abruptly.

10.00 Leave timber, bears N. 20° E. and S.

14.60 Bottom of swale, 160 ft. below cor. course S.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground; on rock surrounded by a mound of earth and stone, for 1/4 sec. cor. mkd. on base cap; 1/4 S 32 in N. half and S 5 in S. half, and raise a mound of stone, 2 ft. base and 1 1/2 ft. high N. of cor.

45.60 Top of point, 500 ft. above swale, bears N. and S.
Desc. abruptly.

53.50 Bottom of swale, 350 ft. below point, course N.
Enter scattering timber, bears N. and S.
Asc. abruptly.

80.00 500 ft. above swale,
Set an iron post, 3 ft. long, 3 ins. in dia., 18 ins. in the ground; on rock surrounded by a mound of earth and stone, for cor. of secs. 5, 6, 31, and 32, mkd. on brass cap,
T 31 S S 31 in N. W.
R 10 W S 32 in N. E.
S 5 in S. E. and
T 32 S S 6 in S. W. quadrants;
and raised a mound of stone, 2 ft. base and 1 1/2 ft. high W. of cor.
Land, high mountainous.
E. 53.50 drains southerly.
W. 26.50 drains northerly.

Resurvey N. Bdy. T. 32 S. R. 10 W. Continue

Chains.

Soil, sandy clay mixed with lava rock.
Subsoil, clay.
Timber, cedar and pinon pine.
Good grass for grazing.
Mountainous land or land covered with heavy timber and dense sage brush. 80.00 chs.

Apr. 19, 1911: At 3 h. 59 m. p. m. l. m. t., I set off 38° 04' N., on the lat. arc; 11° 04' N., on the decl. arc, and determine a meridian with the solar, at this cor.

West, on a true line bet. sec. 6 and 31.
Over high mountainous country; through scattering cedar and pinon pine timber, and sage brush.
Asc.

8.20 Top of ridge, 40 ft. above cor. bears N. 80° W. and S. 80° E.
Desc.

30.00 Bottom of hollow, 70 ft. below ridge, course S.
Asc. gradually.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, mounded by a mound of earth and stone, for 1/4 sec. cor. mkd. on brass cap, 1/4 S 31 in N. half and S 6 in S. half, raise a mound of stone, 2 ft. base and 1 1/2 ft. high, N. of cor.

42.00 Top of ridge, 100 ft. above hollow, bears N. W. and S. E.
Desc.

Resurvey N. Bdy. T 32 S. R. 10 W. Continued

Chains.

55.30 Bottom of hollow, 250 ft. below ridge, course N. W. Asc.

77.00 Top of ridge, 400 ft. above hollow, bears N. 30° W. and S. 30° E. Desc.

80.90 Intersect N. and S. line 5.72 chs. N. of temporary cor.

Set an iron post, 3 ft. long, 3 ins. in dia., 19 ins. in the ground, on rock surrounded by a mound of earth and stone, for cor. of Tps. 31 and 32 S: Ranges 10 and 11 W. mkd. on brass cap;

T 31 S S 36 in N. W.
R 10 W S 31 in N. E.
T 32 S S 6 in S. E. and
R 11 W S 1 in S. W. quadrants;
from which
A cedar, 12 ins. in dia., bears N. 85° 20' E., 247 lks. dist., mkd. T 31 S R 10 W S 31 B T.
A cedar, 8 ins. in dia., bears S. 64° 15' E., 142 lks. dist., mkd. T 32 S R 10 W S 6 B T.
A cedar, 14 ins. in dia., bears S. 57° W., 271 lks. dist., mkd. T 32 S R 11 W S 1 B T.
A cedar, 5 ins. in dia., bears N. 29° W., 114 lks. dist., mkd. T 31 S R 11 W S 36 B T.

Land, high mountainous, slopes north westerly.
Soil, sandy loam, 8 ins. deep.
Subsoil, clay.
Timber, cedar and pinon pine.
Undergrowth, sage.
Mountainous land or land covered with heavy timber, 80.90 chs.

Apr. 19, 1911

Jumby Stewart U.S. Instrumentman

Asc.

Bdys T. 32 S. R. 10 W.

Latitudes, Departures and Closing Errors.

Course	Designated Course		Distance chs.	Latitudes N. chs.	Latitudes S. chs.	Departures E. chs.	Departures W. chs.
Bdy.	T 32 S R 10 W	North	485.72	485.72			
Bdy.	T 32 S R 10 W	East	480.90			480.90	
Bdy.	T 32 S R 10 W	South	486.10		486.10		
Bdy.	T 32 S R 10 W	West	481.33				481.3
	Convergency					.57	
Tals				485.72	486.10	481.47	481.
					485.72	481.33	
					.38		
						.14	
Error in Latitude							
Error in Departure							

Apr. 19, 1911.

Dimity Stewart
Instrumentman G. L.

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Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, 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 _____

_____

showing the respective capacities in which they acted:

_____, *Chainman.*

For list of names and final oath of assistants see book _____, *Chainman.*

"Z 11" T.31 S., R.9 W. _____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

_____

_____

_____ of the _____

_____ meridian, _____ of _____, 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 knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

Subscribed and sworn to before me this _____ day of _____, 19 _____

SEAL

_____

_____

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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 entered into with .... United States Surveyor General for .... bearing date of the .... day of .... 18...., 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 ....

[illegible]

The final oath of John [illegible], Transcribed see Book "[illegible]" [illegible]

[illegible]

.... situated in the .... of .... which are represented in the foregoing field notes as having been surveyed by me, and under my directions; 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 and .... and sworn to before me,

this .... day of .... 18....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

[illegible]

The foregoing field notes of the survey of [illegible]

[illegible]

[illegible]

executed by .... [illegible] .... under his contract .... dated .... August [illegible] 18.... 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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Page

Ex. E.B.

Filed Feb. 17, 1912.
WSH.

4—679

"Z 5"

BOOK A-386

FIELD NOTES

OF THE RESURVEY OF THE

NORTH BOUNDARY

OF

TOWNSHIP NO. 32 SOUTH, RANGE NO. 11 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H.

EXECUTED BY

JOHN R. STEWART AND QUINBY STEWART

In the capacity of U. S. ~~*Surveyor*~~ Transitmen, *under instructions dated* Aug. 6, *1910, issued by the United States Surveyor General to govern surveys included in Group No.* 1, *which were approved by the Commissioner of the General Land Office,* Aug. 25, *1910, pursuant to authority contained in the Act of Congress dated* ....., *191*...

Survey commenced April 23, *1911*

Survey completed April 25, *1911*

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NAMES AND DUTIES OF ASSISTANTS.

Isaac R.Hayes,	Chainman.
J.Clarence Clark,	Chainman.
Edgar S.Hurst,	Moundman.
Virgil Decker,	Axman.

For preliminary affidavits see book "Z 1 " T.33 S., R.11 W.

Preliminary affidavit Virgil Decker, axman, this book.

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INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of .....

..... *Chainman*

..... *Chainman*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of .....

..... *Moundman*

..... *Moundman*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

~~WE~~, I, Virgil Decker ~~and~~ .....
do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the North Boundary of Township 32 South Range 11 West, S.L.B.& M., Utah

Virgil Decker, *Axman*

..... *Axman*

Subscribed and sworn to before me this 23
day of April, 1911, ~~190x~~

SEAL

John R Stewart
U.S. Transitman

I, ..., do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

..... *Flagman*

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

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Resurvey North Bdy. of T.32 S., R.11 W.

Chains

Survey commenced April 23, 1911, and executed with a W. and and L.E. Gurley Explorer's transit, No. 957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single Minutes of arc; which is also the least count of the latitude and declination arcs;

The instrument was examined tested on the meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah, on Mar. 28, 1911.

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

At the cor. of Tps. 31 and 32 S., Rs. 10 and 11 W., heretofore described latitude 38°04'17"N., longitude 112°59'30"W., I set off 38°04'N., on the lat. arc; 12°26'N., on the decl. arc; and at 3 h 58 m p.m., l.m.t., I determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

April 23, 1911.

April 24, 1911, At 5 h 25.5 ma.m., l.m.t., I observe Polaris at eastern elongation in accordance with the Manual and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 500 lks. N. of the cor.

At 7 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris 1°29' to the west and mark a point in the meridian thus determine by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls. 0.31 ins. east of the meridian determined by the solar.

At 7 h 58 m a.m., l.m.t., I set off 38°04'N., on the lat. arc; 12°39'N., on the decl. arc; and mark the meridian deter-

Resurvey North bdy.T.32 S.,R.11 W.-Continued.

Chains

mined with the solar,by a cross on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.29 ins.east of meridian determined with the Polaris observation;

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'16"west and 0'15"east of the meridian determined by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8 h 0 m a.m.,is N.16°13'W.;the angle thus determined gives the mag.decl. 16°13'E.

From the cor.of Tps.31 and 32 S.,Rs.10 and 11 W.,heretofore described I run

West,on a random line along the N.bdy.of the township,set temp.¼ sec.and sec.cors.at intervals of 40.00 chs.and at 479.89 chs.Intersect W.bdy.of Tp.,11.00 chs.N.,of the cor.of Tps.31 and 32 S.,Rs.11 and 12 W.,which is an iron post,3 ins.in dia.,projecting 12 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

Set an iron post 3 ft.long,3 ins.in dia.,24 ins.in the ground,for closing cor.of Tps.31 and 32 S.,Rs.11 W.,Mkd. on brass cap

T 31 S in N half.

T 32 S in S half.

R 12 W S 1 S 36 in W half.

C C in E half

R 11 W S 31 in NE.;and

S 6 in SE.quadrants;from which

A cedar,4 ins.dia.,bears N.23°E.,146 lks. dist.;mkd.T 31 S R 11 W S 31 B T.

A cedar,10 ins.dia.,bears S.75°E.,165 lks. dist.;mkd. T 32 S R 11 W S 6 B T.

Note:I destroy all marks on the cor.of Tps.31 and 32 S.

Chains	
	Rs.11 and 12 W.,which pertain to Tps.31 and 32 S.,R.11 W.
	April 24,1911.
	April 25,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°04'N. on the lat.arc;12°58'30"N.,on the decl.arc;and determine a meridian with the solar at the closing cor.of Tps.32 and 31 S.,R.11 W.;
	Thence I run
	East,on a true line bet.secs.6 and 31.
	Over mountainous land;through heavy cedar and pinon pine timber.Asc.
13.30	~~15.30~~ Top of ridge,150 ft.above cor.,bears N.60°W. and S.50°E.
	Desc.
31.50	Bottom of hollow,150 ft.below ridge,course S.80°E.
	Asc.
38.30	Top of ridge,60 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
39.89	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 31 in N half and S 6 in S half;from which
	A cedar,10 ins.dia.,bears N.45°W.,45 lks. dist..mkd.¼ S 31 B T.
	A cedar,12 ins.dia.,bears S.88°W.,62 lks. dist..mkd.¼ S 6 B T.
43.80	Bottom of hollow,60 ft.below ridge,course S.30°E.
	Asc.
63.45	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
68.70	Bottom of hollow,60 ft.below ridge,course S.
	Asc.
73.00	Top of ridge,50 ft.above hollow,b ars N.and S.
	Desc.

Chains	
79.89	Set an iron post, 3 ft.long,3 ins.in dia.,12 ins.in the ground,on solid rock bottom,and surrounded by mound of earth and stone,for cor.of secs.5,6,31,and 32,mkd.on brass cap T 31 S S 31 in NW. R 11 W S 32 in NE.; R 11 W S 5 in SE.;and T 32 S S 6 in SW.quadrants;from which A cedar,12 ins.dia.,bears N42°E.,79 lks. dist..mkd.T 31 S R 11 W S 32 B T. A cedar,8 ins.dia.,bears S.38°E.,63 lks. dist..mkd.T 32 S R 11 W S 5 B T. A cedar,12 ins.dia.,bears S.5°30'W.,74 lks. dist..mkd.T 32 S R 11 W S 6 B T. A cedar,12 ins.dia.,bears N.34°30'W.,134 lks. dist..mkd.T 31 S R 11 W S 31 B T. Land ,mountainous on entire mile ,the slopes are somewhat gradual and covered with small rock. Soil,red sand and gravel;2nd rate,about 15 ins.deep,on subsoil of hard gravel and sandstone. Timber,cedar and pinon pine on entire mile heavy but scrubby. A very little grass. Mountainous or heavily timbered land,79.89 chs. East,on a true line bet.secs.5 and 32. Over mountainous land;through heavy cedar and pinon pine timber and scattering sage brush. Desc.
38.85	Bottom of hollow,200 ft.below sec.cor.,course S.20°E. Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ⊕ sec.cor.,mkd.on brass cap ¼ S 32 in N half

Chains	
	and S 5 in S half;from which
	A cedar,12 ins.dia.,bears N.77°W.,112 lks.
	dist.,mkd. S 32 B T.
	A cedar,12 ins dia.,nbears S.80°W.,132 lks.
	dist.,mkd. S 5 B T.
62.75	Top of ridge,175 ft.above hollow,bears NE and SW.
	Desc.
77.00	Bottom of hollow,175 ft.below ridge,course SW.
	Asc.
78.00	Old road,bears NE and SW.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,14 ins.in the ground,on solid rock,and surrounded by mound of earth and stone,for cor.of secs.4,5,32,and 33,mkd.on brass cap
	T 31 S S 32 in NW.
	R 11 W S 33 in NE.;
	R 11 W S 4 in SE.;and
	T 32 S S 5 in SW.quadrants;from which
	A cedar,10 ins.dia.,bears S.83°E.,90 lks.
	dist.,mkd.T 32 S R 11 W S 4 B T.
	A cedar,10 ins.dia.,bears S.27°45'W.,67 lks.
	dist.,mkd.T 32 S R 11 W S 5 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainus.
	Soil,sandy loam;2nd rate about 2 ft.deep,on rocky subsoil.
	Timber,cedar and pinon pine,scrubby.
	Undergrowth,scattering sage brush.
	A very little grass.
	Mountainous or heavily timbered land,80.00 chs.

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

Over mountainous land;through scattering timber and dense sage brush.

North bdy.T.32 S.,R.11 W.-Continued.

Chains	
	Asc.
12.30	Top of spur,100 ft.above cor.,bears NE and SW.
	Desc.
20.50	Bottom of hollow,50 ft.below spur,course SW.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,20 ins.in the ground,on solid rock,and surrounded by mound of earth and stone,for ¼ sec.cor.,mkd.on brass cap ¼ S 33 in N half and S 4 in S half;from which
	A cedar,9 ins.dia.,bears N.54°W.,15 lks. dist.,mkd.¼ S 33 B T.
	A cedar,8 ins.dia.,bears S.75°E.,13 lks. dist.,mkd.¼ S 4 B T.
48.75	Top of ridge,100 ft.above hollow,bears N.10°W.and S.10° E.
	Desc.
58.15	Bottom of hollow,50 ft.below ridge,course N.10°W.
	Asc.
60.00	Top of abrupt ascent,bears N.and S.;90 ft.above hollow, Asc.gradually.
80.00	Top of ridge,200 ft.above hollow,bears NE and SW.
	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.3,4,33,and 34,mkd.on brass cap
	T 31 S S 33 in NW.
	R 11 W S 34 in NE.
	R 11 W S 3 in SE.;and
	T 32 S S 4 in SW.quadrants;from which
	A cedar,8 ins.dia.,bears N.13°E.,20 lks. dist.,mkd.T 31 S R 11 W S 34 B T.
	A cedar,4 ins.dia.,bears S.61°E.,109 lks. dist.,mkd.tT 32 S R 11 W S 3 B T.
	A cedar,6 ins.dia.,bears S.16°15'W.,70 lks. dist.mkd. T 32 S R 11 W S 4 B T.
	A cedar,4 ins.dia.,bears N.65°40'W.,78 lks. dist.,mkd.T 31 S R 11 W S 33 B T.
	Land,mountainous on entire mile;with gradual slopes

Chains	
	on West half and steep slopes on E.half.
	Soil red sand and gravel,rocky volcanic basalt and diarite and about 16 ins.deep.E.60.00 chs.Heavy timber and W. 20.chs.scattering timber.Dense sage brush on entire mile. A very little grass.
	Mountainous or heavily timbered land or land covered with dense undergrowth,80.00 chs.
	April 25,1911:At this cor.I set off 13°01'N.,on the decl. arc;and at 11 h 58 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°04'N.,which is the proper lat.nearly.
	East,on a true line bet.secs.3 and 34.
	Over mountainous land;through heavy cedar and pinon pine timber and dense sage brush.
	Desc.
23.50	Bottom of hollow,150 ft.below sec.cor.,course SW.
	Leave heavy and enter scattering timber,bears NE and SW.
	Asc.
28.60	Old road,bears NE and SW.
39.50	Top of spur,75 ft.above hollow,bears N.and S.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,16 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec.cor..mkd.on brass cap ¼ S 34 in N half and S 3 in S half;from which
	A cedar,6 ins.dia.,bears N.26°E.,52 lks. dist..mkd.¼ S 34 B T.
	A cedar,10 ins.dia.,bears S.9°E.,16 lks. dist..mkd.¼ S 3 B T.
43.00	Bottom of hollow,50 ft.below ridge,course N.
	Road in bottom,bears N and S. Asc.
58.60	Top of ridge,150 ft.above hollow,bears N.and S.

Resurvey North bdy.T.32 S.,R.11 W. Continued.

Chains	
	Desc.
70.00	Bottom of same hollow,100 ft.below ridge,course S.
	Old road in bottom,bears N.and S.
	Asc.
77.00	Top of spur,60 ft.above hollow,bears N.and S.
	Desc.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.2,3,34,and 35,mkd.on brass cap
	T 31 S S 34 in NW.
	R 11 W S 35 in NE.
	R 11 W S 2 in SE.;and
	T 32 S S 3 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous with steep slopes .
	Soil,sandy and gravelly;2nd rate about 2 ft.deep.Subsoil, clay and gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing .
	Mountainous or heavily timbered land,80.00 chs.
	East,on a true line bet.secs.2 and 35.
	Over mountainous land;through dense sage brush.
	Desc.
.40	Bottom of hollow,10 ft.below sec.cor.,course NE. Asc.
.60	Old road,bears N.10°E.and S.10°W.
7.00	Top of spur,90 ft.above hollow,bears N.and S.
	Desc.abruptly.
11.55	Foot of descent,100 ft.below spur,bears N.and S.
	Enter Horse Valley.
14.00	Old road,bears N.60°E.and S.60°W.
21.35	Same road,bears NW and SE.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the

Resurvey North bdy.T.32 S.,R.11 W.°Continued.

Chains	
	ground,for ¼ sec.cor.mkd.on brass cap ¼ S 35 in N half and S 2 in 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.
47.50	Same road,bears N.15°E.and S.15°W.
54.00	Old road,bears NE and SW.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.1,2,35,and 36, mkd.on brass cap T 31 S S 35 in NW. R 11 W S 36 in NE. R 11 W S 1 in SE.;and T 32 S S 2 in SW.quadrants;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.
	W.11.55 chs.mountainous land;throuhg dense sage brush Soil sandy loam about 1 ft.deep,subsoil,clay and gravel.
	E.68.45 chs.over rolling valley land.rich sandy soil 1st rate and about 3 ft.deep.Dense sage brush.Good grass. Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	— —
	East,on a true line bet.secs.1 and 36.
	Over nearly level land in Horse Valley;through dense high sage brush.
	Asc.
28.85	Old road,bears NW and SE.
30.00	Leave Horse Valley,bears NW and SE.
	Asc.west slope of ridge.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.mkd.on brass cap ¼ S 36 in N.half and S 1 in S half;from which A cedar,6 ins.dia.,bears N.64°W.,265 lks. dist..mkd.¼ S 36 B T. A cedar,6 ins.dia.,bears S.8°W.,118 lks.

North bdy.T.32 S.,R.11 W.°-Continued.

Chains	dist;mkd.¼ S 1 B T.
50.00	Top of ridge,150 ft.above valley,bears N.and S.
	Desc.
68.00	Bottom of hollow,75 ft.below ridge,course NW.
	Asc.
80.00	The cor.of Tps.31 and 32 S.,Rs.10 and 11 W.
	W.30.00 chs.rolling valley land,gradual west slope; soil,rich sandy loam about 2 ft.deep,1st rate.Subsoil gravel.Dense ,high sage brush.
	E.50.00 chs.rolling mountainous land,smooth slopes,soil, red sand about 10 ins.deep.Subsoil,sandstone and gravel. Dense sage and a few scattering cedars.
	Mountainous land,or land covered with dense sage brush.
	80.00 chs.

April 25,1911.

Boundaries of T.32 S., R.11 W.

Line designated	Course	dist-ance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
W.bdy.Tp.32 S.,R.11 W.	N.0°11'E.	474.95 chs.	474.95 chs.		1.52 chs.	
W.bdy.T.32 S.,R.11 W.	North	11.00	11.00			
N.bdy.T.32 S.,R.11 W.	East	479.89			479.89	
E.bdy.T.32 S.,R.11 W.	South	485.72		485.72		
S.bdy.T.32 S.,R.11 W.	West	481.70				481.7
Convergency					.57	
Totals			485.95	485.72	481.98	481.7
			485.72		481.70	
Error in lat.			.23			
Error in dep.					.28	

GENERAL DESCRIPTION.

For general description see sub.of township.

John R. Stewart
U.S.Transitman.

April 25,1911.

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

LIST OF NAMES.

A list of the names of the individuals employed by John R. Stewart, United States ~~Deputy Surveyor~~ transitman, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of N.bdy. T.33 S., R.11 W. and N.bdy. T.32 S., R.11 W. showing the respective capacities in which they acted:

Isaac R. Hayes, *Chainman.*

J. Clarence Clark, *Chainman.*

Edgar S. Hurst, *Moundman.*

Virgil Decker, ~~*Moundman.*~~ *Axman.*

, *Axman.*

, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John R. Stewart, United States ~~Deputy Surveyor~~ transitman, in surveying all those parts or portions of the N.bdy. T.33 S., R.11 W. and T.32 S., R.11 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 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.

Isaac R. Hayes, *Chainman.*

J. Clarence Clark, *Chainman.*

, *Maundman.*

Edgar S. Hurst, *Moundman.*

Virgil Decker, *Axman.*

, *Axman.*

, *Flagman.*

Subscribed and sworn to before me this 25th day of April, 1911.

SEAL

John R. Stewart
U.S. Transitman

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TRANSITMAN

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

I, John R. Stewart, United States ~~Deputy Surveyor~~ transitman, do solemnly swear that, in pursuance of a SPECIAL INSTRUCTIONS contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 6th day of August, 1910, 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 Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of W.bdy.T.33 S.,R.11 W.and E.bdy.T.32 S.,R.11 W. ;resurvey W.bdy.T.31 S.R.9 W.; W.bdy.T.32 S.R.10 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes in books Q, Z1, Z3, & Z5 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John R. Stewart
United States Deputy Surveyor
U.S.Transitman..

Subscribed by said John R. Stewart, and sworn to before me this 5th day of April, 1912

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 19

The foregoing field notes of the survey of the North Boundary of Township No. 32 South Range No.11 West of the Salt Lake Base and Meridian, Utah, executed by John R. Stewart under his special instructions, dated August 6, 1910, ~~19~~, 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
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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FILED
FEB 17 1912

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

of

Township No. 32 South, Range No. 11 West

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

John R. Stewart and Quinby Stewart

In the capacity of U. S. ~~Surveyors~~ Transitmen, *under instructions dated* August 6, 191 0, *issued by the United States Surveyor General to govern surveys included in Group No.* 1, *which were approved by the Commissioner of the General Land Office,* August 28, 191 1, *pursuant to authority contained in the Act of Congress dated* 191

Survey commenced April 21, 191 1

Survey completed May 19, 191 1.

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For list and preliminary affidavits of assistants see book "X"
T. 34 S., R. 10 W.

Subdivision of T.32 S.,R.11 W.

Survey commenced April 21,1911,and executed with a W.and L.E.Gurley Explorer's transit,No.957 with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other .reading to single minutes of arc;which is also the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct and was approved by the surveyor general for Utah,on Mar.28,1911.

Note:For test of instrument see notes of N.bdy.T.32 S.,R. 11 W.

At the cor.of secs.1,2,35,and 36,on S.bdy.of Tp.,latitude, 37°59'04"N.,longitude 113°00'36"W.,I set off 37°59'N.,on the lat.arc;11°38'N.,on the decl.arc;and at 7 h 59 m a.m.,l. m.t.,I determine a meridian with the solar,

From this corner, heretofore described, I run

N.0°01'W.,bet.secs.35 and 36.

Over rolling land;through dense sage brush.Asc.

40.00 Set an iron post,3 ft.long,1in.in dia.,26 ins.in the ground,for ¼ sec.cor.mkd.on brass cap ¼ S 35 in W half and S 36 in E half;dig pits,18x18x12 ins.N.and S.of post, 3 ft.dist.;and raise a mound of earth,3 ½ ft.base,1½ ft. high,W.of cor.

65.00 Begin more gradual ascent,bears E.and W.

70.00 Wood road,bears NW and SE.

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

T 32 S S 26 in NW.

R 11 W S 25 in NE.

S 36 in SE.;and

S 35 in SW.quadrants;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 .

Soil,sandy loam,2nd rate.2 ft.deep.

Chains	
	No timber.
	Undergrowth,sage brush .
	A little grass.
	Land covered with dense undergrowth,80.00 chs.
	East,on a random line bet.secs.25 and 36.
40.00	Set temp.¼ sec.cor.
79.94	Intersect E.bdy.of Tp.,at the cor.of secs.25,30,31,and 36, heretofore described.
	Thence I run
	West,on a true line bet.sec.25 and 36.
	Over rolling land;through dense sage brush.
	Desc.gradually.
2.75	Wash,25 lks.wide,3 ft.deep,course S.
	Asc.gradually.
39.97	Set an iron post,3 ft.long,1in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 25 in N half and S 36 in 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.
62.00	Wash,30 lks.wide,4 ft.deep,course S.
67.00	Begin ascent,bears N.and S.
79.00	Wood road,bears N.30°W,and S.30°E.
79.94	The cor.of secs.25,26,35,and 36.
	Land,rolling .
	Soil,sandy loam 2 ft,deep,2nd rate.Subsoil,clay.
	No timber.
	Undergrowth,sage brush.
	Good grass in patches.
	Land covered with dense undergrowth,79.94 chs
	N.0°01'W.,bet.secs.25 and 26.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Over rolling land;through dense sage brush.
	Asc.
1.40	Wood road,bears N.30°W.and S.30°E.
30.00	Enter scattering timber,bears E.and W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd. ¼ S 26 in W half and S 25 in E half;from which
	A cedar,6 ins.dia.,bears N.16°E.,48 lks.
	dist..mkd.¼ S 25 B T.
	A cedar,24 ins.dia.,bears S.88 °W.,37 lks.
	dist..mkd.¼ S 26 B T.
50.00	Ascend more abruptly,bears E.and W.
55.00	Asc,more gradually,bears E.and W.
63.00	Wood road,bears N.35°W.and S.35° E.
	Hollow,course S.35°E.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in the dia.,24 ins.in ground,for cor.of secs.23,24,25,and 26,mkd.on brass cap
	T 32 S S 23 in NW.
	R 11 W S 24 in NE.
	S 25 in SE.;and
	S 26 in SW.quadrants;from which
	A cedar,5 ins.dia.,bears N.24°E.,28 lks.
	dist..mkd.T 32 S R 11 W S 24 B T.
	A cedar,8 ins.dia.,bears S.1°E.,11 lks.
	dist..mkd.T 32 S R 11 W S 25 B T.
	A cedar,12 ins.dia.,bears S.14°W.,62 lks.
	dist..mkd.T 32 S R 11 W S 26 B T.
	A cedar,10 ins.dia.,bears N.57°W.,37 lks.
	dist..mkd.T 32 S R 11 W S 23 B T.
	Land,rolling and hilly;south slope.
	Timber,cedar and pinon pine.
	Soil,sandy loam;2nd rate.1 ft.deep,on hard clay subsoil.
	Undergrowth,sage brush.
	Good grass in patches.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	April 21,1911,At this cor.I set off 11°41'N.,on the decl.
	arc;and at 11 h 59 m a.m.,l.m.t.,I observe the sun on
	the meridian,the resulting lat.is 38°01'N.,which is the
	proper lat.nearly.
	East,on a random line bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
79.90	Intersect E.bdy.of Tp.,5 lks. N.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 rolling land;through dense sage brush.
	Desc.gradually.
7.00	Bottom of swale,10 ft.below cor.,course S.35°W.
	Asc.
19.00	Wood road,bears N.30°W.and S.30°E.
39.95	Top of ridge,150 ft.above swale,bears N.30°W.and S.30°E.
	Set an iron post,3 ft.long ,1 in.in dia.,26 ins.in the
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S 24 in N half
	and S 25 in S half;and raise a mound of stone,2 ft.base,
	1½ ft.high,N.of for.
	Desc.
46.00	Enter heavy cedar and pinon pine timber,bears N.and S.
	Bottom of hollow,50 ft.below ridge,course S.30°E.
	Asc.
58.65	Top of ridge,75 ft.above hollow,bears N.and S.
	Desc.
75.00	Bottom of hollow,30 ft.below ridge,course S.
	Asc.
79.90	The cor.of secs.23,24,25,and 26.
	Land,rolling and mountainous .
	Soil,sandy loam about 1 ft.deep,subsoil,clay.

Chains	
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.90 chs.
	N.0-01'W.,bet.sec.23 and 24.
	Over mountainous land,through heavy timber and dense sage brush.
	Asc.
29.00	Top of ridge,60 ft.above cor.,bears NE and SW.
	Desc.
32.00	Bottom of swale,40 ft.below ridge,course SW.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.mkd.on brass cap ¼ S 23 in W half and S 24 in E half;from which
	A cedar,8 ins.dia.,bears S.72°30'E.,116 lks. dist..mkd.¼ S 24 B T.
	A cedar,16 ins.dia.,bears S.19°W.,129 lks. dist..mkd.¼ S 23 B T.
64.75	Wash,20 lks.wide,8 ft.deep,course SW.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.13,14,23,and 24,mkd. on brass cap
	T 32 S S 14 in NW.
	R 11 W S 13 in NE.
	S 24 in SE.;and
	S 23 in SW.quadrants;from which
	A cedar,8 ins.dia.,bears N.10°30'E.,29 lks. dist..mkd.T 32 S R 11 W S 13 B T.
	A cedar,6 ins.dia.,bears S.44°E.,142 lks. dist..mkd.T 32 S R 11 W S 24 B T.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	A cedar,5 ins.dia.,bears S.7°W.,42 lks.
	dist.mkd.T 32 S R 11 W S 23 B T.
	A cedar,7 ins.dia.,bears N.72°W.,39 lks.
	dist..mkd.T 32 S R 11 W S 14 B T.
	Land,mountainous with steep slopes .
	Soil,sandy and gravelly loam about 1 ft.deep.Subsoil, clay and rock.
	Timber,cedar and pinon pine .
	Undergrowth,short sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	S.89°58'E.,on a random line bet.secs.13 and 24.
40.00	Set temp.¼ sec.cor.
79.84	Intersect E.bdy.of Tp.,at the cor.of secs.13,18,19,and 24,heretofore described.
	Thence I run
	N.89°58'W.,on a true line bet.secs.13 and 24.
	Over mountainous land;through heavy cedar and pinon pine timber;and dense sage brush.
	Desc.
2.00	Bottom of swale,10 ft.below cor.,course SE.
	Asc.
20.00	Top of ridge,30 ft.above swale,bears NW and SE.
	Desc.
24.50	Bottom of hollow,25 ft.below ridge,course SE.
	Asc.
39.92	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 13 in N half and S 24 in S half;from which
	A cedar,5 ins.dia.,bears N.2°E.,58 lks.
	dist..mkd.¼ S 13 B T.
	A cedar,5 ins.dia.,bears S.17°30'E.,97 lks.

Chains	
	dist.mkd. S 24 B T.
	Top of ridge,75 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
50.90	Bottom of hollow,50 ft.below ridge,course S.30°E.
	Asc.
57.00	Top of ridge,75 ft.above hollow,bears N.30°W.and S.30° E.
	Desc.
79.84	The cor.of secs.13,14,23,and 24.
	Land,broken and mountainous .
	Soil,sandy loam and rocky;2nd and 3rd rate.1 ft.deep.
	Subsoil,gravel and rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.84 chs.
	April 21,1911.

	April 22,1911:At 7 h 59 m a.m.,l.m.t.,I set off 38°01'40" N.on the lat.arc;11°59'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 heavy cedar and pinon pine timber and dense sage brush.
	Asc.
23.70	Top of ridge,200 ft.above cor.,bears E.and W.
	Desc.
29.00	Enter volcanic boulders,bears E.and W.
30.00	Bottom of hollow,60 ft.below ridge,course W.

Chains	
	Leave boulders,bears E.and W.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.mkd.on brass cap ¼ S 14 in W half and S 13 in E half;from which
	A cedar,16 ins.diam.bears N.30°E.,3 lks. dist..mkd.¼ S 13 B T.
	A cedar,16 ins.dia.,bears N.80°W.,32 lks. dist..mkd.¼ S 14 B T.
	Continue ascent along side of ridge.
60.00	Top of ridge,160 ft.above hollow,bears NW and SE.
	Desc.
63.50	Bottom of hollow,50 ft.below ridge,course SE.
	Asc.
78.00	Top of ridge,200 ft.above hollow,bears NW and SE.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.11,12,13,and 14,mkd.on brass cap
	T 32 S S 11 in NW.
	R 11 W S 12 in NE.
	S 13 in SE.;and
	S 14 in SW.quadrants;from which
	A cedar,10 ins dia.,bears N.22°45'E.,10 lks.dist mkd.T 32 S R 11 W S 12 B T.
	A cedar,10 ins.dia.,bears S.25°45'E.,26 lks. dist..mkd.T 32 S R 11 W S 13 B T.
	A cedar,8 ins.dia.,bears S.6°30'W.,49 lks. dist..mkd.T 32 S R 11 W S 14 B T.
	A cedar,10 ins.dia.,bears N.21°W.,72 lks. dist..mkd.T 32 S R 11 W S 11 B T.
	Land,mountainous and rough .
	Soil,sandy and gravelly loam about 2 ft.deep.subsoil, gravel and rock .
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	No grass .

Chains	
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	S.89°58'E.,on a random line bet.secs.12 and 13.
40.00	Set temp.¼ sec.cor.
79.78	Intersect E.bdy.of Tp.,5 lks.S.of the cor.of secs.7,12,13, and and 18,heretofore described.
	Thence I run
	West,on a true line bet.secs.12 and 13.
	Over mountainous land;through heavy cedar and pinon pine timber and dense sage brush.
	Asc.
6.00	Begin more abrupt ascent,over volcanic boulders and ledges,bears N.and S.
15.60	Top of ridge,150 ft.above sec.cor.,bears NE and W.
	Thence along top of ridge.
27.25	Descend from top of ridge,bears NW and E.
36.70	Bottom of hollow,70 ft. below ridge,course S.
	Asc.
39.89	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 12 in N half and S 13 in S half;from which
	A pinon pine,14 ins.dia.,bears N.,3 lks. dist..mkd.¼ S 12 B T.
	A cedar,8 ins.dia.,bears S.57°E.,24 lks. dist..mkd.¼ S 13 B T.
79.78	The cor.of secs.11,12,13,and 14.
	Land,mountainous ,very steep and rough .
	Soil,rocky;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.78 chs.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	April 22,1911:At this cor.I set off 12°01'N.,on the decl. arc;and at 11 h 59 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°03'N.,which is the proper lat.nearly.
	—
	N.0°01'W.,bet.secs.11 and 12.
	Over mountainous land;through heavy cedar and pinon pine timber.and dense sage brush.
	Asc.over volcanic rocks.
3.45	Begin descent,bears E.and W.
6.00	Leave volcanic rocks,bears E.and W.
10.00	Top of ridge,bears N.30°E.and S.30°W.
	Desc.
13.80	Bottom of hollow,75 ft.below ridge,course W.
	Asc.
30.00	Top of ridge,60 ft.above hollow,bears NW and SE.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 11 in W half and S 12 in E half;from which
	A cedar,14 ins.dia.,bears S.11°E.,26 lks. dist..mkd.¼ S 12 B T.
	A cedar,4 ins.dia.,bears S.64°W.,83 lks. dist..mkd.¼ S 11 B T.
	Bottom of hollow,60 ft.below ridge,course N.60°E.
	Asc.
50.00	Top of ridge,75 ft.above hollow,bears N.30°E.and S.30° W.
	Desc.
55.00	Top of same ridge,bears NW and SE.
	Desc.
60.00	Leave timber,bears E.and W.
80.00	Set an iron post,3 ft.long, 2 ins.in dia.,24 ins.in the

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	ground,for cor.of secs.1,2,11,and 12,mkd.on brass cap
	T 32 S S 2 in NW.
	R 11 W S 1 in NE.
	S 12 in SE.;and
	S 11 in SW.quadrants;and raise a mound of stone,
	2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,gravelly;2nd rate.1 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered
	with dense undergrowth,80.00 chs.
	East,on a random line bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.
79.70	Intersect E.bdy.of Tp.,12 lks.S.of the cor.of secs.1,6,
	7,and 12,heretofore described.
	Thence I run
	N.89°55'W.,on a true line bet.secs.1 and 12.
	Over mountainous land;through dense undergrowth and
	scattering timber.
	Asc.
10.60	Top of ridge,100 ft.above cor.,bears NW and SE.
	Desc.
14.00	Bottom of hollow,75 ft.below ridge,course SE.
	Asc.
39.85	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S 1 in N half
	and S 12 in S half;from which
	A cedar,5 ins.dia.,bears N.2°30'E.,44 lks.
	dist..mkd.¼ S 1 B T.
	A cedar,8 ins.dia.,bears S.45°30'E.,63 lks.
	dist..mkd.¼ S 12 B T.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Leave timber,bears N.and S.
43.80	Top of ridge,300 ft.above hollow,bears N.20°E.and S.20° W.
	Desc.
74.50	Bottom of hollow,400 ft.below ridge,course NW.
	Asc.
79.70	The cor.of secs.1,2,11,and 12.
	Land,mountainous ,steep slopes.
	Soil,gravelly and rocky;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush and a few service berry brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 79.70 chs.
	April 22,1911.
	April 26,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°03'N. on the lat.arc;13°18'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.¼ sec.cor.
85.60	Intersect N.bdy.of Tp.,12 lks.East of the cor.of secs.,1 2,35,and 36,heretofore described.
	Thence I run
	S.0-°06'E.,on a true line bet.secs.1 and 2.
	Over rolling land and Horse Valley;through dense sage brush.
	Asc.
10.00	Enter heavy cedar and pinon pine timber,bears E.and W.
45.60	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 2 in W half

Chains	
	and S 1 in E half;from which
	A cedar,6 ins.dia.,bears N.59°E.,15 lks. dist..mkd.+ S 1 B T.
	A cedar,12 ins.dia.,bears N.64°W.,35 lks. dist..mkd.+ S 2 B T.
46.60	Leave Horse Valley,bears E.and W.
	Asc.
47.00	Leave timber,bears E.and W.
53.90	Top of spur,50 ft.above valley,bears E.and W.
	Desc.
60.60	Bottom of hollow,40 ft.below spur,course N.75°W.
	Asc.
65.60	Top of ridge,60 ft.above hollow,bears NE and SW.
	Desc.
70.50	Bottom of hollow,75 ft.below ridge,course S.60°W.
	Asc.
72.00	Top of spur,30 ft.above hollow,bears E.and W.
	Desc.
73.90	Bottom of hollow,30 ft.below spur,course NW.
	Asc.
85.60	The cor.of secs.1,2,11,and 12.
	Land,nearly level on N.46.60 chs.soil,sandy loam;2 ft. deep,subsoil clay.Timber,cedar and pinon pine and under growth,tall sage brush.
	S.39.00 chs. mountainous and rocky soil,gravelly about 1 ft.deep.No timber.Undergrowth,short sage brush. Good grass.
	Mountainous or heavily timber land or land covered with dense undergrowth,85.60 chs.
	April.26,1911:At the noon hour the sky is overcast and solar observations are impossible.

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

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	N.0°01'W.,bet.secs.34 and 35.
	Over mountainous land;through scattering timber and dense short sage brush.
	Desc.
17.60	Bottom of hollow,50 ft.below.cor.m,course S.60°E.
	Asc.
35.00	Enter heavy cedar and pinon pine timber,bears E.and W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ½ S 34 in W half and S 35 in E half;from which
	A cedar,15 ins.dia.,bears S.75°E.,45 lks. dist..mkd.¼ S 35 B T.
	A cedar,8 ins.dia.,bears N.70°W.,64 lks. dist..mkd.½ S 34 B T.
57.50	Top of spur,75 ft.above hollow,bears NW and SE.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.26,27,34,and 35,mkd.on brass cap
	T 32 S S 27 in NW.
	R 11 W S 26 in NE.
	S 35 in SE.;and
	S 34 in SW.quadrants;from which
	A cedar,6 ins.dia.,bears N.22°30'E.,27 lks. dist..mkd.T 32 S R 11 W S 26 B T.
	A cedar,6 ins.dia.bears S.64°E.,14 lks. dist..mkd.T 32 S R 11 W S 35 B T.
	A cedar,10 ins.dia.,bears S.40°W.,24 lks. dist..mkd.T 32 S R 11 W S 34 B T.
	A cedar,10 ins.dia.,bears N.5°W.,18 lks. dist..mkd.T 32 S R 11 W S 27 B T.
	Land,mountainous with smooth slopes.
	Soil,sandy loam about 18 ins.deep.2nd rate.
	Subsoil,clay and gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	East,on a random line bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line,at the cor.of secs.25,26,35,and 36.
	Thence I run
	West,on a true line bet.secs.26 and 35.
	Over rolling land;through dense undergrowth.
	Asc.
5.90	Old road,bears NW and SE.
15.00	Enter heavy cedar and pinon pine timber,bears N.and S.
22.00	Top of ridge,100 ft.above cor.,bears N.and S.
39.99	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 26 in N half and S 35 in S half;from which
	A cedar. 12 ins.in dia.,bears N.43°E.,13 lks. dist..mkd.¼ S 26 B T.
	A cedar,12 ins.diam.bears S.33°W.,33 lks. dist..mkd.¼ S 35 B T.
65.00	Wood road,bears NW and SE.
	Bottom of hollow,50 ft.below ridge,course SE.
	Asc.
79.98	The cor.of secs.26,27,34,and 35.
	Land,rolling and mountainous.
	Soil,sandy and gravelly ;2nd and 3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.98 chs.

Chains

N.0°01'W.,bet.secs.26 and 27.

Over mountainous land;through dense sage brush and heavy timber.

Desc.

14.40 Road,bears NW and SE.

Bottom of hollow,50 ft.below cor.,course SE.

Asc.

33.00 Top of ridge,100 ft.above hollow,bears E.and W.

Desc.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 27 in W half and S 26 in E ha lf;from which

A cedar,6 ins.dia.,bears S.48°E.,96 lks. dist..mkd.¼ S 26 B T.

A cedar,12 ins.dia.,bears N.26°W.,126 lks. dist..mkd.¼ S 27 B T.

45.00 Bottom of hollow, 50 ft.below ridge,course S.30°W.

Asc.

75.00 Top of ridge,200 ft.above hollow,bears N.60°W.and S.60° E.

Desc.

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

T 32 S S 22 in NW.

R 11 W S 23 in NE.

S 26 in SE.;and

S 27 in SW.quadrants;from which

A cedar,7 ins.dia.,bears N.76°45'E.,132 lks. dist..mkd.T 32 S R 11 W S 23 B T.

A cedar,24 ins.dia.,bears S.10°45'E.,146 lks. dist..mkd.T 32 S R 11 W S 26 B T.

A cedar,10 ins.dia.,bears S.74°30'W.,78 lks. dist..mkd.T 32 S R 11 W S 27 B T.

A cedar,8 ins.dia.,bears N.51°W.,97 lks. dist..mkd.T 32 S R 11 W S 22 B T.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Land,mountainous.
	Soil,sandy loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	April 26,1911.
	April 27,1911:At 7 h 58 m a.m.,l.m.t.I set off 38°01'N., on thelat.arc;13°37'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
	East,on a random line bet.secs.23 and 26.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,5 lks.N.of the cor.of secs.23,24, 25,and 26.
	Thence I run
	N.89°58'W.,on a true line bet.secs.23 and 26.
	Over mountainous land;through heavy cedar and pinon pine timber and scattering rabbit and sage brush.
	Asc.
4.00	Top of ridge,25 ft.above cor.,bears N.30°W.and S.30°E.
	Desc.
12.00	Wood road,bears NW and SE.
	Bottom of hollow,75 ft.below ridge,course SE.
	Asc.
37.50	Top of spur,50 ft.above hollow,bears N.and S.
	Desc.
	Leave timber,bears N.and S.
40.01	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 23 in N half and S 26 in S half;and raise a mound of stone,2 ft.base,1½

Chains	
.	High N.of cor.
41.00	Bottom of hollow,200 ft.below ridge,course S.
	Asc.
70.00	Enter heavy cedar and pinon pine timber,bears N.and S.
80.02	The cor.of secs.22,23,26,and 27.
	Land,mountainous .
	Soil,sandy loam;2 ft.deep .2nd rate.Subsoil,clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.and sabbit brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.02 chs.
	N.0°01'W.,bet.secs.22 and 23.
	Over mountainous land;through heavy cedar and pinon pine timber and dense sage brush.
	Desc.
4.00	Desc.more gradually.,bears E.and W.
11.00	Desc.more abruptly.bears E.and W.
16.00	Begin ascent,bears NW and SE.
20.00	Wood road,bears NW and SE.
	Wash,20 lks.wide,2 ft.deep,course S.60°E.
40.00	Top of spur,100 ft.above sec.cor.,bears NE and SW.
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 22 in W half and S 23 in E half;from which
	A cedar,7 ins.dia.,bears N.70°E.,38 lks. dist..mkd.¼ S 23 B T.
	A cedar,4 ins.dia.,bears N.10°W.,22 lks. dist..mkd.¼ S 22 B T.
	Desc.
48.50	Desc.more gradually,bears NW and SE
55.00	Asc.gradually,bears NW and SE.
60.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the

SubIT.32 S.,R.11 W.-Continued.

Chains

ground,for cor.of secs.14,15,22,and 23,mkd.on brass cap

T 32 S S 15 in NW.

R 11 W S 14 in NE.

S 23 in SE.;and

S 22 in SW.quadrants;from which

A cedar,8 ins.dia.,bears N.39°E.,15 lks.

dist..mkd.T 32 S R 11 W S 14 B T.

A cedar,8 ins.dia.,bears S.44°E.,122 lks.

dist..mkd.T 32 S R 11 W S 23 B T.

A cedar,5 ins.dia.,bears S.33°W.,50 lks.

dist..mkd.T 32 S R 11 W S 22 B T.

A cedar,10 ins.dia.,bears N.63°W.,25 lks.

dist..mkd.T 32 S R 11 W S 15 B T.

Land,mountainous East slope.

Soil,sandy loam about 2 ft.deep,2nd rate.Subsoil,clay.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

April 27,1911.At the noon hour the sky is overcast and solar observations are impossible.

S.89°58'E. ,on a random line bet.secs.14 and 23.

40.00 Set temp. ¼ sec.cor.

80.06 Intersect N.and S.line,5 lks.S.of the cor.of secs.13,14, 23,and 24.

Thence I run

West,on a true line bet.secs.14 and 23.

Over mountainous land;through heavy cedar and pinon pine timber and dense sage brush.

Desc.

5.50 Bottom of hollow,25 ft.below cor.,course SE.

Asc.

Sub.T.32 S.,R.11 W.-Continued.

Chains

11.00 Top of ridge,50 ft.above hollow,bears N.20°W.and S.20°E.

Desc.

27.50 Bottom of hollow,40 ft.below ridge,course SE.

Asc.

40.03 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.:mkd.on brass cap ¼ S 14 in N half and S 23 in S half;from which

A cedar,5 ins.dia.,bears N.66°W.,12 lks. dist..mkd.¼ S 14 B T.

A cedar,6 ins.dia.,bears S.56°W.,27 lks. dist..mkd.¼ S 23 B T.

43.50 Top of ridge,125 ft.above hollow,bears N.35°W.,and S.35° E.

Desc.

50.00 Desc.more abruptly ,bears N.and S.

60.25 Bottom of hollow,100 ft.below ridge,course S.30°W.

Asc.

66.70 Top of ridge,60 ft.above hollow,bears N.30°E.

Desc.

72.50 Road,bears N.30°E.and S.30°W.

Bottom of hollow,50 ft.below ridge,course S.30°W.

Asc.

80.06 The cor.of secs.14,15,22,and 23.

Land,mountainous and rough .

Soil,sandy and gravelly loam and rocky;2nd and 3rd rate.

Subsoil,gravelly and rocky;.

Timber,cedar and pinon pine.

Undergrowth,sage brush and rabbit brush.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth,80.06 chs.

N.0°01'W.,bet.secs.14 and 15.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Over mountainous land;through heavy timber and dense sage brush.
	Asc.
3.50	Wash,20 lks.wide,3 ft.deep,course SE.
	Asc.
15.00	Wash,15 lks.wide,2 ft.deep,course SE.
30.00	Begin more abrupt ascent,bears E.and W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 15 in W half and S 14 in E half;from which
	A cedar,14 ins.dia.,bears N.67°E.,26 lks. dist..mkd.¼ S 14 B T.
	A pinon pine,16 ins.dia.,bears S.37°W.,45 lks. dist..mkd.¼ S 15 B T.
50.00	Ledge,15 ft.high,bears E.and W.
64.00	Ledge,10 ft.high,bears NE and SW.
72.60	Bottom of hollow,100 ft.below ¼ sec.cor.,course E.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.10,11,14,and 15,mkd.on brass cap
	T 32 S S 10 in NW.
	R 11 W S 11 in NE.
	S 14 in SE.;and
	S 15 in SW.quadrants;from which
	A cedar,12 ins.dia.,bears N.26°E.,83 lks. dist..mkd.T 32 S R 11 W S 11 B T.
	A cedar,8 ins.dia.,bears S.17°E.,47 lks. dist..mkd.T 32 S R 11 W S 14 B T.
	A cedar,24 ins.dia.,bears S.77°W.,496 lks. dist..mkd.T 32 S R 11 W S 15 B T.
	A pinon pine,5 ins.dia.,bears N.46°W.,42 lks. dist..mkd.T 32 S R 11 W S 10 B T.
	Land,mountainous .
	Soil,sandy loam;2nd rate.18 ins.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.

Chains Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

April 27,1911.

April 28,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°03'N. on the lat.arc;13°57'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.10,11,14,and 15.

Thence I run

East,on a random line bet.secs.11 and 14.

40.00 Set temp.¼ sec.cor.

80.12 Intersect N.and S.line,2 lks.N.of the cor.of secs. 11,12,13,and 14.

Thence I run

N.89°59'W.,on a true line bet.secs.11 and 14.

Over mountainous land;through heavy cedar and pinon pine timber.and dense sage brush.

2.10 Top of ridge,10 ft.above cor.,bears N.and S.

Desc.

14.50 Wash,20 lks.wide,3 ft.deep.course SW.

40.06 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 11 in N half and S 14 in S half;from which

A cedar,5 ins.dia.,bears N.46°W.,3 lks. dist..mkd.¼ S 11 B T.

A cedar,5 ins.dia.,bears S.17°W.,23 lks. dist..mkd.¼ S 14 B T.

45.00 Wash,15 lks.wide,4 ft.deep,in bottom of hollow,250 ft. below ridge,course S.20°W.

Asc.

55.00 Top of ridge,50 ft.above hollow,bears NE and SW.

Desc.

Chains	
59.50	Wood road,bears N.and S.
	Bottom of hollow,100 ft.below ridge,course S.
	Asc.
62.00	Enter volcanic ledges,bears N.and S.
70.00	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
70.35	Leave ledges,bears N.and S.
74.20	Bottom of hollow,100 ft.below ridge,course S.
	Asc.
80.12	The cor.of secs.10,11,14,and 15.
	Land,mountainous,very rough.
	Soil,gravelly and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage and oak brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.12 chs.
	———
	N.0°01'W.,bet.secs.10 and 11.
	Over mountainous land;through heavy cedar and pinon pine timber and scattering sage and oak brush.
	Asc.
15.00	Ascend more abruptly,bears E.and W.
31.40	Top of ridge;150 ft above cor.,bears NE and SW.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.mkd.on brass cap ¼ S 10 in W half and S 11 in E half;from which
	A cedar,30 ins.in dia.,bears S.49°E.,56 lks. dist.-mkd.¼ S 11 B T.
	A cedar,6 ins.dia.,bears N.52°W.,86 lks. dist.-mkd.¼ S 10 B T.
42.86	Bottom of hollow,125 ft.below ridge,course NE .

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Asc.
46.00	Top of spur, 35 ft.above hollow,bears NE and SW.
	Desc.over volcanic ledges.
50.00	Bottom of hollow,40 ft.below spur,course NW.
	Leave ledges,bears NE and SW.
	Asc.
54.50	Top of spur,50 ft.above hollow,bears E.and W.
	Desc.
64.20	Bottom of hollow,70 ft.below spur,course S.70°W.
	Asc.
70.00	Top of ridge,70 ft.above hollow,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.2,3,10,and 11,mkd.on brass cap
	T 32 S S.3 in NW.
	R 11 W S 2 in NE.
	S 11 in SE.;and
	S 10 in SW.quadrants;from which
	A cedar,7 ins.dia.,bears N.65°E.,50 lks.
	dist..mkd.T 32 S R 11 W S 2 B T.
	A cedar,8 ins.dia.,bears S.31°E.,51 lks.
	dist..mkd.T 32 S R 11 W S 11 B T.
	A cedar,9 ins.dia.,bears S.31°W.,32 lks.
	dist..mkd.T 32 S R 11 W S 10 B T.
	A cedar,4 ins.dia.,bears N.63°W.,55 lks.
	dist..mkd.T 32 S R 11 W S 3 B T.
	Land,mountainous with steep slopes
	Soil,gravelly and rocky;1 ft.deep,subsoil gravel.
	Timber,cedar and pinon pine
	Undergrowth,sage and oak brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	April 28,1911:At this cor.I set off 13°59'N.,on the dec arc;and at 11 h 58 m a.m.,l.m.t.,I observe the sun on t meridian the resulting lat.is 38°03'N.,which is the

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	proper lat.nearly.
	S,89°59'E.,on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
80.16	Intersect N.and S.line,at the cor.of secs.1,2,11,and 12.
	Thence I run
	N.89°59'W.,on a true line bet.secs.2 and 11.
	Over mountainous land;through dense undergrowth and scattering timber.
	Asc.
15.00	Top of ridge,100 ft.above cor.,bears N.and S.
	Desc.
21.50	Begin more gradual descent,bears N.and S.
25.00	Bottom of hollow,200 ft.below ridge,course N.
	Asc.
	Enter heavy timber,bears N.and S.
38.00	Top of ridge,150 ft.above hollow,bears N.and S.
	Desc.
40.08	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground, for ¼ sec.cor..mkd.on brass cap ¼ S 2 in N half;and S 11 in S half;from which
	A cedar,8 ins.dia.,bears N.22°E.,40 lks. dist..mkd.¼ S 2 B T.
	A cedar,10 ins.dia.,bears S.1 lks.dist. mkd.¼ S 11 B T.
54.00	Bottom of hollow,125 ft.below ridge,course NW.
	Asc.
60.00	Leave timber,bears E.and W.
72.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
75.00	Enter heavy timber,bears N.and S.
77.50	Bottom of hollow,50 ft.below ridge,course NW.
	Asc.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
80.16	The cor.of secs.2,3,10,and 11.
	Land,mountainous .
	Soil,sandy and gravelly loam about 2 ft.deep,2nd rate.
	Timber,cedar and pinon pine .
	Undergrowth,sage brush and greasewood.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.16 chs.
	N.0°01'W.,on a random line bet.secs.2 and 3.
40.00	Set temp.¼ sec.cor.
85.58	Intersect N.bdy.of Tp.,at the cor.of secs.2,3,34,and 35, heretofore described.
	Thence I run
	S.0°01'E.,on a true line bet.secs.2 and 3.
	Over mountainous land;through dense sage brush and greas wood.
	Desc.
.40	Bottom of hollow,10 ft.below cor.,course NE.
	Asc.
5.50	Bottom of same hollow,course NW.
	Asc.abruptly.
11.00	Top of spur,125 ft.above hollow,bears NW and SE.
	Desc.
19.25	Bottom of hollow,100 ft.below ridge,course NW.
	Asc.
28/80	Top of ridge,125 ft.above hollow,bears E.and W.
	Desc.
40.60	Bottom of hollow,160 ft.below ridge,course SW.
	Asc.
43.00	Top of spur,150 ft.above hollow,bears NE and SW.
	Desc.
45.58	Set an iron post,3 ft.long,1 in in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 3 in W half

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	and S 2 in E half;from which
	A cedar,10 ins.dia.,bears S.47°20'E.,55 lks.
	dist..mkd.¼ S 2 B T.
	A cedar,12 ins.dia.,bears S.46°30'W.,57 lks.
	dist..mkd.¼ S 3 B T.
49.60	Bottom of hollow,60 ft.below ridge,course N.60°W.
	Asc.
58.60	Top of spur,60 ft.above hollow,bears E.and W.
	Desc.
62.30	Bottom of hollow,60 ft below ridge,course W.
	Asc.
72.40	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.
82.10	Bottom of hollow,100 ft.below ridge,course NW
	Enter heavy timber,bears E.and W.
	Asc.
85.58	The cor.of secs.2,3,10,and 11.
	100 ft .above hollow.
	Land,mountainous .
	Soil,sandy loam;2nd rate.2 ft.deep,subsoil,clay and rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,85.58 chs.

April 28,1911.

April 29,1911:At 7 h 57 m a.m.,l.m.t.,I set off 37°59'N., on the lat.arc;14°16'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.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Over mountainous land; through dense undergrowth and scattering timber.
	Asc.gently.
25.00	Begin more abrupt ascent bears E.and W.
35.00	Top of ridge,100 ft.above cor.,bears E.and W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 33 in W half and S 34 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
50.00	Enter heavy timber,bears E.and W.
60.00	Bottom of hollow,150 ft.below ridge,course SE.
	Asc.
73.25	Top of ridge,200 ft.above hollow,bears N.55°E.,and S.55° W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.27,28,33,and 34,mkd.on brass cap
	T 32 S S 28 in NW.
	R 11 W S 27 in NE.
	S 34 in SE.;and
	S 33 in SW.quadrants;from which
	A cedar,12 ins.dia.,bears N.37°E.,16 lks.
	dist..mkd.T 32 S R 11 W S 27 B T.
	A cedar,12 ins.dia.,bears S.21°E.,20 lks.
	dist..mkd.T 32 S R 11 W S 34 B T.
	A cedar,8 ins.dia.,bears S.36°30'W.,15 lks.
	dist..mkd.T 32 S R 11 W S 33 B T.
	A cedar,10 ins.dia.,bears N.62°30'W.,68 lks.
	dist..mkd.T 32 S R 11 W S 28 B T.
	Land,mountainous.
	Soil,hard white clay and gravel.Subsoil clay and rocky
	Timber,cedar and pinon pine.
	Undegrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	with dense undergrowth,80.00 chs.
	East,on a random line bet.secs.27 and 34.
40.00	Set temp ¼ sec.cor.
80.00	Intersect N.and S.line,5 lks.S.of the cor.of secs.26,27, 34,and 35.
	Thence I run
	S.89°58'W.,on a true line bet.secs.27 and 34.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.abru ptly.
6.00	Top of ridge,60 ft.above cor.,bears N.and S.
	Desc.
12.50	Bottom of hollow,50 ft.below ridge,course S.
	Asc.
21.75	Top of ridge,60 ft.above hollowlbears N.20°W.and S.20°E.
	Desc.
32.00	Road,bears N.and S.
	Bottom of hollow,200 ft.below ridge,course S.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 27 in N half and S 34 in S half;from which
	A cedar,10 ins.dia,bears N.67°W.,55 lks. dist..mkd.¼ S 27 B T.
	A cedar,10 ins.dia.,bears S.41°30'W.,48 lks. dist..mkd.¼ S 34 B T.
43.20	Top of ridge,75 ft.above hollow,bears N.and S.
	Desc.
48.00	Bottom of hollow,75 ft.below ridge,course S.
	Asc.abruptly /
71.50	Top of ridge,150 ft.above hollow,bears NE and SW.
	Desc.

Chains	
80.00	The cor.of secs.27,28,33,and 34.
	Land,mountainous .
	Soil,clay and gravelly;12 ins.deep.Subsoil,clay .
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

	N.0°02'W.,bet .secs.27 and 28.
	Over mountainous land;through dense undergrowth and scattering timber,
	Desc.
14.40	Road,bears NE and SW.
	Bottom of hollow,250 ft.below cor.,course SW.
	Asc.
15.20	Enter heavy timber,bears NE and SW.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 28 in W half and S 27 in E half;from which
	A cedar,10 ins.dia.,bears S.9°E.,9 lks.
	dist..mkd.¼ S 27 B T.
	A cedar,12 ins.dia.,bears S.72°W.,2 6 lks.
	dist..mkd.¼ S 28 B T.
63.00	Wash,10 lks.wide,6 ft.deep,course SE.
	Sandstone ledge 20 ft.high,bears NW and SE.
66.50	Road,bears NE and SW.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.21,22,27,and 28,mkd.on brass cap
	T 32 S S 21 in NW.
	R 11 W S 22 in NE.
	S 27 in SE.;and
	S 28 in SW.quadrants;from which
	A cedar,6 ins.dia.,bears N.51°30'E.,15 lks.

Sub.T .32 S.,R.11 W.-Continued.

Chains. dist..m mkd.T 32 S R 11 W S 22 B T.

A cedar,5 ins.dia.,bears S.59°E.,39 lks.

dist..mkd.T 32 S R 11 W S 27 B T.

Acedar,5 ins.dia.,bears S.70°W.,30 lks.

dist..mkd.T 32 S R 11 W S 28 B T.

A cedar,14 ins.dia.,bears N.62°15'W.,19 lks.

dist..mkd.T 32 S R 11 W S 21 B T.

Land,mountainous .

Soil,white clay and gravel and sandstone.Subsoil clay and rocky.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

No grass .

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

April 29,1911:At this cor.I set off 14°18'N.,on the decl. arc;and at 11 h 57 m a.m.,l.mt.,I observe the sun on the meridian,the resulting lat.is 38°01'N.,which is the proper lat.nearly.

N.89°58'E.,on a random line bet.secs.22 and 27.

40.00 Set temp. sec.cor.

80.10 Intersect N.and S.line,at the cor.of secs.22,23,24,and 25.

Thence I run

S.89°58'W.,on a true line bet.secs.22and 27.

Over mountainous land;through heavy timber and dense undergrowth.

Asc.

16.00 Top of ridge,100 ft.above cor..,bears N.and S.

Desc.

24.00 Bottom of hollow,250 ft.below ridge,course SW.

Asc.

32.80 Top of ridge,100 ft.above hollow,bears NE and SW.

Sub.T.32 S.,R.11 W.-Continued.

Chains

40.05 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 22 in N half and S 27.in S.half;from which

A cedar,12 ins.in dia.,bears N.8°W.,97 lks. dist..mkd.¼ S 22 B T.

A cedar,8 ins.dia.,bears S.15°W.,130 lks. dist..mkd.¼ S 27 B T.

44.00 Foot of steep descent,bears NE and SW.

45.50 Bottom of hollow,25 ft.below ridge,course SW.

Asc.

49.90 East side of corral,bears N.and S.

50.83 West side of corral,bears N.and S.

51.85 Creek,1 lk.wide,2 ins.deep,course S.

The Spring is about 3.00 chs.N.of line(Called Lost Spring on point of ridge from the north.

56.00 Wash,3 ft.deep,10 lks.wide,course S.

57.60 Road,bears N.and S.

Bottom of hollow,course S.

Asc.

80.10 The cor.of secs.21,22,27,and 28.

100 ft.above hollow,

Land,mountainous.

Soil,sandy and gravelly loam about 2 ft.deep.subsoil,clay

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.10 chs.

N.0°02'W.,bet.secs.21 and 22.

Over mountainous land;through heavy cedar and pinon pine timber. and dense sage brush.

Asc.

7.99 Top of ridge,30 ft.above sec.cor.,bears E.and W.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Leave heavy and enter scattering timber,bears E.and W.
	Desc.
14.00	Bottom of hollow,75 ft.below ridge,course S.70°E.
	Asc.
Leave rock,bears E.and W.	
23.40	Top of ridge,60 ft.above hollow,bears NW.and SE.
	Desc.gradually.
35.00	Bottom of hollow,60 ft.below ridge,course SE.
	Asc.
40.00	Set an iron post,3 ft.long 1 in.in the dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 21 in W half and S 22 in E half;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
56.-00	Top of ridge,130 ft.above hollow,bears NW.and SE.
	Desc.gradually. over flat ridge.
76.50	Leave ridge,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.15,16,21,and 22,mkd.on brass cap
	T 32 S S 16 in NW
	R 11 W S 15 in NE.
	S 22 in SE.;and
	S.21 in SW.quadrants;from which
	A cedar,10 ins.dia.,bears N.23°E.,12 lks.
	dist..mkd.T 32 S R 11 W S 15 B T.
	A cedar,8 ins.dia.,bears S.72E.,197 lks.
	dist.mkd.T 32 S.,R.11 W.,S.22 B T.
	A cedar,6 ins.dia.,bears S.82°W.,33 lks.
	dist..mkd.T 32 S R 11 W S 21 B T.
	A cedar,8 ins.dia.,bears N.45°30'W.,44 lks.
	dist..mkd.T 32 S R 11 W S 16 B T.
	Land,mountainous steep slopes.
	Soil,sandy and rocky;about 15 ins.deep,subsoilclay and rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.

Chains	
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	———
	N.89°58'E.,on a random line bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,14 lks.S.of the cor.of secs.14,15, 22,and 23.
	Thence I run
	S.89°52'W.,on a true line bet.secs.15 and 22.
	Over mountainous land;through heavy timber and scattering sage brush.
	Asc.
13.00	Top of ridge,100 ft.above cor. bears NE and SW.
	Desc.
25.00	Bottom of hollow,100 ft.below ridge,course S.20°W.
	Asc.
31.50	Top of ridge,50 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
34.00	Bottom of hollow,50 ft.below ridge,course S.20°W.
	Asc.
40.05	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of earth and stone,for ¼ sec.cor..mkd.on brass cap ¼ S 15 in N half and S 22 in S half;from which
	A cedar,6 ins.dia.,bears N.64°25'W.,40 lks. dist..mkd.¼ S.15 B T.
	A cedar,4 ins.dia.,bears S.5°30'E.,25 lks. dist..mkd.¼ S.22 B T.
50.00	Top of flat ridge,100 ft.above hollow,bears N.30°E.and S. 30°W.
	Thence Over flat ridge,.
72.20	Leave ridge,bears N.and S.
	Desc.
80.10	The cor.of secs.15, 16,21,and 22,75 ft.below ridge,.

Chains	
	Land,mountainous .
	Soil,sandy and gravelly loam 2nd and 3rd rate.2 ft.deep
	Subsoil,clay and rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass grazing.
	Mountainous or heavily timbered land,80.10 chs.
	April 29,1911.
	Mayl,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°02'N.,on the lat.arc;14°53'N.,on the decl.ar c;and determine a meridian with the solar,at the cor.of secs.15,16,21,and 22.
	Thence I run
	N.0°2'W.,bet.secs.15 and 16.
	Over mountainous land;through heavy timber.
	Desc.
36.30	Bottom of hollw,300 ft.below sec.cor.,course NW.
	Asc.
40.00	Set an iron post,3 ft.ling,1 in.in dia.,12 ins.in the ground,on solid rock and surrounded by a mound of stone, for ¼ sec.cor..mkd.on brass cor ¼ S 16 in W half and S 15 in E half;from which
	A cedar,8 ins.dia.,bears S.34°15'E.,43 lks. dist..mkd.¼ S 15 B T.
	A cedar,5 ins.dia. bears N.85°W.,24 lks. dist..mkd.¼ S 16 B T.
42.00	Top of ridge,50 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
49.90	Bottom of hollow,40 ft.below ridge,course NW.
	Asc.
53.50	Wash,2 ft.deep,10 lks.wide,course NW.
	Leave heavy and enter scattering timber,bears NW and SE.
55.00	Wash,15 lks.wide,4 ft.deep,course SW.

Chains

75.00 Top of ridge,125 ft.above hollow,bears N.70°E.and S.70°W.

Desc.

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

T 32 S S 9 in NW.

R 11 W S 10 in NE.

S 15 in SE.;and

S 16 in SW.quandrants;from which

A cedar,6 ins.dia.,bears N.65°30'E.,102 lks. dist..mkd.T 32 S R 11 W S 10 B T.

A cedar,6 ins.dia.,bears S.21°30'E.,110 lks. dist..mkd.T 32 S R 11 W S 15 B T.

A ced r,5 ins.dia. bears S.3°W.,158 lks. dist..mkd.T 32 S R 11 W S 16 B T.

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

Land,mountainous

Soil,gravelly ;

Timber,cedar

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

N.89°52'E.,on a random line bet.secs.10 and 15.

40.00 Set temp. ¼ sec.cor.

80.10 Intersect N.and S.line,12 lks.N.of the cor.of secs.10,11, 14.,and 15.

Thence S.89°57'W.,on a true line bet.secs.10 and 15.

Over mountainous land;through heavy timber and dense undergrowth.

Desc.

5.00 Bottom of hollow,50 ft.below cor.,course S.30°E.

Asc.

15.00 Top of ascent,bears NE and SW.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
19.20	Top of ridge,150 ft.above hollow,bears NE and SW.
	Desc.
30.00	Begin more gradual descent,bears NE and SW.
36.00	Begin more abrupt descent,bears NE and SW.
	Enter volcanic ledges.
39.00	Leave ledges,bears N.and S.
40.05	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 10 in N half and S 15 in S half;from which
	A cedar,7 ins.dia.,bears N.29°W.,12 lks. dist..mkd.¼ S 10 B T.
	A cedar,8 ins.dia.,bears S.24°E.,88 lks. dist..mkd.¼ S 15 B T.
46.00	Begin more gradual descent,bears NE and SW.
55.50	Bottom of hollow,700 ft.below ridge,course SW.
	Asc.
	Leave heavy and enter scattering timber.bears NE and SW.
61.30	Top of ridge,50 ft.above hollow,bears NE.and SW.
	Desc.
66.00	Bottom of hollow,60 ft.below ridge,course SW.
	Asc.
70.00	Top of ridge,50 ft.above hollow,bears NE and SW.
	Desc.
78.00	Bottom of hollow,60 ft.below ridge,course N.
	Asc.
80.10	The cor.of secs.9 10,15 ,and 16.
	Land,mountainous,very steep.
	Soil,clay,gravelly and rocky;2nd and 4th rate.about 10 to 16 ins.deep.
	Timber,cedar.and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.10 chs.
	May 1,1911:At this cor.I set off 14°55'N.,on the decl.

Chains arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°03'N.,which is the proper lat.nearly.

N.0°02'W.,bet.secs.9 and 10.

Over mountainous land;through sheavy ing timber and dense sage brush.

Desc.

7.50 Bottom of hollow,50 ft.below sec.cor.,course NW.

Asc.

17.50 Top of ridge,40 ft.above hollow,bears E.and W.

Desc.

25.50 Bottom of hollow,35 ft.below ridge,course SW.

Asc.

31.40 Top of ridge,50 ft.above hollow,bears E.and W.

Desc.

37.00 Red volcanic ledges,bears N.60°W.and S.60°E.

40.00 Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the groundkon solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap;¼ S 9 in W half and S 10 in E half;from which

A cedar,8 ins.dia.,bears S.44°30'E.,28 lks. dist..mkd.¼ S 10 B T.

A cedar,20 ins.dia.,bears S.26°W.,22 lks. dist..mkd.¼ S 9 B T.

41.50 Bottom of hollow,100 ft.below ridge,course N.60°W.

Asc.

Leave heavy and enter scattering timber,bears N.60°W.and S.60°E.

49.00 Top of ridge,35 ft.above hollow,bears NE and SW.

Desc.

55.50 Wood road,bears N.60°E.and S.60°W.

Bottom of hollow,50 ft.below ridge,course S.60°W.

Asc.

Chains

65.00 Top of ridge,125 ft.above hollow,bears N.60°E.and S.70°W.

Enter heavy timber,bears N.60°E.and S.70°W.

Desc.

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

T 32 S S 4 in NW.

R 11 W S 3 In NE.

S 10 in SE.;and

S 9 in SW.quadrants;from which

A pinon pine,30 ins.dia.,bears N.19°30'E.,36 lks.dist.mkd.T 32 S R 11 W S 3 B T.

A cedar,6 ins.dia.,bears S.71°E.,11 lks. dist..mkd.T 32 S R 11 W S 10 B T.

A ceda r 6 ins.dia.,bears S.31°30'W.,18 lks. dist..mkd.T 32 S R 11 W S 9 B T.

A cedar,10 ins.dia.,bears N.15°W.,29 lks. dist..mkd.T 32 S R 11 W S 4 B T.

Land,mountainous.

Soil,clay and gravelly and rocky;

Subsoil clay and rocky.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

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

40.00 Set temp.½ Sec.cor.

80.08 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 mountainous land;through heavy timber.

Asc.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
10.00	Leave heavy and enter scattering timber,bears N.and S.
11.90	Top of ridge,100 ft.above sec.cor.,bears NW and SE.
	Desc.
22.90	Bottom of hollow,110 ft.below ridge,course NW.
	Asc.
32.00	Top of ridge,70 ft.above hollow,bears N.10°W.and S.10°E.
	Desc.
40.04	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for¼ sec.cor..mkd.on brass cap ¼ S 3 in N half and S 10 in S half;from which
	A cedar,10 ins.dia.,bears N.80°W.,78 lks. dist..mkd.¼ S 3 B T.
	A cedar,10 ins.dia.,bears S.58°E.,94 lks. dist..mkd.¼ S 10 B T.
40.25	Bottom of hollow,70 ft.below ridge,course N.10°W.
	Asc.
45.00	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
50.20	Bottom of hollow,50 ft.below ridge,course N.
	Asc.
54.00	Top of ridge,60 ft.above hollow,bears N.20°W.and S.20° E.
	Desc.
55.00	Leave scattering and enter heavy timber,bears N.and S.
67.00	Bottom of hollow,70 ft.below ridge,course N.30°W.
	Asc.
80.08	The cor.of secs.3,4,9,and 10.75 ft.above hollow.
	Land,hill rolling mountain.
	Soil,clay,gravelly and rocky;12 ins.deep,subsoilrock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.08 chs.

May 1,1911.

Chains	
	May 2,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°03'N.,on the lat.arc;15°11'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.3,4,9,and 10.
	Thence I run
	N.0°2'W.,on a random line bet.secs.3 and 4.
40.00	Set temp.¼ sec.cor.
85.64	Intersect N.bdy.of Tp.,2 lks.E.of the cor.of secs.3,4, 33,and 34,heretofore described.
	Thence I run
	S.0°03'E.,on a true line bet.secs.3 and 4.
	Over mountainous land;through scattering timber.and dense sage brush.
	Desc.
30.20	Road,bears N.75°E.and S.75°W.
	Bottom of canon,200 ft.below sec.cor.,course S.75°W.
	Asc.
39.10	Top of ridge,75 ft.above canon,bears E.and W.
	Desc.
45.64	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 4 in W half and S 3 in E half;from which
	A cedar,6 ins.dia.,bears S.6°E.,21 lks. dist..mkd.¼ S 3 B T.
	A cedar,8 ins.dia.,bears S.38°30'W.,28 lks. dist..mkd.¼ S 4 B T.
47.60	Bottom of hollow,100 ft.below ridge,course SW.
	Asc.
57.60	Top of abrupt ascent,bears N.75°E.and S.75°W.
65.60	Top of ridge,150 ft.above hollow,bears N.75°E.and S.75°W.
	Desc.
74.60	Bottom of hollow,130 ft.below ridge,course S.70°W.
	Asc.abruptly.
85.64	The cor.of secs.3,4,9,and 10.
	220 ft.above hollow.

Chains	
	Land,mountainous . . . . .
	Soil,sandy and gravelly loam;2nd rate. 2 ft.deep.Subsoil clay and rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 85.64 chs.
	May 2,1911:At this cor.I set off 15°13'N.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°03'N.,which is the proper lat.nearly.
	———
	From the cor.of secs.4,5,32,and 33,on S.bdy.of Tp.,heretofore described.
	I run
	N.0°03'W.,bet.secs.32 and 33.
	Over mountainous land;through scattering timber and dense sage brush.
	Desc.
1.50	Wash,30 lks.wide,course SE.
	Asc.
25.00	Top of spur,25 ft.above hollow,bears NW and SE.
	Desc.
29.00	Bottom of hollow,40 ft.below spur,course SE.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 32 in W half and S 33 in E half;from which
	A cedar,8 ins.dia.,bears S.13°30'E.,18 lks. dist. mkd.¼ S 33 B T.
	A cedar,8 ins.dia.,bears S.46°W.,17 lks. dist..mkd.¼ S 32 B T.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
47.00	Top of ridge,75 ft.above hollow,bears E.and W.
	Desc.
55.00	Bottom of hollow,50 ft.below ridge,course S.60°E.
	Asc.
80.00	Top of ridge,40 ft.above hollow,bears NE and SW.
	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,mkd.on brass cap
	T 32 S S 29 in NW.
	R 11 W S 28 in NE.
	S 33 in SE.;and
	S 32 in SW.quadrants;from which
	A cedar,10 ins.dia.,bears N.17°E.,40 lks.
	dist..mkd.T 32 S R 11 W S 28 B T.
	A cedar,10 ins.dia.,bears S.37°45'E.,90 lks.
	dist..mkd.T 32 S R 11 W S 33 B T.
	A cedar,12 ins.dia.,bears S.18°15'W.,23 lks.
	dist..mkd.T 32 S R 11 W S 32 B T.
	A cedar,10 ins.dia.,bears N.37°30'W.,95 lks.
	dist..mkd.T 32 S R 11 W S 29 B T.
	Land,mountainous .
	Soil,gravelly loam;2nd rate about 2 ft.deep.subsoil,clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage and rabbit brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.

	East,on a random line bet.secs.28 and 33.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,5 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 mountainous land;through heavy timber and dense

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	undergrowth,
	Desc.abruptly.
10.00	Foot of abrupt descent,bears N.and S.
	Desc.gradually.
15.60	Begin more abrupt descent,bears N.and S.
25.00	Bottom of hollow,60 ft.below sec.cor. ,course S.30°W.
	Road in bottom,bears N.30°E.and S.30°W. Asc.
40.00	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
40.02	Set an iron post,3 ft.long,1 in in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 28 in N half and S 33 in S half;from which
	A cedar,10 ins.dia.,bears N.75°30'W.,30 lks. dist..mkd.¼ S 28 B T.
	A cedar,10 ins.dia.,bears S.10°30'E.,58 lks. dist..mkd.¼ S 33 B T.
48.40	Bottom of hollow,40 ft.below ridge,course S.10°E.
	Asc.
58.70	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
63.20	Bottom of hollow,50 ft.below ridge,course SW.
	Asc.
80.04	The cor.of secs.28,29,32,and 33.60 ft.above hollow.
	Land,mountainous .
	Soil,gravelly and clay loam;2nd rate.about 2 ft.deep.
	Subsoil,hard clay and rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage and rabbit brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered wit dense undergrowth,80.04 chs.

N.0°03'W.,bet.secs. 28 and 29.

Over mountainous land;through heavy timber and dense

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Undergrowth.
	Desc.
13.10	Bottom of hollow,140 ft.below ridge,course NW.
	Asc. Leave heavy and enter scattering timber,bears NW &SE.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 29 in W half and S 28 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
44.00	Top of ridge,60 ft.above hollow,bears NE and SW.
	Desc.
50.25	Bottom of hollow,60 ft.below ridge,course S.60°W.
	Asc.
67.70	Top of ridge,130 ft.above hollow,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.20,21,28,and 29,mkd.on brass cap
	T 32 S S 20 in NW.
	R 11 W S 21 in NE.
	S 28 in SE.;and
	S 29 in SW.quadrants;from which
	A cedar,5 ins.dia.,bears N.28°15'E.,41 lks.
	dist..mkd.T 32 S R 11 W S 21 B T.
	A cedar,6 ins.dia.,bears S.78°30'E.,24 lks.
	dist..mkd.T 32 S R 11 W S 28 B T.
	A cedar,20 ins.dia.,bears S.67°30'W.,15 lks.
	dist..mkd.T 32 S R 11 W S 29 B T.
	A cedar,10 ins.dia.,bears N.63°15'W.,75 lks.
	dist..mkd.T 32 S R 11 W S 20 B T.
	Land,mountainous .
	Soil,clay and gravel;2nd and 3rd rate.2 ft.deep,subsoil clay and rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

Chains

May 2,1911.

May 3,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°01'N., on the lat.arc;18°29'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°58'E.,on a random line bet.secs.21 and 28.

40.00 Set temp.¼ sec.cor.

80.06 Intersect N.and S.line,12 lks.W.of the cor.of secs.21,22, 27.and 28.

Thence I run

N.89°58'W.,on a true line bet.secs.21 and 28.

Over mountainous land;through heavy timber and dense sage brush.

Asc.

2.00 Top of ridge,10 ft.above cor.,bears N.and S.

Desc.

15.00 Bottom of hollow,40 ft.below ridge,course S.

Asc.

17.50 Road,bears NW and SE.

23.70 Top of ridge,160 ft,above hollow,bears N.and S.

Desc.

40.03 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 21 in N half and S 28 in S half;from which

A cedar,5 ins.dia.,bears N.50°W.,22 lks. dist..mkd.¼ S 21 B T.

A cedar,8 ins.dia.,bears S.30°W.,15 lks. dist..mkd.¼ S 28 B T.

41.20 Begin abrupt descent ,bears NE and SW.

45.80 Foot of abrupt descent,bears N.and S.

53.70 Bottom of hollow,160 ft.below ridge,course S.

Asc.

Chains	
	Desc.
67.90	Top of ridge,70 ft.above hollow,bears N.30°E.and S.30°W.
	Desc.
80.06	The cor.of secs.20,21,28,and 29.
	70 ft.below ridge,.
	Land,mountainous 1
	Soil,sandy and gravelly ;2nd rate.2 ft.deep.subsoil,sandy and rocky;
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.06 chs.
	N.0°03'W.,bet.secs.20 and 21.
	Over mountainous land;through heavy timber and dense sage brush.
	Desc.
12.00	Bottom of hollow,50 ft.below sec.cor.,course SW.
	Asc. over ledges.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 20 in W half and S 21 in E half;from which
	A cedar,12 ins.dia.bears S.86°E.,29 lks. dist..mkd.¼ S 21 B T.
	A cedar,12 ins.dia.,bears S.86°W.,12 lks. dist..mkd.¼ S 20 B T.
40.20	Top of ridge,200 ft.above hollow,bears N.and S.30°W.
	Thence along top of ridge,.
55.00	Leave ridge,bears N.20°E.and S.
	Desc.
56.00	Leave ledges,bears N.20°E.and S.
73.00	Bottom of hollow,75 ft.below ridge,course W.

Chains	
	Asc.
77.50	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
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,mkd.on brass cap
	T 32 S S 17 in NW.
	R 11 W S 16 in NE.
	S 21 in SE.;and
	S 20 in SW.quadrants;from which
	A cedar,8 ins.dia.,bears N.76°E.,102 lks.
	dist..mkd.T 32 S R 11 W S 16 B T.
	A cedar,6 ins.dia.,bears S.46°30'E.,33 lks.
	dist..mkd.T 32 S R 11 W S 21 B T.
	A cedar,6 ins.dia.,bears S.2°20'W.,77 lks.
	dist..mkd.T 32 S R 11 W S 20 B T.
	A pinon pine,16 ins.dia.,bears N.33°30'W.,104 lks
	dist..mkd.T 32 S R 11 W S 17 B T.
	Land,mountainous,very rough.
	Soil,clay and gravelly;about 6 ins.deep.Subsoil,rock.
	From 12.00 chs.to 65.00 chs.Volcanic ledges.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	May 3,1911:At the noon hour the sky was overcast and solar observations were impossible.

	S.89°53'E.,on a random line bet.secs.16 and 21.
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line,5 lks.N.of the cor.of secs.15,16, 21,and 22.
	Thence I run
	N.89°51'W.,on a true line bet.secs.16 and 21.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Over mountainous land;throughheavy timber and dense sage brush.
	Asc.
5.00	Top of ridge,50 ft.above hol.,bears N.and S.
	Desc.over conglomerate formation.
19.00	Bottom of hollow,100 ft.below ridge,course S.30°W.
	Asc.
24.00	Top of ridge,60 ft.above hollow,bears N.15°E.and S.15° W.
	Desc.
26.00	Foot of abrupt descent,bears N.20°E.and S.20°W.
39.99	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 16 in N half and S 21 in S half;from which
	A cedar,6 ins.dia.,bears N.5°E.,37 lks. dist..mkd.¼ S 16 B T.
	A pinon pine,12 ins.dia.,bears S.5°W.,20 lks. dist..mkd.¼ S 21 B T.
55.00	Bottom of hollow,130 ft.below ridge,course S.20°W.
	Asc.over volcanic ledges.
62.00	top of abrupt ascent,bears N.and S.
69.00	Leave ledges,bears N.and S.
69.80	Top of ridge,150 ft.above hollow,bears N.and S.
	Desc.
72.00	Bottom of hollow,40 ft.below ridge,course N.
	Asc.
75.00	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
79.98	The cor.of secs.16,17,20,and 21.
	30 ft.below ridge,.
	Land;mountainous rough.
	Soil,gravelly and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazng.

Chains	
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.98 chs.
	N.0°03'W.,bet.secs.16 and 17.
	Over mountainous land;through heavy timber and dense sage brush.
	Desc.
18.00	Bottom of hollow,175 ft.below ridge,course W.
	Asc.
38.00	Top of ridge,135 ft.above hollow,bears E.and W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 17 in W half and S 16 in E half;from which
	A cedar,8 ins.dia.,bears S.76°E.,33 lks. dist..mkd.¼ S 16 B T.
	A cedar,10 ins.dia.,bears S.41°W.,12 lks. dist..mkd.¼ S 17 B T.
49.50	Bottom of hollow,100 ft.below ridge,course N.60°W.
	Asc.
58.50	Top of ridge,60 ft.above hollow,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.8,9,16,and 17,mkd.on brass cap
	T 32 S S 8 in NW.
	R 11 W S 9 in NE.
	S 16 in SE.;and
	S 17 in SW.quadrants;from which
	A cedar,4 ins.dia.,bears N.77°30'E.,45 lks. dist..mkd.T 32 S R 11 W S 9 B T.
	A cedar,10 ins.dia.,bears S.20°30'E.,90 lks. dist..mkd.T 32 S R 11 W S 16 B T.
	A cedar,14 ins.dia.,bears S.1°15'W.,50 lks.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	mkd.T 32 S R 11 W S 17 B T.
	A cedar,8 ins.dia.,bears N.48°W.,58 lks.
	dist..mkd.T 32 S R 11 W S 8 B T.
	Land,mountainous .
	Soil,clay.Subsoil,clay and rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	May.3,1911.
	———
	May 4,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°03'N., on the lat.arc;15°47'N.,on the decl.arc;and determine a meridian with the solat,at the cor.of secs.8,9,16,and 17.
	Thence I run
	S.89°51'E.,on a random line bet.secs.9 and 16.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N.and S.line,12 lks.S.of the cor.of secs.9,10, 15,and 16.
	Thence I run
	N.89°56'W.,on a true line bet.secs.9 and 16.
	Over mountainous land;through heavy timber.
	Asc.
5.00	Top of ridge,40 ft.above cor.,bears N.20°W.and S.20°E.
	Desc.
20.00	Volcanic ledge,10 ft.high,bears N.10°W.and S.10°E.
32.00	Bottom of hollow,100 ft.below ridge,course NW.
	Asc.
39.50	Top of ridge,60 ft.above hollow,bears NW and SE.
	Desc.
40.04	Set an iron post,3 ft.long,1 in.in dia.,12 ins. in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 9 in N half and S.

Chains	
	16 in S half;from which
	A cedar,8 ins.dia.,bears N.50°W.,123 lks.
	dist..mkd.¼ S 9 B T.
	A cedar,8 ins.dia.,bears S.36°W.,209 lks.
	dist..mkd.¼ S 16 B T.
45.00	Bottom of hollow,50 ft.below ridge,course N.30°W.
	Asc.
51.20	Top of ridge,60 ft.above hollow,bears N30°W.and S.30°E.
	Desc.
54.00	Bottom of hollow,40 ft.below ridge,course NW.
	Asc.
66.70	Top of ridge,150 ft.above hollow,bears N.and S.
	Desc.over boulders.
75.00	Foot of abrupt descent,Leave boulders ,bears N.and S.
80.08	The cor.of secs.8,9,16,and 17.
	150 ft.below ridge.
	Land,mountainous .
	Soil,clay and gravelly ;subsoil,clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.08 chs.
	N.0°03'W.,bet.secs.8 and 9.
	Over mountainous land;through heavy timber and scattering sage brush.
	Desc.
10.00	Bottom of hollow,100 ft.below sec.cor.,bourse W.
	Asc.
30.00	Top of ridge,50 ft.above hollow,bears NE and SW.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone,

Chains	
	for ¼ sec.cor.mkd.on brass cap ¼ S 8 in W half and S 9 in E half;from which
	A cedar,12 ins.dia.,bears N.16°E.,16 lks.
	dist..mkd.¼ S 9 B T.
	A cedar,14 ins.dia.,bears S.15°W.,32 lks.
	dist..mkd.¼ S 8 B T.
42.50	Bottom of hollow,50 ft.below ridge,course W.
	Asc.
50.00	Top of ridge,60 ft.above hollow,bears N.60°E.and S.60°W.
	Desc.
60.00	Leave heavy a d enter scattering timber,bears E.and W.
65.00	Bottom of hollow,60 ft.below ridge,course S.60°W.
	Asc.
75.00	Top of ridge,60 ft.above hollow,bears NE and SW.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of sec .4,5,8,and 9,mkd.on brass cap
	T 32 S S 5 in NW.
	R 11 W S 4 in NE.
	S 9 in SE.;and
	S 8 in SW.quadrants;from wheich
	A cedar,8 ins.dia.,bears N.19°E.,35 lks.
	dist..mkd.T 32 S R 11 W S 4 B T.
	A cedar,4 ins.dia.,bears S.82°E.,68 lks.
	dist..mkd.T 32 S R 11 W S 9 B T.
	A cedar,5 ins.dia.,bears S.25°30'W.,140 lks.
	dist..mkd.T 32 S R 11 W S 8 B T.
	A cedar,10 in.dia.,bears N.58°30'W.,98 lks.
	dist..mkd.T 32 S R 11 W S 5 B T.
	Land,mountainous.
	Soil,clay and gravely;subsoil volcanic rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass.
	Mountainous or heavily timbered land,80.00 chs.

Sub.T.32 S.,R.11 W.-Continued.

Chains May 4,1811:At this cor.I set off 15°49'N.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°03'N.,which is the proper lat.nearly.

S.89°56'E.,on a random line bet.secs.4 and 9.

40.00 Set temp.¼ sec.cor.

80.12 Intersect N.and S.line,at the cor.of secs.3,4,9,and 10.

Thence I run

N.89°56'W.,on a true line bet.secs.4 and 9.

Over mountainous land;through heavy timber and scattering sage brush.

Asc.

3.80 Top of ridge,30 ft.above cor.,bears N.and S.

Desc.

18.60 Bottom of hollow,50 ft.below ridge,course S.

Asc.

25.00 Top of ridge,40 ft.above hollow,bears N.70°E.and S.70° W.

Desc.

33.40 Top of same ridge,bears N.20°W.and S.20°E.

Desc.

40.06 Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 4 in N half and S 9 in S half;from which

A cedar,6 ins.dia.,bears N.30°E.,65 lks. dist..mkd.¼ S 4 B.T.

A cedar,6 ins.dia.,bears S.77°W.,46 lks. dist..mkd.¼ S 9 B T.

Leave heavy and enter scattering timber,bears N.and S.

50.00 Bottom of hollow,75 ft.below ridge,course S.W.

Asc.

62.00 Top of ridge,40 ft.above hollow,bears NE and SW.

Des.

Sub.T.32 S.,R.11 W:-Continued:

Chains	
70.00	Bottom of hollow,40 ft.below ridge,course S.20°W.
	Asc.
75.00	Top of ridge,30 ft.above hollow,bears NE and SW.
	Desc.
80.12	The cor.of secs.4 ,5,8,and 9.40 ft.below ridge,;
	Land,mountainous
	Soil,clay and gravely;subsoil,clay and rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timberedland,80.12 chs.
	—
	N.0°3'W.,on a random line bet.secs.4 and 5.
40.00	Set temp.¼ sec.cor.
85.68	Intersect N.~~and~~ bdy.of Tp.,9 lks.W.of the cor.of secs.4, 5,32,and 33, heretofore described.
	Thence I run
	South,on a true line bet.secs.4 and 5.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
10.60	Top of ridge,40 ft.above cor.,bears N.70°W.and S.70°E.
	Desc.
13.85	Bottom of hollow,40 ft.below ridge,course W.
	Asc.
25.10	Top of ridge,70 ft.above hollow,bears NW and SE.
	Desc.
37.10	Bottom of hollow,75 ft.below ridge,course NW.
	Asc.
44.90	Top of abrupt ascent,bears N.70°E.and S.70°W.
45.68	Top of ridge,70 ft.above hollow,bears N.70°E.and S.70°W,
	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone,for

Chains	
	¼ sec.cor..mkd.on brass cap ¼ S 5 in W half;and S 4 in E half;from which
	A cedar,16 ins.dia.,bears S.12°37'E.,110 lks. dist..mkd.¼ S 4 B T.
	A cedar,7 ins.dia.,bears S.37°W.,160 lks. dist..mkd.¼ S 5 B T.
48.10	Bottom of hollow,40 ft.below ridge,course S.80°W.
	Asc.
55.00	Top of ridge,50 ft.above hollow,bears NE and SW.
	Desc.
60.60	Bottom of hollow,30 ft.below ridge,course NW .
	Asc.
75.60	Top of ridge,60 ft.above hollow,bears NE and SW.
	Desc.
84.10	Bottom of hollow,60 ft.below ridge,course SW.
	Asc.
85.68	The cor.of secs.4,5,8,and 9.
	Land,mountainous.
	Soil,sandy and gravelly;2nd rate.
	Timber,cedar and pinon pine .
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 85.68 chs.

May 4,1911.

May 5,1911:At 7 h 57 m a.m.ml.m.t.,I set off 37°59'N.,on the lat.arc;16°04'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.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	Over mountainous land;through scattering timber and dense sage ,and greasewood.
	Asc.
5.00	Leave timber,bears E.and W.
18.15	Top of ridge,40 ft.above sec.cor.,bears E.and W.
	Desc.
25.00	Bottom of hollow,150 ft.below spur,course NE.
	Asc.
	Enter scattering timber,bears NE and SW.
34.00	Top of ridge,100 ft.above hollow,bears NW.and SE.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 31 in W half and S 32 in E half;from which
	A cedar,14 ins.dia.,bears N.72°30'E.,29 lks. dist..mkd.¼ S 32 B T.
	A cedar,6 ins.dia.,bears N.57°W.,32 lks. dist..mkd.¼ S 31 B T.
56.60	Bottom of hollow,150 ft.below ridge,course W.
	Asc.
65.00	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.
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,mkd.on brass cap
	T 32 S S 30 in NW.
	R 11 W S 29 in NE.
	S 32 in SE.;and
	S 31 in SW.quadrants;from which
	A cedar,5 ins.dia.;bears N.80°30'E.,276 lks. dist..mkd.T 32 S R 11 W S 29 B T.
	A cedar,12 ins.dia.,bears S.55°W.,170 lks. dist..mkd.T 32 S R 11 W S 31 B T.
	A cedar,12 ins.dia.,bears N.60°W.,158 lks. dist..mkd.T 32 S R 11 W S 30 B T.
	No tree in sec.32 I dig a pit ,18x18x12 ins.in sec.32, 5½ ft.dist.;and raise a mound of earth,3½ft.base,1½ ft.

Chains	
	W.of cor.
	Land,mountainous.
	Soil,sandy and gravelly;about 2 ft.deep,2nd rate.Subsoil clay;
	Timber,cedar and pinon pine.
	Undergrowth,sage brush and greasewood.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	East,on a random linebet.secs.29 and 32.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,7 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 mountainous land;through heavy timber and dense sage brush.
	Desc.
23.50	Bottom of hollow,100 ft.below sec.cor. Course N.70°W.
	Asc.
30.00	Top of ridge,50 ft.above hollow,bears NW and SE.
	Desc.
39.30	Bottom of hollow,75 ft.below ridge,course SW.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 29 in N half and S 32 in S half;from which
	A cedar,10 ins.dia.,bears N.58°E.,81 lks. dist.,mkd.¼ S 29 B T.
	A cedar,8 ins.dia.,bears S.16°E.,145 lks. dist.,mkd.¼ S 32 B T.
46.80	Top of knoll,40 ft.above hollow,bears N.and S.
	Desc

Sub.T.32 S.,R.11 W.-Continued.

Chains	
59.60	Red volcanic ledge,20 ft.high,bears N.and S.
62.95	Leave heavy and enter scattering timber,bears N.and S.
	Bottom of hollow,75 ft.below knoll ,course NW.
	Asc.
77.00	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
80.00	The cor.of secs.,29,30,31,and 32.
	Land,mountainous .
	Soil,sandy and gravelly;subsoil,hardpan
	Timber,cedar and pinon pine.
	Undergrowth,sage brush and greasewood.
	Good grass.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	May 5,1911:At this cor.I set off 16°06'N.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°00'N.,which is the proper lat.nearly.
	Thence I run
	West,on a true linebet.secs.30 and 31.
	Knowing from closings already made that the line will not close within limits;
	Over mountainous land;through scattering timber and dense sage brush.
	Desc.
5.00	Volcanic ledge,15 ft.high,bears N.20°W.and S.20°E.
6.50	Bottom of hollow,20 ft.below cor.,course N.20°W.
	Asc.
15 00	Top of ridge,150 ft.above hollow,bears NW and SE.
	Desc.
22.10	Bottom of hollow,125 ft.below ridge,course N.30°W.
	Asc.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
27.40	Top of ridge,100 ft.above hollow,bears N.30°W.and S.30° E.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brasscap ¼ S 30 in N half and S 31 in S half;dig pits,18x18x12 ins.E.and W.of post, 30 ft.dist.and raise mound of earth,3½ ft.base,1½ ft.high,N.of cor.
49.50	Bottom of hollow,120 ft.below ridge,course S.60°W.
	Asc.
59.40	Top of ridge,70 ft.above hollow,bears N.and S.
	Desc.over volcanic ledges.
63.50	Bottom of hollow,150 ft.below ridge,course SE.
	Road,bears N.20°W.and S.20°E.
	Asc.
74.00	Top of ridge,150 ft.above hollow,bears N.and S.
	Desc.
81.40	Intersect W.bdy.of Tp.,315 lks.N.0°11'E.,of the cor.of secs.25 and 36,which is an iron post,3 ins.in dia., projecting 12 ins.above ground,firmly set,and mkd.and withessed 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.30 and 31.mkd.on brass cap
	T 32 S in N half;
	C C R 12 W S 25 S 36 in W half.
	R 11 W S 30 in NE.;and
	S 31 in SE.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,E.of cor.
	Land,mountainous .
	Soil,sandy and gravelly;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush and greasewood.
	Good grass .
	Mountainous land,or land covered with dense undergrowth, 81.40 chs.

Sub T.32 S.,R.11 W.-Continued.

Chains	
	N.0°03'W.,bet.secs.29 and 30.
	Over mountainous land;through dense undergrowth.
	Desc.
6.00	Bottom of hollow,30 ft.below cor.,course N.60°W.
	Asc.
11.60	Top of ridge,60 ft.above hollow,bears E.and W.
	Desc.
30.25	Bottom of hollow,25 ft.below ridge,course SW.
	Asc.
31.00	Road,bears NE and SW.
40.00	Set an iron post,3 ft.long,1 in.in dia.,18 ins.in the ground,on solid rock,and surrounded by mound of earth and stone,for ¼ sec.cor..mkd.on brass cap ¼ S 30 in W half;and S 29 in E half;and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
60.00	Enter volcanic ledges,bears NE and SW.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.19,20,29,and 30,mkd.on brass cap
	T 32 S S 19 in NW.
	R 11 W S 20 in NE.
	S 29 in SE.;and
	S 30 in SW.quadrants;from which
	A cedar,12 ins.dia.,bears N.74°15'E.,101 lks.
	dist..mkd.T 32 S R 11 W S 20 B T.
	A cedar,8 ins.dia.,bears S.75°E.,95 lks.
	dist..mkd.T 32 S R 11 W S 29 B T.
	A cedar,10 ins.dia.,bears S.75°W.,226 lks.
	dist..mkd.T 32 S R 11 W S 30 B T.
	A cedar,6 ins.dia.,bears N.78°W.,195 lks.
	dist..mkd.T 32 S R 11 W S 19 B T.
	Land,mountainous.
	Soil,sandy and gravelly loam,2nd rate.
	Subsoil clay .
	No timber .
	Undergrowth,sage brush.
	Good grass.

Chains	
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	May 5,1911.
	—
	May 6,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°01'N.,
	on the lat.arc;16°21'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'E.,on a random line bet.secs.20 and 29.
40.00	Set temp ¼ sec.cor.
80.02	Intersect N.and S.line,10 lks.N.of the cor.of secs.20,21,
	28,and 29.
	Thence I run
	N.89°59'W.,on a true line bet.secs.20 and 29.
	Over mountainous land;through heavy timber.
	Desc.
9.00	Bottom of hollow,60 ft.below cor.,course S.30°W.
	Asc.
24.50	Top of ridge,50 ft above hollow,bears N.20°E.and S.20°W.
	Desc.
31.50	Wash,12 lks.wide,4 ft.deep,course S.30°W.
	Desc.more gradual.
40.01	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the
	ground,for ¼ sec.cor..mkd.on brass cap ¼.S 20 in N half
	and S 29 in S half;from which
	A cedar,5 ins.dia.,bears N.42°E.,24 lks.
	dist..mkd.¼ S 20 B T.
	A cedar,9 ins.dia.,bears S.8°E.,56 lks.
	dist..mkd.¼ S 29 B T.
42.75	Bottom of hollow,60 ft.below ridge,course S.20°W.
	Asc.
51.00	Begin more abrupt ascent over ledges,bears N.and S.
59.65	Top of rocky ridge,100 ft.above hollow,bears N.and S.

Chains	
	Desc.
62.50	Foot of ledges,bears N.and S.
73.00	Leave heavy and enter scattering timber,bears N.and S.
75.00	Bottom of hollow,80 ft.below ridge,course S.
	Asc.
80.02	The cor.of secs.19 20,29,and 30.
	Land,mountainous.
	Soil,sandy and gravelly;2nd rate.Subsoil,hard clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.02 chs.
	For reasons already explained I run West,on a true line bet.secs.19 and 30. Over mountainous land;through scattering timber and dense sage brush.
	Asc.
2.20	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.over ledges.
6.00	Bottom of hollow,50 ft.below ridge,course S.
	Asc.
10.00	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
23.50	Bottom of hollow,35 ft.below ridge,course S.
	Asc.
37.50	Leave ledges,bears N.and S.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 19 in N half and S 30 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
43.40	Top of ridge,140 ft.above hollow,bears NE and SW.
	Desc.

Sub.T.32 S.,R.11 W.-Continued.

Chains	Desc.
61.00	Bottom of hollow,125 ft.below ridge;course SW.
	Asc.
63.00	Top of ridge,35 ft.above hollow,bears NE and SW.
	Desc over rolling land.
81.16	Intersect W.bdy.of Tp.,3.22 chs.N.0°11'E.of the cor.of secs.24 and 25,which is an iron post,3 ins.in dia., projecting 12 ins above ground,firmly set,and mkd.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.19 and 30.,mkd.on brass cap
	T 32 S in N half.
	C CR 12 W S 24 S 25 in W half;
	R 11 W S 19 in NE.;and
	S 30 in in SE.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.
	Land,mountainous and rolling .
	Soil,sandy and red clay ;subsoil,clay and rocky,.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous land,or land covered with dense undergrowth, 81.16.chs.
	May 6,1911:At this cor.I set off 16°24'N.,on the decl.arc and 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°01'N.,which is the proper lat.nearly.
	—
	N.0°03'W.,bet.secs.19 and 20.
	Over mountainous land;through scattering timber and dense sage brush.
	Asc.
5.00	Top of ridge,50 ft.above cor.,bears N.80°E.and S.80°W.
	Desc.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
13.00	Bottom of hollow,40 ft.below ridge,course SW.
	Asc.over ledges.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of earth and stone,for ¼ sec.cor..mkd.on brass cap ¼ S 19 in W half and S 20 in E half;from which
	A cedar,5 ins.dia.,bears S.30°E.,27 lks.
	dist..mkd.¼ S 20 B T.
	A cedar,5 ins.dia.,bears N.23°30'W.,32 lks.
	dist..mkd.¼ S 19 B T.
64.00	Top of ridge,150 ft.above hollow, bears N.60°E.and S.60° W.
	Desc.abruptly over ledges.
	Enter heavy timber,bears N.60°E.and S.60°W.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.17,18,19,and 20,mkd.on brass cap
	T 32 S S 18 in NW.
	R 11 W S 17 in NE.
	S 20 in SE.;and
	S 19 in SW.quadrants;from which
	A cedar,6 ins.dia.,bears N.6°30'E.,139 lks.
	dist..mkd.T 32 S R 11 W S 17 B T.
	A cedar,8 ins.dia.,bears S.59°40'E.,35 lks.
	dist..mkd.T 32 S R 11 W S 20 B T.
	A cedar,5 ins.dia.,bears S.18°10 W.,106 lks.
	dist..mkd.T 32 S R 11 W S 19 B T.
	A cedar,8 ins.dia.,bears N.55°30'W.,52 lks.
	dist..mkd.T 32 S R 11 W S 18 B T.
	Land,mountainous .ledges.
	Soil,sandy and gravelly loam and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

Chains	
	S.89°59'E.,on a random line bet.secs.17 and 20.
40.00	Set temp.¼ sec.cor.
79.94	Intersect N.and S.line,at the cor.of secs.16,17,20,and 21.
	Thence I run
	N.89°59'W.,on a true line bet.secs.17 and 20.
	Over mountainous land;through heavy timber and dense undergrowth.
	Desc.
3.70	Begin more abrupt descent,bears N.and S.
10.00	Leave heavy and enter scattering timber,bears N.and S.
20.00	Bottom of hollow,150 ft.below sec.cor.,bears N.20°W.
	Asc.over ledges.
21.00	Top of spur,40 ft.above hollow,bears N.and S.
	Desc.
29.00	Bottom of hollow, 40 ft.below ridge,course N.
	Asc.
39.97	Set an iron post,3 ft,long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 17 in N half and S 20 in S half;from which
	A cedar,5 ins.dia.,bears N.73°E.,22 lks. dist..mkd.¼ S 17 B T.
	A cedar,8 ins.dia.,bears S.19°E.,43 lks. dist..mkd.¼ S 20 B T.
	Enter heavy timber,bears N.and S.
41.00	Top of ridge,75 ft.above hollow,bears N.and S.
	Desc.
52.50	Bottom of hollow,60 ft.below ridge,course N.10°E.
	Asc.
57.10	Top of ridge,60 ft.above hollow,bears N.10°W.and S.10°E.
	Desc.
62.50	Bottom of hollow,75 ft.belorid e,course N.20°W.
	Asc.
71.00	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
78.00	Bottom of hollow,60 ft.below ridge,course N.

Chains	
	Asc.
79.94	The cor.of secs.17,18,19,and 20.
	Land,mountainous.
	Soil,sandy and gravelly loam;2nd rate.and rocky;18 ins. deep.Subsoil,hard clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79;94 chs.
	May 6,1911.

	May 8,1911:At 7 h 56 m a.m.,l.m.t.,I set off 38°02'N., on the lat.arc;16°55'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
	West,on a true line bet.secs.18 and 19.
	Reasons already explained.
	Over mountainous land;through dense undergrowth and scattering timber.
	Asc.
4.00	Top of ridge,35 ft.above cor., bears N.and S.
	Desc.gradually over rolling hills.
30.00	Leave timber,bears N.and S.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 18 in N half and S 19 in S half;dig pits,18x18x12 ins.N.and W of post, 3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft. high,N.of cor.
80.91	Intersect W.bdy.of Tp.,3.21 chs.N.0°11'E.,of the cor.of secs.13 and 24,which is an iron post,3 ins.in dia., projecting 12 ins.above ground,firmlyset and mkd.and witnessed as described by the surveyor general.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the

Chains	
	ground,for closing cor.of secs.18 and 19,mkd.on brass cap
	T 32 S in N half.
	C C R 12 W S 13 S 24 in W half.
	R 11 W S 18 in NE.;and
	S 19 in SE.quadrants;and raise a mound of stone,
	2 ft.base,1½ ft.high,E.of cor.
	Land,mountainous and rolling.
	Soil,red clay and sandy ;2nd rate.
	Subsoil,is clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass.
	Mountainous land,or land covered with denseundergrowth,
	80.91 chs.
	—
	N.0°03'W.,bet.secs. 17 and 18.
	Over mountainous land;through scattering timber and dense
	undergrowth.
	Desc.
15.00	Bottom of hollow,40 ft.below sec.cor.,course NW.
	Asc.over ledges.
16.60	Top of ridge,30 ft.above hollow,bears NW and SE.
	Desc.
35.00	Bottom of hollow,40 ft.below ridge,course NW.
	Asc.gradually.
	Leave ledges,bears NW and SE.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S 18 in W half;
	and S 17 in E half;from which
	A cedar,10 ins.dia.,bears S.17°E.,88 lks.
	dist..mkd.¼ S 17 B T.
	A cedar,12 ins.dia.,bears S.48°W.,95 lks.
	dist.mkd.¼ S 18 B T.
45.00	Top of ridge,40 ft.above hollow,bears NW and SE.
	Desc.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
47.00	Bottom of hollow,25 ft.below ridge,course NW.
	Asc.
54.50	Volcanic ledge,bears NE and SW. 10 ft.high.
55.70	Top of ridge,35 ft.above hollow,bears NE and SW.
	Desc.gradually.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.7,8,17,and 18,mkd.on brass cap
	T 32 S S 7 in NW.
	R 11 W S 8 in NE.
	S 17 in SE.;and
	S 18 in SW.quadrants;from which
	A cedar,6 ins.dia. ,bears N.75°E.,270 lks.
	dist..mkd.T 32 S R 11 W S 8 B T.
	A cedar,4 ins.dia.,bears S.23°E.,117 lks.
	dist..mkd.T 32 S R 11 W S 17 B T.
	A cedar,4 ins.dia.,bears S.57°30'W.,255 lks.
	dist..mkd.T 32 S R 11 W S 18 B T.
	A cedar,8 ins.dia.,bears N.5°W.,205 lks.
	dist..mkd.T 32 S R 11 W S 7 B T.
	Land,mountainous.
	Soil,red clay and gravelly ;Subsoil,clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	May 8,1911:At the noon hour the sky is overcast and solar observations are impossible.
	S.89°59'E.,on a random lin e bet.secs.8 and 17.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line,7 lks.N.of the cor.of secs.8,9,16, and 17.

Chains	
	Thence I run
	N.89°56'W.,on a true line bet.secs.8 and 17.
	Over mountainous land;through heavy timber.
	Desc.
18.50	Bottom of hollow,50 ft.below ridge,course SW.
	Asc.
37.00	Top of ridge,40 ft.above hollow,bears NE and SW.
	Desc.
39.98	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ½ S 8 in N half and S 17 in S half;from which
	A cedar,8 ins.dia.,bears N.21°30'E.,70 lks. dist..mkd.½ S 8 B T.
	A cedar,12 ins.dia.,bears S.22°E.,29 lks. dist..mkd.½ S 17 B T.
45.00	Bottom of hollow,40 ft.below ridge,course SW.
	Asc.
55.00	Begin more abrupt ascent bears N.and S.
67.00	Leave heavy and enter scattering timber,bears N.and S.
70.00	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
79.96	The cor.of secs.7,8,17,and 18.
	Land,mountainous.
	Soil,sandy and gravelly loam and clay;2nd rate.;about 12 ins.deep.subsoil,clay and rocky.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.96 chs.
	West,on a true line bet.secs.7 and 18.
	Reasons already explained.
	Over mountainous land;through scattering timber and Desc.sage brush.
	Desc.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
10.75	Bottom of hollow,35 ft.below cor.course N.10°E.Asc.
24.00	Top of ridge,75 ft.above hollow,bears N.W.and SE. Desc.over boulders.
30.00	Leave boulders,bears NW and SE.
40.00	Bottom of hollow,35 ft.below ridge,course SW. Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 7 in N half and S 18 in S half;from whc ih A cedar,6 ins.dia.,bears N.20°W.,139 lks. dist..mkd.¼ S 7 B T. A cedar,10 ins.dia.,bears S.88°40'W.,148 lks. dist..mkd.¼ S 18 B T.
50.00	Top of ridge,35 ft.above hollow,bears NE and SW. Desc.gradually over rolling hills.
80.60	Intersect W.bdy.of Tp.,3.26 chs.N.0°11'E.,of the cor.of sec.12 and 13,which is an iron post,3 ins.in dia.,and projecting 12 ins.above ground,firmly set,and mkd.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.7 and 18,mkd.on brass cap T 32 S in N half. C C R 12 W S 12 S 13 in W half; R 11 W S 7 in NE.;and S 18 in SE.quadrants;from which A cedar,10 ins.dia.,bears N.85°E.,73 lks.dist. mkd.T 32 S R 11 W S 7 B T. A cedar,7 ins.dia.,bears S.76°E.,190 lks. dist..mkd.T 32 S R 11 W S 18 B T. Land,mountainous and rolling . Soil,sandy and gravelly 20 ins.deep.subsoil,sandy and rocky; Timber,cedar and pinon pine. Undergrowth,sage brush. Good grass . Mountainous land,or land covered with dense undergrowth, 80.60 chs.

Chains	
	May 8,1911.
	May 9,1911:At 7 h 56 m a.m.,l.m.t.,I set off 38°03'N.,on the lat.arc;17°11'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 mountainous land;through scattering timber and dense undergrowth.
	Desc.
5.00	Desc.more gradually,bears E.and W.
8.75	Bottom of hollow,50 ft.below cor.,course W.
	Asc.
20.00	Top of ridge,60 ft.above hollow,bears E.and W.
	Desc.
33.60	Bottom of hollow,60 ft.below ridge,course W.
	Asc.
40.00	Top of ridge,50 ft.above hollow,bears E.and W.
	Set an iron post,3 ft.long 1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 7 in W half and S 8 in E half from which
	A cedar,5 ins.dia.,bears N.35°20'E.,101 lks. dist..mkd.¼ S 8 B T.
	A cedar,10 ins.dia.,bears S.28°10'W.,10 8 lks. dist..mkd.¼ S 7 B T.
56.10	Bottom of hollow,60 ft.below ridge,course W.
	Asc.
73.70	Top of ridge,70 ft.above hollow,bears NE and SW.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.5,6,7,and 8,mkd.on brass cap
	T 32 S S 6 in NW.
	R 11 W S 5 in NE.

Chains	
	S 8 in SE.;and
	S 7 in SW.quadrants;from which
	A cedar,4 ins.dia.,bears S.70°E.,66 lks.
	dist..mkd.T 32 S R 11 W S 8 B T.
	Notother trees within limits;raise a mound of stone,2
	ft.base,1½ ft.high,W.of cor..
	and,mountainous.
	Soil,clay;and black volcanic rock;6 ins.deep.subsoil,clay
	and rock;
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	S.89°56'E.,on a random line bet.secs.5 and 8.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,2 lks.S.of the cor.of secs.4,5,8,and
	9.
	Thence I run
	N.89°57 'W.,on a true line bet.secs.5 and 8.
	Over mountainous land;through scattering timber and dense
	sage brush.
	Desc.
1.00	Bottom of hollow,10 ft.below cor.,course SW.
	Asc.
5.00	Top.of ridge,35 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
10.00	Leave scattering and enter heavy timber,bears N.and S.
14.00	Bottom of hollow,40 ft.below ridge,course S.20°W.
18.50	Top of ridge,40 ft.above hollow,bears N.10°E.and S.10°W.
	Desc.
25.00	Bottom of hollow,60 ft.below ridge,course SW.
	Asc.

Sub.T.32 S.,R.11 W. Continued.

Chains	
33.20	Top of ridge,60 ft.above hollow,bears N.75°E.and S.75°W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the groundkon solid rock,and surrounded by mound of earth and stone,for ¼ sec.cor..mkd.on brass cap ¼ S 5 in N half and S 8 in S half;from which
	A cedar,10 ins.dia.,bears N.18°45'W.,9 lks. dist..mkd.¼ S 5 B T.
	A cedar,8 ins.dia.,bears S.4°30'E.,34 lks. dist..mkd.¼ S 8 B T.
40.31	Bottom of hollow,50 ft.below ridge,course SW.
	Asc.
55.00	Top of ridge,70 ft.above hollow,bears N.70°E.and S.70° W.
	Desc.
70.00	Bottom of hollow,60 ft.below ridge,course SW.
	Asc.
74.50	Top of ridge,50 ft.above hollow,bears NE.and SW.
	Desc.
75.00	Leave heavy and enter scattering timber,bears N.and S.
80.00	The cor.of secs.5,6,7,and 8.
	Land,mountainous.
	Soil,clay with sand and volcanic rocky;subsoil clay and rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	May 9,1911:At this cor.I set off 17°13'N.,on the decl. arc;and at 11 h 56 m a.m.,l.m.t.,i observe the sun on the meridian the resulting lat.is 38°03'N.,which is the proper lat.nearly.

Sub.T.32 S.,R.11 W.-Continued.

Chains	
	West,on a true line bet.secs.6 and 7.
	Over mountainous land;through scattering timber and dense sage brush.
	Desc.
12.65	Road,bears NE and SW.
15.00	Bottom of hollow,100 ft.below cor.,course SW.
	Asc.
22.10	Top of ridge,40 ft.above hollow,bears N.30°E.and S.20°W.
	Desc.
25.00	Bottom of hollow,30 ft.below ridge,course S.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.mkd.on brass cap ¼ S 6 in N half and S 7 in S half;and raise a mound of stone,w 2 ft.base, 1½ ft.high,N.of cor.
48.80	Wash,30 lks.wide,7 ft.deep;course S.20°W.
	Asc.more abruptly.
80.14	Intersect W.bdy.of Tp.,3.16 chs.N.0°11'E.,of the cor.of secs.1 and 12,which is an iron post,3 ins.in dia., projecting 12 ins.above ground;firmly set,and mkd.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.6 and 7,mkd.on brass cap
	T 32 S in N half.
	C C R 12 W S 1 S 12 in W half.
	R 11 W S 6 in NE.;and
	S 7 in SE.quadrants;from which
	A cedar,10 ins.dia.,bears N.52°E.,119 lks. dist..mkd.T 32 S R 1 1 W S 6 B T.
	A cedar,10 ins.dia.,bears S.40°E.,90 lks. dist..mkd.T 32 S R 11 W S 7 B T.
	Land,mountainous.
	Soil,sandy and gravelly 10 ins.deep.Subsoil,black volcanic rock and clay;
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.

Chains	
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.14 chs.
	—
	N.0°03'W.,on a random line bet.secs.5 and 6.
40.00	Set temp.¼ sec.cor.
85.80	Intersect N.bdy.of Tp.,2 lks.W.of the cor.of secs.5,6,
	31,and 32,heretofore described .
	t Thence I run
	S.0°02'E.,on a true linebet.secs.5 and 6.
	Over mountainous land;through heavy timber and dense under
	growth,.
	Desc.
28.80	Bottom of hollow,200 ft.below cor.,course SE.
	Continue descent.
45.80	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the
	ground,on solid rock,and surrounded by mound of stone,
	for ¼ sec.cor..mkd.on brass cap ¼ S 5 in W half and S
	5 in E half;from which
	A cedar, 8 ins.dia.,bears S.75°E.,13 lks.
	dist..mkd.¼ S 5 B T.
	A cedar,6 ins.dia.,bears S.68°W.,18 lks.dist.
	mkd.¼ S 6 B T.
50.80	Leave heavy and enter scattering timber,bears E.and W.
71.30	Wash,20 lks.wide,8 ft.deep,in bottom of hollow,course
	SE.
	Asc.
74.25	Road,bears NE and SW.
	Bottom of hollow,course SW.
	Asc.
85.80	The cor.of secs.5,6,7,and 8.100 ft.above hollow.
	Land,mountainous.
	Soil,sandy and gravelly.2nd rate.
	Timber,cedar and pinon pine.

Sub.T.32 S.,R.11 W.-Continued.

Chains

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,85.80 chs.

May 9,1911.

General Description.

This township is all in the mountains very broken and cut up by numerous ridges and hollows. The soil is pretty uniform all over the township being generally sandy and gravelly loam from 1 to 2 ft.deep.Subsoil clay and rock. There is a heavy growth of scrubby cedar and pinon pine timber covering almost the entire township.

The undergrowth is principally sage brush which is usually dense and about four feet high,there is some greasewood and rabbit brush.

Lost Spring located in sec.22 is the only water in the township.It is a small spring flowing about 5 gal.per minute.Good water.

There are no settlers in the township.

There are a number of small tracts of land scattered thru the township suitable for dry farming,but thereare no settlers located in the township.

No mineral of any kind was seen.

May 9,1911.

John R Stewart

U.S.Transitman.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by .....

....., 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 .....

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

For list of names and final oath of assistants see ....., *Moundman.*

book "Z12" T. 31 S., R. 9 W. ....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all those parts or portions of the .....

.....

.....

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

..... meridian, ... of ....., 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 knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

Subscribed and sworn to before me this .....
day of ....., 190

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of t ..... day of ....., 190 , I have well, faithfully, and truly, in my o proper person, and in strict conformity with the instructions furnished by the United States Survey General for ....., the Manual of Surveying Instructions, and the laws of t United States, surveyed all those parts or portions of .....

For final oath of transitman see book "Z[12]" T. 31 S., R.9 W.

..... of the ..... meridian, in the ..... of ....., which are represented in t foregoing field notes as having been surveyed by me, and under my direction; and I do further solem swear that all the corners of said survey have been established and perpetuated in strict accordance w the Manual of Surveying Instructions, and the special written instructions of the United States Survey General for ..... and in the specific manner described in the field notes, and t the foregoing are the original field notes of such survey.

.....
United States Deputy Survey

Subscribed by said ....., and sworn to before me this ..... day of ....., 190

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 191

The foregoing field notes of the survey of the subdivisional lines of Township No. 32 South, Range No. 11 West of the Salt Lake Base and Merid- ian, Utah,

executed by John R. Stewart under his ~~contract No.~~ special instructions, dated August 6, 1910, ~~190~~, having be critically examined, and the necessary corrections and explanations made, the said field notes, and t surveys they describe, are hereby approved.

Thomas Bell
United States Surveyor Gener

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

.....
United States Surveyor Gener

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Filed Feb.17,1912.
WSH.

4—679

Z10

FIELD NOTES

BOOK A-386

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 31 SOUTH, RANGE NO. 11 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

JOHN P. STEWART AND AMILEY STEWART

In the capacity of U. S. ~~*Surveyor*~~ Transitmen, *under instructions dated* Aug. 6, *1910, issued by the United States Surveyor General to govern surveys included in Group No.* 1, *which were approved by the Commissioner of the General Land Office,* Aug. 25, *1910, pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced May 19, *1911*

Survey completed June 5, *1911.*

6—151

NAMES AND DUTIES OF ASSISTANTS.

Isaac R.Hayes,	Chainman.
J.Clarence Clark,	Chainman.
Edgar S.Hurst,	Moundman.
Virgil Decker,	Axman.

For preliminary affidavits see book "X" T.34 S., R.10 W.

BOOK A-386

INDEX DIAGRAM.

Township 31 South, *Range* 11 West

6	68	5	48	4	36	3	25	2	12	1	
66		65		47		35		24		11	
7	64	8	46	9	34	10	22	11	10	12	
63		62		45		33		21		9	
18	60	17	43	16	32	15	20	14	8	13	
59		57		42		31		19		7	
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52		51		38		27		15		3	
31	50	32	37	33	26	34	13	35	2	36	

6—151

Survey commenced May 19,1911:And executed with a W.and L. E.Curley Explorer's transit No.957,with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is alos the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct,and was approved by the Surveyor general for Utah,on Mar.28,1911.

Note:For Complete test of instrument see notes of Retracement N.bdy.of Tp.,of 6th Standard Parallel South through Range 11 W.

May 19,1911:At the cor.of secs.1,2,35,and 36,on S.bdy.of Tp.,latitude 38°04'17"N.,longitude 113°00'37"W.,At 3 h 47.4 m a.,m.l.m..t.I observe Polaris at eastern elongation in accordance with the Manual,and mark a point thereof on a wooden peg set in the ground,5.00 chs. N.of the cor. At 7 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°29'to the west,and mark a point in the meridian thus determined by a cross on a stone firmly set in the ground, 5.00 chs.N.of the cor.

At 7 h 56 m a.m.,l.m.t.,I set off 38°04'N.,on the lat. arc;19°38'N.,on the decl.arc;and determine a meridian with the solar,and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor.;this mark falls 0.27 ins.east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8 h 30 m a.m.,l.m.t is N.15°50'W.;the angle thus determined gives the mag.decl. 15°50'E.

From the cor.of secs.1,2,35,and 36,on S bdy.of Tp., heretofore described, I run

Chains	
	N.0°01'W.,bet.secs.35 and 36.
	Over rolling land;through dense sage brush.
	Desc.in Horse Valley
15.60	Bottom of h llow,40 ft.below sec.cor.,bourse S.76°W.
	Asc.
16.00	Road,bears N.40°E.and S.40°W.
21.70	Enter heavy timber,bears E.and W.
	Leave Horse Valley,bears E.and W.
40.00	Set an iron post;3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 35 in W half. and S 36 in E half;from which
	A cedar,6 ins.dia.,bears N.51°E.,142 lks. dist..mkd.¼ S 36 B T.
	A cedar,6 ins.dia.,bears N.27°W.,183 lks. dist..mkd.¼ S 35 B T.
80.00	Point 200 ft.above valley.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.25,26,35,and 36,mkd.on brass cap
	T 31 S S 26 in NW.
	R 11 W S 25 in NE.
	S 36 in SE.;and
	S 35 in SW quadrants;from which
	A cedar,10 ins.dia.,bears N.28°15'E.,30 lks. dist..mkd.T 31 S R 11 W S 25 B T.
	A cedar,6 ins.dia.,bears S.56°E.,7 lks. dist..mkd.T 31 S R 11 W S 36 B T.
	A cedar,14 ins.dia.,bears S.57°W.,70 lks. dist..mkd.T 31 S R 11 W S 35 B T.
	A cedar,10 ins.dia.,bears N.47°40'W.,52 lks. dist..mkd.T 31 S R 11 W S 26 B T.
	Land,rolling and mountainous.
	Soil,sandy and gravelly loam about 2 ft.deep;2nd rate.
	Subsoil,clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazig.

Chains	
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	East,on a random line bet.secs.25 and 36.
40.00	Set temp.¼ sec.cor.
80.04	Intersect E.bdy.of Tp.,5 lks.S.of the cor.of secs.25,30, 31,and 36,heretofore described.
	Thence I run
	S.89°58'W.,on a true line bet.secs.25 and 36.
	over mountainous land:through dense undergrowth.
	Asc. gradually.
14.10	Begin abrupt ascent,bears N.and S.
	Road,bears NW and SE.
34.20	Top of knoll,120 ft.above sec.cor.,bears N.10°W.and S.10° E.
	Desc.
36.00	Enter heavy timber,bears NW and S.
40.02	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 25 in N half and S 36 in S half;from which
	A cedar,12 ins.dia.,bears N.80°W.,138 lks. dist..mkd.¼ S 25 B T.
	A cedar,12 ins.dia.,bears S.77°E.,113 lks. dist..mkd.¼ S 36 B T.
51.50	Foot of steep descent,bears N.and S.
52.75	Road,bears N.and S.
	Bottom of swale,100 ft.below knoll,course S.
	Asc.
80.04	The cor.of secs.25,26,35,and 36.
	Land,rolling and mountainous .
	Soil,sandy loam;2nd rate.2 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	Mountainous or heavily timberedland,or land covered with dense undergrowth,80.04 chs.
	N.0°01'W.,bet.secs.25 and 26.
	Over mountainous land;through heavy timber and dense sage brush and scattering mahogany.
	Asc.
1.60	Top of ridge,30 ft.above sec.cor.,bears N.80°W.and S.80° E.
	Desc.
12.30	Bottom of hollow 40 ft.below ridge,course N.70°W.
	Asc.
24.90	Road,bears N.75°W.and S.75°E.
30.00	Leave timber,bears NE and SW.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 26 in W half and S 25 in E half;and raise a mound of stone,2 ft.base,1 ft.high,W.of cor.
46.80	Top of ridge,80 ft.above hollow,bears N.60°E.and S.70°W.
	Desc.
151.15	Bottom of hollow,50 ft.below ridge,course S.60°W.
	Asc.
54.80	Top of ridge,35 ft.above hollow,bears N.45°E.and S.45°W.
	Desc.
60.00	Bottom of hollow,60 ft.below ridge,course N.70°W.
	Asc.
71.10	Top of ridge,65 ft.above hollow,bears N.60°E.and S.60° W.
	Desc.
80.00	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for cor.of secs.23,24,25,and 26,mkd.on brass cap T 31 S S 23 in NW. R 11 W S 24 in NE. S 25 in SE.;and

Sub.T.31 S.,R.11 W.-Continued..

Chains	
	S 26 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous ,smooth slopes.
	Soil,sandy and gravelly loam;2nd rate.about 3 ft.deep.
	Subsoil clay and hard gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with denseundergrwth,80.00 chs.
	May 19,1911.At this cor.I set off 19°40'N.,on the decl. arc;and at 11 h 56 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°06'N.,which is the proper lat.nearly.
	———
	N.89°58'E.,ona random line bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
80.06	Intersect E.bdy.of Tp.,5 lks.S.of the cor.of secs.19,24, 25,and 30,heretofore described.
	Thence I run
	S.89°56'W.,on a true line bet.secs.24 and 25.
	Over mountainous land;through scattering timber.and dense sage brush.
	Asc.
10.00	Top of ridge,20 ft.above cor.,bears NE and SW.
	Desc.
40.03	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 24 in N.half and S 25 in S.half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
42.50	Ledge,80 ft.high,bears N.10°W.and S.10°E.
55.50	Road,bears N.60°W.and S.60°E.
	Bottom of hollow,200 ft.below ridge,course N.60°W.
	Asc.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
67 50	Top of ridge,50 ft.above hollow,bears N.20°W.and S.20°E.
	Desc.
70.90	Bottom of hollow,30 ft.below ridge,course N.20°W.
	Asc.
78.00	Top of ridge,50 ft.above hollow,bears N.10°W.and S.10°E.
	Desc.
80.06	The cor.of secs.23,24,25,and 26.20 ft.below ridge,.
	Land,mountainous 1
	Soil,sandy and gravelly loam;2nd rate.about 1 ft.deep.
	Subsoil,hard gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Mountainous land,or land covered with dense undergrowth,
	80.06 chs.
	May 19,1911.

May 20,1911:At 7 h.56 m a.m.,l.m.t.;I set off 38°06'N., on the lat.arc;19°51'NW.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.23,24,25,and and 26.

Thence I run

N.0°1'W.,bet.secs.23 and 24.

Over mountainous land;through scattering timber and dense sage brush.

	Desc.
14.00	Enter heavy timber,bears E.and W.
20.00	Leave timber,bears E.and W.
34.95	Bottom of hollow,100 ft.below cor.,course N.80°W.
	Asc.
35.40	Road,bears N.85°W.and S.85°E.
37.80	Top of ridge,30 ft.above hollow,bears N.60°E.and S.60°W.
	Desc.
39.85	Bottom of hollow,30 ft.below ridge,course S.75°W.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	Asc.
40.00	Set an iron post,3 ft.long,1 in in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 23 in W half and S 24 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
43.80	Top of ridge,40 ft.above hllow,bears N.80°E.and S.80°W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.13,14,23,and 24,mkd.on brass cap T 31 S S 14 In NW. R 11 W S 13 in NE. S 24 in SE.;and S 23 in SW.quadrants;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,mountainous .
	Soil,sandy and clay loam;2nd rate;about 2 ft.deep.subsoil hard white clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	N.89°56'E.,on a random line bet.secs.13 and 24.
40.00	Set temp.¼ sec.cor.
80.08	Intersect E.bdy.of Tp.,at the cor.of secs.13,18,19,and 24,heretofore described.
	Thence I run
	S.89°56'W.,on a true line bet.secs.13 and 24.
	Over mountainous land;through dense undergrowth and scattering timber.
	Desc.

Sub.RT.31 S.,R.11.W.-Continued.

Chains	
40.04	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 13 in N half and S 24 in S half;and from which
	A cedar,5 ins.dia.,bears N.82°30'W.,393 lks. dist..mkd.¼ S 13 B T.
	A cedar,10 ins.dia.,bears S.61°W.,169 lks. dist..mkd.¼ S 24 B T.
44.00	Leave timber,bears N.20°E.and S.20°W.
71.50	Bottom of hollow,500 ft.below sec.cor.,course NW.
	Asc.
80.08	The cor.of secs13,14,23,and 24.
	Land,mountainous .
	Soil,sandy and gravelly;2nd and 3rd rate.
	Subsoil,gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous landor land covered with dense undergrowth,
	80.08 uhs.
	N.0°1'W.,bet.secs.13 and 14.
	Over mountainous land;through dense sage brush.
	Desc.
9.10	Bottom of hollow,40 ft.below cor.,course NW.
	Asc.
22.00	Top of ridge,90 ft.above hollow,bears N.70°W.and S.70°E.
	Desc.
30.50	Bottom of hollow,100 ft.below ridge,course N.60°W.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec. cor.mkd.on brass cap ¼ S 14 in W half and S 13 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.

Chains

46.00 Top of ridge,200 ft.above hollow,bears NW.and SE.

Desc.abruptly.

69.80 Bottom of hollow,250 ft.below ridge,course NW.

Asc.abruptly.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.11,12,13,and 14,mkd.on brass cap

T 31 S S 11 in NW.

R 11 W S 12 in NE.

S 13 in SE.;and

S 14 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

Land,mountainous.

Soil,sandy loam;2nd rate;3 ft.deep.

Subsoil,clay and gravelly.

Timber,cedar and pinon pine. very scattering

Undergrowth,sage brush.

Good grass.

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

May 20,1911:At this cor. I set off 19°52'N.,on the decl. arc;and at 11 h 56 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°08'N.,which is the proper lat.nearly.

N.89°56'E.,on a random line bet.secs.12 and 13.

40.00 Set temp.¼ sec.cor.

80.02 Intersect E.bdy.of Tp.,2 lks.N.of the cor.of secs.7,12, 13,and 18.heretofore described.

Thence I run

S.89°57'W.,on a true line bet.secs.12 and 13.

Over mountainous land;through dense undergrowth.

Desc.

9.90 Bottom of hollow,100 ft.below sec.cor.,course N.60°W.

Asc.

Chains	
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 13 in N half and S 14 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.
47.00	Top of ridge,200 ft.above hollow,bears N.20°W.and S.20° E.
	Desc.
65.60	Bottom of hollow,250 ft.below ridge,course N.10°W.
	Asc.
77.10	Top of ridge,200 ft.above hollow,bears N.15°W.and S.15°E.
	Desc.
80.02	The cor.of secs.11,12,13,and 14,.
	Land,mountainous
	Soil,clay and gravelly.loam;2nd rate.
	No timber.
	Undergrowth,sage brush.
	Good grass .
	Mountainous or land covered with dense undergrowth,80.02 chs.
	N.0°1'W.,bet.secs.11 and 12.
	Over mountainous land;through dense sage brush.
	Asc.
9.50	Top of ridge,100 ft.above sec.cor.,bears N.30°W.and S.30° E.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 11 in W half and S 12 in 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.
42.30	Bottom of hollow,350 ft.below ridge,course N.30°W.
	Asc.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
51.30	Top of ridge,75 ft.above hollow,bears NE and SW.
	Desc.
52.00	Enter scattering timber,bears N.60° W.and S.60°E.
60.00	Foot of steep descent,bears N.60°E.and S.60°W.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.1,2,11,and 12,mkd.on brass cap.
	T 31 S S 2 in NW.
	R.11 W S.1 in NE.
	S 12 in SE.;and
	S 11 in SW.quadrants;from which
	A cedar,7 ins.dia.,bears N.62°E.,149 lks.
	dist..mkd.T. 31 S R 11 W S.1 B T.
	A cedar,8 ins.dia.,bears S.85°E.,58 lks.
	dist..mkd.T 31 S R 11 W S.12 B T.
	A cedar,16 ins.dia.,bears S.57°30'W.,100 lks.
	dist..mkd.T 31 S R 11 W S 11 B T.
	A cedar,10 in.dia.,bears N.30°W.,60 lks.
	dist..mkd.T 31 S R 11 W S 2 B T.
	Land,mountainous
	Soil,sandy and gravelly;2nd and 3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	———
	N.89°57' E.,on a random line bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.
79.98	Intersect E.bdy.of Tp.,10 lks.N.of the cor.of secs.1,6, 7,and 12.
	Thence I run
	N.89°59'W.,on a true line bet.secs.1 and 12.
	Over mountainous land;through scattering timber.
	Desc.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
6.00	Bottom of hollow,90 ft.below sec.cor.,course NW.
	Asc.
22.95	Old road,bears N.and S.
24.00	Top of ridge,90 ft.above hollow,bears NW and SE.
	Desc.
35.90	Bottom of hollow,100 ft.below ridge,course NW.
	Asc.
39.99	Set an iron post,3 ft.long,1 in.in dia.,36 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 1 in N half and S 12 in S half;from which
	A cedar,10 ins.dia.,bears N.72°W.,118 lks. dist..mkd.¼ S 1 B T.
	A cedar,9 ins.dia.,bears S.51°W.,115 lks. dist..mkd.¼ S 12 B T.
40.80	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
50.90	Bottom of hollow,50 ft.below ridge,course N.10°E.
	Asc.
79.98	The cor.of secs.1,2,11,and 12.40 ft.above hollow.
	Land,mountainous
	Soil,gravelly.;2nd rate.2 ft.deep.subsoil,clay and gravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 79.98 chs.

May 20,1911.

May 22,1911:At 7 h 56 m a.m.,l.m.t.,I set off 38°09'N.,on the lat.arc;20°16'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°1'W.,bet.secs.1 and 2.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	Over mountainous land;through scattering timber and dense sage brush.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 2 in W half and S 1 in E half;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
46.60	Head of hollow,200 ft.below cor.,course N.60°E.
	Asc.
64.40	Top of ridge,200 ft.above hollow,bears NE and SW.
	Desc.
79.65	Leave timber,bears E.and W.
95.65	Intersect 6th Standard Parallel South,N.89°46'W.,7.50 chs. from Standard cor.of secs.35 and 36,heretofore described. Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.1 and 2, mkd.on brass cap C C T 30 S R 11 W S 35 S 36 in N half. S 1 in SE.;and S 2 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,S.of cor.
	-end,mountainous
	Soil,sandy and gravelly;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 95.65 chs.
	May 22,1911:At the noon hour the sky is overcast and solar observations are impossible.

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

I run

N.0°01'W.,bet.secs.34 and 35.

Chains	
	Over mountainous land;through dense sage brush.
	Asc.
3.00	Top of ridge,50 ft.above cor.,bears NE.and SW.
	Desc.
7.90	Road,bears N.60°W.and S.60°E.
8.15	Bottom of hollow,35 ft.below ridge,course NW.
	Desc.
21.70	Top of ridge,90 ft.above hollow,bears E.and W.
	Desc.
30.30	Bottom of hollow,50 ft.below ridge,course SW.
	Asc.
35.00	Top of ridge,35 ft.above hol ow,bears NW.and SE.
	Desc.
36.60	Bottom of hollow,40 ft.below ridge,course SE.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor.mkd.on brass cap ¼ S 34 in W half and S 35 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
55.00	Top of ridge,150 ft.above hollow,bears SE.and W.
	Desc.
70.60	Bottom of hollow,150 ft.below ridge,course S.60°W.
	Asc.abruptly.over ledges.
78.10	Top of ridge,100 ft.above hollow,bears N.70°W.and S.70°E.
	Desc.
80 00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.26,27,34,and 35,mkd.on brass cap T 31 S S 27 in NW. R 11 W S 26 in NE. S 35 in SE.;and S 34 in SW.quadrants;and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,red sand and gravelly ;2nd rate.about 1 ft.deep.
	Subsoil,gravel.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	No timber.
	Undergrowth,sage brush.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	East,on a random line bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,5 lks.S.of the cor.of secs.25,26,
	35,and 36.
	Thence I run
	S.89°58'W.,on a true line bet.secs.26 and 35.
	Over mountainous land;through heavy timber and dense under-
	growth,
	Asc.
21.10	Top of ridge,150 ft.above sec.cor.,bears N.25°E.,and SW.
	Desc.
	Leave timber,bears N.25°E.and SW.
40.00	Set and iron post,3 ft.long,1 in.in dia.,26 ins.in the
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S 26 in N half
	and S 35 in S half;and raise a mound of stone,2 ft.base,
	1½ ft.high,N.of cor.
45.20	Bottom of hollow,250 ft.below ridge,course N.55°W.
	Asc.
73.00	Top of ridge,400 ft.above hollow,bears N.30°W.and SE.and
	N.80°W.
	Desc.
80.00	The cor.of secs.26,27,34,and 35.
	L and,mountainous.
	Soil,sandy and gravelly 3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered
	with dense undergrowth,80.00 chs.

Chains

N.0°01'W.,bet.secs.26 and 27.

Over mountainous land;through dense sage brush.

Desc.

6.75 Bottom of hollow,125 ft.below cor.,course NW.

Asc.

12.95 Top of ridge,60 ft.above hollow,bears NW.and S.30°E.

Desc.

25.35 Bottom of hollow,75 ft.below ridge,course W.

Asc.

32.00 Top of ridge,90 ft.above hollow,bears NW.and SE.

Desc.

36.30 Bottom of hollow,60 ft.below ridge,course N.60°.W.

Asc.

40.00 Top of ridge,50 ft.above hollow,bears E.and W.

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 27 in W half and S 26 in E half;and raise a mound of stone,2 ft.base, 1½ ft.W.of cor.

Desc.

55.95 Road,bears E.and W.

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

T 31 S S 22 in NW.

R 11 W S 23 in NE.

S 26 in SE.;and

S 27 in SW.quadrants;and 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,mountainous

Soil,sandy and clay;2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or land covered with dense undergrowth.

Chains	
	80.00 chs.
	May 22,1911.
	May 23,1911.:At 7 h 56 m a.m.,l.m.t.,I set off 38°06'N.,on the lat.arc;20°27'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.22,23,26,and 27;
	Thence I run
	N.89°58'E.,on a random line bet.secs.23 and 26.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line,2 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 mountainous land;through dense sage brush.
	Desc.
2.50	Bottom of hollow,40 ft.below cor.,course N.10°E.
	Asc.
7.30	Top of ridge,60 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
17.00	Bottom of hollow,40 ft.below ridge,course N.
	Asc.
18.50	Top of ridge,40 ft.above hollow,bears N.70°W.and S.70°E.
	Desc.
23.75	Bottom of hollow,65 ft.below ridge,course N.20°W.
	Asc.
25.45	Top of ridge,35 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
35.25	Bottom of hollow,35 ft.below ridge,course N.20°W.
	Asc.
40.03	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 23 in N half and S 26 in S half;dig pits,18x18x12 ins.E.and W.of post. 3½ ft.high,;and raise a mound of earth,3½ ft.base,1½ ft.

Chains

high N.of cor.

41.25 Top of ridge,40 ft.above hollow,bears NW and SE.

Desc.

49.00 Road,bears N.30°E.and S.30°W.

80.06 The cor.of secs.22,23,26,and 27.

Land,mountainous.

Soil,sandy and clay loam 2 ft.deep,2nd rate.subsoil,clay.

No timber.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth,

80.06 chs.

N.0°01'W.,bet.secs.22 and 23.

Over rolling mo ntainous land;through scattering timber and dense sage brush.

Desc.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 22 in W half and S 23 in 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.

46.70 Bottom of swale,50 ft.below cor.,course SW.

Road,bears NE and SW.

Asc.

60.00 Top of ridge,60 ft.above swale,bears E.and W.

Desc.

67.50 Bottom of hollow,50 ft.below ridge,course NE.

Asc.

74.00 Top of spur,40 ft.above hollow,bears NE and SW.

Desc.

78.50 Bottom of hollow,40 ft.below ridge,course N.60°E.

Asc.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.14,,15,22,and 23,mkd.on brass cap

Chains

T 31 S S 15 in NW.

R 11 W S 14 in NE.

S 23 in SE.;and

S 22 in SW.quadrants;and raise a mound of stone, 2 ft:base,1½ ft.high,W.of cor.

Land,mountainous.

Soil,red sandy loam 3 ft.deep.

Timber,cedar and pinon pine.

Undergrowth,sage brush and greasewood.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

May 23,1911:At this cor.I set off 20°29'N.,on the decl. arc;and at 11 h 56 m a.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 38°07'N.,which is the proper lat.nearly.

N.89°57'E.,on a random line bet.secs.14 and 23.

40.00 Set temp.¼ sec.cor.

79.96 Intersect N.and S.line,7 lks.N.of the cor.of secs.13,14, 23,and 24.

Thence I run

West,on a true line bet.secs.14 and 23.

Over mountainous land;through dense undergrowth.

Asce

2.70 Top of ridge,25 ft.above sec.cor.,bears N.10°W.and S.10°E.

Desc.

25.00 Begin more abrupt descent,bears N.and S.

31.30 Road,bears NW and SE.

32.65 Bottom of hollow,80 ft.below ridge,course N.60°W.

Asc.

39.98 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 14 in N half and S 23 in S half;dig pits,18x18x12 ins.E.and W.of post,

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft.hi
	N.of cor.
44.60	Top of ridge,50 ft.above hollow,bears NW.and SE.
	Desc.
46.60	Bottom of hollow,40 ft.below ridge,course N.40°W.
	Asc.
52.70	Top of ridge,50 ft.above hollow,bears N.30°W.and S.30°
	E.
	Desc.
57.40	Road,bears N.25°W.and S.25°E.
59.80	Bottom of hollow,75 ft.below ridge,course N.20°W.
	Asc.
72.20	Top of ridge,60 ft.above hollow,bears N.10°W.and S.10°E.
	Desc.
76.50	Bottom of hollow,40 ft.below ridge,course N.15°W.
	Asc.
79.96	The cor.of secs.14,15,22,and 23.
	Land,mountainous.
	Soil,sandy and gravelly;2nd rate.
	No Timber
	Undergrowth,sage brush.
	Good gras for grazing.
	Mountainous land,or land covered with dense undergrowth,
	79.96 chs.

	N.0°01'W.,bet.secs.14 and 15.
	Over mountainous land;through dense sage brush and
	greasewood.
	Asc.
23.40	Top of ridge,200 ft.above cor.,bears E.and W.
	Desc.
26.00	Enter scattering timber,bears N. and SW.
33.00	Bottom of hollow,150 ft.below ridge,course E.
	Asc.abruptly.
38.00	Top of ridge,140 ft.above hollow,bears N.80°E.and S.80°W.

Chains	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,36 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 15 in W half and S 14 in E half;from which A cedar,7 ins.dia.,bears N.35°15'E.,101 lks. dist..mkd.¼ S 14 B T. A cedar,5 ins.dia.,bears N.21°30'W.,24 lks. dist..mkd.¼ S 15 B T.
56.00	Bottom of hollow,100 ft.below ridge,course E.
	Asc.
76.20	Top of ridge,200 ft.above hollow,bears N.80°E.and S.80° W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins. in dia.,24 ins.in the ground,for cor.of secs.10,11,14,and 15,mkd.on brass cap T 31 S S 10 in NW. R 11 W S 11 in NE. S 14 in SE.;and S 15 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

Land,mountainous.

Soil,sandy ;2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage and greasewood.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

May 23,1911.

May 24,1911.At 7 h 57 m a.m.,l.m.t.,I set off 38°08'N., on the lat.arc;20°39'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.10,11,14 and 15.

Thence I run

East,on a random line bet.secs.11 and 14.

Chains	
40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line,5 lks.S.of the cor.of secs.11,12,13 and 14.
	Thence I run
	S.89°58'W.,on a true line bet.secs.11 and 14.
	Over mountainous land,through dense undergrowth.
	Desc.
12.70	Bottom of hollow,150 ft.below sec.cor.,course N.40°W.
	Asc.
30.00	Top of ridge,120 ft.above hollow,bears N.20°W.and S.20°E.
	Desc.
32.00	Enter scattering timber,bears N.and S.
39.96	39.96 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in t ground,for ¼ sec.cor..mkd.¼ S 11 in N half and S 14 in S half;from which
	A cedar,8 ins.dia.,bears N.78°W.,113 lks. dist..mkd.¼ S 11 B T.
	A cedar,14 ins.dia.,bears S.68°E.,163 lks. dist..mkd.¼ S 14 B T.
58.45	Bottom of hollow,50 ft.below ridge,course N.
	Road,bears N.and S.
	Asc.
79.92	The cor.of secs.10,11,14,and 15.200 ft.above hollow.
	Land,mountainous.
	Soil,gravelly.3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 79.92 chs.

N.0°01'W.,bet.secs.10 and 11.

Over mountainous land;through scattering timber and dens undergrowth .

Chains	
	Desc.
17.20	Bottom of hollow,100 ft.below sec.cor.,course NE.
	Asc.
28.20	Top of ridge,70 ft.above hollow,bears N.30°E.and S.30°W.
	Desc.
31.00	Bottom of hollow,60 ft.below ridge,course N.80°E.
	Asc.
38.75	Top of ridge,200 ft.above hollow,bears N.75°E.and S.75°W.
	Desc.
40.00	Set an iron post,3 ft.long 2 ins.in dia.,24 ins.in the ground,for ¼ sec.cor.mkd. on brass cap ¼ S 10 in W half and S 11 in E half;from which
	A cedar,10 ins.dia.,bears N.41°E.,40 lks. dist..mkd.¼ S 11 B T.
	A cedar,10 ins.dia.,bears N.78°W.,47 lks. dist..mkd.¼ S 10 B T.
79.65	Bottom of hollow,400 ft.below ridge,course N.10°W.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.2,3,10,and 11mkd.on brass cap
	T 31 S S 3 in NW.
	R 11 W S 2 in NE.
	S 11 in SE.;and
	S 10 in SW.quadrants;from which
	A cedar,8 ins.dia.,brars N.27°30'E.,33 lks. dist..mkd.T 31 S R 11 W S 2 B T.
	A cedar,8 ins.dia.,bears S.30°15'E.,104 lks. dist..mkd.T 31 S R 11 W S 11 B T.
	A cedar12 ins.in dia.,bears S.86°15'W.,23 lks. dist..mkd.T 31 S R 11 W S 10 B T.
	A cedar,8 ins.dia.,bears N.71°45'W.,76 lks. dist..mkd.T 31 S R 11 W S 3 B T.
	Land,mountainous.
	Soil,gravelly 3rd rate.1 ft.deep.subsoilgravel.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	Good grass .
	Mountainous land,or land covered with dense undergrowth.
	00 chs.
	May 24,1911:At the noon hour the sky is overcast and sola observations are impossible.

	N.89°58'E.,on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
79.90	Intersect N.and S.line,2 lks.N.of the cor.of secs.1,2,11,an 12.
	Thence I run
	S.89°59'W.,on a true linebet.secs.2 and 11.
	Over mountainous land;throughheavy timber.
	and dense sage brush.
	Asc.
10.00	Top of ridge,20 ft.above cor.,bears N.and S.
	Desc.
23.00	Bottom of hollow,100 ft.below ridge,course NW.
	Asc.
25.80	Top of ridge,70 ft.above hollow,bears NW.and SE.
	Desc.
39.95	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 2 in N half and S 11 in S half;from which .
	A cedar,10 ins.dia.,bears N.73°E.,43 lks.
	dist..mkd.¼ S 2 B T.
	A cedar,12 ins.diam.,bears S.50°E.,117 lks.
	dist..mkd.¼ S 11 B T.
42.00	Bottom of hollow,40 ft.below ridge,course N.15°E.
	Asc.
42.50	Road,bears N.10°E.and S.10°W.
7100	Top of ridge,90 ft.abovehollow,bears N.and S.
	Desc.
79.90	The cor.of secs.2,3,10,and 11.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	Land,mountainous . . . . .
	Soil,sandy and gravelly.3rd rate.1 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous or heavily timberedland,or land covered with dense undergrowth. 79.90 chs.
	N.0°1'W.,bet.secs.2 and 3.
	Over mountainous land;through heavy timber and dense sage brush.
	Desc.gradually.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 3 in W half and S 2 in E half;from which
	A cedar,12 ins.dia.,bears N.87°E.,43 lks. dist..mkd.¼ S 2 B T.
	A cedar,14 ins.dia.,bears N.42°W.,45 lks. dist..mkd.¼ S 3 B T.
59.70	Road,bears N.70°E.and S.70°W.
	Foot of descent,200 ft.below cor.,bears N.70°E.and S.70°W.
74.10	Road,bears NW and S.50°E.
77.40	Wash,20 lks.wide,1 ft.deep,course N.55°W. in bottom of hollow,course N.55°W.
	Asc.
88.90	Top of knoll 180 ft.high.
	Desc.
95.96	Intersect 6th Standard Parallel South, 6.40chs.S.89°57'W. of the standard cor.of secs.34 and 35,heretofore described. Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.2 and 3,mkd.on brass cap
	C C T 30 S R 11 W S 34 S 35 in N half S 2 in SE;and
	S.3 in SW.quadrants;and raise a mound of stone,

Chains	
	2 ft.base,1½ ft.high,S.of cor.
	Land,mountainous.
	Soil,sandy loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous or.heavily timberedland,or land coveredwith dense undergrowth,95.96 chs.
	May 24,1911.
	—
	May 25,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°04'N., on the lat.arc;20°50'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 mountainous land;through scattering timber and dense sage brush.
	Desc.
10.00	Desc.more abruptly.bears N.60°W.and S,60°E.
14.60	Bottom of hollow,130 ft.below sec.cor.,course N.60°W.
	Asc.
17.50	Top of spur,50 ft.above hollow,bears E.and W.
	Desc.
21.75	Bottom of hollow,60 ft.below ridge,course SW.
	Asc.
30.00	Top of ridge,110 ft.above hollowbears N.70°E.and S.70°W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.¼ S 33 in W half;and S.34 in E.half;from which
	A cedar,12 ins.dia.,bears N.68°E.,40 lks. dist..mkd.¼ S 34 B T.
	A cedar,12 ins.dia.,bears N.79°W.,16 lks.

Chains	
	dist..mkd.¼ S 33 B T.
45.85	Bottom of hollow,150 ft.below ridge,course W.
	Asc.abruptly over ledges.
47.20	Leave ledges,bears E.and W.
56.25	Top of ridge,140 ft.above hollow,bears E.and W.
	Desc.
75.00	Foot of steep descent,bears E.and W.
	Desc.gradually.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.27,28,33,and 34,mkd.on brass cap
	T 31 S S 28 in NW.
	R 11 W S 27 in NE.
	S 34 in SE.;and
	S 33 in SW.quadrants;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,mountainous.
	Soil,gravelly and clay loam,2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land;or land covered with dense undergrowth, 80.00 chs.
	East,on a random line bet.secs.27 and 34.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line,7 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 rolling mountainous land;through dense sage brush.
	Asc.
3.50	Top of ridge,10 ft.above cor.,bears NW and SE.
	Desc.
21.00	Bottom of hollow,200 ft.below ridge,course NW.

Chains Asc.

29.00 Top of s ur,100 ft.above hollow,bears NW and SE.

Desc.

39.98 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 27 in N half and S 34 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.

43.10 Enter scattering timber,bears N.and S.

79.80 Bottom of hollow,100 ft.below ridge,course NW.

Asc.

79.96 The cor.of secs.27,28,33,and 34.

Land,rolling mountainous.

Soil,sandy and clay loam about 3 ft.deep.2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 79.96 chs.

May 25,1911:At this cor.I set off 20°52'N.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°05'N.,which is the proper lat.nearly.

N.0° 2' .,bet.secs.27 and 28.

Over mountainous land;through scattering timber and dense undergrowth.

Desc.

.20 Bottom of hollow,course NW.

Asc.

10.00 Top of ridge,40 ft.above hollow,bears N.60°E.and S.60° W.

Desc.

17.50 Bottom of hollow,30 ft.below ridge,course SW.

Asc.

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

Chains

ground,for ¼ sec.cor..mkd.on brass cap ¼ S 28 in W half; and S 27 in E half;from which

A cedar,5 ins.dia.,bears S.54°E.,36 lks. dist..mkd.¼ S 27 B T.

A cedar,5 ins.dia.,bears N.34°W.,76 lks. dist..mkd.¼ S 28 B T.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.21,22,27,and 28,mkd.on brass cap

T 31 S S 21 in NW.

R 11 W S 22 in NE.

S 27 in SE.;and

S 28 in SW.quadrants;from which

A cedar,8 ins.dia.,bears N.82°40'E.,159 lks. dist..mkd.T 31 S R 11 W S 22 B T.

A cedar,12 ins.dia.,bears S.18°20'E.,60 lks. dist..mkd.T 31 S R 11 W S 27 B T.

A cedar,14 ins.dia.,bears S.18°05'W.,170 lks. dist..mkd.T 31 S R 11 W S 28 B T.

A cedar,12 ins.dia.,beras N.84°W.,190 lks. dist..mkd.T 31 S R 11 W S 21 B T.

Soil,red sandy loam;3 ft.deep.subsoil clay.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth,

80.00 chs.

N.89°57'E.,on a random line bet.secs.22 and 27.

40.00 Set temp.¼ sec.cor.

79.92 Intersect N.and S.line,12 lks.N.of the cor.of secs.22,23, 26,and 27.

Thence I run

N.89°58'W.,on a true line bet.secs.22 and 27.

Over rolling mountainous land;through dense undergrowth and scattering timber.

Sub.T.31 S.,R.11 W.-Continued:

Chains	Desc.
39.96	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 22 in N half and S 27 in 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.hi N.of cor.
51.20	Road,bears N.15)W.and S.15°E.
79.92	The cor.of secs.21,22,27,and 28.
	Land,mountainous. long gradual slopes.
	Soil,sandy and clay loam about 4 ft.deep,subsoil,clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land;or land covered with dense undergrowth, 79.92 chs.
	———
	N.0°02'W.,bet.secs.21 and 22.
	Over rolling mountainous land;through dense undergrowth and scattering timber.
	Desc.
11.85	Road,bears N.60°E.and S.60°W.
	Bottom of hollow,40 ft.below cor.,course SW.
	Asc.
26.40	Road,bears NW and SE.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on rock,and surrounded by mound of earth,and stone for ¼ sec.cor..mkd.on brass cap ¼ S 21 in W half and S 22 in E half;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
56.50	Top of ridge,150 ft.above hollow,bears NE and SW.
	Desc.
70.50	Bottom of hollow,50 ft.below ridge,course SW.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.15,16,21,and 22,mkd.on brass cap T 31 S S 16 in NW.

Chains

R 11 W S 15 in NE.

S 22in SE.;and

S 21 in SW.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

Land,mountainous .

Soil,sandy and gravelly loam about 2 ft.deep,2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land coveredwith dense undergrowth, 80.00 chs.

May 25,1911.

May 26,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°07'N., on the lat.arc;21°01'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

S.89°58'E.,on a random line bet.secs.15 and 22.

40.00 Set temp.¼ sec.cor.

79.90 Intersect N.and S.line,10 lks.S.of the cor.of secs.14,15, 22,and 23.

Thence I run

S.89°58'W.,on a true line bet.secs.15 and 22.

Over mountainous land;through scattering timber and dense undergrowth.

Asc.

12.30 Top of ridge,150 ft.above cor.,bears N.20°W.and SE.

Desc.

24.00 Bottom of swale,100 ft.below ridge,course S.

Asc.

39.95 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 15 in N half and S 22 in S half;and raise a mound of stone,2 ft.base, 1½ ft.high,N.of cor.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
55.00	Leave timber,bears N.and S.
61.00	Top of ridge,280 ft.above hollow,bears N.and S.
	Desc.
70.40	Bottom of hollow,850 ft.below ridge,course S.30°W.
	ASCend.
79.90	The cor.of secs.15,16,21,and 22.
	Land,mountainous.General slope to the south.
	Soil,gravelly;2nd rate.2 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	79.90 chs.

N.0°02'W.,bet.secs.15 and 16.

Over mountainous land;through dense undergrowth.

Asc.

30.00 Top of ridge,125 ft.above sec.cor.,bears N.10°W.and S.30 E.

Desc.

40 00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 16 in W half and S 15 in E half;from which

A cedar,12 ins.dia.,bears S.7°E.,230 lks. dist..mkd.¼ S 15 B T.

A cedar,14 ins.dia.,bears S.7°W.310 lks. dist..mkd.¼ S 16 B T.

Enter scattering timber,bears E.and W.

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

T 31 S S 9 in NW.

R 11 W S 10 in NE.

S 15 in SE.;and

S 16 in SW.quadrants;and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.

aSubIT.31 S.,R.11 W.-Continued.

Chains	
	Land,mountainous .
	Soil,gravelly;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	N.89°58'E.,on a random line bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,at the cor.of secs.10,11,14,and 15.
	Thence I run
	S.89°58'W.,on a true line bet.secs.10 and 15.
	Over mountainous land;through scattering timber and dense
	sage brush
	Asc.
5.50	Top of spur,100 ft.above cor.,bears NE and SW.
	Desc.
10.00	Bottom of hollow,100 ft.below spur,course N.20°E.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the
	ground,for ½ sec.cor.,mkd.on brass cap ¼ S 10 in N half
	and S 15 in S half;from which
	A cedar,12 ins.dia.,bears N.44°W.,21 lks.
	dist..mkd.¼ S.10 B T.
	Cedar,5 ins.dia.,bears S.85°W.,116 lks.
	dist..mkd.¼ S 15 B T.
50.00	Top of ridge,500 ft.above hollow,bears N.and S.
	Desc.
80.00	The cor.of secs.9,10,15,and 16.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	May 6,1911:At this cor.I set off 21°02'N.,on the decl.
	arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on
	the meridian,the resulting lat.is 38°08'n.,which is the
	proper lat.nearly.
	—
	N.0°02'W.,bet.secs.9 and 10.
	Over mountainous land;through scaty timber and scatterin
	undergrowth.
	Asc.
3.80	Top of ridge,25 ft.above cor.,bears N.20°E.and S.20°W.
	Desc.abruptly.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S9 in W half;
	and S 10 in E half;from which
	A pinon pine,10 ins.dia.,bears S.62°E.,42 lks.
	dist..mkd.¼ S 10 B T.
	A pinon pine,8 ins.dia.,bears N.3°W.,30 lks.
	dist..mkd.¼ S 9 B T.
60.00	Leave timber,bears NE.and SW.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the
	ground,for cor.of secs.3,4,9,and 10,mkd.on brass cap
	T 31 S S 4 in NW.
	R 11 W S 3 in NE.
	S 10 in SE.;and
	S 9 in SW.quadrants;and raise a mound of stone,
	2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous.
	Soil,gravelly;3rd rate.2 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass.

Sub.T.31 S.,R.11 W.-Contined.

Chains	
	Mountainous land,80.00 chs.
	N.89°58'E.,on a random line bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,5 lks.N.of the cor.of secs.2,3,10, and 11.
	Thence I run
	West,on a true line bet.secs.3 and 10.
	Over mountainous land;through scattering timber and dense undergrowth.
1.00	Hollow, drains NW. Asc.
25.40	Top of ridge,100 ft.above cor.,bears NW and SE.
	Desc.
36.50	Bottom of hollow,75 ft.below ridge,course N.40°W.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 3 in N half and S 10 in S half;from which
	A cedar,14 ins.dia.,bears N.60°E.,28 lks. dist..mkd.¼ S 3 B T.
	A cedar,14 ins.dia.,bears S.62°W.,30 lks. dist..mkd.¼ S 10 B T.
51.00	Top of ridge,40 ft.above hollow,bears N.20°W.and S.20°E.
	Desc.
72.80	Bottom of hollow,100 ft.below ridge,course NW.
	Asc.
80.00	The cor.of secs.3,4,9,and 10.
	Land,mountainous.
	Soil,sandy loam and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	May 26,1911.

Chains

May 27,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°09'N.,
on the lat.arc;21°12'N.,on the decl.arc;and determine a
meridian with the solar,at the cor.of secs.3,4,9,and 10.
Thence I run
N.0°02'W.,bet.secs.3 and 4.
Over mountainous land;through scattering timber and dens
undergrowth.
Desc.gradually.
40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the
ground,for ¼ sec.cor..mkd.on brass cap ¼ S 4 in W half
and S 3 in E half;dig pits,18x18x12 ins.,N.and S.of
post,3 ft.dist.amd raise a mound of earth,3½ ft.base,1½
ft.high,W.of cor.
82.00 Leave timber,bears E.and W.
Wash,20 lks.wide,3 ft.deep,course NW.
96.03 Intersect 6th Standard Parallel South, 5.48 chs.S.89°53'
of the standard cor.of secs.33 and 34,heretofore descri
ed.
Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the
ground,for closing cor.of secs.3 and 4,mkd.on brass cap
C C T 30 S R 11 W S 33 S 34 in N half.
S 3 in SE.;and
S 4 in SW.quadrants;and raise a mound of stone
2 ft.base,1½ ft.high,S.of cor.
Land,mountainous.
Soil,gravelly;3rd rate
Timber,cedar and pinon pine.
Undergrowth,sage brush.
Good grass for grazing.
Mountainous land,or land covered with dense undergrowth
96.03 chs.
May 27,1911:At the noon hour the sky is overcast and s
observations are impossible.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	From the cor.of secs.4,5,32,and 33.on S.bdy.of Tp.,heretofore described.
	I run
	N.0°03'W.,bet.secs.32 and 33.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
3.15	Road,bears NE and SW.
3.75	Bottom of hollow,40 ft.below sec.cor.,course SW.
	Asc.
18.40	Top of ridge,185 ft.above hollow,bears N E and SW.
	Desc.
39.00	Bottom of hollow,100 ft.below ridge,course E.
	Asc.
39.60	Road,bears NW and SE.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 32 in W half and S 33 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
50.00	Top of ridge,40 ft.above hollow,bears N.60°E.a nd S.60°W.
	Desc.
61.40	Road,bears N.80°E.and S.80°W.
61.95	Road,bears N.30°E.and S.30°W.
67.75	Bottom of hollow,50 ft.below ridge,course S.60°W.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in the dia.,24 ins.in the ground,for cor.of secs.28,29,32,and 33,mkd.on brass cap T 31 S S 29 in NW. R 11 W S 28 in NE. S 33 in SE.;and S 32 in SW quadrants;and raise a moundof stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous.
	Soil,sandy and gravelly;2nd rate.subsoil,clay.
	Timber.cedar and pinon pine.
	Undergrowth,sage brush.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	East,on a random line bet.secs.28 and 33.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,10 lks.S.of the cor.of secs.27,28
	33,and 34.
	Thence I run
	S.89°56'W.,on a true line bet.secs.28 and 33.
	Over mountainous land;through dense undergrowth and
	scattering timber.
	Desc.
35.70	Road,bears NE and SW.
38.50	Bottom of hollow,100 ft.below sec.cor.,course SW.
	Asc.
	Leave timber,bears NE and SW.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the
	ground,for ¼ sec.cor.mkd.on brass cap ¼ S 28 in N half
	and S 33 in S half;and raise a mound of stone,2 ft.base,
	1½ ft.high,N.of cor.
53.75	Top of ridge,70 ft.above hollow,bears N.40°E.and S.40°W.
	Desc.
70.60	Bottom of hollow,90 ft.below ridge,course S.
	Asc.
80.00	The cor.of secs.28,39,32,and 33.
	Land,mountainous.
	Soil,sandy loam;;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.

Sub.T.31 S.,R.11 W.-Continued:

Chains	
	N.0°03'W.,bet.secs.28 and 29.
	Over mountainous land;through dense undergrowth.
	Asc.gradually.
16.00	Top of ridge,90 ft.above sec.cor.;bears N.60°W.and S.60°E.
	Desc.
31.00	Enter scattering timber,bears E.and W.
33.70	Bottom of hollow,70 ft.below ridge,course S.70E.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.;2 6 ins.in the ground,for cor.¼ sec.cor..mkd.on brass cap ¼ S 29 in W half and S 28 in E half;from which
	A cedar,10 ins.dia.,bears West 89 lks.dist.;and mkd.¼ S 29 B T.
	No other trees within limits;and 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.
41.00	Top of spur,60 ft.above cor.,bears N.60°W.and S.60°E.
	Desc.
51.40	Bottom of hollow,60 ft.below spur,course S.70°E.
	Asc.
57.50	Top of ridge,60 ft.above hollow,bears N.70°E.and S.70°W.
	Desc.
68.40	Bottom of hollow,60 ft.below ridge;course S.65°E.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.20,21,28,and 29,mkd.on brass cap
	T 31 S S 20 in NW.
	R 11 W S 21 in NE.
	S 28 in SE.;and
	S 29 in SW.quadrants;from which
	A cedar,7 ins.dia.,bears N.61°30'E.,102 lks. dist..mkd.T 31 S R 11 W S 21 B T.
	A cedar,8 ins.dia.,bears S.31°E.,35 lks. dist..mkd.T 31 S R 11 W S 28 B T.
	A cedar,7 ins.dia.,bears S.49°W.,33 lks. dist..mkd.T 31 S R 11 W S 29 B T.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	A cedar,10 ins.dia.,bears N.41°30'W.,45 lks. dist.;mkd.T 31 S R 11 W S 20 B T.
	-and,mountainous.
	Soil,sandy loam;2nd rate.Subsoil,gravel and clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	N.89°56'E.,on a random line bet.secs.21 and 28.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,5 lks.N.of the cor.of secs.21,22, 27,and 28.
	Thence I run
	S.89°58'W.,on a true line bet.secs.21 and 28.
	Over mountainous land;through dense sage brushand scattering timber.
	Desc.
10.00	Enter heavy timber,bears N.and S.
21.00	Road,bears N.60°E.and S.30°W.
	Bottom of hollow,40 ft.below cor.,course S.30°W.
	Asc.
40.02	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 21 in N half and S 28 in S.half;from which
	A cedar,10 ins.dia.,bears N.76°E.,30 lks. dist..mkd.¼ S 21 B T.
	A cedar,16 ins.dia.,bears S.12°E.,79 lks. dist.mkd.¼ S 28 B T.
42.00	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
58.60	Bottom of holl w1100 ft.below ridge,course S.
	Asc.

Chains	
74.00	Top of ridge,100 ft.above hollow , bears NW and SE.
	Desc.
80.04	The cor.of secs.20,21,28,and 29.
	40 ft.below ridge,.
	Land,mountainous .
	Soil,sandy and clay loam;2nd rate.3 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with with dense undergrowth,80.04 chs.
	May 27.1911.
	May 29,1911:At 7 h 57 m a.m.,l.m.t.,L set off 38°06'N., on the lat.arc;21°-31'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.20,21,28,and 29.
	Thence I run
	N.0°03'W.,bet.secs.20 and 21.
	Over mountainous land;through heavy timber and dense under growth.
	Asc.
6.60	Top of ridge,40 ft.above cor.,bears NW and SE.
	Desc.
30.00	Leave heavy and enter scattering timber,bears E.and W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 20 in W half and S 21 in E half;from which
	A cedar,6 ins.dia.,bears N.28°45'E.,42 lks. dist..mkd.¼ S 21 B T.
	A cedar,10 ins.dia.,bears N.78°W.,28 lks. dist..mkd.¼ S 20 B T.
55.00	Top of ridge,bears E.and W.
	Desc.

Chains	
78.25	Road,bears NW and SE. in hollow,50 ft.below ridgecourse NW
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.mkd.on brass cap
	T 31 S S 17 in NW.
	R 11 W S 16 in NE.
	S 21 in SE.;and
	S 20 in SW.quadrants;from which
	A cedar,12 ins.dia.,bears N.3°E.,145 lks.
	dist..mkd.T 31 S R 11 W S 16 B T.
	A cedar,12 ins.dia.,bears S.89°E.,30 lks.
	dist..mkd.T 31 S R 11 W S 21 B T.
	A cedar,4 ins.dia.,bears S.70°W.,130 lks.
	dist..mkd.T 31 S R 11 W S 20 B T.
	A cedar,8 ins.dia.,bears N.37°W.,109 lks.
	dist..mkd.T 31 S R 11 W S 17 B T.
	Land,mountainous.
	Soil,sandy loam ;3nd rate.2 ft.deep.subsoil,clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

	N.89°58'E.,on a random line bet.secs.16 and 21.
40.00	Set temp.½ sec.cor.
80.02	Intersect N.and S.line,5 lks.N.of the cor.of secs.15,16, 21,and 22.
	Thence I run
	West,on a true line bet.secs.16 and 21.
	Over mountainous land;through dense undergrowth.
	Desc.
12.60	Bottom of hollow,200 ftt below cor.,course S.30°E.
	Asc.
18.00	Enter scattering timber,bears W.and S.

Sub.T.31 S.,R.11 W.-Contin ed.

Chains	
21.60	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
39.00	Bottom of hollow,50 ft.below ridge,course S.
	Asc.
40.01	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 16 in N.half and S 21 in 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.
61.00	Top of ridge,60 ft.above hollow,bears NE and SW.
	Desc.
80.02	The cor.of secs.16,17,20,and 21.
	Land,mountainous.
	Soil,sandy and clay loam;2nd rate.2 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.02 chs.
May 29,1911:	At this cor.I set off21°33'N.,on the decl.arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 38°07'N.,which is the proper lat. nearly.

	N.0°03'W.,bet.secs.16 and 17.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
5.00	Enter heavy timber,bears E.and W.
11.00	Top of ridge,70 ft.above cor.,bears E.and W.
	Desc.
30.00	Bottom of hollow,75 ft.below ridge,course W.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the

Chains	
	ground,for ¼ sec.cor,mkd.on brass cap ¼ S 17 in W half and S 16 in E half;from which
	A cedar,18 ins.dia.,bears N.75°E.,149 lks. dist..mkd.¼ S 16 B T.
	A cedar,4 ins.dia.,bears N.53°W.,52 lks. dist..mkd.¼ S 17 B T.
	Leave heavy and enter scattering timber,bears E.and W.
52.50	Top of ridge,60 ft.above hollow,bears E.and W.
	Desc.
60.00	Enter heavy timber,bears E.and W.
74.00	Bottom of hollow,75 ft.below ridge,course NE.
	Asc.
76.00	Top of ridge,40 ft.above hollow,bears NE and SW.
	Desc.
80.00	Set an iron post 3 ft.long,2 ins.in dia.,24 ins in the ground,for cor.of secs.8,9,16,and 17,mkd.on brass cap
	T 31 S S 8 in NW.
	R 11 W S 9 in NE.
	S 16 in SE.;and
	S 17 in SW.quadrants;from which
	A cedar,8 ins.dia.,bears N.51°E.,197 lks. dist..mkd. T 31 S R 11 W S 9 B T.
	A cedar, ins.dia.,bears S.68°E.,150 lks. dist..mkd.T 31 S R 11 W S 16 B T.
	A cedar,4 ins.dia.,bears S.46°W.,150 lks. dist..mkd.T 31 S R 11 W S 17 B T.
	A cedar,6 ins.dia.,bears N.46°W.,39 lks. dist..mkd.T 31 S R 11 W S 8 B T.
	Land,mountainous.
	Soil,sandy and gravelly 1 ft.deep.Rocky subsoil
	Timber,cedar .
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered wit dense undergrowth,80.00 chs.

Chains	
	East,on a random line bet.secs.9 and 16.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,12 lks.S.of the cor.of secs.9,10, 15.and 16.
	Thence I run
	S.89°55'W.,on a true line bet.secs.9 and 16.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
2.00	Top of ridge,10 ft.above cor.,bears N.10°E.and S.10°W.
	Desc.
15.75	Bottom of hollow,60 ft.below ridge,course S.20°W.
	Asc.
25.00	Top of ridge,175 ft.above hollow,bears N.and S.
	Desc.
36.75	Bottom of hollow,40 ft.below ridge,course N.30°W.
	Asc.abruptly.
40.01	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 9 in N half and S 16 in S half;from which
	A cedar,4 ins.dia.,bears N.8°W.,36 lks.
	dist..mkd.¼ S 9 B T.
	A cedar,4 ins.dia.,bears S.18°W.,55 lks.
	dist..mkd.¼ S 16 B T.
45.00	Top of ridge,50 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
62.50	Bottom of hollow,60 ft.below ridge,course N.
	Asc.
72.10	Top of ridge,120 ft.above hollow,bears N.and S.
	Desc.
77.20	Bottom of hollow,175 ft.below ridge,course N.
	Asc.abruptly.
80.02	The cor.of secs.8,9,16,and 17.
	Land,mountainous .
	Soil,sandy and gravelly loam.1 ft.deep.
	Timber,cedar and pinon pine.

Chains

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with densoundergrowth,

80.02 chs.

May 29,1911.

May 31,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°08'N.,on the lat arc;21°50'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 mountainous land through scattering timber and dense sage brush,.

Desc.

13.75 Bottom of hollow 50 ft.below sec.cor.,course N.60°E.

Asc.

40.00 Top of ridge 120 ft.above hollow,bears E .and W.

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

A cedar,10 ins.dia.,bears S.83°E.,19 lks.

dist..mkd.¼ S 9 B T.

A cedar,8 ins.dia.,bears N.45°W.,82 lks.

dist..mkd.¼ S 8 B T.

71.10 Road,bears N.70°W.and S.70°E.

75.00 Bottom of hollow,150 ft.below ridge,course NE.

Asc.

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

T 31 S S 5 in NW.

R 11 W S 4 in NE.

S 9 in SE.;and

S 8 in SW.quadrants;from which

A cedar,6 ins.dia.,bears N.45°E.,161 lks.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	Mkd.T 31 S R 11 W S 4 B T.
	A cedar,10 ins.dia.,bears S.64°E.,56 lks.
	dist..mkd.T 31 S R 11 W S 9 B T.
	A cedar,16 ins.dia.,bears S.68°W.,78 lks.
	dist..mkd.T 31 S R 11 W S 8 B T.
	A cedar,12 ins.dia.,bears N.18°W.,65 lks.
	dist..mkd.T 31 S R 11 W S 5 B T.
	Land,mountainous.
	Soil,red sandy loam about 20 ins.deep.2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

	N.89°55'E.,on a random lin bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,2 lks.S.of the cor.of secs.3,4,9,and 10.
	Thence I run
	S.89°54'W.,on a true line bet.secs.4 and 9.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
4.00	Top of ridge,20 ft.above cor.,bears N,10°E.and S.10°W.
	Desc.
19.00	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
24.25	Top of ridge,80 ft.above hollow,bears N.and S.
	Desc.
29.50	Bottom of hollow,200 ft.below ridge course N.10°E.
	Asc.
40.02	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 4 in N half and S 9 in S half;from which

Sub.T.31 S.,R.11 W.-Continued.

Chains

A cedar,6 ins.dia.,bears N.81°W.,48 lks.

dist.mkd.¼ S 4 B T.

A cedar,14 ins.dia.,bears S.49°E.,104 lks.

dist..mkd.¼ S 9 B T.

41.00 Top of ridge,200 ft.above hollow,bears N.10°W.and S.10°E.

Desc.

63.00 Bottom of wash, 25 lks.wide,2 ft.deep,course N.

65.00 Road,bears N.and S.

75.20 Bottom of hollow,120 ft.below ridge,course N.

Asc.

80.04 The cor.of secs.4,5,8,and 9,,130 ft.above hollow.

Land,mountainous,steep and rough.

Soil,sandy and gravelly 3rd rate.18 ins.deep in hollows

Timber.cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land coveredwith dense undergrowth,

80.04 chs.

May 31,1911:At this cor.I set off 21°51'N.,on the decl.ar and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 38°09'N.,which is the proper lat.nearly.

N.0°3'W.,on a true line bet.secs.4 and 5.

Over mountainous land;through heavy timber and dense un growth.

Asc.

9.00 Top of ridge,60 ft.above cor.bears N.and W.

Desc.

32.00 Bottom of hollow,60 ft.below ridge,course N.60°E.

Asc.

40.00 Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor.,mkd.on brass cap S 5 in W half and S 4 in E half;from which

A cedar,12 ins.dia.,bears S.72°E.,50 lks.

Sub.T.31 S.,R.11 W:-Continued:

Chains	
	dist..mkd.¼ S 4 B T.
	A cedar,18 ins.dia.,bears N.74°W.,25 lks.
	dist..mkd.¼ S 5 B T.
47.75	Top of ridge,75 ft.above hollow,bears NW and SE.
	Desc.
57.50	Leave heavy and enter scattering timber,bears NW and SE.
	Bottom of hollow,60 ft.below ridge,course NW.
	Asc.
62.50	Top of ridge,50 ft.above hollow,bears NW and SE.
	Desc.
65.75	Bottom of hollow,55 ft.below ridge,course SW.
	Asc.
68.00	Top of ridge,60 ft.above hollow,bears E.and W.
	Desc.
77.50	Bottom of hollow,90 ft.below ridge,course W.
	Asc.
89.20	Top of ridge,140 ft.above hollow,bears NW and SE.
	Desc.abruptly.
96.35	Intersect 6th Standard Parallel South,4.56 chs.N.89°50'W. from the standard cor.of secs.32 and 33,heretofore described.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.4 and 5,mkd.on brass cap
	C C T 30 S R 11 W S 32 S 33 in N half.
	S 4 in SE:;and
	S 5 in SW.quadrants;and raise a mound of stone,
	2 ft.base,1½ ft.high,S.of cor.
	land,mountainous.
	Soil,in hollows is red sand and gravelly about 2 ft.deep,
	on the ridges,it is rocky;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with
	dense undergrowth,96.35 chs.
	May 31,1911.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	June 1,1911:At 7 h 57 m a.m.,l.m..t,I set off38°04'N., on the lat.arc;21°58'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.
	Over mountainous land;through heavy timber and dense sage brush.
	Desc.
6.00	Top of ridge,20 ft.above cor.,bears N.80°W.and S.80°E.
	Desc.
12.50	Bottom of hollow,50 ft.below ridge,course S.80°E.
	Asc.
23.20	Top of ridge,60 ft.above hollow,bears NW and SE.
	Desc.
31.86	Bottom of hollow,50 ft.below ridge,course SE.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec.cor..mkd.on brass cap ¼ S 31 in W half and S 32 in E half;from which
	A cedar, 8 ins.dia.,bears N.48°E.,53 lks. dist..mkd.¼ S 32 B T.
	A cedar,10 ins.dia.,bears S.55°W.,80 lks. dist..mkd.¼ S 31 B T.
54.80	Top of ridge,bears N.80°W.and S.70°E.
	Desc.
63.25	Bottom of hollow,125 ft.below ridge,course E.
	Asc.abruptly over ledges.
71.70	Top of ridge,170 ft.above hollow,bears E.and W.
	Leave ledges,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in the dia.24 ins.in the ground,for cor.of secs.29,30,31,and 32,mkd.on brass cap

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	T 31 S S 30 in NW.
	R 11 W S 29 in NE.
	S 32 in SE.;and
	S 31 in SW.quadrants;from which
	A cedar,12 ins.dia.,bears N.70°E.,142 lks.
	dist..mkd.T 31 S R 11 W S 29 B T.
	No other trees within limits;raise a mound of stone,
	2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous.
	Soil,red sand and gravelly 10 ins.deep.
	From 63.25 chs.to 71.70 chs.is volcanic ledges soil rocky.
	Timber.cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land coveredd
	with dense undergrowth,80.00 chs.
	East,on a random line bet.secs.29 and 32.
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line,2 lks.S.of the cor.of secs.28,29,
	32,and 33.
	Thence I run
	S.89°59'W.,on a true line bet.secs.29 and 32.
	Over mountainous land;through dense undergrowth.
	Asc,
2.90	Top of ridge,50 ft.above sec.cor.,bears N.15°W.and S.15°E.
	Desc.
6.95	Bottom of hollow,60 ft.below ridge,course S.15°E.
	Asc.
25.00	Top of ridge,90 ft.above hollow,bears NW.and SE.
	Desc.
39.99	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S 29 in N half
	and S 32 in S half;and raise a mound of stone,2 ft.base,
	1½ ft.high,N.of cor.

Sub.T.31 S.,R.11 W.-Continued...

Chains	
43.50	Bottom of hollow,60 ft.below ridge,course SE.
	Asc.
52.85	Top of ridge,70 ft.above hollow,bears NW.and SE.
	Desc.
64.25	Bottom of hollow,125 ft.below ridge,course S.30°W.
	Asc.
78.50	Top of ridge,150 ft.above hollow,bears N. and S.and N.80° E.
	Desc.
79.98	The cor.of secs.29,30,31,and 32.
	Land,mountainous.
	Soil,red sand and gravelly loam about 18 ins.deep
	Subsoilvolcanic rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	79.98 chs.
	June 1,1911:At the noon hour the sky is overcast and
	solar observations are impossible.

Knowing from connections already made that this line will not intersect W.bdy.of Tp.within limits;

I run

West,on a true line bet.secs.30 and 31.

Over mountainous land;through scattering timber.

Desc.

6.00	Begin more abrupt descent,bears N.and S.
13.60	Road ,bears N.and S.
	Bottom of hollow,125 ft.below ridge,course N.
	Asc.
40.00	Set an iron post,3 ft..long,1 in.in dia.,26 ins.in the ground;for ¼ sec.cor..mkd.on brass cap ¼ S 30 in N half and S 31 in S half;and raise a mound of stone,2 ft.base,

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	ft.high,N.of cor.
50.00	Top of ridge,100 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
56.30	Bottom of hollow,50 ft.below ridge,course N.30°E.
	Asc.
79.79	Intersect W.bdy.of Tp.,10.75 chs.N.of the cor.of secs.25 and 36,which is an iron post,3 ins.in dia.,projecting 12 ins.above ground,firmly set,and mkd.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.30 and 31,mkd.on brass cap
	T 31 S in N half.
	C C R 12 W S 25 S 36 in W half.
	R 11 W S 30 in NE.;and
	S 31 in SE.quadrants;from which
	A cedar,24 ins.dia.,bears N.60°30'E.,84 lks.
	dist..mkd.T 31 S R 11 W S 30 B T.
	A cedar,16 ins.dia. bears S.6°30'E.,125 lks.
	dist..mkd.T 31 S R 11 W S 31 B T.
	Land,mountainous .
	Soil,red sand and gravel 16 ins.deep,subsoil,volcanic rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mou tainous land,or land covered with dense undergrowth, 79.79 chs.
	——
	N.0°03'W.,bet.secs.29 and 30.
	Over mountainous land;through dense sage brush and scattering timber.
	Desc.
19.40	Bottom of hollow, 140 ft.below cor.,course SE.
	Asc.
33.40	Begin more gradual ascent,bears E.and W.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 30 in W half and S 29 in 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.
44.25	Top of ridge,200 ft.above hollow,bears NW and SE. Desc.gradually.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.19,20,29,and 30,mkd.on brass cap T 31 S S 19 in NW. R 11 W S 20 in NE. S 29 in SE ;and S 30 in SW.quadrants;and from which A cedar,20 ins.dia.,bears N.7°E.,185 lks. dist..mkd.T 31 S R 11 W S 20 B T. A cedar,8 ins.dia.,bears N.12°30'W.,282 lks. dist..mkd.T 31 S R 11 W S 19 B T. No other trees within limits;dig pits,18x18x12 ins., SE and SW of post,5 ½ ft .dist.;and raise a mound of earth,4 ft.base,2 ft.high,W.of cor. Land,mountainous. Soil,sandy and gravelly 15 ins.deep,clay subsoil. Timber,cedar and pinon pine. Undergrowth,sage brush. Good grass . Mountainous land,or land covered with dense undergrowth, 80.00 chs. June 1,1911.

June 2,1911.At 7 h 58 m a.m.,l.m.t.,I set off 38°06'N., on the lat.arc;22°07'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°59'E.,on a random line bet.secs.20 and 29.

Chains	
40.00	Set temp. ¼ sec.cor.
80.12	Intersect N.and S.line,5 lks.S.of the cor.of secs.20,21,28, and 29.
	Thence I run
	S.89°57'W.,on a true line bet.secs.20.and 29.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
23.50	Road,bears N.70°W.and S.70°E.
	Bottom of hollow,40 ft.below cor.,course SE..
	Asc.
40.06	Set an iron post,3 ft.long11 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 20 in N half and S 29 in S half;from which
	A cedar,8 ins.dia.,bears N.3°30'W.,52 lks. dist..mkd.¼ S 20 B T.
	A cedar,8 ins.dia.,bears S.65°E.,79 lks. dist..mkd.¼ S 29 B T.
51.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
60.00	Bottom of hollow,70 ft.below ridge,course N.10°E.
	Asc.
80.12	The cor.of secs.19,20,29,and 30.
	Land,mountainous.
	Soil,sandy and gravelly;2nd rate.2 ft.deep,subsoil,clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing..
	Mountainous land,or land covered with dense undergrowth, 80.12 chs.

For reasons already expalined I run

West,on a true line bet.secs.19 and 30.

Over mountainous land;through dense undergrowth and

scattering timber.

Asc.gradually.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 19 in N half and S 30 in 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 Begin more abrupt ascent,bears N.and S.

79.67 Intersect W.bdy.of Tp.,on top of ridge,500 ft.above sec.cor.,bears N.and S.,Intersect 10.68 chs.N.of the cor.of secs.24 and 25,which is an iron post,3 ins.in dia.,projecting 12 ins.above ground,firmly set and mkd.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.19 and 30,mkd.on brass ca

T 31 S in N half.

CC R 12 W S24 S 25 in W half.

R 11 W S 19 in NE.

S 30 in SE.quadrants;and raise a mound of stone 2 ft.base,1½ ft.high,E.of cor.

Land,mountainous.

Soil,red sandy loam about 20 ins.deep,subsoil,volcanic rock and clay.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for graxing.

Mountainous land,or land covered with dense undergrowth

79;67 chs.

June 2,1911:At this cor.I set off 22°08'N.,on the decl. arc;and at 11 h 58 m a.m.,l.m.t.I observe the sun on the meridian the resulting lat.is 38°06'N.,which is the proj lat.nearly.

N.0°03 'W.,bet.sec .19 and 20.

Over mountainous land;through dense sage brush and scattering timber.

Chains	
	Desc.
30.00	Bottom of hollow,50 ft.below sec.cor.,course S.60°E.
	Asc.
40.00	Top of ridge,40 ft.above hollow,bears NE and SW.
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 19 in W half and S 20 in 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.
	Desc.
73.50	Bottom of hollow,100 ft.below ridge,course N.60°E.
	Asc.
80.00	Top of ridge,60 ft.above hollow,bears NE and SW.
	Set an iron post,3 ft.long,2 ins in dia.,24 ins.in the ground,for cor.of secs.17,18 19,and 20,mkd.on brass cap
	T 31 S S 18 in NW.
	R 11 W S 17 in NE.
	S 20 in SE.;and
	S 19 in SW.quadrants;from which
	A cedar,12 ins.dia.,bears N.58°E.,100 lks.
	dist..mkd.T 31 S R 11 W S 17 B T.
	A cedar,10 ins.dia.,bears S.38°30'E.,158 lks.
	dist..mkd.T 31 S R 11 W S 20 B T.
	A cedar,8 ins.dia.,bears S.25°30'W.,137 lks.
	dist..mkd.T 31 S R 11 W S 19 B T.
	A cedar,6 ins.dia.,bears N.81°30'W.,349 lks.
	dist..mkd.T 31 S R 11 W S 18 B T.
	Land,mountainous.
	Soil,sandy loam;2nd rate.20 ins.deep.
	Timber,dedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	N.89°57'E.,on a random line bet.secs.17 and 20.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
40.00	Set temp. ¼ sec.cor.
80.08	Intersect N.and S.line,7 lks.N.of the cor.of secs.16,17, 20,and 21.
	Thence I run
	West,on a true line bet.secs.17 and 20.
	Over mountainous land;through heavy timber and dense sage brush.
	Desc.
7.55	Road,bears S.80°E.and S.80°W.
	Bottom of hollow,20 ft.below cor.,course W.
	Desc.in hollow.
11.00	Leave hollow,course S.80°W.
	Desc.
24.05	Same road,bears NW and SE.
24.80	Same hollow,course N.30°W.
	Asc.
30.00	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
35.25	Road,bears N.and S.
35.40	Bottom of hollow,70 ft.below ridge,course N.
	Asc.
40.04	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 17 in N half and S 20 in S half;from which
	A cedar,12 ins.dia.,bears N.30°W.,103 lks. dist..mkd.¼ S 17 B T.
	A cedar,8 ins.dia. bears S.1°W.,40 lks. dist..mkd.¼ S 20 B T.
60.50	Leave heavy and enter scattering timber,bears N.and S.
	Top of ridge,60,ft.above hollow,bears N.and S.
	Desc.
73.00	Bottom of hollow,60 ft.below ridge,course N.E.
	Asc.
80.08	The cor.of secs.17,18,19,and 20. 60 ft.above hollow,
	Land,mountainous.
	Soil,sandy and gravelly loam about 1 ft.deep.

Chains	
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.08 chs.
	June 2,1911.
	June 3,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°07'N.,on the lat.arc;22°15'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 (for reasons already explained), West,on a true line bet.secs.18 and 19.
	Over mountainous land;through heavy timber and dense sage brush.
	Desc.
6.75	Bottom of hollow,50 ft.below sec.cor.,course N.
	Asc.
10.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
18.50	Bottom of hollow,60 ft.below ridge,course NE.
	Asc.
23.00	Enter heavy timber,bears N.and S.
33.50	Top of ridge,90 ft.above hollow,bears NE and SW.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 18 in N half and S 19 in S half;from which
	A cedar,6 ins.dia.,bears N.11°W.,260 lks. dist..mkd.¼ S 18 B T.
	A cedar,8 ins.dia.,bears S.43°30'E.,78 lks. dist..mkd.¼ S 19 B T.
44.50	Road,bears N.20°E.and S.20°W.
45.00	Bottom of hollow,125 ft.below ridge,course NE.
	Asc.

Sub.T.31 S.,R.11 W.-Continued.

Chains	
79.56	Intersect W.bdy.of Tp.,10.65 chs.North of the cor.of secs 13 and 24,which is an iron post,3 ins.in dia.,projecting 12 ins.above ground,firmly set,and mkd.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.18 and 19,mkd.on brass cap
	T.31 S in N half.
	C C R 12 W S 13 S 24 in W half;
	R 11 W S 18 in NE.
	S 19 in SE.quadrants;from which
	A cedar,6 ins.dia.,bears N.75 °E.,35 lks.
	dist..mkd.T 31 S R 11 W S 18 B T.
	A cedar,6 ins.dia.,bears S.70°E.,45 lks.
	dist..mkd.T 31 S R 11 W S 19 B T.
	Land ,rolling mountainous .
	Soil,red sandy loam about 20 ins.deep.Subsoil,red clay
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.56 chs.
	———
	N.0°03'W.,bet.secs.17 and 18.
	Over mountainous land;through scattering timber and dens undergrowth,
	Dense.
11.30	Bottom of swale,120 ft.below cor.,course NE.
	Asc.
24.20	Top of ridge,150 ft.above swale,bears NE and SW.
	Desc.
35.00	Bottom of hollow,100 ft.below ridge,course N.30°E.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 18 in W half

Sub.T.31 S.,R.11 W.-Continued.

Chains	
	and S 17 in E half; from which
	A cedar,12 ins.dia.,bears S.26°E.,75 lks.
	dist..mkd.¼ S 17 B T.
	A cedar,8 ins.dia.,bears N.16°W.,72 lks.
	dist..mkd.¼ S 18 B T.
45.20	Top of ridge,20 ft.above hollow,bears N.80°E.and S.80°W.
	Desc.
57.10	Road,bears N.30°W.and SE.
	Bottom of hollow,100 ft.below ridge,course NW.
	Asc.
66.00	Top of ridge,75 ft.above hollow,bears N75°W. and S75°E.
	Desc.
69.90	Bottom of hollow,40 ft.below ridge,course N.60°W.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.7,8,17,and 18,mkd.on brass cap
	T 31 S S 7 in NW.
	R 11 W S 8 in NE.
	S 17 in SE.;and
	S 18 in SW.quadrants;from which
	A cedar,18 ins.dian.,bears N.15°E.,103 lks.
	dist..mkd.T 31 S R 11 W S 8 B T.
	A cedar,10 ins.dia.,bears S.61°30'E.,39 lks.
	dist..mkd.T 31 S R 11 W S 17 B T.
	A cedar,16 ins.dia.,bears S.73°30'W.,52 lks.
	dist..mkd.T 31 S R.11 W S 18 B T.
	A cedar,14 ins.dia.,bears N.33°W.,14 lks.
	dist..mkd.T 31 S R 11 W S 7 B T.
	Land,mountainous.
	Soil,sandy loam 2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brushl
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	June,3,1911:At this cor.I set off 22°15'N.,on the decl.

Chains	
	arc;and at 11 h 58 m a.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 38°08'N.,which is the proper lat.nearly.
	East,on a random line bet.secs.8 and 17.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,at the cor.of secs.8,9,16,and 17.
	Thence I run
	West,on a true line bet.secs.8 and 17.
	Over mountainous land;through heavy timber and dense undergrowth.
	Desc.
26.00	Bottom of hollow,50 ft.below cor.,course N.60°E.
	Asc.
40.02	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 8 in N half and S 17 in S half;from which
	A cedar,10 ins.dia.,bears N.9°W.,16 lks. dist..mkd.¼ S 8 B T.
	A cedar,9 ins.dia.,bears S.77°30'W.,180 lks. dist..mkd.¼ S 17 B T.
56.00	Top of ridge,150 ft.above hollow,bears N.10°E.and S.10°W
	Desc.
71.40	Bottom of hollow,220 ft.below ridge,course S.20°W.
	Asc.
74.00	Top of ridge,40 ft.above hollow,bears N.15°E.and S.15°W.
	Desc.
80.04	The cor.of secs.7,8,17,and 18.100 ft.below ridge,.
	Land,mountainous.
	Soil,sandy loam and gravelly;2nd and 3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.

Chians	
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.04.chs.
	For reason already explained I run West,on a true line bet.secs.7 and 18. Over mountainous land,through scattering timber and dense undergrowth.
	Desc.
13.20	Road,bears NW and S.30°E.
14.00	Bottom of hollow,90 ft.below sec.cor.,course NW.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 7 in N half and S 18 in S half;from which
	A cedar,7 ins.dia.,bears N.48°30'E.,104 lks. dist..mkd.¼ S 7 B T.
	A cedar,8 ins.dia.,bears S.69°E.,57 lks. dist..mkd.¼ S 18 B T.
45.10	Top of ridge,450 ft.above ho llow,bears N.25°W.and S.25° E.
	Desc.
54.50	Bottom of hollow,150 ft.below ridge,course N.15°W.
	Asc.
58.20	Top of ridge,70 ft.above hollow,bears N.and S.
	Desc.
60.00	Bottom of hollow,70 ft.below ridge,course N.
	Asc.
74.80	Top of ridge,150 ftlabove hollow,bears N.15°W.and S.15°E.
	Desc.
79.32	Intersect W.bdy.of Tp.,10.95 chs.North of the cor.of secs.12,and 13,which is an iron post,3 ins.in dia.,and projecting 12 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the

cChains

ground,for closing cor.of secs.7 and 18,mkd.on brass cap

T 31 S in N half.

C C R 12 W S 12 S 13 in W half.

R 11 W S 7 in NE.;and

S 18 in SE.quadrants;and raise a mound of stone,

2 ft.base,1½ ft.high,E.of cor.

Land,mountainous.

Soil,sandy and gravelly loam;2nd rate.

Timber;cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered

with dense undergrowth,79.32 chs.

June 3,1911.

June 5,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°08'N.,on

the lat.arc;22°29'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 mountainous land;through heavy timber and dense

sage brush.

Asc.

38.10 Top of ridge,300 ft.above cor.,bears N.55°E.and S.55°W.

Desc.

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

ground,for ¼ sec.cor.mkd.on brass cap ¼ S 7 in W half

and S 8 in E half;from which

A cedar,10 ins.dia.,bears N.30°E., 58 lks.

dist.mkd.¼ S 8 B T.

A cedar,12 ins.dia.,bears N.52°W.,45 lks.

dist.mkd.¼ S 7B T.

61.80 Bottom of hollow,200 ft.below ridge,course NW.

Asc.abruptly.

75.50 Top of ridge,180 ft.above hollow,bears N.40°W.and S.40°E.

Sub.T.31 S.,R.11 W.-Continued.-

Chains	
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.5,6,7,and 8,mkd.on brass cap
	T 31 S S 6 in NW.
	R 11 W S 5 in NE.
	S 8 in SE.;and
	S 7 in SW.quadrants;from which
	A cedar,10 ins.dia.,bears N.85°E.,30 lks.
	dist..mkd.T 31 S R 11 W S 5 B T.
	A cedar,9 ins.dia.,bears S.13°E.,119 lks.
	dist..mkd.T 31 S R 11 W S 8 B T.
	A cedar,11 ins.dia.,bears S.17°W.,19 lks.
	dist..mkd.T 31 S R 11 W S 7 B T.
	A cedar,16 ins.dia.,bears N.80°W.,32 lks.
	dist..mkd.T 31 S.,R.11 W.S 6 B T.
	Land,mountainous .
	Soil,sandy loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	East,on a random line bet.secs.5 and 8.
40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line,2 lks.S.of the cor.of secs.4,5,8,and 9.
	Thence I run
	S.89°59'W. ,on a true line bet.secs.5 and 8.
	Over mountainous land;through heavy timber and dense sage brush.
	Asc.
19.00	Top of ridge,60 ft.above hor.bears N.and S.
	Desc.

Chains	
37.50	Bottom of hollow,160 ft.below ridge,course N.10°W. Asc.
37.90	Road,bears N.10°W.and S.20°E.
40.06	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 5 in N half and S 8 in S half; from which
	A cedar,6 ins.dia.,bears N.30°W.,72 lks. dist..mkd.¼ S 5 B T.
	A cedar,8 ins.dia.,bears S.42°E.,53 lks. dist..mkd.¼ S 8 B T.
48.00	Top of knoll,100 ft.above hollow,.
	Desc.
54.80	Bottom of hollow,120 ft.below knoll,course N.30°W.
	Asc.
64.00	Top of spur,40 ft.above hollow,bears N.and S.
	Desc.
70.20	Bottom of hollow,90 ft.below spur,course N.10°W.
	Asc.
80.12	The cor.of secs.5,6,7,and 8,.
	Land,mountainous .
	Soil,gravelly and clay loam;2nd and 3rd rate.
	Subsoil,clay.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or heavily timbered land,or land covered with dense undergrowth,80.12 chs.
	June 5,1911:At this cor.I set off 22°30'N.,on the decl. arc;and at 11 h 58 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°09'N.,which is the proper lat.nearly.

For reasons already explained I run
West,on a true line bet.secs.6 and 7.
Over mountainous land;through scattering timber and

Chains	
	dense undergrowth.
	Asc.
1.40	Top of ridge,120 ft.above cor.,bears N.and S.
	Desc.
9.00	Bottom of hollow,120 ft.below ridge,course N.10°W.
	Asc.
17.85	Top of spur,75 ft.above hollow,bears N.and S.
	Desc. gradually.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 6 in N half and S 7 in S half;from which
	A cedar,10 ins.dia.,bears N.88°W.,13 lks. dist..mkd.¼ S 6 B T.
	A cedar,4 ins.dia.,bears S.85°E.,20 lks. dist..mkd.¼ S 7 B T.
79.10	Intersect W.bdy.of Tp.,11.18 chs.North of the cor.of secs. 1 and 12,which is an iron post,3 ins.in dia.,projecting 12 ins.about ground,firmly set,and mkd.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.6 and 7,mkd.on brass cap
	T 31 S in N half.
	C C R 12 W S 1 S 12 in W half.
	R 11 W S 6 in NE.;and
	S 7 in SE.quadrants ;dig pits,24x18x12 ins.N. crosswise on each line,N.and S.3 ft.and E.of post,7 ft. dist..and raise a mound of earth,4 ft.base,2 ft.high, E.of cor.
	Land,mountainous and rolling.
	Soil,sandy and gravelly loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.10 chs.

Chains

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

Over mountainous land;through dense sage brush and scattering timber.

Desc.

2.00 Desc .abruptly over ledges.,bears E.and W.

10.00 Leave ledges,bears E.and W.

Begin more gradual descent,bears E.and W.

29.20 Road,bears N.80°W.and S.80°E.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 6 in W half and S 5 in E half;from which

A cedar,7 ins.dia.,bears S.41°E.,105 lks. dist..mkd.¼ S 5 B T.

A cedar,24 ins.dia.,bears N.31°W.,250 lks. dist..mkd.¼ S 6 B T.

68.85 Bottom of broad hollow,80 ft.below ridge,course NW.

Asc.gradually.

78.00 Begin more abrupt ascent,bears E.and W.

96.27 Intersect 6th Standard Parallel South,3.70 chs. N.89°50' W.,of the standard cor.of secs.31 and 32,heretofore described.

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

C C T 30 S R 11 W S 31 S 32 in N half.

S 5 in SE.;and

S 6 in SW.quadrants;dig pits,24x18x12 ins. crosswise on each line E.and W.3 ft.and S.of post,7 ft. dist.;and raise a mound of earth,4 ft.base,2 ft.high,S.o cor.

Land,mountainous.

Soil,sandy and clay loam 2nd and 3rd rate.about 2 ft. deep.subsoil,clay.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth,

Sub.T.31 S.,R.11 W.-Continued.

Chains

96.27 chs.

June 5,1911.

General Description.

This township is a high rolling mountainous country ; covered with a dense undergrowth of sage brush and patches of scrubby cedar and pinon pine timber principally cedar. There is no water in the township and none within several miles in every direction from its bdys. The township is therefore valuable only for winter grazing purposes.

There are no settlers in the township.

The soil is generally sandy and gravelly loam about 2 or 3 ft.deep,on a subsoil of clay or rock.

No mineral was seen in the township.

John R. Stewart

U.S.Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by

. United States Deputy Surveyor, [illegible]

arking the lines and corners described in the foregoing field notes of the [illegible]

owing the respective capacities in which they acted:

For list of names and final oath of assistants see book "Z12" T. 31 S., R. 9 W.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

. United States Deputy Surveyor, [illegible]

hose parts or portions of the

of the

meridian, of , which are represented

n the foregoing field notes as having been surveyed by him and under his direction; and that said survey as been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the orner monuments established, according to the instructions furnished by the United States Surveyor

General for

Subscribed and sworn to before me this

day of , 193

SEAL

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of ..... day of ....., 190 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surv General for ....., the Manual of Surveying Instructions, and the laws o United States, surveyed all those parts or portions of .....

For final oath of transitman see book "[illegible]12" T. 31 S., R. 9 W.

..... of the ..... meridian, in the ..... of ....., which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solem swear that all the corners of said survey have been established and perpetuated in strict accordance the Manual of Surveying Instructions, and the special written instructions of the United States Surv General for ..... and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

United States Deputy Surve

Subscribed by said ....., and sworn to before me this ..... day of ....., 190 .

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, January 7, 1914.

The foregoing field notes of the survey of the subdivisional lines of Township No. 31 South, Range No. 11 West of the Salt Lake Base and Meridian, Utah,

executed by John R. Stewart under his ~~contract No.~~ special instructions, dated August 6, 1910 ~~190~~, having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

United States Surveyor Gener

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

United States Surveyor Gener

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Filed Dec. 11, 1911.
TSH.

211
BOOK A-386

FIELD NOTES

OF THE SURVEY OF THE

R E T R A C E M E N T

OF THE

SIXTH STANDARD PARALLEL SOUTH, THROUGH

RANGE 9 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H.

EXECUTED BY

JOHN R. STEWART AND CHANEY STEWART

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

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

Group No. 1, *which were approved by the Commissioner of the General Land*

Office, Aug. 25, *1910., pursuant to authority contained in the Act of*

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

Survey commenced May 21, *1911*

Survey completed May 22, *1911.*

Maeser Dalley, Chainman.

Harvey W.Elliott, Chainman.

Milo Nelson, Moundman.

Kenneth Clark, Axman.

For preliminary affidavits see book "Y" T.33 S., R.10 W.

INDEX DIAGRAM.

Township ....., *Range* .....

6	5	4	3	2	1
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31	32	33	34	35	36
9	7	6	5	3	2

6—151

Survey commenced May 21, 1911, and executed with a Keuffel and Esser light mountain transit, No.20578, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah March 20, 1911.

I examine the adjustments of the instrument, 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 established by Polaris observation, I proceed as follows:

At Sta cor.of Tp.30 S., Rs.8 and 9 W. heretofore described,lat.38° 09' 35" N.; long.112° 52' 55" W., I set off 38° 10'N.on the lat.arc; 20° 07'N.on the decl.arc; and at 3h 56m p.m.l.m.t., determine a meridian with the solar, and mark a point thereof on a stone set firmly in the ground 5.00 chs.N.of cor.

May 21, 1911.

May 22: At 3h 34 m.a.m.l.m.t., I observe Polaris at eastern elongation, in accordance with the instructions in the Manual, and mark the line thus determined by a tack driven in a wooden plug set in the ground 5.00 chs N.of my station.

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 a groove in the stone already set 5 chs.N.of cor. This mark falls 0.30 ins.W.of the mark determined by

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH, R.9 W.

Chains.

the solar.

At 7h 56m a.m.l.m.t., I set off 38° 10'N.on the lat.arc; 20° 16'N.on the decl.arc; and mark the meridian thus determined by the solar, by a cross on the stone set 5.00 chs.N.of cor. This line is 0.28 ins.W.of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations, defines positions for meridians about 0' 16" E.and 0' 15" W. of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8h 20 m.a.m.is N. 16° 17'W., the angle thus determined gives the mag.decl. 16° 17'E.

Note: Before beginning the regular subdivision of this township, I proceed with the retracements of old line adjoining the work.

Beginning at said standard cor.of Tp. 30 S., Rs.8 and 9 W., I run

West on a retracement line on S.side of sec.36,

Ascending over rough mountainous country; through sage-brush.

22.10 Top of ridge, 100 ft.above cor., bears N.and S.

Desc.

30.50 Bottom of hollow, 150 ft.below ridge, course S.

Ascend.

35.00 Enter heavy cedar and pinon pine timber, bearing N.and S.

40.10 Fall 25 lks.S.of old ¼ sec.cor., which is a stationary rock, as described by the surveyor general. The marks are dim; therefore at exact point for St.¼ sec.cor., Set an iron post 3 ft.long, 1 in.in dia.,26 ins.in

Chains.

ground and mound of stones for St.$\frac{1}{4}$ sec.cor.mkd.on brass cap SC$\frac{1}{4}$ S 36 in N.half; from which

A cedar 5 ins.dia.bears N.58° W. 12 lks.dist.mkd. SC$\frac{1}{4}$ S 36 B T

63.00 Top of ridge, 250 ft.above hollow, bears N.20° E. and S. 20° W.

Desc.

79.65 Fall 2.88 chs.S.of old cor.of secs.35 and 36, which is a stationary rock as described by the surveyor general. The markings are illegible; therefore at exact point for corner I set an iron post 3 ft.long, 3 ins. in dia.24 ins.in ground and mound of stone, for standard cor.of secs.35 and 36, mkd.on brass cap

S C T 30 S S 35 in NW.

R 9 W S 36 in NE.quadrants; from which

A pinon pine, 20 ins.dia.bears N.55° E. 93 lks. dist., mkd.T 30 S R 9 W S 36 B T

Cedar 15 ins.dia.bears N.50° W. 26 lks.dist. mkd.T 30 S R 9 W S 35 B T

The course of the E.$\frac{1}{2}$ of this mile is therefore N 89° 39° W.40.10 chs.; and the W.$\frac{1}{2}$ N.86° 11'W.39.55 chs.

Land, steep mountainous, slopes southerly.

Soil, red sand mixed with volcanic rock, 10 ins.deep, 3d rate.

Subsoil, sandstone and gravel.

Timber, cedar and pinon pine.

Undergrowth, sage.

Good grass for grazing.

Mountainous land or land covered with timber or brush 79.65 chs.

West on a retracement line on S.side of sec.35, Over mountainous land, and through cedar and pinon pine

Chains.

timber and sagebrush. Desc.

29.00 Bottom of hollow, 350 ft.below cor., course S. Asc.

40.00 Intersect old ¼sec.cor., which is a granite 14 x 12 x 6 ins. above ground, as described by the surveyor general but in bad condition; therefore I destroy all trace of the old corner, and in the same place,

Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground for stand.¼ sec.cor., mkd.on brass cap SC¼ S 35 in N.half; from which

A cedar 8 ins.dia.bears N.7° E. 79 lks.dist., mkd. SC¼ S35 BT

45.00 Top of ridge, 200 ft.above hollow, bears N.30° E. and S. 35° W. Desc.

77.00 Bottom of hollow, 275 ft.below ridge, course S.40° W. Asc.

80.40 Fall 0.31 chs.S.of old cor. which is a volcanic rock 16 x 10 x 6 ins. above ground, mkd.and witnessed as described by the surveyor-general.I destroy all trace of the old corner, and in its place

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

S C T 30 S S 34 in NW.,

R 9 W S 35 in NE.quadrants; and raise a mound of stone 2 ft.base, 1½ ft.high N.of corner.

The course of the E.½ of this mile is therefore west 40.00 chs., and the W.½ N.89° 34'W.40.40 chs.

Land, high mountainous, slopes and drains southerly.

Soil, red sand well mixed with volcanic rock, 10 ins.deep, 3d rate. Subsoil, gravel.

Timber, cedar and pinon pine.

Undergrowth, sage.

Mountainous land, covered with timber or brush 80.40 chs.

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH, R. 9 W.

Chains.

West on a retracement line on S. side of Sec.34,

Over mountainous land; through cedar and pinon pine timber and dense sagebrush. Asc.

7.00 Top of ridge, 100 ft.above cor., bears NE. and SW. Desc.

25.50 Bottom of hollow, 120 ft.below ridge, course SW. Asc.

40.90 Intersect old ¼ sec.cor., which is a volcanic rock 6 x 14 x 12 ins., above ground, mkd. and witnessed as described by the surveyor general.

I destroy all trace of the old corner, and in the same place,

Set an iron post 3 ft. long, 1 in.in dia., 26 ins.in the ground for stand. ¼ sec.cor., mkd.on brass cap SC¼ S 34 in N. half; from which

A cedar 10 ins.dia.bears N.11° E. 48lks.dist. mkd. SC¼ S 34 B. T

42.30 Top of ridge, 200 ft.above hollow, bears N.and S.10° W Desc.

77.50 Bottom of hollow, 350 ft.below ridge, course S.20° W. Asc.

79.15 Fall 1.53 chs.N.of old corner, which is granite 5 x 10 x 7 ins., above ground, mkd.and witnessed as described by the surveyor general.

I destroy all trace of this old corner, and in its place Set an iron post 3 ft.long, 3 ins.dia., 24ins.in the ground, for standard cor.of secs.33 and 34,mkd. on brass cap

S C T 30 S S 33 in NW.

R 9 W S 34 in NE.quadrant; and raise a mound of stone 2 ft. base, 1½ ft. high N. of corner.

Land, mountainous, slopes and drains southwesterly.

Soil, sand and gravel. Subsoil, gravel.

Timber, cedar and pinon pine.

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH, R. 9 W.

Chains	
	Undergrowth, sage. A little grass in patches.
	Mountainous land or land covered with timber or brush 79.15 chs.
	May 22, 1911: At this cor., I set off 20° 17'N. on the decl.arc., and at 11h 56m a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 38-10'N., which is the proper lat.nearly.
	Note: The course of the east half of this mile is west 40.90 chains, and west half S.89° 43'W.38.28 chs.
	West on a retracement line on S.side of Sec.33,
	Over mountainous country through heavy cedar and pinon pine timber, and sagebrush. Asc.
6.10	Top of ridge, 300 ft.above cor., bears N.10° E. and S. 10° W. Desc.
26.70	Foot of descent, 450 Ft. below ridge, bears N.50° W. and S.50° E. Enter canon, course N.50° W.
29.00	Leave canon, bears N.50° W. and S.50° E. Asc.
40.60	Fall 63 lks.S.of old cor., which is a volcanic stone 36 x 30 x 16 ins.lying loosely on the ground; the marks corresponding to description furnished by the surveyor general. I destroy all trace of the old corner, and in its place,
	Set an iron post 3 ft. long, 1 in.in dia., 26 ins.in the ground, for standard ¼ sec.cor., mkd.on brass cap SC¼S 33 in N.half; from which
	A cedar 10 ins.dia.bears N.30° W.31lks.dist.,mkd. S C ¼ S 33 B T
47.00	Top of ridge, 325 ft.above canon, bears N. and S. Desc.
60.00	Bottom of hollow, 300 ft. below ridge, course N.20° W. Asc.
70.00	Top of ridge, 250 ft. above hollow, bears N.30° W. and S. 30° E.

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH R.9 W.

Chains.

Descend.

79.90 Bottom of swale, 160 ft.below ridge, course NW.

Asc.

81.10 Fall 125 lks.S.of old cor. which is a volcanic rock 16 x 5 x 4 ins.above ground, mkd.and witnessed as described by surveyor general.

I destroy all trace of the old cor., and in its place Set an iron post 3 ft.long, 3 ins.dia., 24 ins.in the ground, for standard cor.of secs.32 and 33, mkd.on brass cap

S C T 30 S S 32 in NW. and

R 9 W S 33 in NE.quadrants; from which

A cedar 7 ins.dia.bears N.27° 15'E. 84 lks.dist., mkd.T 30 S R 9 W S 33 B T

A cedar, 6 ins dia.bears N.19° 15'W. 75 lks.dist. mkd.T 30 S R 9 W S 32 B T

The course of this line is therefore N.89° 07'W. 81.10 chs.

Land, steep and mountainous, slopes northerly.

Soil, sand and black loam, well mixed with volcanic rock.

Subsoil, gravel.

Timber, cedar and pinon pine.

Undergrowth, sage.

Good grass in patches.

Mountainous land covered with timber and sagebrush 81.10 chs.

West on retracement line on S.side of sec.32,

Over steep, mountainous country; through cedar timber and dense sagebrush.

33.00 Bottom of swale, 15 ft.below cor., course N.30 W. Asc.

40.43 Fall 17 lks.S.of old cor. which is a conglomerate rock 4 x 10 x 10 ins.above ground, mkd.and witnessed as de-

Chains.

scribed by the surveyor general.

I destroy all trace of the old cor., and in its place Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground for stand $\frac{1}{4}$ sec.cor., mkd.on brass cap SC$\frac{1}{4}$ S32 on N.half; and raised a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of corner.

50.70 Top of ridge, 180 ft.above swale, bears NW. and SE.

Desc.

65.80 Foot of descent, 300 ft.below ridge, bears N.10° W. and S.10° E. Enter swale, course N.10° W.

Asc.to flat topped point

77.00 Road in swale, 20 ft.below point, course N.20° W. bears S.10° E. Asc.

80.83 Fall 35 lks.S.of old corner, which is a volcanic rock 5 x 10 x 10 ins.above ground, mkd.and witnessed as described by the surveyor general.

I destroy all trace of the old corner, and in its place Set an iron post 3 ft.long, 3 ins.dia., 24 ins.in the ground and mound of stone, for standard cor.secs.31 and 32, mkd.on brass cap

S C T 30 S S 31 in NW.

R 9 W S 32 in NE.quadrants; from which

A pinon pine, 10 ins.dia.bears N.12° E. 258 lks. dist., mkd.T 30 S R 9 W S 32 B T

Cedar 6 ins.dia.bears N.47° 30'W. 124 lks. dist. mkd.T 30 S R 9 W S 31 B T

The course of this mile is therefore N.89° 45'W. 80.83 chs.

Land, mountainous, slopes and drains northwesterly.

Soil, sandy loam, covered with volcanic boulders.

Subsoil, gravel and lava formation.

Timber, cedar and pinon pine.

Undergrowth sage.

Good grass in patches.

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH, R.9 W.

Chains.	
	Mountainous land covered with timber or brush 80.83 chs.
	West on a retracement line on S.side of sec.31, Over mountainous country, through cedar and pinon pine timber and dense sagebrush. Asc.
.10	Top of ridge, 5 ft.above cor., bears N.and S.
	Desc,
14.00	Bottom of swale, 40 ft.below ridge, course N.20° W.
	Asc.
20.00	Top of ridge, 30 ft.above swale, bears N.20° W. and S. 20° E.
	Desc.
35.70	Bottom of swale, 60 ft.below ridge, course N.30° W.
	Asc.
41.30	Fall 23 lks.S.of old cor., which is a volcanic stone 16 x 12 x 8 ins.lying on ground,marked as described by the surveyor general. I destroy all trace of the old corner, and re-establish it as follows:
	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for stand.$\frac{1}{4}$ sec.cor., mkd.on brass cap SC$\frac{1}{4}$ S 31 on N.half; and raise a mound of stone 2 ft.base, 1$\frac{1}{2}$ ft.high N.of corner.
44.00	Top of ridge, 110 ft.above swale, bears N.20° W. and S. 20° E. Desc.
51.50	Bottom of hollow, 120 ft.below ridge, course N.25° W.
	Asc.
66.60	Top of ridge, 100 ft.above hollow, bears N.30° W. and S.25° E.
	Desc.
82.20	Fall 45 lks.S.of old corner, which is an iron stone 18 x 14 x 10 ins. above ground, mkd.and witnessed as described by surveyor general.

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH, R.9 W.

Chains.

I destroy all trace of the old corner, and in its place Set an iron post 3 ft.long, 3 ins.dia., 24 ins.in the ground, for standard cor.of Tp.30 S., Rs.9 and 10 W. mkd.on brass cap

S C T 30 S R 10 W S 36 in NW.

R 9 W S 31 in NE.quadrants; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.

The course of this line is therefore N.89° 41'W.82.20 chs.

Land, mountainous, slopes and drains northwesterly.

Soil, sandy loam, well mixed with lava rock; 3d rate.

Subsoil, gravel and volcanic formation.

Timber, cedar and pinon pine.

Undergrowth, sage.

A little grass.

Mountainous land covered with timber or brush 82.20 chs.

May 22, 1911.

Quimby Stewart

Instrumentman, G.L.O.

Latitudes, Departures, and Closing Errors.

Lines Designated	True Bearing	Dist.	Latitudes N.	Latitudes S.	Departures. E.	Departures. W.
		chs.	chs.	chs.	chs.	chs.
West Boundary	North	494.52	494.52	.....	.....	.....
North Boundary	S.89° 45'E.	11.51	.....	.04	11.51	.....
North Boundary	S.89° 41'E.	82.20	.....	.45	82.20	.....
North Boundary	S.89° 45'E.	80.83	.....	.35	80.83	.....
North Boundary	S.89° 07'E.	81.10	.....	1.24	81.10	.....
North Boundary	N.87° 43'E.	38.28	1.59	.....	38.28	.....
North Boundary	East	40.90	.....	.....	40.90	.....
North Boundary	S.89° 34'E.	40.40	.....	30	40.40	.....
North Boundary	East	40.00	.....	.....	40.00	.....
North Boundary	S.86° 11'E.	39.55	.....	..2.67	39.55	.....
North Boundary	S.89° 39'E.	25.14	.....	.16	25.14	.....
East Boundary	South	490.10	.....	490.10	.....	.....
South Boundary	West	480.13	.....	.....	.....	480.13
Convergency					.60	
Totals			496.11	495.31	480.31	480.13
			495.31	.....	480.13	
Error in lat. and dep.			.80		.18	

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U S T

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

LIST OF NAMES.

A list of the names of the individuals employed by Quinby Stewart, United States ~~Deputy Surveyor~~ Transitman, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the E.N.& W. Bdrs.T.33 S.R.10 W.; W.& N.bdrs.T.32 S.R.10 W.; E.& W.Bdrs.T.31 S. R.10 W.; and retracement 6th St.Par.S.Rs.9 and 10 W.S.L.B.& M.,Utah; showing the respective capacities in which they acted:

Maeser Dalley, *Chainman.*

Harvey W.Elliott, *Chainman.*

Milo Nelson, *Moundman.*

, *Moundman.*

Kenneth Clark, *Axman.*

, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Quinby Stewart, United States ~~Deputy Surveyor~~ Transitman, in surveying all those parts or portions of the E.N.and W.Bdrs.T.33 S., R.10 W.; W.and N.bdrs T.32 S., R.10 W.; E.and W.Bdrs.T.31 S., R.10 W.; and retracement 6th Standard Parallel South through Rs.9 and 10 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 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.

Maeser Dalley, *Chainman.*

Harvey W Elliott, *Chainman.*

Milo Nelson, *Moundman.*

, *Moundman.*

Kenneth Clark, *Axman.*

, *Axman.*

, *Flagman.*

Subscribed and sworn to before me this 7 day of June, 1911.

SEAL

Quinby Stewart
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 _____

~~For final oath of transitmen see book "Z1" T. 31 S., R. 9 W.~~

_____ 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.

Quinby Stewart
~~United States Deputy Surveyor~~
U. S. Transitman

Subscribed by said _____, and sworn to before me this _____ day of _____, 19

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, _____, 19

The foregoing field notes of the survey of the retracement of the Sixth Standard Parallel South, through Range No. 9 West, of the Salt Lake Base and Meridian, Utah

executed by Quinby Stewart under his ~~contract No.~~ special instructions, dated August 6, 19 10 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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CERTIFICATE OF ASSISTANTS.

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

.....

.....

.....

.....

.....

.....

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

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

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

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

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES ~~SURVEYOR~~.

I, Quinby Stewart, 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 W. and N. bdrs T.32 S.R.10 W.; E. and W. bdrs. T.31 S., R.10 W.; Ret. and Survey of N. bdy. T.32 S.R.7 W.; Ret. S.E.& E. bdrs. T.33 S., R.8 W.; Ret. N. bdy. T.33 S., R.7 W.; Ret. N. bdy. T.32 S.R.6 W.; Res. W. and Ret.& Res. S. bdy. T.31 S., R.8 W.; Res. E.& W. bdrs. T.33 S.R.9 W.; Ret. E. and Res. N.& W. bdrs. T.33 S., R.10 W. and Ret. 6th Sta. Par. S., through Rs. 6, 9 & 10 W. of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

in books C.E.G.I.M.Q.V.Y.Z³ Z⁷ Z¹¹

Quinby Stewart
U.S. Transitman. ~~U. S. Surveyor~~.

Subscribed by said Quinby Stewart, and sworn to before me this 4 day of June, 1912

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Jan. 7, 1914.

The foregoing field notes of the ~~survey of~~ retracement of the Sixth Standard Parallel South, through Range No. 9 West of the Salt Lake Base and Meridian, Utah,

executed by Quinby Stewart 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.

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