Volume

#

R0388

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

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

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

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INDEX DIAGRAM.

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

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

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FIELD NOTES

OF THE SURVEY OF THE

Of the *Meridian*

In the State of

EXECUTED BY

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

issued by the United States Surveyor General to *survey 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.

Township 31 South, Range 10 West

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FIELD NOTES

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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.

Township 31 South, Range 11 West

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19	20	21	22	23	24
30	29	28	27	26	25
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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.

Township 31 South, Range 9 West

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FIELD NOTES

OF THE SURVEY OF THE

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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*....

Filed Mar. 7, 1912
WSH.

E.R.
V.J.F.

4—679

Book "B"
BOOK A-388

C.M.S.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

OF

TOWNSHIP NO. 32 SOUTH, RANGE NO. 21 EAST

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

SCOTT P. STEWART AND ERIC H. ANDERSON

In the capacity of U. S. ~~*Surveyor*~~ Transitmen *; under instructions dated* March 27 *, 1911,*

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

Group No. 7 *, which were approved by the Commissioner of the General Land*

Office, April 20 *, 1911, pursuant to authority contained in the Act of*

Congress dated ..... *, 191*

Survey commenced May 26 *, 1911*

Survey completed June 26 *, 1911*

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NAMES AND DUTIES OF ASSISTANTS

Edwin Garn	Chainman
Clifford A. Jenings	Chainman
Winslow Read	Axman
Lynn C. Rogerson	Axman
Edwin Garn	Flagman

BOOK A-388

INDEX DIAGRAM.

Township 32 South, *Range* 21 East

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80		79		61		43		27		10
19	77	20	59	21	41	22	26	23	8	24
76		75		57		39		24		6
30	73	29	55	28	38	27	23	26	5	25
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BOOK A-388

INDEX DIAGRAM.

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

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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, Edwin Garn and Clifford A. Jennings, 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 Subdivision of T.32 S., R.21 E.S.L.B.& M., Utah

Edwin Garn, Chainman. Flagman

Clifford A. Jennings, Chainman.

Subscribed and sworn to before me this 15 day of May, 1901.

SEAL

Scott P. Stewart
U.S. Transitman

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, Winslow Read and Lynn C. Rogerson, 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 the Subdivision of T.32 S., R.21 E.S.L.B.& M., Utah.

Winslow Read, Axman.

Lynn C. Rogerson, Axman.

Subscribed and sworn to before me this 15th day of May ~~and day of~~ 7th day of June, 1901.

SEAL

Scott P. 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

6—151

Sub.T.32 S.,R.21 E.

Survey commenced May 26,1911.and executed with a Young and Sons S.G.U.No.1,solar compass,with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other,reading to 50 seconds 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 April 24,1911.

I examine the adjustment 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.hours with a meridian established by observation on Polaris I proceed as follows:

At the cor.of secs.1,2,35,and 36,on S.bdy.of Tp.,latitude 37°59°04'N.,longitude 109 °36'51"West,At 3 h 20 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 determin by a tack driven in the ground,5.00 chs.N.of the cor.

May 26, 1911:

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 cutting a small groove in a stone firmly set in the ground,5.00 chs.N.of the cor.

At 7 h 57 m a.m.,l.m.t.,I set off 37°59'N.,on the lat. arc;21°01'N.,on the decl.arc;and mark the meridian determined with the solar,by a cross on the stone,already set.5100 chs.N.of the cor.;this mark falls 0.29 ins.east of the meridian established by Polaris observation;therefore I conclude that the adjsutments of the instrument are satisfactory,

Note:For complete test of instrument see notes of East bdy.of Tp.,

---

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

I run

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	N.0°1'W.,bet.secs.35 and 36.
	Over mountainous land;through scattering timber and scattering undergrowth.
	Desc.over sandstone boulders.
3.00	Enter heavy timber,bears E.and W.
12.00	Bottom of hollow,230 ft.below sec.cor.,course NE.
	Asc.
15.80	Top of ridge,10 ft.above hollow,bears NE and SW.
	Desc.
22.40	Bottom of hollow,130 ft.below ridge,course NE.
	Asc.
27.40	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.,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 pinon pine,5 ins.dia.,bears N.68°30'E.,38 lks. dist..mkd. ¼ S 36 B T.
	A pinon pine,14 ins.dia.,bears N.36°W.,30 lks. dist..mkd. ¼ S 35 B T.
41.70	Bottom of hollow,50 ft.below ridge,course N.60°E.
	Asc.
44.50	Top of ridge,40 ftabove hollow,bears NE.and SW.
	Desc.abruptly.
54.70	Bottom of hollow,300 ft.below ridge,course N.60°W.
	Asc.
64.00	Top of ridge,100 ft.above hollow,bears N.50°W.and S.50° E.
	Desc.
67.00	Bottom of hollow,80 ft.below ridge,course NW.
	Asc.
70.00	Top of ridge,100 ft.above hollow,bears N.20°W.and S.20°E.
	Desc.
80.00	Point 80 ft.below ridge,
	Set an iron post.3 ft.long;2 ins.in dia.,18 ins.in the ground,on soild rock,and surrounded by mound ostone, for cor.of secs.25,26,35,and 36,mkd.on brass cap

Subl T.32 S.,R.21 E.-Continued.

Chains	
	T 32 S S 26 in NW.
	R 21 E S 25 in NE
	S 36 in SE.;and
	S 35 in SW.quadrants;from which
	A cedar,14 ins.dia.,bears N.21°25'E.,67 lks.
	dist..mkd.T 32 S R 21 E S 25 B T.
	A pinon pine,18 ins.dia.,bears S.19°30'E.,30 lks.
	dist..mkd.T 32 S R 21 E S 36 B T.
	A pinon pine,8 ins.dia.,bears S.40°07'W.,38 lks.
	dist..mkd.T 32 S R 21 E S 35 B T.
	A pinon pine,8 ins.dia bears N.15°15'W.,50 lks.
	dist..mkd.T 32 S R 21 E S 26 B T.
	Land,rough mountainous.general drainage to the northeast.
	Soil,sandy and gravelly;2nd and 3rd rate.from 1 to 3 ft.
	deep,on solid rock.
	Timber.cedar and pinon pine.
	Undergrowth,sage ,service berry and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	May 26,1911:At this cor.I set off 21°01'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.
	East,on a random line bet.secs.25 and 36.
40.00	Set temp.¼ sec.cor.
80.18	Intersect E.bdy.of Tp.,5 lks.S.of the point for cor.of
	secs.25,30,31,and 36,which is 30 lks.N.of the witness
	cor. , heretofore described.
	Thence I run
	S.89°58'W.,on a true line bet.secs.25 and 36.
	Over mountainous land;through heavy timber.
	Desc.
.50	East edge of canon,bears N.and S.
	Desc.abruptly over ledges.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
3.30	Bottom of canon,250 ft.below edge,course N.
	Asc.abruptly.over ledges.
3.25	Top of abrupt ascent,and east edge of rolling mesa,bears N.and S.250 ft.above canon.
	Asc.gradually.
20.20	Leave mesa,bears N.and S.
	Begin abrupt descent over ledges.
30 20	Bottom of canon,130 ft.below mesa,course N.
	Asc.
33.50	Top of ridge,130 ft.above hollow,bears N.and S.
	Desc.
40.09	Set an iron post,3 ft.long,1 in.in dia.,18 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 25 in N half and S 36 in S half;from which
	A pinon pine,10 ins.dia.,bears N.51°W.,24 lks. dist..mkd.¼ S 25 B T.
	A cedar,18 ins.dia.,bears S.14°W.,27 lks. dist..mkd.¼ S 36 B T.
41.30	Bottom of hollow,170 ft.below ridge,course N.30°W.
	Asc.
44.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
46.60	Bottom of hollow,100 ft.below ridge,course N.
	Asc.
49.00	Top of ridge,100 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
51.20	Bottom of hollow,50 ft.below ridge,course N.20°E.
	Asc.
57.20	Top of ridge,200 ft.above hollow,bears N.and S.
	Desc.
67.30	Bottom of hollow,200 ft.below ridge,course N.
	Asc.
80.18	The cor.of secs.25,26,35,and 36,150 ft.above hollow.
	Land,mountainous and rolling mesa.
	Soil,sandy and gravelly;3rd rate.about 12 ins.deep.

Sub.T.32 S.,R.21 E.-Continued.

Chains

Timber,exceptionally heavy cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timber,ed land,80.18 chs.

May 26,1911.

May 27,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°00'N., on the lat.arc;21°12'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.25,26,35,and 36.

Thence I run

N.0°01'W.,bet.secs.25 and 26.

Over mountainous land;through heavy timber.

Desc.

25.85 Bottom of hollow,150 ft.below cor.,course NE.

Asc.

28.65 Top of ridge,5o ft.above hollow,bears E.and W.

Desc.

31.95 Bottom of hollow,50 ft.below ridge,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 26 in W half and S 25 in E half;from which

A pinon pine,10 ins.dia.,bears N.85°30'E.,41 lks. dist..mkd.¼ S 25 B T.

A pinon pine,8 ins.dia.,bears S.78°30'W.,29 lks. dist..mkd.¼ S 26 B T.

May 27,1911:At this cor.I set off 21°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°00'N.,which is the proper lat.nearly.

41.15 Top of ridge,100 ft.above hollow,bears E.and W.

Desc.

47.45 Leave heavy timber and enter dense undergrowth,bears E.and W

SublT.32 S.,R.21 E.-Continued.

Chains	
49.50	Bottom of hollow,50 ft.below ridge,course W.
	Asc.
59.00	Leave dense sage brush and enter heavy timber,bears E.and W.
68.60	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.gently.
80.00	Set an iron post,3 ft.long ,2 ins.in dia.,24 ins.in the ground,for cor.of secs.23,24,25,and 26,mkd.on brass cap

T 32 S S 23 in NW.

R 21 E S 24 in NE.

S 25 in SE.;and

S 26 in SW.quadrants;from which

A pinon pine,8 ins.dia.,bears N.51°45'E.,48 lks. dist..mkd.T 32 S R 21 E S 24 B T.

A cedar,10 ins.dia.,bears S.57°45'E., 68 lks. dist..mkd.T 32 S R 21 E S 25 B T.

A cedar,10 ins.dia.,b ars S.52°30'W.,29 lk.s. Dist.mkd.T 32 S R 21 E S 26 B T.

A cedar,10 ins.dia.,bears N.64°W.,57 lks.dist. mkd.T 32 S R 21 E S 23 B T.

Land rolling mountainous and rough mountainous.

Soil,sandy and gravelly about 2 ft.deep.

Timber,Cedar and pinon pine.

Undergrowth,sage brush.

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

May 27,1911.

May 29,1911.At 7 h 57 m a.m.,l.m.t.,I set off 38°01'N.,on th lat.arc;21°31'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.23,24,25,and 26.

Thence ⊥ run

N.89°58'E.,on a random line bet.secs.24 and 25.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
40.00	Set temp.¼ sec.cor.
80.20	Intersect E.bdy.of Tp.,2 lks.S.of the cor.of secs.19,24, 25,and 30, heretofore described.
	Thence I run
	S.89°57'W.,on a true line bet.secs.24 and 25.
	Over rolling mesa land;through dense undergrowth.
	Asc.
.50	Enter heavy timber,bears N.and S.
4.00	Wash,15 lks.wide,6 ft.deep,course N.
4.50	Leave heavy timber,bears N.and S.
5.40	Enter heavy timber,bears N.and S.
15.00	Leave heavy timber,bears N.and S.
19.50	Enter heavy timber,bears N.and S.
31.00	Top of ridge,100 ft.above wash,bears N.20°W.and S.20°E
	Desc.
40.10	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrouned by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 24 in N half;and S 25 in S half;from which
	A pinon pine,10 ins.dia.,bears N.43°30'W.,33 lks.dist..mkd.¼ S 24 B T.
	A pinon pine,10 ins.dia.,bears S.5°45'W.,29 lks. dist..mkd.¼ S 25 B T.
	May 29,1911:At this cor.I set off 21°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°01'N.,which is the proper lat.nearly.
41.20	Bottom of hollow,50 ft.below ridge;course NW.
	Asc.
42.10	Top of ridge,20 ft.above hollow,bears NW and SE.
	Desc.
44.50	Head of hollow,20 ft.below ridge,course N.20°W.
	Asc.
46.80	Top of spur,40 ft.above hollow,bears NW and SE.
	Desc.
56.20	Bottom of canon,100 ft.below ridge,course N.10°E.

Sub.T.32 S.,R.21 E.-Continued.

Chains	Sec.
70.00	Top of ridge,200 ft.above canon,bears N.and S.
	Desc.
80.20	The cor.of secs.23,24,25,and 26.
	Land,rolling mesa and mountainous land.
	Soil,sandy about 1 to 2 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.20 chs.
	May 29,1911.

May 30,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°01'N., on lat.arc; 21°50'W.,on the decl.arc;and determine a meridian with the solar at the cor.of secs.23,24,25,and 26.

Thence I run

N.0°1'W.,bet.secs.23 and 24.

Over mountainous land;through dense undergrowth.

Desc. through scattering timber.

3.00	Begin abrupt descent,over broken ledges,bears N.20°E. and S 20°W.
8.00	Foot of ledge,bears NE and SW.
	Desc.gently.
23.50	Desc.over ledges,bears NE and SW.
26.20	Begin more abrupt descent,bears N.20°E.and S.20°W.
40.00	Falls on solid rock;therefore I cut a cross(x)at the
exact	exact point for ¼ sec.cor.and at
39.55	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 witness cor.to ¼ sec.cor.,mkd.on brass cap T 32 S R 21 E in N half;W C ¼ S 23 in W half;and S 24 in E half.

from which

A pinon pine,8 ins.bears N.53°15'E.,150 lks. dist.,mkd.W C ¼ S 24 B T.

Chains	
	A pinon pine,10 ins.dia.,bears S.71°15'W.,34 lks.dist..mkd.¼ S 23 B T. W C .
41.90	Ledge 10 ft.high,bears NE and SW.
46.45	Foot of abrupt descent,bears NE and SW.
59.00	Begin abrupt descent over ledges,bears NW and SE.
63.00	Foot of ledges,bears NW and SE.
63.10	Bottom of canon,300 ft.below sec.cor.,course NW.
	Asc.
75.70	Begin more abrupt ascent over ledges,bears E.and W.
80.00	Point for sec.cor.falls on solid rock in place;I mark a cross at the exact point for cor.of secs.13,14,23,and 24, and at
81.97	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 witness cor.to cor.of secs.13,14,23,and 24,mkd.on brass cap
	T 32 S S 14 in NW.
	W C R 21 E S 13 in NE.
	S 24 in SE.;and
	S 23 in SW.quadrants;from which
	A pinon pine,12 ins.dia.,bears N.24°15'E.,48 lks. dist..mkd.W C T 32 S R 21 E S 13 B T.
	No other trees within limits;raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous very rough.
	Soil,sandy and gravelly about 2 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.

May 31,1911.

Chains	
	June 1,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°02'N. on the lat.arc;21°57'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.13,14,23, and 24.
	Thence I run
	N.89°57'E.,on a random line bet.secs.13 and 24.
40.00	Set temp.¼ sec.cor.
80.24	Intersect E.bdy.of Tp.,7 lks.N.of the cor.of secs. 13,18 19,and 24,heretofore described.
	Thence I run
	West,on a true line bet.secs.13 and 24.
	Over mountainous land;through heavy timber.
	Asc.
1.60	Top of steep ascent,bears NE and SW.
8.00	Trail bears N.and S.
10.00	Top of ridge,50 ft.above cor.,bears N.and S.
	Desc.
27.00	Head of hollow,40 ft.below ridge,course NE.
	Asc.
30.00	Top of ridge,30 ft.above hollow,bears N.15°E.and S.15°W.
	Desc.
33.00	Ravine,20 ft.deep course N.
	Asc.
37.20	Top of ridge,40 ft.above ravine bears N.and S.
	Desc.
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 13 in N half and S 24 in S half;from which
	A pinon pine,16 ins.dia.,bears N.32°45'E.,53 lks. dist..mkd.¼ S 13 B T.
	A pinon pine,8 ins.dia.,bears S.42°45'W.,32 lks. dist..mkd.¼ S 24 B T.
	June 1,1911:At the noon hour the sky is overcast and solar observations are impossible.
45.00	Begin abrupt descent,bears N.and S.

Sub.T. 32 S.,R.21 E.-Continued.

Chains	
58.00	Bottom of canon,500 ft.below ridge,course N.
	Asc.abruptly over ledges.
72.80	Top of abrupt ascent,bears N.20°W.and S.20°E.
	Asc.gently.
80.24	The cor.of secs.13,14,23,and 24.
	Land,mountainous .
	Soil,sandy loam from 1 to 2 ft.deep;on ledges of solid sandstone.
	Timber,cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.24 chs.

June 1,1911.

June 2,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°02'.,on the lat.arc;22°06 '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°1'W.,bet.secs.13 and 14.

Over mountainous land;through heavy timber.

	Asc.
6.15	Top of ridge,50 ft.above cor.,bears N.20°E.and S.20°W.
	Desc.abruptly over ledges.
20.00	Bottom of canon,400 ft.below sec.cor.,course N.10°E.
	Asc.abruptly.
34.60	Top of ridge,300 ft.above canon,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 14 in W half and S 13 in E half;from which

A pinon pine,12 ins.dia.,bears S.14°55'E.,31 lks. dist..mkd.¼ S 13 B T.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	A cedar,10 ins.dia.,bears S.55°45'W.,12 lks. dist..mkd. S 14 B T.
42.00	Desc.abruptly over ledges,bears NE and SW.
46.30	Foot of ledges,bears E.and W.
51.00	Bottom of canon,200 ft.below ridge,course NE.
	Asc.
57.00	Top of ridge,100 ft.above canon,bears E.and W.
	Desc.
58.50	Bottom of hollow,50 ft.below ridge,course E.
	Asc.
60.00	Top of abrupt ascent,bears NE and SW.
	Asc.gently over mesa.
66.00	Bottom of hollow,30 ft.deep,course E.
	Asc.
76.00	North edge of mesa,bears N.and W.
	Desc.
80.00	Point for sec.cor .falls on stationary sandstone ledge I mark a cross(x) at the exact cor.point and at
79.50	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 witness cor.to cor.of secs.11,12,13,and 14,mkd.on brass cap

T 32 S S 11 in NW.

R 21 E W C S 12 in NE.

S 13 in SE.;and

S 14 in SW.quadrants;from which

A pinon pine,16 ins.dia.,bears N.36°15'E.,54 lks dist..mkd.W C T 32 S R 21 E S 12 B T.

A pinon pine,6 ins.dia.,bears S.82°15'E.,42 lks dist..mkd.W C T 32 S R 21 E S 13 B T.

A pinon pine,16 ins.dia.,bears S.35°30'W.,44 lks. dist..mkd.W C T 32 S R 21 E S 14 B T.

A pinon pine,12 ins.dia.,bears N.32°W.,104 lks. dist..mkd.W C T 32 S R 21 E S 11 B T.

Land,mountainous,very rough.

Soil,sandy loam about 1 ft.deep,underlaid by solid sandstone.

Sub.T.32 S.,R.21 E.-Continued.

Chains

Timber,cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

June 2,1911.

June 3,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°03'N.,on the lat.arc;22°15'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

East,on a random line bet.secs.12 and 13.

40.00 Set temp.¼ sec.cor.

80.18 Intersect E.bdy.of Tp.2 lks.N.of the cor.of secs.7,12, 13,and 18, heretofore described.

Thence I run

N.89°59'W.,on a true line bet.secs.12 and 13.

Over mountainous land;through scattering timber and dense undergrowth.

Asc.

5.00 Top of ridge,100 ft.above cor.,bears N.and S.

Desc.

15.00 Begin more abrupt descent over ledges,bears N.and S.

25.00 Bottom of hollow,100 ft.below ridge,course NW.

Asc.

30.00 Top of ridge,50 ft.above hollow,bears NW.and SE.

Desc.abruptly over ledges.

39.00 Foot of ledges,bears NE and SW.

40.09 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,6 ins.dia.,bears N.16°30'E.,25 lks. dist..mkd ¼ S 12 B T.

A pinon pine,5 ins.dia.,bears S.63°15'W.,6 lks. dist.mkd.¼ S 13 B T.

June 3,1911.At this cor.I set off 22°16'N.,on the decl.

Sub.T.32 S.,R.21 E.-Continued.

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°03'N.,which is the proper lat.nearly.
43.00	Begin more abrupt descent over ledges,bears N.and S.
58.00	Bottom of canon,500 ft.below ridge,course N.
	Asc.
77.00	Top of abrupt ascent,bears N.and S.500 ft.above canon.
	Asc.gently.
80.18	The cor.of secs.11,12,13,and 14.
	Land,mountainous .
	Soil,sandy loam from 1 to 2 ft.deep,on solid sandstone, formation.
Underg	rowth,sage brush.
	Timber,cedar and piñon pine.
	Good grass
	Mountainous land,or land covered with dense undergrowth.
	80.18 chs.

June 5,1911.

June 5,1911:At 7 h 58 m a.m.,l.m.t.,I set off 39°03'N., on the lat.arc;22°29'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.11,12,13,and 14.

Thence I run

N.0°01'W.,bet.secs.11 and 12.

Over mountainous land;through scattering timber and dense undergrowth.

Desc.

12.00	Begin more gradual descent,bears E.and W.
17.00	Begin more abrupt desc.,bears E.and W.
26.00	Bottom of hollow,250 ft.belowsec.cor.,course 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 11 in W half and S 12 in E half;from which

Sub.T.32 S.,R:21 E.-Continued.

Chains	
	A cedar,16 ins.dia.,bears N.32°30'E.,16 lks. dist..mkd.¼ S 12 B T.
	A pinon pine,10 ins.dia.,bears N.38°30'W.,24 lks.dist..mkd.¼ S 11 B T.
41.70	Top of ridge,25 ft.above ¼ sec.cor.,bears E and W.
	Desc.abruptly.
47.00	Bottom of hollow,100 ft.below ridge,course E.
	Asc.
51.70	Top of abrupt ascent,bears E.and W.
55.00	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.
63.25	Bottom of hollow,50 ft.below ridge,course E.
	Asc.
76.50	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.abruptly over ledges.
80.00	Point for cor.falls on solid rock;therefore I mark a cross (x) at the exact point for sec.cor.;and at
79.66	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for witness cor.to cor.of secs.1,2,11,and 12,mkd. on brass cap
	T 32 S S 2 in NW.
	W C R 21 E S 1 in NE.
	S 12 in SE.;and
	S 11in SW.quadrants;from which
	A pinon pine,8 ins.dia.,bears N.36°29'E.,129 lks. dist..mkd.T 32 S R 21 E W C S 1 B T.
	A pinon pine,10 ins.dia.,bears S.70°30'E.,120 lks dist..mkd.W C T 32 S R 21 E S 12 B T.
	A pinon pine,6 ins.dia.,bears N.25°45'W.,24 lks dist..mkd.W C T 32 S R 21 E S 2 P T.
	No other trees within limits;raise a mound of stone,2 ft base,1½ ft.high,W.of cor.
	Land,mountainous
	Soil,sandy loam;2nd rate.on subsoil of solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.

Sub,T.32 S.,R.21 E.-Continued.

Chains	
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	June5,1911.
	June 6,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°04'E., on the lat.arc;22°36'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
	S.89°59'E.,on a random line bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.
80.20	Intersect E.bdy.of Tp.,10 lks.S.of the point for cor. of secs.1,6,7,and 12,which is 39 lks.S.of the witness cor. , heretofore described.
	Thence I run
	S.89°57'W.,on a true line bet.secs.1 and 12.
	over rough mountainous land;through heavy timber.
	Asc.over ledges.
14.80	Top of ridge,175 ft.above sec.cor.,bears NE and SW.
	Desc.
18.60	Bottom of hollow,25 ft.below ridge,course N.
	Asc.
20.50	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.gently.
26.50	Begin more abrupt descent over ledges,bears NE and SW.
40.10	Point for ¼ sec.cors,falls on smooth ledges,where it is impossible to perpetuate the cor.Therefore I mark a cross (x)at the exact cor.point and continue to a safe place.
42.00	Bottom of box canon in ledges,400 ft.below ridge,course N.10°E.
	Asc.over ledges.

Sub.T.32 S.,R.21 E.-Continued.

Chains

38.40 Top of abrupt ascent,400 ft.above canon,and nearest safe point for ¼ sec.cor.

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 32 S R 21 E W C ¼ S 1 in N half.and S 12 in S half;from which

A cedar,12 ins.dia.,bears N.10°15'W.,34 lks. dist.,mkd.¼ S 1 B T.

A cedar,12 ins.dia.,bears S.35°30'E.,25 lks. dist.,mkd.¼ S 12 B T.

June 6,1911:At this cor.I set off 22°36'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.

53.00 Wash,50 lks.wide,3 ft.deep,course N.

55.50 Top of steep ascent,bears E.and S.

73.00 Ledge 20 ft.high,bears N7 and N2.

80.20 The point for cor.of secs.1,2,11,and 12.

Land,rough and mountainous .

Soil,sandy loam about 1 ft.deep,underlaid by solid sand stone ledges.

Timber,cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land,80.20 chs.

June 6,1911.

June 7,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°04'N., on the lat.arc;22°42'E.,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. sec.cor.

40.16 Intersect N.bdy.of Tp.,10 lks.S.89°58'W.,of the cor.of secs.

Tub.T.32 N.,R.21 E.-Continued.

Chains

1,2,35,and 36,heretofore described.

Thence I run

N.0°03'W.,on a true line bet.secs.1 and 2.

Over mountainous land through heavy timber.

Asc.

1.20 Top of abrupt ascent,bears NE and SW.

Thence over mesa.

6.40 Edge of mesa,bears E.and W.

Desc.over smoothsandstone.

11.60 Foot of ledge,bears E.and W.

39.40 Begin abrupt descent,bears NE and SW.

40.16 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.¼ S 2 in W half;and S 1 in E half.; from which

A pinon pine,12 ins.dia.,bears S.71°45'E.,23 lks. dist..mkd.¼ S 1 B T.

A pinon pine,8 ins.dia.,bears S.84°30'W.,57 lks dist..mkd.¼ S 2 B T.

42.70 Bottom of hollow,400 ft.below cor.,course NE.

Asc.abruptly.

45.60 Top of abrupt ascent,bears NE and SW.

50.30 Top of ridge,60 ft.above hollow,bears NE and SW.

Desc.

66.70 Bottom of canon,240 ft.below ridge,course E.

Asc.abruptly.

80.16 The cor.of secs.1,2,11,and 12.

180 ft.above canon.

Land,mountainous .

Soil sandy loam and rocky;about 1 ft.deep.subsoil solid rock.

Timber,cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land,80.16 chs.

June 7,1911.

Sub.T.32 S.,R.21 E.-Continued..

Chains

Eric H. Anderson
U.S.Transitman

Sub.T.32 S.,R.21 E.

Survey commenced June 6,1911,and executed with a W.and L E.Gurley explorer's transit,No.956,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 April 22,1911.

Note:For complete test of instrument see notes of S.bdy. of Tp.

At the cor.of secs.2,3,34,and 35,on S.bdy.of Tp.,latitude 37°59'04"N.,longitude 109°37'57"W.,At 2 h 36.9 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 plug set in the ground,5.00 chs.of the cor.

June 6,1911:

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 cutting a small groove in a stone firmly set in the ground,5.00 chs.N.of the cor.

At 7 h 58 m a.m.,l.m.t.,I set off 37°59'N.,on the lat.arc. 22°36'N.,on the decl.arc;and mark the meridian determined 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 the meridian determined by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8h. 30 m a.m.,is N.16°05'W.,the angle thus determined gives the mag decl. 16°05'E.

Chains	
	From the cor.of secs.2,3,34,and 35.on Snbdy.of Tp., heretofore described, I run N.0°1'W.bet.secs.34 and 35.
	Over mountainous land;through heavy timber.
	Desc.over large boulders and ledges.
1.40	Bottom of hollow,100 ft.below cor.,course N.80°W.
	Asc.
7.10	Ledge 30 ft.high,bears E.and W.
12.00	Top of ridge,100 ft.above h llow,bears NW and SE.
	Leave ledges,desc.abruptly.
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 34 in W half and S 35 in E half;from which
	A pinon pine,12 ins.dia.,bears S.45°E.,29 lks. dist..mkd.¼ S 35 B T.
	A pinon pins,10 ins.dia.,bears N.60°W.,58 lks. dist..mkd.¼ S 34 B T.
41.00	Bottom of hollow,800 ft.below ridge,course N.80°W.
	Asc.
42.00	Top of ridge,20 ft.above hollow,bears E.and W.
	Desc.
48.50	Bottom of hollow,50 ft.below ridge,course W.
	Asc.
58.30	Top of ridge,200 ft.above hollow,bears NE and S.60°W.
	Desc.
61.00	Bottom of hollow,100 ft.below ridge,course S.60°W.
	Asc.
65.00	Top of ridge,60 ft.above hollow,bears NE and SW.
	Desc.
68.00	Bottom of hollow,40 ft.below ridge,course S.40°W.
	Asc.over ledges.
71.60	Top of ledges,bears NE and SW.
75.40	Top of ridge,200 ft.above hollow,bears N.70°E.and SW.
	Desc.

Subdivision of T.32 S.,R.21 E.-Continued.

Chains

79.60 Bottom of hollow,20 ft.below ridge,course SW.

Asc.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,16 ins.in the ground,on solid rock,and surrounded by mound of stone, for cor.of secs.26,27,34,and 35,mkd.on brass cap

T 32 S S 27 in NW.

R 21 E S 26 in NE.

S 35 in SE.and

S 34 in SW.quadrants;from which

A pinon pine,6 ins.dia.,bears N.25°30'E.,79 lks dist..mkd.T 32 S R 21 E S 26 B T.

A pinon pine,6 ins.dia.,bears S.55°E.,54 lks. dist..mkd.T 32 S R 21 E S 35 B T.

A cedar,[illegible] ins.dia.,bears S.44°W.,40 lks. dist..mkd.T 32 S R 21 E S 34 B T.

A pinon pine,12 ins.dia.,bears N.37°45'W.,126 lks.dist..mkd.T 32 S R 21 E S 27 B T.

Land,mountainous .

Soil,sandy loam about 1 ft.deep,on solid sandstone.

Timber,cedar and pinon pine.

Undergrowth,sage brush

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

June 6,1911.

June 7,1911.At 7 h 58 m a.m.,l.m.t.,I set off 38°00'N., on the lat.arc;22°42'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.26,27,34,and 35.

Thence I run

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

40.00 Set temp.¼ sec.cor.

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

Sub.T.32 S.,R.21 E.-Continued.

Chains

Thence I run

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

Over mountainous land;through heavy timber.

Asc.

3.50 Top of ridge,70 ft.above cor.,bears N.20°W.and S.20°E.

Desc.

10.70 Bottom of hollow,150 ft.below ridge,course N.20°W.

Asc.

17.00 Top of steep ascent and edge of broad ridge or mesa,bears N.20 W.and S.20°E.

Desc.gently over 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 26 in N half and S 35 in S half;from which

A pinon pine,6 ins.dia.,bears N.10°W.,65 lks. dist..mkd.¼ S 26 B T.

A pinon pine,8 ins.dia.,bears S.2°E.,2 lks. dist..mkd.¼ S 35 B T.

55.00 West edge of ridge or mesa,bears N.20°W.and S.20°E.

Desc.abruptly.

57.80 Bottom of hollow,200 ft.below ridge,course S.20°W.

Asc.

59.00 Top of ridge,60 ft.above hollow,bears N.and S.

Desc.

62.00 Bottom of hollow,40 ft.below ridge,course S.

Asc.

70.20 Top of ridge,100 ft.above hollow,bears N.20°E.and S.20°W.

Desc.

79.20 Bottom of hollow,100 ft.below ridge,course SW.

Asc.

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

Land,mountainous and high rolling mesa.

Soil,sandy loam about 2 ft.deep.on sandstone subsoil.

Timber,exceptionally heavy cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land,79.96 chs.

Sub.T.32 S.,R.21 E. Continued.

Chains	
	June 7,1911:At this cor.I set off 22°42'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°00'N.,which is the proper lat.nearly.
	N.0°1'W.,bet.secs.26 and 27.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc. over ledges.
18.50	Top of steep,ascent,bears E.and W.
	Leave ledges,bears E.and W.
22.00	Top of ridge,100 ft.above top of ledges,bears N.80°W.and S.80°E.
	Desc.
27.00	Bottom of hollow,20 ft.below ridge,course SW.
	Asc.
29.50	Top of spur,20 ft.above hollow,bears NE and SW.
	Desc.
30.70	Bottom of hollow130 ft.below spur,course SW.
	Asc.
34.00	Top of ridge,50 ft.above hol ow,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 27 in W half and S 26 in E half;from which
	A cedar,6 ins.dia.,bears S.64°30'E.,8 lks. dist.,mkd.¼ S 26 BT.
	A pinon pine,8 ins.dia.,bears S.41°34'W.,14 lks. dist.,mkd.¼ S 27 B T.
45.00	Begin gradual descent,bears E.and W.
58:00	Leave timber and enter dense sage brush,bears NE and SW.
65.50	Leave sage and enter heavy timber,bears E.and W.
72.00	Bottom of canon,40 ft.below ridge,course NW.
	Asc.

Sub.T.32 S.,R.21 E.-Continued.

Chains

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 21 E S 23 in NE.

S 26 in SE.;and

S 27 in SW.quadrants;from which

A pinon pine,12 ins.dia.,bears N.80°45'E.,40 lks. dist..mkd.T 32 S R 21 E S 23 B T.

A cedar,8 ins.dia.,bears S.42°233E.,99 lks. dist..mkd.T 32 S R 21 E S 26 B T.

A cedar,10 ins.dia.,bears S.50°45'W.,13 lks. dist..mkd.T 32 S R 21 E S 2 7 B T.

A cedar,16 ins.dia.,bears N.49°45'W.,35 lks. dist..mkd.T 32 S R 21 E S 22B T.

Land,mountainous.

Soil,sandy loam about 1 ft.deep,on solid 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.

June 7,1911.

June 8,1911:At 7 h 59 m a.m.,l.m.t.,I set off 38°01'N., on the lat.arc; 22°48'N.,on the decl.arc;and determinea meridian with the solar,at the cor.of secs.22,23,26,and 27.

Thence I run

S.89°58'E.,on a random line.bet.secs.23 and 26.

40.00 Set temp½ sec.cor.

79.88 Intersect N.and S.line,12 lks.N.of the cor.of secs. 23,24,25,and 26.

Thence I run

N.89 °53'W.,on a true line bet.secs.23 and 26.

Over mountainous land;through heavy timber and scattering

Sub.T 32 S.,R.21 E.-Continued.

Chains	
	undergrowth.
	Desc.
.75	Top of ledge,15 ft.high,bears N.and S.
15.00	Bottom of canon,75 ft.below sec.cor.,course N.
	Asc.
23.00	Top of ridge,50 ft.above canon,bears N.and S.
	Desc.gently.
32.00	Begin abrupt descent over broken ledges,bears N.20°W. and S.20°E.
37.30	Foot of ledges,bears N.20°W.and S.20°E.
39.94	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 23 in N half and S 26 in S half;from which
	A pinon pine,10 ins.dia.,bears N.42°E.,54 lks. dist..mkd.¼ S 23 B T.
	A pinon pine,10 ins.dia.,bears S.10°E.,57 lks. dist..mkd.¼ S 26 B T.
	Begin more abrupt descent,bears N.and S.
42.00	Bottom of canon,140 ft.below ridge,course N.
	Asc.
46.30	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
50.00	Bottom of canon,50 ft.below ridge,course N.30°E.
	Asc.abruptly .
55.00	Top of abrupt ascent,bears N.30°E.and S.30°W.
72.60	Top of ridge,250 ft.above canon,bears N.and S.
	Desc.gently.
75.40	Begin abrupt descent,bears N.20°W.and S.20°E.
79.88	The cor.of secs.22,23,26,and 27.
	Land,mountainous and rolling mesa.
	Soil,sandy loam;about 1 ft.deep,underlaid with solid rock .
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,79.88chs.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	June 8,1911:At this cor.I set Off 22°49'N.,on the decl. arc;and at 11 h 59 m a.m.,l.m.t.,I observe the sun on the meridia ,the resulting lat.is 38°02'N.,which is the proper lat.nearly.
	N.0°1'W.,bet.secs.22 and 23.
	Over mountainous land;through heavy timber.
	Asc.
12.00	Top of ridge,40 ft.above sec.cor.,bears N.70°E.and S.70°W
	Desc.
18.00	Bottom of hollow,30 ft.below ridge,course NW.
	Asc.
37.00	Top of ridge,40 ft.above hollow,bears NE and SW.
	Desc.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 22 in W half and S 23 in E half ;from which
	A cedar,10 ins.dia.,bears S.64°15'E.,12 lks. dist..mkd.¼ S 23 B T.
	A pinon pine,8 ins.dia.,bears S.20°05'W.,12. lks.dist..mkd.¼ S 22 B T.
54.00	Bottom of hollow,30 ft.below ridge,course W.
	Asc.
59.50	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
60.00	Top of ledge,10 ft.high,bears E.and W.
67.80	Top of vertical ledge of canon wall,200 ft.high,bears NE.and S.80°W.
	Desc.abruptly over ledges and boulders.
80.00	Point for cor.falls on solid rock boulder 12x8x3 ft. above ground,I mark a cross at the exact cor.point.and at 80x08x
80.08	Set an iron post,3 ft.lonh,2 ins.dia.,24 ins.in the ground,for witness cor.to cor.of secs.14,15,22,and 23, mkd.on brass cap

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	T 32 S S 15 in NW.
	W C R 21 E S 14 in NE.
	S 23 in SE.;and
	S 22 in SW.quadrants;from which
	A pinon pine,8 ins.dia.,bears N.46°15'E.,186 lks.
	dist..mkd.W C T 32 S R 21 E S 14 B T.
	A pinon pine,6 ins.dia.,bears S.77°45'E.,69 lks.
	dist.mkd.W C T 32 S R 21 E S 23 B T.
	A pinon pine,8 ins.dia.,bears S.66°W.,43 lks.
	dist..mkd.W C T 32 S R 21 E S 22 B T.
	A cedar,12 ins.dia.,bears N.15°W.,131 lks.
	dist..mkd.W C T 32 S R 21 E S 15 B T.

Land,mountainous .

Soil,sandy loam from 1 ft.to 2 ft.deep,on solid rock.

Timber,cedar and pinon pine.

Good grass for grazing.

Undergrowth,sage brush.

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

June 8,1911.

June 9,1911:At 7 h 59 m a.m.,l.m.t.,I set off 38°02'N.,on the lat.arc; 22°54'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

S.89°53'E.,on a random line bet.secs.14 and 23.

40.00 Set temp.¼ sec.cor.

79.94 Intersect N.and S.line,22 lks.S.of the point for cor.of secs.13,14,23,and 24.which is 197 lks.S.of the witness cor.

Thence I run

S.89°58'W.,on a true line bet.secs.14 and 23.

Over mountainous land;through heavy timber.

Desc.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
2.00	Begin abrupt descent over ledges,bears N.and S.
8.00	Bottom of canon,400 ft.below sec.cor.,course N.
	Asc.over ledges.
15.25	Top of ledge,100 ft.high,300 ft.above canon,on west edge bears N.and S.
20.40	Top of abrupt ascent,leave ledges,bears N.and S.
	Asc.gently over rolling mesa.
39.97	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 14 in N half and S 23 in S half;from which
	A cedar,14 ins.dia.,bears N.60°E.,9 lks. dist..mkd.¼ S 14 B T.
	A pinon pine,8 ins.dia.,bears S.7°45'W.,42 lks. dist..mkd.¼ S 23 B T.
42.50	Ledge,30 ft.high,bears N.and S.
	Leave mesa S,bears N.and S.
	Asc.
55.00	Top of ridge,50 ft.above ¼ sec.cor.,bears N.and S. Desc.
59.50	Begin.abrupt descent over ledges,bears N.20°W.and S.20°E.
67.20	Begin abrupt descent over ledges,at top of ledge of canon wall 200 ft.high,bears N.20°W.and S.50°W.
79.94	Point 800 ft.below ridge.
	The cor.of secs.14,15,22,and 23.
	Land,mountainous .
	Soil,sandy loam about 1 ft.deep.on solid rock.
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Mountainous or heavily timbered land,79.94 chs.
	June 9,1911:At this cor.I set off 22°54'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°02'N.,which is the proper lat.nearly.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	N.0°01'W.,bet.secs.14 and 15.
	Over mountainous land;through heavy timber.
	Desc.
1.25	Bottom of hollow,40 ft.below cor.,course N.40°W.
	Asc.
3.00	Top of spur,40 ft.above hollow,bears NW and E.
	Desc.
5.00	Bottom of hollow,50 ft.below ridge,course NW.
	Asc.
8.70	Top of ridge,25 ft.above hollow,bears NW and SE.
	Desc.over small ridges and hollows:
21.00	Begin abrupt descent,bears NW and SE.
22.45	Bottom of hollow,150 ft.below ridge,course NW.
	Asc.
23.80	Top of ridge,20 ft.above hollow,bears NW and SE.
	Desc.
33.00	Foot ofmountain,enter rolling land in bottom of Cottonwood Canyon, bears N.20°E. and SW.
33.10	Wash,15 lks.wide,3 ft.deep,course N.10°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,8 ins.dia.,bears S.12°30'E.,85 lks. dist..mkd.¼ S 14 B T.
	A cedar,10 ins.dia.,bears N.86°30'W.,122 lks. dist..mkd.¼ S 15 B T.
Leave	heavy and enter scattering timber,bears E.and W.
	Enter dense undergrowth,bears E.and W.
49.50	Wash,50 lks.wide,10 ft.deep,course W.
57.00	Wash,10 lks.wide,6 ft.deep,course W.
62.80	Wash,in small hollow,20 lks.wide,3 ft.deep,30 ft.deep course W.
	Asc.
64.50	Leave timber,bears E.and W.
70.00	Wash,10 lks.wide,3 ft.deep,course W.
74.60	Wash,10 lks.wide,3 ft.deep,course W.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
77 90	Wash,10 lks.wide,3 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 32 S S 10 in NW.
	R 21 E S 11 in NE.
	S 14 in SE.;and
	S 15 in SW.quadrants;from which
	A cedar,6 ins.dia.,bears S.57°17'W.,485 lks.
	dist..mkd.T 32 S R 21 E S 15 B T.
	Not other trees within limits;raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous.
	Soil,sandy loam and gravelly;from 1 to 4 ft.deep,subsoil solid sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Mountainous or heavily timbered land,or land covered with densemundergrowth,80.00 chs.

June 9,1911.

June 10,1911:At 7 h 59 m a.m.,l.m.t.,I set off 38°03'N., on the lat.arc;22°59'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.89°58'E.,on a random line bet.secs.11 and 14.

40.00	Set temp.¼ sec.cor.
79.90	Intersect N.and S.line,2 lks.N.of the point for cor.of secs.11,12,13,and 14,which is 50 lks.N.of the witness cor.

Thence I run

S,89°59'W.,on a true line bet.secs.11 and 14.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.over smooth sandstone ledges.

Sub.T.32 S.,R.21 E.-Continued.-

Chains	
6.00	Top of ledge,75 ft.high,bears N.and S.
	Asc.over broken ledges.
11.00	Begin more abrupt ascent,bears N.20°E.and S.20°W.
13.00	Top of abrupt ascent,bears N.20°E.and S.20°W.
21.70	Begin abrupt ascent,bears N.and S. over ledges.
22.50	Sandstone ledge,30 ft.high,bears N.and S.
24.50	Sandstone ledge,20 ft.high,bears N.20°W.and S.20°E.
25.00	Foot of same ledge,bears N.20°W.and S.20°E.
34.40	Top of ridge,400 ft.above sec.cor.,bears N.and S.
	Desc.
39.00	Foot of abrupt descent,bears N.and S.
39.95	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for sec.cor..mkd.on brass cap S 11 in N half and S 14 in S half;from which
	A pinon pine,10 ins.dia.,bears N.70°45'W.,36 lks. dist..mkd. S 11 B T,
	A pinon pine,12 ins.dia.,bears S.43°30'W.,78 lk. dist..mkd. S 14 B T.
45.40	Top ofledge,of canon wall,200 ft.high,bears N.and S.
	Desc.abruptly over ledges. Leave heavy and enter scat.timber.
57.00	Foot of ledges and abrupt descent,enter rolling land in bottom of Cottonwood Canon, bears N.20°W.and S.20°E.
	Enter dense undergrowth,bears N.20°W.and S.20°E.
79.90	The cor.of secs.10,11,14,and 15.1000 ft.below ridge,
	Land,mountainous and rolling canon bottom.
	Soil,sandy loam from 1 ft.to 4 ft.deep,underlaid with clay in canon bottom and sandstone on balance of mile.
	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.
	June 10,1911:At this cor.I set off 22°59'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.

Sub.T.32 S.,R.21 E.-Continued.-.

Chains	
	N.0°01'W.,bet.secs.10 and 11.
	Over rolling mountainous land in bottom of cottonwood canon.;through dense undergrowth.
	Desc.gently.
2.85	Wagon road,bears NE and SW.
7.50	Enter heavy timber,bears E.and W.
9.80	Wash,20 lks.wide,4 ft.deep,course W.
10.20	Leave timber,bears E.and W.
13.50	Wash,10 lks.wide,3 ft.deep,course W.
14.45	Wagon road,bears NW and SE.
39.80	Wash,20 lks.wide,3 ft.deep,course 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 and S 11 in E half;from which
	A cedar,8 ins.dia.,bears S.70°45'E.,93 lks. dist..mkd.¼ S 11 B T.
	A pinon pine,7 ins.dia.,bears S.82°30'W.,122 lk. dist..mkd.¼ S 10 B T.
	Enter scattering timber,bears E.and W.
41.00	Leave timber,bears E.and W.
61.35	Wagon road,bears N.20°E.and S.20°W.
66.55	Same road,bears N.20°W.and S.20°E.
75.70	Same road,bears N.20°E.and S.20°W.
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 32 S S 3 in NW.
	R 21 E S 2 in NE.
	S 11 in SE.;and
	S 10 in SW.quadrants;and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Land,rolling mountainous.
	Soil,sandy and rocky;about 1 ft.deep.Subsoil,rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush and greasewood and shadscales.
	Good grass for grazing.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	Mountainous land or land covered with dense undergrowth, 80.00 chs.
	June 10,1911.
	June 12,1911 :At 7 h 59 m a.m.,l.m.t.,I set off 38°04'N. on the lat.arc;23°08'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.2,3,10,and 11
	Thence I run
	N.89°59'E.,on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
79.94	Intersect N.and S.line,2 lks.N.of the point for cor.of sec.1,2,11,and 12.which is34 lks.N.of the witness cor.
	Thence I run
	West,on a true line bet.secs.2 and 11.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.abruptly over broken ledges.
7.20	Top of abrupt ascent 200 ft.above sec.cor.,bears N.70°W.and S.70° E.
	Leave ledges,bears N.70°W.and S.70° E.
	Desc.gently.
25.00	Top of ridge,250 ft.above sec.cor.,bears N.and S.
	Desc.
29.00	Bottom of hollow,20 ft.below ridge,course S.20°W.
	Desc.abruptly over broken ledges.
31.61	The point for ¼ sec.cor.will fall on smooth ledges;therefore at this point(the nearest safe point)
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for witness cor.for ¼ sec.cor.mkd.on brass cap T 32 S R 21 E W C ¼ S 2 in N.half and S 11 in S half.
	from which
	A pinon pine,10 ins.dia.,bears N.47°50'W.,70 lks. dist..mkd.W C ¼ S 2 B T.
	A pinon pine,10 ins.dia.,bears S.41°45'W.,29 lks. dist..mkd.W C ¼ S 11 B T.
32.70	Top of ledge of canon wall 250 ft.high,bears N.10°W.and

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	S.10°E.
	Desc.abruptly over ledges.
39.97	Falls on steep ledges and cannot be set.
65.00	Leave heavy and enter scattering timber,bears N.and S.
65.20	Foot of ledges,1200 ft.below ridge,bears N.and S.
	Enter rolling land in bottom of cottonwood canon.
77.70	Wagon road,bears N.20°E.and S.20°W.
79.94	The cor.of secs.2,3,10,and 11.
	Land,mountainous and rolling canon bottom.
	Soil,sandy loam and clay ;2nd rate about 2 ft.deep.underlaid with rock.
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Undergrowth,sage brush.
	Mountainous or heavily timbered land,79.94 chs.
	June 12,1911:At this cor.I set off 23°08'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°04'N.,which is the proper lat.nearly.

	N.0°01'W.,on a random line bet.secs.2 and 3.
40.00	Set temp.¼ sec.cor.
80.06	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 rolling land;through dense undergrowth.
	Desc.gently.
12.60	Wash,81 lks.wide,3 ft.deep,course N.60°E.
15.40	Wash,10 lks.wide,4 ft.deep,course N.60°E.
28.25	Wash,150 lks.wide,10 ft.deep,course N.60°E.
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 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.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	high W of cor.
67.70	Cottonwood creek,20 lks wide,8 ins.deep,in bottom of wash 60 lks.wide,10 ft.deep,course N.20°E.
	Asc.gently.
80.06	The cor.of secs.2,3,10,and 11.
	Land,rolling land in bottom of cottonwood canon.
	Soil,sandy and clay loam about 2 ft.deep.Subsoil,clay.
	Timber,a few scattering cottonwoods along the creek.
	Undergrowth, sage,greasewood and shadscales.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.06 chs.

June 12,1911.

Scott C. Stewart
U.S.Transitman.

June 8,1911:At 7 h 58 m a.m.,l.m.t.,I set off 37°59'N., on the lat.arc;22°48'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°2'W.,bet.secs.33 and 34.

Over mountainous land;through heavy timber and scattering undergrowth.

Desc.

3.00	Head of hollow,20 ft.below sec.cor.,course N.80°E.
	Asc.gently.
12.00	Top of ascent, and edge of flat ridge,bears E.and W.
27.00	North edge of ridge,bears NW and SE.
	Desc.abruptly over ledges.
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;from which

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	A pinon pine,6 ins.dia.,bears S.78°E.,42 lks. dist..mkd.¼ S 34 B T.
	A pinon pine,6 ins.dia.,bears N.63°W.,37 lks. dist..mkd.¼ S 33 B T.
41.50	Bottom of hollow,600 ft.below ridge,course E.
	Asc.
43.30	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
51.00	Bottom of hollow,170 ft.below ridge,course NE.
	Asc.
52.30	Top of ridge,20 ft.above hollow,bears E.and W.
	Desc.
66.00	Begin more abrupt descent,bears NE and SW.
67.50	Bottom of hollow,100 ft.below ridge,course NE.
	Asc.
75.00	Top of ridge,20 ft.above hollow,bears N.10°E.and SW.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,20 ins.in the ground,on solid rock,and surrounded by mound of stone, for cor.of secs.27,28,33,and 34,mkd.on brass cap
	T 32 S S 28 in NW.
	R 21 E S 27 in NE.
	S 34 in SE.;and
	S 33 in SW.quadrants;from which
	A pinon pine,7 ins.dia.,bears N.67°E.,27 lks. dist..mkd.T 32 S R 21 E S 27 B T.
	A pinon pine,6 ins.dia.,bears S.39°E.,22 lks. dist..mkd.T 32 S R 21 E S 34 B T.
	A pinon pine,6 ins.dia.,bears S.31°30'W.,65 lks. dist..mkd.T 32 S R 21 E S 33 B T.
	A pinon pine,10 ins.dia.,bears N.7°W.,48 lks. dist..mkd.T 32 S R 21 E S 28 B T.
	Land,exceptionally rough and mountainous.
	Soil,sandy and gravelly 2nd and 4th rate.
	Under growth,sage brush.
	Good grass for grazing.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	Timber,cedar and pinon pine.
	Mountainous or heavily timbered land,80.00 chs.
	June 8,1911:At this cor.I set off 22°49'N.,on the decl. arc;and at 11 h 58 m a.m.,l.m.t.,I observe the sun on the meridianthe resutling lat.is 38°00'N.,which is the proper lat.nearly.
	—
	East,on a random line bet.secs.27 and 34.
40.00	Set temp.¼ sec.cor.
79.88	Undersect the N.and S.line,at the cor.of secs.26,27,34,and 35.
	Thence I run
	West,on a true line bet.secs.27 and 34.
	Over rough mountainous land;through heavy timber.
	Asc.
7.00	Top of ridge,100 ft.above cor.,bears N.and SW.
	Desc.
23.00	Begin more abrupt descent over ledges,bears N.and S.
31.00	Head of hollow,300 ft.below ridge,course NW.
	Asc.aver ledges.
39.94	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 27 in N half and S 34 in S half;from which
	A pinon pine,6 ins.dia.,bears N.15°E.,43 lks. dist..mkd.¼ S 27 B T.
	A pinon pine,12 ins.dia.,bears S.63°E.,77 lks. dist..mkd.¼ S 34 B T.
51.30	Top of ridge,100 ft.above hollow,bears N.20°W.and S.20°E.
	Des.abruptly over ledges.
61.30	Foot of abrupt descent and ledges, bears N.and S.
	Desc.gently.
78.00	Bottom of canon,900 ft.below ridge,course N.20°W.
	Asc.
79.80	Top of spur,50 ft.above canon,bears N.10°E.and S.10°W.
	Desc.

Sub.T.32 S.,R.21 E.-Continued.

Chains

79.88 The cor.of secs.27,28,33,and 34.

Land,mountainous .

Soil,sandy and gravelly ;2md and 4th rate.about 2 ft. deep.

Timber,cedar and pinon pine.

Good grass for grazing.

M untainous or heavily timbered land,79.88 chs.

June 8,1911.

June 9,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°00'N., on the lat.arc;22°54'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.27,28,33, and 34.

Thence I run

N.0°02'W.,bet.secs.27 and 28.

Over mountainous land;through heavy timber and scatter ng undergrowth.

Desc.

1.80 Bottom of hol low,50 ft.below cor.,course N.20°E.

Asc.

5.00 Top of rocky ridge,60 ft.above hollow,bears E.and W.

Desc.aver ledges.

7.00 Foot of ledges,bears NW and S.20°E.

13.00 West edge of wash,in canon,course N.20°E.and comes from S.20°E.

21.60 Bottom of canon,100 ft.below ridge,course NW.

Asc.

33.00 Top of ridge,100 ft.above canon,bears N.60°W.and S.60°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 28 in W half and S 27 in E half;from which

A.pinon pine,7 ins.dia.,bears N.56°45'E.,51 lks. lks.dist..mkd.¼ S 27 B T.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	A pinon pine,10 ins.dia.,bears N.17°15'W.,64 lks. dist..mkd.¼ S 28 B T.
40.75	Creek,1 lk.wide,1 in.deep,in bottom of canon,80 ft.below ridge,course N.70°W.
	Asc.over ledges and boulders.
45.70	Top of ledge,and south edge of mesa,130 ft.above hollow, bears NW and SE.
	Desc.gently over mesa.
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 21 E S 22 in NE.
	S 27 in SE.;and
	S 28 in SW.quadrants;from which
	A pinon pine,8 ins.dia.,bears N.73°E.,81 lks. dist..mkd.T 32 S R 21 E S 22 B T.
	A pinon pine,12 ins.dia.,bears S.35°30'E.,56 lks. dist..mkd.T 32 S R 21 E S 27 B T.
	A pinon pine,12 ins.dia.,bears S.53°30'W.,111 lks. dist..mkd.T 32 S R 21 E S 28 B T.
	A pinon pine,12 ins.dia.,bears N.61°30'W.,27 lks. dist..mkd.T 32 S R 21 E S 21 B T.
	Land,mountainous and rolling mesa.
	Soil,sandy and gravelly loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Mountainous or heavily timbered land,80.00 chs.
	June 9,1911:At this cor.I set off 22°54'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°01'N.,which is the proper lat.nearly.

	East,on a random line bet.secs.22 and 27.
40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line,14 lks.S.of the cor.of secs.

Sub.T.32 S.,R.21 E.-Continued.

Chains	22,23,26,and 27.
	Thence I run
	S.89°54'W.,on a true line bet.secs.22 and 27.
	Over mountainous land;through heavy timber and scattering sage brush.
	Desc.
11.50	Begin more abrupt descent over ledges,bears N.and S.
17.24	Bottom of hollow,100 ft.below cor.,course N.10°W.
	Asc.
20.90	Top of ridge,30 ft.above Hollow,bears NW and SE.
	Desc.
27.47	Edge of box canon,bears N.20°W.and S.
	Desc.abroptly over ledges.
29.20	Bottom of canon,140 ft.below ridge,course NW.
	Asc.abruptly.
32.65	Top of abrupt ascent,at edge of canon,bears NW and SE.
39.96	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 22 in N half and S 27 in S half;from which
	A pinon pine,4 ins.dia.,bears N.24°30'W.,50 lks dist..mkd.¼ S 22 B T.
	A pinon pine,10 ins.dia.,bears S.73°W.,36 lks. dist..mkd.¼ S 27 B T.
41.00	Top of ledge of canon wall 250 ft.high,bears N.and S.
	Desc.abruptly over ledges.
50.00	Foot of ledges and abrupt descent 800 ft.below ledge, bears N.10°E.and S.10°W.
	Desc.over rolling mesa.
79.92	The cor.of secs.21,22,27,and 28.
	Land,mountainous and rolling mesa.
	Soil,sandy and gravelly loam;about 1 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	Mountainous or heavily timbered land,79.92 chs.
	June 9,1911.
	June 10,1911:At 7 h 58 m a.m.,l.m.t.,I set off 38°01'N., on the lat.arc;22°59'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 rolling mesa land;through heavy timber and dense undergrowth.
	Desc.gently.
14.00	Begin abrupt descent from mesa over ledges and boulders, bears NE and SW.
22.00	Foot of abrupt descent ,enter bottom of cottonwood canon, 250 ft.below mesa,bears NE and SW.
	Leave heavy timber.,bears NE and SW.
24.50	Wash,20 lks.wide,10 ft.deep,course N.70°W.
26.25	Cottonwood creek,12 lks.wide,12 ins.deep,course NE.
27.10	Same creek,12 lks.wide,12 ins.deep,course NW.
29.00	Same creek,12 lks.wide,12 ins.deep,course N.30°E.
34.80	Leave dense undergrowth and enter cultivated land,bears E.and W.
37.30	Point from which The cabin at Wilson or Keller ranch, bears S.40°30'W.,about 22.00 chs. dist.
	The corral and sheds bears S.44°15'W. about 25.00 chs. dist.
	The cultivated field extends from this point to the house.
37.40	Leave cultivated land,and enter dense undergrowth,bears NE 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 cottonwood,6 ins.dia.,bears N.18°10'E.,263 lk.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	dist..mkd.T S 22 B T.
	A cottonwood,8 ins.dia.,bears N.57°45'W.,137 lk.
	dist..mkd.T S 21 B T.
56.50	Fence,bears N.30°E.and S.30°W.
57.00	Wagon road,bears N.30°E.and S.30°W.
58.60	Leave cottonwood canon,bears N.30°E.and S.30°W.
	Asc.
59.40	Top of ridge,30 ft.above canon,bears E.and W.
	Note.From this point cor.of fence bears S.50°E. about 3.00 chs.dist.
	The Keller cabin bears S.23°40'W.
	The ruins of a cliff Dweller's house bears N.10°W.about 14.00 chs.dist.
	Desc.
70.60	Bottom of hollow,30 ft.below ridge,course S.80°E.
	Asc.abruptly over ledges and boulders.
74.80	Top of ledges and south edge of rolling mesa,250 ft.above hollow,bears E.and W.Enter heavy timber,bears E.and W.
	Asc.gently.
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 21 E S 15 in NE.
	S 22 in SE.;and
	S 21 in SW.quadrants;from which
	A pinon pine,10 ins.dia.,bears N.75°30'E.,107 lks.dist..mkd.T 32 S R 21 E S 15 B T.
	A pinon pine,7 ins.dia.bears S.56°30'E.,62 lks. dist..md.T 32 S R 21 E S 22 B T.
	A pinon pine,6 ins.dia.,bears S.32°45'W.,32 lks dist..mkd.T 32 S R 21 E S 21 B T.
	A cedar,10 ins.dia.,bears N.29°15'W.,38 lks. dist..mkd.T 32 S R 21 E S 16 B T.
	Land,mountainous and rolling.
	Soil,sandy and clay loam;2nd rate.
	Timber,cedar and pinon pine and a few scattering cottonwo

S b.T.32 S.,R.21 E.-Continued.

Chains	
	Undergrowth,sage brush and greasewood.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	June 10,1911:At this cor.I set off 22°59'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°02'N.,which is the proper lat.nearly.
	N.89°54'E.,on a random line bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,10 lks.N.of the point for cor.of secs.14,15,22,and 23.which is 8 lks.S.of the witness cor
	Thence I run
	S.89°58'W.,on a true line,bet.secs.15 and 22.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
.75	Top of ridge,20 ft.above sec.cor.,bears NW and SE.
	Desc.
2.30	Bottom of hollow,40 ft.below ridge,course NW.
	Asc.
4.40	Top of ridge,30 ft.above hollow bears N.30°W.and S.30°E.
	Desc.
15.00	Bottom of abrupt descnt,edge of rolling mesa,150 ft.below ridge,bears N.and S.
	Desc.gently.
19.40	Wash,12 lks.wide,4 ft.deep,course N.20°W.
22.40	Trail,bears N.20°E.and S.20°W.
34.20	Leave mesa,bears N.30°E.and S.30°W.
	Desc.over ledges.
37.00	Foot of ledges,enter bottom of cottonwood canon,bears N. 30°E.and S.30°W.
40.00	Point for ¼ sec.cor.falls in wash in bottom of cottonwood

Chains	
	wash,where cor.cannot be perpetuated;therfore at
39.50	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 32 S R 21 E W C ¼ S 15 in N half and S 22 in S half; from which
	A cedar,7 ins.dia.,bears N.76°E.,340 lks. dist..mkd.W C ¼ S 15 B T.
	A cedar,6 ins.dia.,bears S.69°E.,230 lks. dist..mkd.W C ¼ S 22 B T.
	Leave timber,bears N.and S.
40.00	Point for ¼ sec.cor.
40.40	Cotton wood Creek,20 lks.wide,8 ins.deep,course N.
	In wash,20 ft.deep,course N.
42.25	Same creek,20 lks.wide,7 ins.deep,course S.80°E.
45.00	Same creek,20 lks.wide,8 ins.deep,course N.
45.75	West bank of wash,20 ft.high,bears NE and S.
	Enter dense undergrowth,bears NE and S.
54.50	Wagon road,bears N.30°E.and S.30°W.
55.00	Leave cottonwood canon,begin abrupt ascent,bears N.30°E. and S.30°W.
	Enter heavy timber,bears N.30°E.and S.30°W.
58.60	Top of abrupt ascent and edge of mesa,bears N.35°E.and SW. 200 ft.above canon.
	Asc.gently.
80.00	The cor.of secs.15,16,21,and 22.
	Land,mountainous and rolling .
	Soil,sandy and clay loam about 20 ft.deep in canon bottom and 1 ft.deep on balance of mile.Subsoil,rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush and greasewood .The greasewood and sage brush here are exceptionally large and dense.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	June 10,1911.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	June 12 ,1911.At 7 h 59 m a.m.,l.m.t.,I set off 38°03'N., on the lar.arc;23°08'N.,on the decl.arc;and determine a meridian with the solar mat the cor.of secs.15,16,21,and 22.
	Thence I run
	N.0°02'W.,bet.secs.15 and 16.
	Over mountainous mesa land;through heavy timber and scattering undergrowth.
	Asc.gently.
25.00	Leave heavy and enter scattering timber,bears N.30°E.and S.30°W.
	Leave mesa,and begin abrupt ascent over ledges,bears N.30°E.and S.30°W.
36.50	Foot of sloping sandstone ledge,300 ft.high,bears N.30°E and S.30°W.
40.00	Falls on sloping ledge ;point inaccessable.
40.60	Top of ledges,and edge of Bridger Jack Mesa,800 ft.above sec.cor.,bears N.30°E and SW.
	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 witness cor.to ¼ sec.cor..mkd.on brass cap T 32 S R 21 E.in N half;W C ¼ S 16 in W half;and S 15 in E half; from which
	A pinon pine,10 ins.in dia.,bears N.32°E.,42 lks.dist..mkd.W C ¼ S 15 B T.
	A pinon pine,7 ins.dia.,bears N.43°W.,40 lks. dist..mkd.W C ¼ S 16 B T.
	Enter heavy timber,bears N.30°E.and SW.
	Asc.gently over ledges.
49.10	Ledge,20 ft.high,bears NW and SE.
52.00	Top of ridge,50 ft.above ledge,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.9,10,15,and 16,mkd.on brass cap
	T 32 S S 9 in NW.
	R 21 E S 10 in NE.

Sub.T.32 S.,R.21 E.-Continued.

Chains

S 15 in SE.;and

S 16 in.SW.quadrants;from which,

A cedar,12 ins.dia.,bears N.80°E.,62 lks.

dist..mkd.T 32 S R 21 E S 10 B T.

A pinon pine,12 ins.dia.,bears S.61°30'E.,94 lks.

dist..mkd.T 32 S R21 E S 15 B T.

A pinon pine,18 ins.dia.,bears S.1°30'W.,70 lks

dist..mkd.T 32 S R 21 E S 16 B T.

A pinon pine,6 ins.dia.,bears N.36°W.,54 lks.

dist..mkd.T 32 S R 21 E S 9 B T.

Land,mountainous and rolling.

Soil,sandy and clay loam about 2 ft.deep,subsoil,rock.

Timber,cedar and pinon pine.

Undergrowth,sage brush and shadscales.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

June 12,1911:At this cor.I set off 23°08'N.,on the decl. arc;and at 11 h. 59 m a.m.,l.m.t.,I observe the sun on the meridian theresulting lat.is 38°03'N.,which is the proper lat.nearly.

N.89°58'E.,on a random line bet.secs.10 and 15.

40.00 Set temp.☆ sec.cor.

49.92 Intersect N.and S.line,5 lks.N.of the cor.of secs.10,11, 14.and 15.

Thence I run

West,on a true line bet.secs.10 and 15.

Over rolling landthrough dense undergrowth.

Desc.

4.80 Wagon road,bears NE and SW.

12.20 Sandstone ledge,12 ft.high,bears NW and SE.

13.90 Old road,bears NW and SE.

20.40 Cottonwood creek,60 lks.wide,4 ins.deep,in bottom of wash 180 lks.wide,15 ft.deep,course N. 50 ft.below sec.cor.

Asc.gently.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	Enter scatter ng timber,bears N.and S.
25.30	Sandstone ledge,20 ft.high,bears N.and S.
	Leave cottonwood canon,asc.,bears N.and S.
	Mouth of ravine ,comes from SW.
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 10 in N half and S 15 in S half;from which
	A pinon pine,8 ins.dia.,bears N.50°46'E.,42 lks. dist..mkd.¼ S 10 B T.
	A pinon pine,8 ins.dia.,bears S.15°30'E.,44 lks dist..mkd.¼ S 15 B T.
48.50	Begin more abrupt ascent,over ledges,and boulders,bears N.20°E.and S.10°W.
60.00	Asc.more abruptly over sloping ledge,bears N.10°E. and S.10°W.
64.50	Top of.ledge or canon wall,300 ft.high,bears N.and S. 800 ft.above creek.
	Thence over Bridger Jack Mesa.
	Asc.gently.through heavy timber.
79.92	The cor.of secs.9,10,15,and 16.
	Land,mountainous and rolling .
	Soil,sandy loam and clay ;2nd rate .
	Timber,cedar and pinon pine.
	Undergrowth,sage brush greasewood and shadscales.
	Good grass for grazing.
	Mountainous or heavily timbered land,or dense undergrowth
	79.92 chs.
	June 12,1911.

June 13,1911:At 8-h 00 m a.m.,l.m.t.,I set off 38°05'N., on the lat.arc;23°11'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.9,10,15,and 16.

Thence I run

N.0°02'W.,bet.secs.9 and 10.

Over rolling land;through heavy timber.

Desc.

Chains	
10.25	Begin descent over ledges,bears NE and SW.
12.50	Foot of ledges,50 ft.below cor,bears NE and SW.
20.50	Desc.abruptly over ledges,bears NW and SE.
30.00	Foot of ledges,700 ft.below top ,bears NW and SE.
40.00	Point for ¼ sec.cor.falls in canon bottom,unsafe ground, therefore at
39.41	Set an iron post,3 ft..long,1 in.n dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor.mkd.on brass cap T 32 S R 21 E in N half W C ¼ S 9 in W half and S 10 in E half;from which
	A cedar,10 ins.dia.,bears N.16°30'W.,57 lks. dist..mkd.W C ¼ S 9 B.T.
	A pinon pine,8 ins.dia.,bears N.18°30'E.,25. lks.dist..mkd.W C ¼ S 10 B T.
40.00	Bottom of canon,800 ft.below mesa,course NW.
	Asc.
47.50	Top of spur,50 ft.above canon,bears NW and SE.
	Desc.abruptly.
50.50	Bottom of canon,100 ft.below ridge,course N.20°E.
	Asc.
53.00	Top of ridge,30 ft.above canon,bears NE and SW.
	Desc.
55.00	Bend in canon,60 ft.below ridge,course NE.
	Asc.
57.00	Top of spur;40 ft.above canon,bears NE and SW.
	Desc.
72.20	Bottom of hollow,100 ft.below spur,course NE.
	Asc.
75.60	Top of ridge,25 ft.above hollow,bears E.and W.
	Desc.
80.00	Point for cor.falls on solid rock whereit is impossible to perpetuate the cor.
	I mark a cross at the exact point for cor.of secs.3,4,9,a 10.and at
80.26	Set an iron post,3 ft.long,2 ins.in dia.,25 ins.in the

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	ground,for witness cor.to cor.of secs.3,4,9,and 10,mkd. on brass cap
	T 32 S S 4 in NW.
	W C R 21 E S 3 in NE.
	S 10 in SE.;and
	S 9 in SW.quadrants;from which
	A pinon pine,6 ins.dia.,bears N.22°E.92 lks.
	dist..mkd.W C T 32 S R 21 E S 3 B T.
	A pinon pine,4 ins.dia.,bears S.28°35'E.,44 lk.
	dist..mkd.W C T 32 S R 21 E S 10 B T.
	A pinon pine,6 ins.dia.,bears S.43°15'W.,84 lks
	dist..mkd.W C T 32 S R 21 E S 9 B T.
	A pinon pine,6 ins.dia.,bears N.66°W.,67 lks.
	dist..mkd.W C T 32 S R 21 E S 4 B T.
	Land,mountainous.
	Soil,sandy loam about 1 ft.deep,underlaid with solid sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	June 13,1911:At this cor.I set off 23°12'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°04'N.,which is the proper lat.nearly.
	E.on a random line bet.secs.3 and 10.
15.00	Foot of ledges,bears N.20°E.and S.20°W.
	Note:It is impossible to chain or triangulate this line from this point therefore I offset as follows:
	North,20.00 chs.thence
	East,45.00 chs.;thence
	South 20.00 chs.to random linemaking
60.00	Set temp.witness ¼ sec.cor.
79.90	Intersect N.and S.line,5 lks.S.of the cor.of secs.2,3,

Chains

10 and 11.

Thence I run

S.89°58'W.,on a true line bet.secs.3 and 10.

Over rolling land;.through dense undergrowth.

Desc.in bottom of Cottonwood canon.

4.35 East edge of Cottonwood wash,bank 10 ft.high,bears N.and S..

5.20 Cottonwood creek,20 lks.wide,4 ins.deep,in bottom of Cottonwood canon,course N.

Asc.

6.00 West bank of Cottonwood wash,10 ft.high,bears N.and S.

10.90 Point from which I later offset to the north.

Leave Cottonwood canon,bears N.5°E.and S.5°W.

Asc.

21.50 Enter scattering timber,bears N.and S.

28.05 Foot of impassable ledges.

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for witness cor.of ¼ sec.cor.mkd.on brass cap T 32 S R 21 E W C ¼ S 3 in N half.and S 10 in S half; from which

A cedar,6 ins.dia.,bears N.17°15'W.,24 lks. dist,mkd.W C ¼ S 3 B T.

A pinon pine,8 ins.dia.,bears S.70°45'E.,157 lks dist..mkd.W C ¼ S 10 B T.

I return to point 19.90 chs.from east from which I offset as follows:

North,20.00 chs.along foot of mountain;thence on offset line

S.89°59'W.,20.05 chs. point for ¼ sec.cor .is 20.00 chs.south and falls in inaccessable ledges

At 35.00.chs.bottom of canon,course N.30°E.

At 45.00 chs.Point from which I offset

South 20.00 chs.to true line making

64.90 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for witness point mkd.W P.on brass cap;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	Thence on trueline.
&8x60x	
68.60	Bottom of canon,30 ft.below witness point,course NE.
	Asc.
69.90	Top of ridge,35 ft.above cor.,bears N.20°E.and S.20°W.
	Des c.
72.40	Bottom of hollow,20 ft.below ridge,course N.30°E.
	Asc.
79.90	The point for cor.of secs.3,4,9,and 10 with is 26 lks.
	S.of the witness cor.
	Land,mountainous,central part exceptionally rough.
	Soil,sandy loam very shallow on subsoil of solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,79.90 chs.
	June 13,1911.
	June 15,1911:At 8 h 0 m a.m.,l.m.t.,I set off 38°04'N., on the lat.arc;23°18'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.3,4,9,and 10.
	Thence I run
	N.0°02'W.,on a random line bet.secs.3 and 4.
40.00	Set temp.1/4 sec.cor.
80.12	Intersect N.bdy.of Tp.,at the cor.of secs.3,4,33,and 34, heretofore described.
	Thence I run
	S.0°02'E.,on a true line bet.secs.3 and 4.
	Over mountainous land;through heavy timber and scattering sage brush.
	Desc. over Bridger Jack Mesa.
26.00	Begin abrupt descent over ledges,bears N.60°E.and S.60°W.
	Leave Bridger Jack Mesa.
30.00	Foot of ledges,480 ft.below mesa,bears N.70°E and SW.
	Continue descent.

Sub.T.32 S.,R.21 E.-Continued.

Chains

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 4 in W half and S 3 in E half;from which

A pinon pine,6 ins.dia.,bears N.87°30'E.,54 lks. dist..mkd.¼ S 3 B T.

A cedar,6 ins.dia.,bears N.87°30'W.,53 lks. dist.mkd. ¼ S 4 B T.

43.00 Bottom of canon,800 ft.below sec.cor.,course E.

Asc.

44.50 Top of spur,50 ft.above hollow,bears NE and SW.

Desc.

49.20 Bottom of hollow,40 ft.below ridge,course NE .

Asc.

54.00 Top of ridge,30 ft.above hollow,bears NE and SW.

Desc.

73.00 Bottomof hollow,75 ft.below ridge,course N.60°E.

Asc.

74.00 Begin more abrupt ascent over ledges,bears NE and SW.

80.12 The cor.of secs.3,4,9,and 10.which is 26 lks.S.of the witness cor.

Land,rolling and mountainous .

Soil,sandy and rocky very shallow,underlaid by solid sandstone formation.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,80.12 chs.

June 15,1911.

Eric H. Anderson

U.S.Transitman .

Chains	
	June 13,1911:At 8 h 0 a.m.,l.m.t.,I set off 37 °59'N., on the lat.arc;23°11'N.,on the decl.arc;and determine a meridian,with the solat,at the cor.of secs.4,5,32,and 33 on S.bdy.of Tp., heretofore described. Thence I run N.0°3'W.,bet.secs.32 and 33.
	Over mountainous land;through heavy timber and scattering sage brush.
	Asc.abruptly over ledges and boulders .
5.70	Top of ledge,20 ft.high,and edge of mesa,20 ft.above sec. cor.,bears N.30°W.and S.30°E.
12.50	Top of same ledge,20 ft.high,bears N.30°E.and S.30°W.
	Leave mesa,bears same.
	Desc.over ledges and boulders.
34.40	Bottom of hollow,300ft.below mesa,course W.
38.00	Top of ridge,40 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 32 in W half and S 33 in E half;from which
	A pinon pine,7 ins.dia.,bears N.44°E.,98 lks. dist..mkd.¼ S 33 B T.
	A pinon pine,14 ins.dia.,bears N.54°30'W.,27 lks dist..mkd.¼ S 32 B T.
43.00	Foot of descent,enter bottom of cottonwood canon,bears N.30°E.and S.50°W.
	Leave timber and enter dense undergrowth,bears N.30°E. and S.30°W.
69.70	South edge of Cottonwood wash,bank 20 ft.high,bears N.60° E.and S.60°W.
72.10	Cotton wood Creek,20 lks.wide,8 ins.deep,rapid current course N.60°E.
74.40	North bank of Cottonwood wash,20 ft.high,bears N.60°E. and SW.
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 T 32 S S 29 in NW.

Chains

R 21 E 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 rolling .

Soil,sandy and clay loam about 2 to 3 ft.deep.Clay subsoil.

Timber,cedar and pinon pine.

Undergrowth,sage brush and greasewood very dense and high

Good grass for grazing.

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

June 13,1911:At this cor.I set off 23°12'N.,on the decl. arc;and at 11 h 59 m a.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°00'N.,which is the proper lat.nearly.

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

40.00 Set temp.¼ sec.cor.

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

Thence I run

S.89°59'W.,on a true line bet.secs.28 and 33.

Over mountainous land;through heavy timber. Desc.

1.00 Bottom of hollow, 20 ft.below sec.cor.,course N.30°E. Ascend.

5.00 Top of steep ascent and east edge of rolling mesa, bears NE and SW.

Asc.gently.

20.00 Enter dense undergrowth,bears N.and S.

39.99 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 28 in N half and S 33 in S half;from which

A cedar,8 ins.dia.,bears N.45°30'W.,104 lks. dist..mkd.¼ S 28 B T.

A pinon pine,6 ins.dia.,bears S.66E.,106 lks.

Chains	
	mtd.¼ S 33 B T.
54.10	West edge of mesa,150 ft.above east edge,bears N.30°E.and S.30°W.
	Desc.abrupt over ledges and boulders.
65.60	Trail bears N.30°E.and S.30°W.
	Leave timber and enter dense sage and greasewood 8 ft. high.
	Enter botton of Cottonwood canon.,bears same
69.20	Cottonwood creek,20 lks.wide,8 ins.deep,200 ft.below mesa,in wash,100 lks.wide,20 ft.deep,course N.30°E.
	Asc.gently.
79.98	The cor.of secs.28,29,32,and 32.
	Land,rolling and mountainous .
	Soil,sandy and clay loam;from 2 to 20 ft.deep,subsoil is solid sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,greasewoods and sage brush very high and dense.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.98 chs.
	June 13,1911.
	June 15,1911:At8 h 1 m a.m.,l.m.t.,I set off 38°00' N. on the lat.arc;23°18'N.,on the decl.arc;and determine a meridian,with the solar,at the cor.of secs.28,29,32,and 33.
	Thence I run
	N.0°03'W.,bet.secs.28 and 29.
	Over rolling land;through dense undergrowth in bottom of Cottonwood canon.
	Asc.
1.50	Wagon road,bears N.30°E.and S.30°W.
3.60	Wash,12 lks.wide,8 ft.deep,course N.60°E.

Sub.T.32 S.,R.21 E.-Continued;

Chains	
6.00	Leave Cottonwood canon,bears N.30°E.and W.
	Enter heavy timber,bears same.
	Leave dense and enter scattering undergrowth,bears same.
10.10	Top of ridge,40 ft.above canon,bears N.and W.
	Desc.
15.80	Wash,10 lks.wide,3 ft.deep,in botton of hollow,40 ft. below ridge,course NE.
	Asc.
33.00	Top of ridge,150 ft.above hollow,bears E.and W.
	Desc.
33.10	Point of ledges,40 ft.high,bears NW and SW.
	Desc.abruptly.
40.00	Set an iron post,3 ft.long,1 in. n 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;from which
	A pinon pine,6 ins.dia.,bears N.35°E.,28 lks. dist..mkd.¼ S 28 B T.
	A pinon pine,6 ins.dia.,bears S.28°30'W.,49 lks dist,.mkd.¼ S 29 B T.
47.00	Bottom of hollow,300 ft.below ridge,course S.80°E.
	Asc.abruptly over ledges and boulders.
54.60	Top of ledge,50 ft.high,bears N.70°W.and S.70°E.
	Asc.gently over rolling mesa,bears same.
66.10	Trail,bears N.60°E.and S.60°W.
68.00	Leave mesa,begin ascent,bears N.45°E.and S.45°W.
	Leave heavy and enter scattering timber,bears NE and SW.
70.40	Top of ridge,70 ft.above mesa,bears N.80°W.and S.80°E.
	Desc.
73.90	Bottom of hollow,30 ft.below ridge,course S.80°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 32 S S 20 in NW.
	R 21 E S 21 in NE.
	S 28 in SE.;and
	S 29 in SW.quadrants;from which

Chains	
	A cedar,8 ins.dia.,bears N.67°E.,69 lks.
	dist..mkd.T 32 S R 21 E S 21 B T.
	A cedar,8 ins.dia.,bears S.83°15'E.,56 lks.
	dist..mkd.T 32 S R 21 E S 28 B T.
	A cedar,5 ins.dia.,bears S.26°30'W.,45 lks.
	dist..mkd.T 32 S R 21 E S 29 B T.
	A cedar,6 ins.dia.,bears N.65°30'W.,172 lks.
	dist..mkd.T 32 S R 21 E S 20 B T.
	Land,rolling and mountainous.
	Soil,sandy and clay loam about 1 ft.deep,2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage and greasewood.
	Good grass for grazing.
	Mountainous or heavily timbered landl,or land covered with dense undergrowth,80.00 chs.
	June,15,1911:At this cor..I set off 23°18'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 38°01'N.,which is the proper lat.nearly.

	N.89°59'E.,on a random line bet.secs.21 and 28.
40.00	Set temp.¼ sec.cor.
79.90	Intersect N.and S.line,2 lks.N.of the cor.of secs.21,22, 27,and 28.
	Thence I run
	West,on a true line bet.secs.21 and 28.
	Over rolling mesa;through heavy timber and scattering undergrowth.
	Desc.gently.
8.00	Ledge,20 ft.high,bears N.20°E.and S.20°W..
	Desc.abruptlyover ledges and boulders.
13.40	Bottom of hollow,200 ft.below mesa,course N.
	Leave ledges and boulders,
	Asc.
17.60	Top of ridge,60 ft.above hollow,bears N.20°W.and S.20°E.
	Desc.

Sub.T.32 S.,R.21 E.-Continued.

Chains.

21.50 Leave heavy timber and enter dense undergrowth,bears NE and SW.

22.00 Foot of abrupt descent,bears NE and SW.

Enter Cottonwood canon.

32.00 Cottonwood creek,16 lks.wide,6 ins.in deep,in wash,10 ft. deep,100 lks.wide,course NE.

Asc.gently.

34.25 Irrigation ditch,6 lks.wide,3 ins.deep,for Wilson or Weller ranch,course N.

37.65 Wagon road,bears N.30°E.and S.30°W.

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 21 in N half and S 28 in S half;from which

A cedar,14 ins.dia.,bears N.0°30'E.,28 lks. dist.mkd.¼ S 21 B T.

A cedar,8 ins.dia.,bears S.40°W.,44 lks. dist.mkd.¼ S 28 B T.

40.10 Leave canon,bears N.50°E.and S.50°W.

Leave dense undergrowth and enter heavy timber,bears N.50°E.and S.50°W.

Asc.over ledges and boulders.

43.60 Top of ridge,30 ft.above canon,bears N.and S.

Desc.

48.00 Bottom of hollow,20 ft.below spur,course SE.

Asc.

53.90 Point from which the ruins of an old Cliff Dweller's house bears N.150 lks.dist.

54.00 Top of ledge,60 ft.high,and edge of mesa,250 ft.above canon,bears N.and S.

Asc.gently.

56.40 Trail,bears N.and S.

62.75 Begin steep ascent,bears N.10°E.and SW.

Leave mesa.

65.70 Top of ridge,60 ft.above mesa,bears N.and S.

Desc.

67.50 Bottom of hollow,40 ft.below ridge,course S.30°E.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	Asc.
75.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
79.90	The cor.of secs,20,21,28,and 29.
	Land,mountainous and rolling.
	Soil,sandy and clay-loam about 2 ft.deep,subsoil,rock.
	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,79.90 chs.
	June 15,1911.

June 16,1911:At 8 h.1 m a.m.,l.m.t.,I set off 38°01' N.,on the lat.arc; 23°21'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 scattering undergrowth.

Asc.abruptly over ledges and boulders.

10.00	Foot of sloping sandstone ledge of canon wall,300 ft.high bears N.40°E.and SW.
11.60	Top of ledge,and edge of Bridger Jack mesa,600 ft.above sec.cor.,bears N.40°E.and S.W.
	Asc.gently.
14.60	Top of ridge,30 ft.above ledge,bears N.45°E.and S.80°W.
	Desc.gently.
28.50	Ledge,20 ft.high,bears NE and SW.
	Desc.abruptly.
31.90	Top of sloping ledge,300 ft.high,bears E.and W.
	Desc.over ledges. from Bridger Jack Mesa.
34.00	Foot of ledge,300 ft.high,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

Sub.T.32 S.,R 21 E.-Continued.

Chains	
	half;from which
	A pinon pine,8 ins.dia.,bears N.62°E.,51 lks. dist..mkd.T S 21 B T.
	A pinon pine,5 ins.dia.,bears N.71°50'W.,15.1ks dist..mkd.T S 20 B T.
49.30	Begin abrupt descent,bears SW.and SE.
56.00	Bottom of canon,800 ft.below mesa,course N.30°E.
	Asc.
59.20	Top of ridge,75 ftlabove hollow,bears E.and W.
	Desc.
64.00	Bottom of canon,80 ft.below ridge,course S.85°E.,
	Asc.abruptly.
72.60	Begin abrupt ascent over ledges,bears NE and SW.
77.00	Top of ledge,of canon wall,300 ft.high,edge of Bridger Jack mesa,bears NE and SW.
	Asc.gently.
80.00	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for ofssec.16,17,20,and 21,mkd.on brass cap
	T 32 S S 17 in NW.
	R 21 E S 16 in NE.
	S 21 in SE.;and
	S 20 in SW.quadrants;from which
	A pinon pine,10 ins.dia.,bears N.52°E.,65 lks. dist..mkd.T 32 S R 21 E S 16 B T.
	A pinon pine,6 ins.dia.,bears S.45°30'E.,88 lks dist..mkd.T 32 S R 21 E S 21 BT.
	A pinon pine,12 ins.dia.,bears S.39°W.,74 lks. dist..mkd.T 32 S R 21 E S 20 B T.
	A pinon pine,8 ins.dia.,bears N.55°W.,76 lks. dist..mkd.T 32 S R 21 E S 17 B T.
	Land,mountainous and rolling .
	Soil,sandy and rocky 3rd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	June 16,1911:At this cor.I set off 23°21'N.,on the decl.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	and at 0 h 0 m p.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.16 and 21.
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line,2 lks.N.of the cor.of secs.15,16, 21,and 22.
	Thence N.89°59'W.,on a true line bet.secs.16 and 21.
	Over rolling mesa land;through scattering timber and dense undergrowth.
	Asc.gently.
8.00	Leave mesa,bears N.20°W.and S.20°E.
10.00	Top of ridge,20 ft.above cor.,bears N.20°W.and S.20°E.
	Desc.gently.
16.60	Begin.abrupt descent,bears N.70°W.and S.70°E.
17.25	Bottom of hollow,30 ft.below ridge,course S.70°E.
	Asc.
20.50	Top of ridge,40 ft.above hollow,bears NW and SE.
	Desc.gently.
25.50	Bottom of hollow,20 ft.below ridge,course SE.
	Asc.gently.
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 16 in N half and S 21 in S half;from which
	A pinon pine,14 ins.dia.,bears N.76°45'W.,40 lks.dist..mkd.¼ S 16 B T.
	A pinon pine,10 ins.dia.,bears S.13°E.,61 lks. dist..mkd.¼ S 21 B T.
45.00	Top of ridge,50 ft.above hollow,bears NW and S.10°E.
	Desc.
47.30	Bottom of hollow,24 ft.below ridge,course S.10°E.
	Asc.abruptly over sand boulders.
55.60	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
57.90	Bottom of hollow,75 ft.below ridge,course S.20°E.

Chains

Asc.

71.00 Begin abrupt ascent over ledges,bears NE and SW.

77.50 Top of ledge of canon wall 300 ft.high,bears N.20°E.and SW. Edge of Bridger Jack Mesa.

Asc.gently.

79.98 The cor.of secs.16,17,20,and 21.

Land,mountainous and rolling .

Soil,sandy and rocky about 1 ft.deep,subsoilrock.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Mountainous or land covered with dense undergrowth

79.98 chs.

June 16,1911.

June 17,1911:At 8 h 0 m a.m.,l.m.t.,I set off 38°32'N., on the lat arc;23°23'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.20,21,16,and 17.

Thence I run

N.0°03'W.,bet.secs.16 and 17.

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

Asc.abruptly over ledges.

2.00 Top of ledge,80 ft.high,bears E.and W.

Desc.gently.

11.75 Head of hollow,20 ft.below ledge,course E.

Asc.gently.

22.00 Top of ridge,50 ft.above hollow,bears E.and W.

Desc.gently.

32.50 Wash,10 lks.wide,2 ft.deep,course NE.

Enter scattering and leave heavy timber,bears NE and SW.

Enter flat,bears NE and SW.

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 17 in T half and S 16 in S half;from which

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	A pinon pine,14 ins.dia.,bears N.41°15'E.,320 lks. dist..mkd.+ S 16 B T.
	A pinon pine,8 ins.dia.,bears N.25°30'W.,229 lks. dist..mkd.+ S 17 B T.
47.00	Leave scattering and enter heavy timber,bears NE and SW.
	Leave flat,bears NE and SW.
	Asc.
57.50	Top of ridge,50 ft.above flat,bears E.and WS.
	Desc.
73.25	Head of hollow, 30 ft.below ridge,course E.
	Asc.
74.80	Trail,bears NW and SE.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.8,9,16,and 17,mkd.on brass cap
	T 32 S S 8 in NW.
	R 21 E S 9 in NE.
	S 16 in SE.;and
	S 17 in SW.quadrants;from which
	A pinon pine,8 ins.dia.,bears N.69°30'E.,72 lks dist..mkd.T 32 S R 21 E S 9 B T.
	A pinon pine,12 ins.dia.,bears S.40°E.,85 lks. dist..mkd.T 32 S R 21 E S 16 B T.
	A pinon pine,8 ins.dia.,bears S.6°W.,12 lks. dist..mkd.T 32 S R 21 E S 17 B T.
	A pinon pine,10 ins.dia.,bears N.25°W.,87 lks. dist..mkd.T 32 S R 21 E S 8 B T.
	Land,mountainous and rolling.
	Soil,sandy loam about 2 ft.deep.2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	June 17,1911:At this cor.I set off 23°23'N.,on the decl. arc;and at 0 h 1 m p.m.,l.m.t.,I observe the sun on the meridaian,the resulting lat.is 38°03'N.,which is the

Sub.T.32 S.,R.21 E.-Continued.

Chains proper lat.nearly.

S.89°59'E.,on a random line bet.secs.9 and 16.

40.00 Set temp.¼ sec.cor.

79.90 Intersect N.and S.line,2 lks.S.of the cor.of secs.9,10,15 and 16.

Thence I run

West,on a true line bet.secs.9 and 16.

Over rolling land;through heavy timber.

Asc.gently.

10.10 Head of hollow,20 ft.above sec.cor.,course N.

Desc.gently

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 9 in N half and S 16 in S half;from which

A pinon pine,5 ins.dia.,bears N.60°30'E.,41 lks dist..mkd.¼ S 9 B T.

A pedar,12 ins.dia.,bears S.46°E.,36 lks. dist..mkd.¼ S 16 B T.

Note:The corrals at Dugout ranch,bears N.32°30'E.,about 4 miles away.

41.40 Head of hollow,150 ft.deep,course N.20°E.

Asc.

45.00 Wash,20 lks.wide,3 ft.deep,course NE.

52.40 Trail,bears N.and S.

60.00 Leave mesa,and begin asent,bears N.and S.

64.30 East edge of flat ridge,150 ft.above mesa,bears N.and S.

78.40 West edge of flat ridge bears NW and S.

Desc.

79.90 The cor.of secs.8,9,16,and 17.

Land,rolling and mountainous

Soil,sandy loam;2nd rate.subsoil,rock.

Timber,cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land,79.90 chs.

June 17,1911.

Chains	
	June 19,1911:At 8 h 0 m a.m.,l.m.t.,I set off 38°03'N.,on the lat.arc;23°26'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.sec.8 and 9.
	Over rolling mountain mesa land;through heavy timber.
	Asc.
2.50	South edge of flat ridge,bears N.20°W.and S.20°E.
3.80	North edge of same ridge,bears N.40°E.and S.20°W.
	Desc.over ledges.
11.00	Bottom of steep descent,bears N. and SW.
15.00	Wash,10 lks.wide,3 ft.deep,course NW.
16.90	Wash,10 lks.wide,3 ft.deep,course NW.
35.70	Begin abrupt descent,over ledges,bears E.and W.
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 8 in W half;and S 9 in E half;from which
	A pinon pine,8 ins.dia.,bears S.86°E.,40 lks. dist..mkd.¼ S 9 B T.
	A pinon pine,6 ins.dia.,bears S.60°W.,38 lks. dist..mkd.¼ S 8 B T.
51.10	Edge of Bridger Jack Mesa,top of ledge or canon wall 250 ft.high,bears N. and SW.
	Leave mesa,bears same .
	Desc.over ledges.
59.00	Bottom of canon,600 ft.below ledge,course N.20°E.
	Asc.
66.00	Top of ridge,100 ft.above canon,bears E.and W.
	Desc.
69.50	Bottom of hollow,50 ft.below ridge,course E.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the

Sub.T.32 S.,R.21 E.-Continued.

Chains ground,for cor.of secs.4,5,8,and 9,mkd.on brass cap

T 32 S S 5 in NW.

R 21 E S 4 in NE.

S 9 in SE.;and

S 8 in SW.quadrants;from which

A pinon pine,6 ins.dia.,bears N.53°45'E.,133 lks.

dist..mkd.T 32 S R 21 E S 4 B T.

A pinon pine,8 ins.dia.,bears S.35°30'E.,63 lks

dist..mkd.T 32 S R 21 E S 9 B T.

A red sandstone boulder 12x10x6 ft.above ground

bears S.6°15'W.,14 lks.dist.mkd.(x)BO S 8 .

A cedar,3 ins.dia.,bears N.33°30'W.,29 lks.

dist..mkd.T 32 S R 21 E S 5 B T.

Land,mountainous and rolling .

Soil,sandy from 1 to 3 ft.deep,underlaid with a solid sandstone formation.

Timber,cedar and pinon pine.

Good grass .

Mountainous or heavily timbered land,80.00 chs.

East,on a random line bet.secs.4 and 9.

40.00 Set temp.¼ sec.cor.

79.96 Intersect N.and S.line,5 lks.N.of the point for cor.o of secs.3,4,9,and 10,which is 26 lks.S.of the witness cor.

Thence I run

N.89°58'W.,on a true line bet.secs.4 and 9.

Over mountainous land;through heavy timber.

Asc.abruptly over sandstone boulders and ledges.

20.00 Top of almost vertical ledge of canon wall,400 ft.high, 600 ft.above sec.cor.,edge of Bridger Jack mesa,bears N.10°E.and S.10°W.

Asc.over smooth ledges.

39.90 Top of ledge,20 ft.high,bears NE and S.20°W.

39.98 Set an iron post,3 ft.long,1 in.in dia.,14 ins.in the

Sub.T.32 S.,R.21 E.-Continued.

Chains ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ½ S 4 in N half and S 9 in S half;from which

A pinon pine,4 ins.dia.,bears N.59°30'E.,65 lks dist..mkd.¼ S 4 B T.

A pinon pine,5 ins.dia.,bears S.46°30'W.,70 lks dist..mkd.¼ S 9 B T.

50.00 Trail,bears N.and S.

Top of ridge,on Bridger Jack mesa,800 ft.above sec.cor., bears N.and S.

Desc.

53.00 Begin more abrupt descent,bears N.and S.

58.00 Top of sloping ledge of canon wall,300 ft.high,bears N.20° E.and S.20°W.

Edge of Bridger Jack mesa,bears same.

Desc.over ledges.

69.00 Bottom of canon,800 ft.below mesa,course N.20°E.

Asc.over ledges and boulders.

79.96 The cor.of secs.4,5,8,and 9.

Land,mountainous and rolling.

Soil,sandy from 1 to 2 ft.deep,on solid sandstone.

Timber,cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land,79.96 chs.

June 19,1911:At this cor.I set off 23°26'N.,on the decl. arc;and at 0 h 1 m pm.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°04'N.,which is the proper lat.nearly.

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

40.00 Set temp.¼ sec.cor.

80.22 Intersect N.bdy.of Tp.,19 lks.S.89°58'W.,of the cor.of secs.4,5,32,and 33,heretofore described.

Thence I run

S.0°05'W.,on a true line bet.secs.4 and 5.

Over mountainous land;through scattering timber and

Sub.T.32 S.,R.21 E.-Continued.

Chains

scattering undergrowth.

Desc.

1.00 Bottom of hollow,10 ft.below sec.cor.,course N.60°W.

Asc.

3.75 Top of ridge,30 ft.above holow,bears E.and W.

Desc.

4.40 Bottom of hollow,20 ft.below ridge,course W.

Asc.

6.50 Top of ridge,20 ft.above hollow,bears NE.and SW.

Desc.

11.30 Head of hollow,40 ft.below ridge,course E.

Asc.

12.70 Trail,bears E.and NW.

15.00 Top of ridge,20 ft.above hollow,bears NE and SW.

Desc.

17.00 Bottom of hollow,20 ft.below ridge,course NE.

Asc.abruptly.

31.00 Top of abrupt ascent,bears N.80°E.and S.80°W.

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 5 in W half and S 4 in E half;from which

A pinon pine,7 ins.dia.,bears S.39°30'E.,86 lks. dist..mkd.¼ S 4 B T.

A pinon pine,4 ins.dia.,bears N.27°W.,21 lks. dist..mkd.¼ S 5 B T.

50.00 Top of ridge,250 ft.above hollow,bears E.and W.

Desc.

51.20 Head of hollow,40 ft.below ridge,course S.80°E.

Asc.

55.35 Top of ridge,40 ft.above hollow,bears E.and W.

Desc.

64.00 Bottom of canon,200 ft.below ridge,course E.

Asc.abruptly.

77.00 Top of ridge,250 ft.above canon,bears E.and W.

Desc.

80.22 The cor.of secs.4,5,8,and 9.

Sub.T.32 S.,R.21 E.-Continued.

Chains

Land,rough and mountainous.

Soil,sandy loam about 1 ft.deep,on solid rock.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous xxxxxxxxxxxxxxxxxxxxxxxxxx80.22 chs.

June 19,1911.

Scott P. Stewart
U.S.Transitman.

June 16,1911.At 8 h 1 m a.m.,l.m.t.,I set off 38°59'N.,on the lat.arc;23°21'W.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.5,6,31,and 32, on the S.bdy.of Tp.,heretofore described.

Thence I run

N.0°3'W.,bet.secs.31 and 32.

Over mountainous land;through scattering timber and dense undergrowth in bottom of Steven's canon.

Asc.gently.

2.50 Leave canon,begin abrupt ascent over ledges,bears E.and W.

Leave scattering and enrter heavy timber,bears E.and W.

Leave dense and enter scattering undergrowth,bears same

14.40 Top of abrupt ascent,400 ft.above canon,bears E.and W.

Leave ledges.

Asc.over rolling mesa.

38.00 Top of ridge,30 ft.high,bears E.and W.

Desc.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 31 in W half and S 32 in E half;from which

A pinon pine,8 ins.dia.,bears S.38°E.,23 lks. dist..mkd.¼ S. 32 B T.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	A cedar,12 ins.dia.,bears S.16°W.,59 lks. dist..mkd. S 31 B T.
45.60	Head of hollow,30 ft.deep,course N.80°E.
	Desc.gently.
68.70	North edge of mesa,bears E.and W.
	Desc.over ledges.
75.00	Trail,bears E.and SW.
76.00	Bottom of canon,200 ft.below mesa,course N.80°E.
	Asc.
80.00	Point 50 ft.above hollow.
	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 21 E S 29 in NE.
	S 32 in SE.;and
	S 31 in SW.quadrants;from which
	A pinon pine,7 ins.dia.,bears N.53°50'E.,51 lks. dist..mkd.T 32 S R 21 E S 29 B T.
	A pinon pine,5 ins.dia.,bears S.61°E.,42 lks. dist..mkd.T 32 S R 21 E S 32 B T.
	A pinon pine,6 ins.dia.,bears S.76°W.,21 lks. dist..mkd.T 32 S R 21 E S 31 B T.
	A pinon pine,8 ins.dia.,bears N.64°30'W.,26 lks. dist..mkd.T 32 S R 21 E S 30 B T.
	Land,mountainous and rolling .
	Soil,sandy .2nd rate.from 1 to 3 ft.deep,Subsoil,sandstone
	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.
	June 16,1911:At t is cor.I set off 25°21'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 38°00'N.,which is the proper lat.nearly.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	East,on a random line bet.secs.29 and 32.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,at the cor.of secs.28,29,32,and 33.
	Thence I run
	West,on a true line bet.secs.29 and 32.
	Over mountainous land;through dense undergrowth.in bottom of cottonwood canon.
	Asc.
1.60	Wagon road,bears N.20°E.and S.20°W.
4.60	Leave canon bottom,bears N.20°E.and S.20°W.
	Begin ascent onver ledges and boulders,bears same .
	Leave dense undergrowth,and enter heavy timber and scattering undergrowth,bears same.
18.00	Top of ridge,300 ft.above canon,bears NE and SW.
	Desc.
23.00	Head of hollow,30 ft.below ridge,course N.20°E.
	Asc.
26.00	Top of ridge,60 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
36.80	Bottom of hollow,50 ft.below ridge,course N.
	Asc.
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 29 in N half and S 32 in S half;from which
	A pinon pine,7 ins.dia.,bears N.25°30'E.,41 lks. dist..mkd.¼ S 29 B T.
	A pinon pine,8 ins.dia.,bears S.1°W.,21 lks. dist..mkd.¼ S 32 B T.
51.80	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
60.00	Trail,bears NE and SW.
60.80	Bottom of hollow,80 ft.below ridge,course N.
	Asc.
61.50	Top of spur,30 ft.above hollow,bears N.and S.
	Desc.
63.50	Bottom of hollow,100 ft.below ridge,course NE.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	[illegible] below [illegible]
	Asc.
80.00	The cor.of secs.29,30,31,and 32,200 ft.above canon.
	Land,rolling amd mountainous .
	Soil,sandy and rocky;2nd and 4th rate.from 2 ft. to 40 ft.
	deep,on solid sandstone.
	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.
	June 16,1911.
	June 17,1911:At 8 h 1 m a.m.,l.m.t.,I set off 38°00'N.,
	on thelat.arc;23°23'N.,on the decl.arc;anddetermine a
	meridian with the solar,at the cor.of secs.29,30,31,and
	32.
	Thence I run
	West,on a random line bet.sec .30 and 31.
40.00	Set temp.½ sec.cor.
78.20	Intersect W.bdy.of Tp.2 lks.S.of the cor.of secs.25,30,31,a
	36,heretofore described.
	Thence I run
	S.89°59'E.,on a true line bet.secs.30 and 31.
	Over mountainous land;through heavy timber .
	Asc.gently.
8.00	Begin abrupt ascent over ledge,bears N.and S.
21.40	Top of ledge of canon wall 300 ft.high,800 ft.above sec.co
	bears N.and SW.
	West edge of Bridger Jack mesa.
	Asc.gently.
25.00	Top of ridge,30 ft.above ledge,bears N.and S. Desc.
29.00	Trail,bears N.and S.
38.20	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the grou

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	for ¼ sec.cor.,mkd.on brass cap ¼ S 30 in N half and S 31 in S half;from which
	A pinon pine, 6 ins.dia.,bears N.10°30'E.,41 lks. dist..mkd.¼ S 30 B T.
	A pinon pine,7 ins.dia.,bears S.26°W.,45 lks. dist..mkd.¼ S 31 B T.
39.00	East edge of Bridger Jack Mesa,top of ledge of canon wall. 300 ft.high,bears N.and S.
	Desc.abruptly over ledges.
50.00	Head of canon,500 ft.below mesa,course N.20°E.
	Asc.
53.20	Top of ridge,100 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
57.30	Bottom of hollow,100 ft.below ridge,course N.20°E.
	Asc.
59.00	Top of ridge,60 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
67.10	Trail,bears NE and SW.
68.20	Ledge,20 ft.high,bears N.60°E.and S.60°W.
78.20	The cor.of secs.29,30,31,and 32.900 ft.below mesa.
	Land,mountainous and rolling .
	Soil,sandy loam;1 ft.deep.subsoil,sandstone.
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Mountainous or heavily timbered land,78.20 chs.
	June 17,1911:At this cor.I set off 23°23'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 38°00'N.,which is the proper lat.nearly.

	N.0°03'W.,bet.secs.29 and 30.
	Over mountainous land;through heavy timber.
	Asc.over ledges.
1.35	Wash,40 lks.wide,3 ft.deep,course E.
4.00	Top of steep ascent,and edge of flat ridge,bears N.70°E. and S.70°W.

Sub.T.32 S.,R.21 E.-Continued.

Chains

8.60 North edge of ridge,bears NW and SE.

Desc.abruptly over ledges.

12.00 Bottom of canon,200 ft.below ridge,course S.70°E.

Asc.over ledges.

15.40 Top of abrupt ascent,leave ledges,bears E.and W.

18.20 Trail,bears E.and W.

24.25 Wash,40 lks.wide,10 ft.deep,course SE.

30.00 Top of ridge,300 ft.above hollow,bears NW and SE.

Desc.

34.80 Bottom of hollow,50 ft.below ridge,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 30 in W half and S 29 in E half;from which

A cedar,12 ins.dia.,bears N.40°30'E.,123 lks. dist..mkd.¼ S 29 B T.

A cedar,8 ins.dia.,bears N.80°W.,137 lks. dist..mkd.¼ S 30 B T.

Asc.over ledges.

47.00 Vertical ledge or canon wall,300 ft.high,bears E.and W.

48.10 Top of series of ledges and edge of Bridger Jack mesa,600 ft.above ¼ sec.cor.,bears E.and W.

Asc.gently.

52.00 Top of ridge,40 ft.above ledges,bears E.and W.

Desc.

74.00 Begin more abrupt descent,bears E.and W.

77.00 Foot of abrupt descent,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.19,20,29,and 30,mkd.on brass cap

T 32 S S 19 in NW.

R 21 E S 20 in NE.

S 29 in SE.;and

S 30 in SW.quadrants;from which

A pinon pine,4 ins.dia.,bears N.33°E.,58 lks. dist..mkd.T 32 S R 21 E S 20 B T.

A pinon pine,6 ins.dia.,bears S.28°E.,70 lks. dist..mkd.T 32 S R 21 E S 29 B T.

Sub.T.32 S.,R.21 E.-Continued.

Chains

A pinon pine,6 ins.dia.,bears S.45°W.,126 lks. dist..mkd.T 32 S R 21 E S 30 B T.

A pinon pine,5 ins.dia.,bears N.71°W.,141 lks. dist..mkd.T 32 S R 21 E S 19 B T.

Land,mountainous and rolling.

Soil,sandy and rocky;2nd and 4th rate.

Timber,cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

June 17,1911.

Eric H. Anderson

U.S.Transitman.

June 20,1911:At 8 h 1 m a.m.,l.m.t.,I set off 38°01'N., on the lat.arc;23°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

East,on a random line bet.secs.20 and 29.

40.00 Set temp. sec.cor.

79.86 Intersect N.and S.line,5 lks.S.of the cor.of secs.20,21, 28,and 29.

Thence I run

S.89°58'W.,on a true line bet.secs.20 and 29.

Over mountainous land;through scattering timber and scattering underprowth.

Asc.abruptly over ledges and boulders.

31.00 Enter heavy timber,bears NW and SW.

37.00 Top of ledge of canon wall.300 ft.high,bears N80°E.and S. 60°W.

Edge of Bridger Jack Mesa.

38.60 Top of ridge,700 ft.above sec.cor.,bears N.80°E.and S.60° W.

Desc.rently.

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

Sub.T.32 S.,R.21 E.-Continued.

Chains

ground,for ¼ sec.cor..mkd.on brass cap ¼ S 20 in N half and S 29 in S half;from which.

A pinon pine,6 ins.dia.,bears N.45°E.,27 lks. dist..mkd¼ S 20 B T.

A pinon pine,6 ins.dia.,bears S.50°E.,10 lks. dist..mkd.¼ S 29 B T.

47.80 Bottom of hollow,80 ft.below ridge,course N.

Asc.

61.00 Top of ridge,100 ft.above hollow,bears N.and S.

Desc.

75.20 Wash,10 lks.wide,3 ft.deep,course N.10°E.

Continue descent.

79.86 The cor.of secs.19,20,29,and 30.

Land,mountainous and rolling.

Soil,sandy and rocky 2md and 3th rate, from 1 to 4 ft. deep,underlaid by solid sandstone.

Timber,cedar and pinon pine.

Good grass for grazing.

Undergrowth,sage brush.

Mountainous or heavily timbered land,79.86 chs.

June 20,1911A;this cor.I set off 23°27'N.,on the decl. arc;and at 0 h 1 m p.m.,l.m.t.,I observe the sun onthe meridian the resulting lat,is 38°01'N ,which is the proper lat.nearly.

N.89°59'W.,on a random line bet.secs.19 and 30.

40.00 Set temp.¼ sec.cor.

79.14 Intersect W.bdy.of Tp.,2 lks.N.of the cor.of secs.19,24, 25,and 30, heretofore described.

Thence I run

East,on a true line bet.secs.19 and 30.

Over rolling mountainous land;through scattering undergro and heavy timber.

Desc.

14.00 Bottom of hollow,150 ft.below sec.cor.,course N.10°E.

Asc.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
14.50	Begin abrupt ascent over ledges,bears N.and S.
38.14	Falls on sloping ledge where cor.cannot be set therefore at
41.60	Top of ledge or canon,wall,400 ft.high,800 ft.above canon, bears N.and S. Edge of Bridger Jack mesa.
41.69	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 32 S R 21 E W C ¼ S 19 in N half and S 30 in S half; from which
	A pinon pine,8 ins.dia.,bears N.53°E.,37 lks. dist..mkd.W C ¼ S 19 B T.
	A pinon pine,10 ins.dia.bears S.61°E.,41 lks. dist..mkd.W C ¼ S 30 B T.
50.40	Trail,bears N.20°E.and S.20°W.
	Desc.gently.
66.60	Ledge,20 ft.high,bears N.10°E.and S.10°W.
	Desc.abruptly.
74.60	Head of hollow,100 ft.below ledge,course N.55°E.
	Asc.gently.
78.14	The cor.of secs.19,20,29,and 30.
	Land,mountainous and rolling .
	Soil,sandy loam and rocky;2nd and 4th rate.from 2 to 5 ft.deep,subsoil,sandstone.
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Mountainous or heavily timbered land,78.14 chs.

June 20,1911.

June 21,1911:At 8 h 01' a.m.,l.m.t.,I set off 38°01'N., on the lat.arc;23°28'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

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	N.0°03'W.,bet.secs.19 and 20.
	Over mountainous mesa land;through heavy timber and scattering sage brush
	Desc.
2.60	Bottom of hollow,20 ft.below sec.cor.,course NE.
	Asc.
16.50	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
20.50	Bottom of hollow,30 ft.below ridge,course E.
	Asc.
32.00	South edge of flat ridge,100 ft.above hollow,bears NE and SW.
36.70	North edge of ridge,bears E.and W.
	Desc.abruptly.
39.50	Bottom of hollow,30 ft.below ridge,course 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 19 in W half and S 20 in E half;from which
	A pinon pine,5 ins.india.,bears S.48°E.,193 lks. dist. mkd. ¼ S 20 B T.
	A cedar,8 ins.dia.,bears S.49°W.,48 lks.dist. mkd. ¼ S 19 B T.
Asc.abruptly over ledges.	
44.00	Top of abrupt ascent,70 ft.above hollow,bears E.and W.
	Asc.gently.
63.50	Leave heavy and enter scattering timber,bears E.and W.
	Enter dense undergrowth,bears E.and W.
68.00	Leave undergrowth and enter heavy timber,bears E.and W.
73.00	Top of ridge,200 ft.above hollow,bears N.30°E.and SW.
	Desc.gently.
80.00	Set an iron post,3 ft.long,2 ins.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 21 E S 17 in NE.
	S 20 in SE.;and
	S 19 in SW.quadrants;from which

Sub.T.32 S.,R.21 E.-Continued.

Chains

A pinon pine,6 ins.dia.,bears N.33°30'E.,59 lks. dist..mkd.T 32 S R 21 E S 17 B T.

A pinon pie,16 ins.dia.,bears S.12°15'E.,54 lks. dist..mkd.T 32 S R 21 E S 20 B T.

A pinon pine,12 ins.dia.,bears S.80°W.,144 lks. dist..mkd.T 32 S R 21 E S 19 B T.

A pinon pine,12 ins.dia.,bears N.55°45'W.,95 lks. dist..mkd.T 32 S R 21 E S 18 B T.

Land,mountainous and rolling.

Soil,sandy ;2 to 4 ft.deep,subsoil,rock.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass .

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

June 21,1911:At this cor.I set off23°28'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 38°02'N.,which is the proper lat.nearly.

N.89°58'E.,on a random line bet.secs.17 and 20.

40.00 Set temp.¼ sec.cor.

79.88 Intersect N.and S.line,12 lks.S.of the cor.of secs.16,17, 20,and 21.

Thence I run

S.89°53'W.,on a true line bet.secs.17 and 20.

Over mountainous mesa land;through heavy timber and scattering undergrowth.

Asc.abruptly.

3.50 Top of ledge,40 ft.high,100 ft.above sec.cor.,bears NE and S.

10.00 Ledge,10 ft.high,bears N.80°W.and S.45°E.

21.80 Same ledge,15 ft.high,bears N.70°E.and SW.

31.00 Trail,bears N.20°E.and S.20°W.

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

Sub.T.32 S.,R.21 E.-Continued.

Chains

ground, for ¼ sec.cor..mkd.on brass cap ¼ S 17 in N half and S 20 in S half; from which

A pinon pine, 6 ins.dia., bears N.20°30'E., 39 lks. dist..mkd.¼ S 17 B T.

A pinon pine, 8 ins.dia., bears S.4°30'E., 12 lks. dist..mkd.¼ S 20 B T.

44.00 Begin steeper ascent, bears N.and S.

63.00 Top of ridge, 300 ft.above sec.cor., bears N.and S.

Desc.

68.00 Leave heavy timber and enter dense undergrowth, bears N.and S.

73.00 Leave undergrowth and enter heavy timber, bears N.and S.

79.88 The cor.of secs.17,18,19,and 20.

Land, high rolling land;.

Soil, sandy loam very shallow.subsoil, rock.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.88 chs.

June 21, 1911.

June 22, 1911: At 8 h 1 m a.m., l.m.t., I set off 38°03'N., on the lat.arc; 23°28'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 random line bet.secs.18 and 19.

40.00 Set temp.¼ sec.cor.

78.00 Intersect W.bdy.of Tp., 7 lks.S.of the cor.of secs.13,18, 19,and 24, heretofore described.

Thence I run

S.89°57'E., on a true line bet.secs.18 and 19.

Over mountainous mesa land; through heavy timber.

Desc.gently.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
2.70	Ledge,20 ft.high,bears N.and S.
	Leave mesa,bears N.and S.
	Des.abruptly over ledges.
18.50	Foot of ledges,bears N.and S.
22.50	Bottom of Lavender canon,700 ft.below sec.cor.,course N.
	Asc.
23.65	Trail,bears N.and S.
24.50	Begin abrupt ascent over ledges,bears N.and S.
28.80	Top of ledge,50 ft.high,bears NE and SW.
38.00	Point for ¼ sec.cor falls on sloping ledge(Inaccessable.)
38.40	Set an iron post,3 ft.long,1 in.in dia.,15 ins.in the ground,on solid rock,and surrounded by mound of stone, for witness cor.to ¼ sec.cor..mkd.on brass cap T 32 S R 21 E W C ¼ S 18 in N half and S 19 in S half;from which
	A pinon pine,8 ins.dia.,bears N.35°E.,60 lks. dist..mkd.W C ¼ S 18 B T.
	A pinon pine,16 ins.dia.,bears S.10°W.,40 lks. dist..mkd.W C ¼ S 19 B T.
38.60	Top of ledges,and west edge of rolling mesa,bears N.and S.
	Asc.gently.
53.00	Leave mesa and ascend abruptly over ledges,bears N.20°E. and S.20°W.
70.00	Top of ledge,or canon wall 400 ft.high,1000 ft.above Lavender canon,edge of Bridger Jack mesa,bears N.20°E.and S.20°W.
	Asc.gently.
78.00	The cor.of secs.17,18,19,and 20.
	Land,mountainous and rolling .
	Soil,sandy loam;from 00 to 4 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Mountainous or heavily timbered land,78.00 chs.
	June 22,1911:At this cor.I set off 23°27'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 38°02'N.,which is the

Sub.T.32 S.,R.21 E.-Continued.

Chains proper lat.nearly.

N.0°03'W.,bet.secs.17 and 18.

Over rolling mesa land;through heavy timber and scattering undergrowth.

Desc.gently.

21.68 West edge of Bridger Jack Mesa,edge of ledge or canon wall 400 ft.high,bears N.20°E.and S.20°W.

Note:The ¼ sec.cor.will fall on precipitious ledges where it will be impossible to set cor.;therefore at this point, I 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 witness cor.to ¼ sec.cor.mkd.on brass cap T 32 S R 21 E in N half;W C ¼ S 18 in W half;and S 17 in E half; from which

A pinon pine,7 ins.dia.,bears N.82°30'E.,34 lks. dist..mkd.W C ¼ S 17 B T.

A pinon pine,10 ins.dia.,bears S.66°W.,37 lks. dist;.mkd.W C ¼ S 18 B T.

Desc.abruptly over ledges.

40.00 Falls in ledges not set.

63.00 Foot of ledges,and foot of abrupt descent,edge of rolling mesa,bears N.20°E.and S.20°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 32 S S 7 in NW.

R 21 E S 8 in NE.

S 17 in SE.;and

S 18 in SW.quadrants;from which

A pinon pine,8 ins.dia.,bears N.82°30'E.,43 lks. dist..mkd.T 32 S R 21 E S 8 B T.

A pinon pine,10 ins.dia.,bears S.53°E.,3 lks. dist..mkd.T 32 S R 21 E S 17 B T.

A pinon pine,8 ins.dia.,bears S.21°15'W.,43 lks. dist..mkd.T 32 S R 21 E S 18 B T.

A pinon pine,5 ins.dia.,bears N.17°30'W.,78 lks.

Chains	dist..mkd.T 32 S R 21 E S 7 B T.
	Land,mountainous and rolling mesa.
	Soil,sandy loam and rocky;2nd and 4th rate. subsoil,rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	June 22,1911.

	June 23,1911.At 8 h 2 m a.m.,l.m.t.,I set off 38°03'N., on the lat.arc;23°28'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.7,8,17,and 18.
	Thence I run
	N.89°53'E.,on a random line bet.secs.8 and 17.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,5 lks.N.of the cor.of secs.8,9, 16,and 17.
	Thence I run
	S.89°55'W.,on a true line bet.secs.8 and 17.
	Over mountainous mesa land;through heavy timber and scattering undergrowth .
	Desc.abruptly.
5.00	Foot of steep descent,bears N.10°W.and S.10°E.
	Wash,20 lks.wide,6 ft.deep,course N.10°W.
18.00	Begin abrupt descent over ledges,bears N.20°E.and S.20°W.
19.90	Botom of hollow,200 ft.below cor.,course N.20°E.
	Asc.
21.00	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
30.40	Bottom of canon,80 ft.below ridge,course N.30°E.
	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 8 in N half and S 17 in S half;from which
	A pinon pine,8 ins.dia.,bears N.8°W.,29 lks.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	dist.mkd. S B B T.
	A pinon pine,8 ins.dia.,bears S.39°W.,24 lks.
	dist..mkd. S 17 B T.
42.60	Leave ledges,bears N.30°E.and S.30°W.
	Asc.gently.
59.00	Top of ridge,200 ft.above canon,bears N.and S.
	Desc.
60.10	Ledge,30 ft.high,bears N.and S.
62.50	Top of ledge of canon wall 350 ft.high,west edge of Bridge
	Jack,mesa desc abruptly over ledges,bears N.and S.
73.00	Foot of abrupt descent,bears N.and S.
	Leave ledges,bears same.
	Desc.gently over mesa.
80.00	T e cor.of secs.7,8,17,and 18.
	Land,mountainous and rolling .
	Soil,sandy and gravelly ;from 1 to 3 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous or heavily timbered land,80.00 chs.
	June 23,1911At the noon hour the sky is overcast and solar observations are impossible.

	N.89°57'W.,on a random line bet.secs.7 and 18.
40.00	Set temp. sec.cor.
77.88	Intersect W.bdy.of Tp.,2 lks.N.of the cor.of.secs.7,12, 13.and 18, heretofore described.
	Thence I run
	S.89°58'E.,on a true line bet.secs.7 and 18.
	Over mountainous land;through heavy timber .
	Asc.gently.
3.40	Ledge 30 ft.high,bears NE and SW.
	Asc.over ledges.
17.00	Top of ridge,300 ft.above sec.cor.,bears N.20°E.and SW.

Chains	
	Desc.
19.00	Top of ledge,60 ft.high,bears NE and SW.
29.20	Top of ledge,45 ft.high,bears NE and SW.
32.00	Top of ledge,25 ft.high,bears N.and SW.
37.00	Top of ledge,25 ft.high,bears N.30°E.and SE.
37.88	Point for ¼ sec.cor.falls on sloping ledge,cor.cannot be set ;therefore at
40.00	Bottom of Lavender canon,600 ft.below ridge,course N.
	Asc.
40.65	Nearest safe ground for ¼ sec.cor.
	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 32 S R 21 E W C ¼ S 7 in N half;and S 18 in S half;from which
	A cedar,12 ins.dia.,bears N.6°W.,19 lks. dist..mkd.¼ S 7 B T W C .
	A pinon,12 ins.dia.,bears S.70°30'E.,292 lks. dist..mkd.W C ¼ S 18 B T.
42.65	Trail,bears N.and S.
44.60	Ledge,20 ft.high,bears N.and S.
47.70	Top of ridge,100 ft.above canon,bears NE and SE.
	Desc.
48.20	Bottom of hollow,30 ft.below ridge,course N.20°W.
	Asc.
49.50	Trail,bears N.20°E.and S.20°W.
52.00	Begin abrupt ascent over ledges,bears N.and S.
55.00	Ledge 30 ft.high,bears N.and S.
62.90	Ledge,40 ft.high,bears N.and S.
66.00	Top of ledge,20 ft.high,and edge of rolling mesa,700 ft. above Lavender canon,bears N.and S.
	Asc.gently.
77.88	The cor.of secs.7,8,17,and 18.
	Land,mountainous and very rough .
	Soil,sandy clay very shallow on solid rock formation of red shale and sandstone.
	Timber,cedar and pinon pine.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
	Good grass for grazing.
	Mountainous or heavily timbered land,77.88 chs.
	June 23,1911.
	June 24,1911:At 8 h 02 m a.m.,l.mt.,I set off 38°03'N.,on the lat.arc;23°28'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.mesa,land;through heavy timber.
	Desc.gently..
13.60	Ledge,20 ft.high,bears E.and W.
	Leave mesa,bears E.and W.
	Desc.abruptly over ledges.
32.10	Bottom of canon,500 ft.below mesa,course N.80°W.a
	Asc.over ledges.
38.90	Ledge,50 ft.high,bears NW and E.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 7 in W half and S 8 in E half;from which
	A cedar,8 ins.dia.,bears N.86°30'E.,105 lks. dist..mkd.¼ S 8 B T.
	A pinon pine,5 ins.dia.,bears S.40°W.,49 lks. dist..mkd.¼ S 7 B T.
43.90	Top of ledges,and south edge of mesa,500 ft.above canon,be E.and W.
	Desc.gently over mesa.
60.00	Wash,20 lks.wide,3 ft.deep,course N.60°W.
71.80	Note:From this point the Cliff Dweller's cave in the SW ¼ of sec.6,bears N.59°22'W.,about 74.00 chs.
71.90	Ledge20 ft.high,bears N.80°E.and S.80°W.
	N.edge of mountain mesa,bears same.
	Desc.abruptly over ledges.
80.00	Point;300 ft.below mesa.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the

Sub.T.32 S.,R.21 E.-Continued.

Chains

ground,for cor.of secs.5,6,7,and 8,mkd.on bras s cap

T 32 S S 6 in NW.

R 21 E S 5 in NE.

S 8 in SE.;and

S 7 in SW.quadrants;from which

A pinon pine,8 ins.dia.,bears N.20°30'E.,91 lks.

dist..mkd.T 32 S R 21 E S 5 B T.

A pinon pine,6 ins.dia.,bears S.29°E.,62 lks.

dist..mkd.T 32 S R 21 E S 8 B T.

A pinon pine,7 ins.dia.,bears S.77°45'W.,100 lks.

dist..mkd.T 32 S R 21 E S 7 B T.

A pinon pine,6 ins.dia.,bears N.23°30'W.,26 lks.

dist..mkd.T 32 S R 21 E S 6 B T.

Land,mountainous and rolling.

Soil,sandy and clay loam very shallow,underlaid by sandstone.

Timber,cedar and pinon pine,

Good grass for grazing.

Mountainous or heavily timbered land,o80.00 chs.

June 24,1911:At this cor.I set off 23°26'E.,on the decl. arc;and at 0 h 2 m p.m.,l.m.t.,I observe the sun on the meridian,t e resulting lat.is 38°04'N.,which is the proper lat.nearly.

N.89°55'E.,on a random line bet.secs.5 and 8.

40.00 Set temp.¼ sec.cor.

79.86 Intersect N.and S.line,12 lks.N.of the cor.of secs.4,5,8,and 9.

Thence I run

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

Over mountainous land;through heavy timber.

Asc.over ledges and boulders.

6.00 Top of ledge,or canon wall 300 ft.high,abd 600 ft.above sec.cor.,edge of Bridger Jack mesa,bears N.and S.

Asc.less abruptly over ledges and smooth sandstone surfaces.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
18.60	Head of hollow,30 ft.below mesa,course N.
	Asc.
23.40	Wash,10 lks.wide,3 ft.deep,course N.30°E.
28.75	Top of ledge,40 ft.high,bears N.80°W.and S.80°E.
33.00	Ledge,10 ft.high,bears N.and S.20°E.
	Desc.
39.93	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 5 in N half and S 8 in S half;from which
	A cedar,12 ins.dia.,bears N.72°E.,52 lks. dist..mkd.¼ S 5 B T.
	A cedar,14 ins.dia.,bears S.17°30'E.,25 lks. dist..mkd.¼ S 8 B T.
51.40	Head of hollow,200 ft.below ¼ sec.cor.,course N.
	Asc.
55.50	Top of ledge of canon wall 400 ft.high,bears N.and S.
	Leave Bridger Jack mesa,bears same.
	Desc.abruptly over ledges.
77.00	Bottom of canon,800 ft.below mesa,course N.60°W .
	Asc.
79.86	The cor.of secs.5,6,7,and 8.
	Land mountainous and rolling .
	Soil,sandy loam;about 1 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Mountainous or heavily timbered land,79.86 chs.

June 24,1911.

June 26,1911:At 8 h 2 m a.m.,l.m.t.,I set off 38°04'N., on the lat.arc;23°24'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.5,6,7,and 8. Thence I run

N.89°58'W.,on a random line bet.secs.6 and 7.

40.00 Set temp.¼ sec.cor.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
77.84	Intersect W.bdy.of Tp.,5 lks.S.of the cor.of secs.1,6, 7,and 12, heretofore described.
	Thence I run
	S.89°56'E.,on a true line bet.secs.6 and 7.
	Over canon bottom;through dense sage brush.
	Desc.gently.
8.00	Wash,50 lks.wide,2 ft.deep,course E.
17.00	Leave wash,bears S.80°W.and N. course N.
	Leave canon bottom,bears same.
	Asc.
21.40	Top of ridge,30 ft.above canon,bears N.and S.
	Asc.
24.40	Bottom of hollow,20 ft.below ridge,course N.
	Asc.
26.60	Top of ledge,100 ft.high,almost perpendicular ,bears N.and SW.
Note:	From this point the Cliff Dweller 's cave bears N.22°15'W., about 32.00 chs.dist. (See General Description of Tp.)
30.00	Top of ridge,150 ft.above canon,bears N.and S.
	Desc. through scattering timber.
37.84	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 6 in N half and S 7 in S half;from which
	A pinon pine,8 ins.dia.,bears N.22°30'E.,44 lks. dist..mkd.¼ S 6 B T.
	A pinon pine,10 ins.dia.,bears S.38°30'W.,94 lks. dist..mkd.¼ S 7 B T.
38.00	Head of hollow,30 ft.below ridge,course NE.
	Asc.
40.30	Top of ridge,20 ft.above hollow,bears NE and SW.
	Desc.
43.90	Bottom of hollow,30 ft.below ridge,course NE.
	Asc.
45.30	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.

Sub.T.32 S.,R.21 E.--Continued.

Chains	
45.80	Ledge,40 ft.high,bears N.and S.
	Desc.
49.90	Trail,bears N.10°W.and S.10°E.
51.80	Wash,20 lks.wide,3 ft.deep,in bottom of Lavender canon,1 ft.below ridge,course N.20°W.and
	Asc.
57.00	Top of sloping ledges,40 ft.high,bears NW and S.
59.00	Trail,bears N.30°W.and S.30°E.
64.90	Top of abrupt ascent,bears N.and S.
76.00	Top of ridge,350 ft.above canon,bears N.and S.
	Desc.
77.64	The cor.of secs.5,6,7,and 8.
	Land,mountainous and rolling.
	Soil,sandy and clay loam 6 ft.deep,in canon bottom,the balance of mile is sandy about 1 ft.deep,on shale and sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 77.84 chs.
	June 26,1911:At this cor.I set off 23°24'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 38°04'N.,which is the proper lat.nearly.

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

40.00 Set temp.¼ sec.cor.

80.28 Intersect N.bdy.of Tp.,02 lks.N.89°58'E.,of the cor.of secs.5,6,31,and 32, heretofore described.

Thence I run,

S.0°04'E.,on a true line bet.secs.5 and 6.

Over mountainous land;through scattering timber and dense undergrowth.

Asc.

Sub.T.32 S.,R.21 E.-Continued.

Chains	
2.50	Top of ridge,20 ft.above sec.cor.,bears E.and W.
	Desc.
6.50	Wash,100 lks.wide,3 ft.deep,in bottom of hollow,20 ft.below ridge,course W.
	Asc.abruptly.
11.30	Top of abrupt ascent,and N.edge of flat mesa ,bears E.and W
	Asc.gently.
22.30	South edge of mesa,desce.abruptly over ledges,bears N.80°-W.and S.80°E.
25.30	Bottom of canon,100 ft.below mesa,course N.70°W.
	Asc.abruptly over ledges.
27.00	Ledge,50 ft.high,bears E.and W.
34.60	top of ridge,150 ft.above canon,bears E.and W.
	Desc.abruptly.
40.00	Foot of abrupt descent,bears E.and W.
40.28	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 6 in W half;and S 5 in E half;from which
	A cedar,8 ins.dia.,bears S.23°45'E.,103 lks. dist..mkd.¼ S 5 B T.
	A pinon pine,8 ins.dia.,bears N.88°W.,48 lks. dist..mkd.¼ S 6 B T.
41.40	Head of hollow,100 ft.below ridge,course W.
	Asc.gently.
50.00	Begin abrupt ascent over ledges,bears N.20°E.and SW.
55.00	Ledge,30 ft.high,bears N.20°E.and S.20°W.
58.00	Top of ridge,150 ft.above hollow,bears E.and W.
	Desc.
60.50	Top of same ledge,50 ft.high,bears NW and SE.
	Desc.abruptly over ledges.
78.00	Bottom of canon,150 ft.below ridge,course N.50°W.
	Asc.abruptly.
80.28	The cor.of secs.5,6,7,and 8.
	Land,mountainous.
	Soil,sandy loam about 2 ft.deep.subsoil,rock.

Sub.T.32 S.,R.21 E.-Continued.

Chains

Timber,cedar and piron pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with denseundergrowth, 80.28 chs.

June 26,1911.

Geo. W. Stewart
U.S.Transitman.

General Description.

This township is mostly a rough and rugged mountainous country,with a general drainage and slope to the north. Cottonwood canon,which ranges in width from a quarter to a half mile extends entirely through the township in a northerly direction.The soil in Cottonwood and Lavender canons is sandy mixed with some clay and in the Cottonwood canon it has a deep clay subsoil. The land bordering on Cottonw creek for 10 to 15 chains on each side is very rich and covered with a rank growth of greasewoods and sage brush from 4 to 8 ft high.

There is a high mountain mesa in the eastern part of the township which occupies about one third the entire area,and Bridger Jack Mesa in the western part that covers about the same amount.These mesa are surrounded by a rim of sandstone about 300 to 400 feet in depth which is so abrupt and continuous that it is almost insurmountable, And in fact there are very few places where a man can get up or down without using ropes two or three hundred feet in length and taking great risk of his life.

The soil on these high mesa lands is very shallow ranging from one to three feet in depth,and is underlaid with a solid sandstone formation ;but there is suf-

Sub. T. 32 S., R. 21 E., Continued.

ficient soil to afford a foot hold and enough nutriment for an abundant growth of scrub pinon pine and cedar timber and plenty of grass for grazing purposes. There is a scattering undergrowth of sagebrush which is dense in spots that have been cleared of timber.

The entire township is more valuable for early spring and late fall feed, for cattle, sheep, and horses than for any other purpose.

David L. Goudelock has a three room log house, corrals and outbuilding and about 30 acres of cultivated land mostly in sec. 32, this township but extending partly into sec. 5, T. 33 S., R. 21 E. The total value of his improvements is about $1500.00. He is at present living on the claim.

The Wilson or Keller claim in secs. 21 and 22, also in Cottonwood Canon is claimed by William Keller. He has a two roomed log house and corrals and sheds and considerable fencing, and about 20 acres of cultivated land, alfalfa is the principle crop raised. Total value of improvements about $800.00. No one is at present living on this place. There are no other settlers in the township.

Cottonwood Creek flows about 8 sec. feet in low water time and from 25 ft. to 50 sec. feet in high water times, and in times of floods it reaches several hundred second feet. There is a small stream of water in the eastern part of sec. 36, which is good water but sinks before it leaves the section.

There is no other water in the township; however there is a small spring of poor water near the west side of sec. 7, just out of this township.

Cliff Dwellers ruins were seen in sections 6 and 21, those in sec. 21 are practically destroyed by the elements. Those in sec. 6 being more favorably located are in a fairly good state of preservation; and a brief description is here given; The cave visited in the SW.¼ of sec. 6 was originally a natural cave

Sub. T.32 S., R.21 E. - Continued.

hollowed out in a sandstone ledge or canon wall 100 ft. high, the bottom of the cave being about 30 ft. above the bottom of the ledge. It is difficult to get into the cave without a long ladder but it can be done from the top of a large cedar tree near by from which two small poles have been extended to the ledge.

In all there are six small circular rock houses in a cemicircle lining the cave the houses are neatly constructed of selected stone and laid up in a mortar of mud. Some have wooden roofs covered with mud or plaster on top, while others are built up so the roof of the cave is the ceiling of the room. The opening left for a door in each house is about 14 inches wide and eighteen inches high with stone lintle and sill and the door is a single slab of stone about 14x18 ins. and one inch thick which fits snugly in the opening. The largest house is in the center of the cave but has fallen to ruin, while the others are in almost perfect preservation. Pieces of broken pottery were found on the floor of the cave and below the ledge.

There are no indications of mineral in the township.

No oil seeps or other indications of oil were seen.

Scot H. Stewart
Eric F. Anderson
U. S. Transitmen.

June 26, 1911.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Scott P. Stewart and Eric H. Anderson, United States ~~Deputy Surveyor,~~ Transitmen to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivision of Township 32 S., R.21 E.S.L.B.& M., Utah showing the respective capacities in which they acted:

Edwin Garn, Chainman. Flagman
Clifford A. Jennings, Chainman.
, Moundman.
, Moundman.
Winslow Read, Axman.
Lynn C. Rogerson, Axman.
, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Scott P. Stewart and Eric H. Anderson, United States ~~Deputy Surveyor~~ Transitmen, in surveying all those parts or portions of the Subdivision of Township 32 South, Range 21 East 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.

	Period of Service	
Edwin Garn	May 15 1911 to June 4, 1911	Chainman. Flagman
Clifford A. Jennings	May 15 1911 to June 4, 1911	Chainman.
		Moundman.
		Moundman.
Winslow Read	May 17, 1911 to May 31, 1911	Axman.
Lynn C. Rogerson	June 7, 1911 to June 13, 1911	Axman.
		Flagman.

Subscribed and sworn to before me this 31 day of May and 4th 13th day of June, 1911

SEAL

Scott P. Stewart
U.S. Transitman

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See also certificate of assistants book "M" T.33 S., R.21 E.

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 oaths of Transitmen see book "W" T.33 S., R 21 E.

..... 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, March 28, 1914. ~~190~~

The foregoing field notes of the survey of the Subdivisional lines of Township No.33 South, Range No.21 East of the Salt Lake Base and Meridian, Utah,

executed by Scott P.Stewart and Eric H.Anderson under their special instructions dated March 27, 1911, ~~190~~ , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the survey 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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F.A.S.

Filed Feb. 21, 1912.
WSH.

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BOOK A-388

D.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 32 SOUTH,

RANGE NO. 22 EAST,

Of the Salt Lake Base and *Meridian,*

In the State of UTAH

EXECUTED BY

SCOTT P. STEWART AND ERIC H. ANDERSON

In the capacity of U. S. ~~*Surveyor*~~ Transitmen, *under instructions dated* March 27, *191*1, *issued by the United States Surveyor General to govern surveys included in Group No.* 7, *which were approved by the Commissioner of the General Land Office,* April 20, *191*1, *pursuant to authority contained in the Act of Congress dated* _____, *191*__

Survey commenced June 27, *191*1.

Survey completed July 18, *191*1.

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BOOK A-788

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SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
	Survey commenced June 27, 1911, and executed with instrument described in book "C" of this survey.
	For complete test of instrument see book "C".
	At 1h 15m a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions at the cor. of secs. 35 and 36 on S. bdy. of Tp. 32 S. R. 22 E. and mark a point in the line thus determined by a pencil mark on a wooden peg set in the ground 5 chs. N. of the cor.
	June 27, 1911.
	June 28: At 8h 00m 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 mark on a peg set in the ground west of the point established last night.
	The magnetic bearing of the true meridian is N.16°10'W. which gives the magnetic declination 16°10'E.
	Thence I run
	N. 0°01'W. bet. secs. 35 and 36
	Over rolling mountainous land; through cedar and pinon pine.
	Descend gently.
1.50	Leave heavy; enter scattering timber and sagebrush, bears NE. and SW.
4.70	Leave scattering timber and sagebrush; enter heavy timber, bears NE. and SW.
21.30	Ascend abruptly over ridge, bears NE. and SW.
22.80	Ravine, 20 ft. below ridge, course NW.
	Ascend.
25.30	Top of ridge, 20 ft. above ravine, bears NW. and SE.
	Descend gently.
30.00	Ravine, 30 ft. below ridge, course NW.
	Ascend.
36.20	Top of ridge, 25 ft. above ravine, bears NE. and SW.
	Descend over NW. slope of ridge.

Subdivision of T. 32 S., R. 22 E.

Chains	
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 35 on W and S 36 on E half; from which
	A pinon pine, 8 ins.diam., bears N.86°54'E., 26 lks. dist., marked ¼ S 36 B T
	A pinon pine, 6 ins.diam., bears N.53°31'W., 17 lks. dist., marked ¼ S 35 B T
	June 28: At this corner at 8h 57m a.m., l.m.t., I set off 38°00' on the lat arc; 23°20'N. on the decl. arc; and determine a meridian with the solar, which I find checks with the meridian obtained by Polaris observation.
	Descend.
46.30	Ravine, 40 ft. below ¼ sec. cor., course W.
	Ascend.
58.80	Top of ridge, 30 ft. above ravine, bears E. and W.
	Descend.
62.10	Descend abruptly down ridge, bears NW. and SE.
64.70	Ravine, 150 ft. below ridge, course NW.
	Ascend.
65.20	Top of spur, 35 ft. above ravine, bears NW. and SE.
	Descend abruptly.
79.40	Bottom of canon, 150 ft. below spur, course NW.
	Ascend.
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, marked on brass cap
	T 32 S S 26 in NW
	R 22 E S 25 in NE
	S 36 in SE. and
	S 35 in SW. quadrants; from which
	A cedar, 8 ins. diam., bears N. 72°10'E., 42 lks. dist., marked T 32 SR 22 E S 25 B T
	A cedar, 8 ins. diam., bears S. 34°39'E., 26 lks. dist., marked T 32 SR 22 E S 36 B T

Subdivision of T.32 W., R. 22 E.

Chains	
	A pinon pine, 8 ins. diam., bears S.21°57'W.,32 lks. dist., marked T 32 S R 22 E S 35 B T
	A pinon pine,6 ins.diam.,bears N.52°07'W., 53 lks. dist., marked T 32 S R 22 E S 26 B T
	Land, mountainous; NW. slope. Soil, light brown gravelly loam, 6 to 30 ins. deep, coarse texture, fairly moist, on rocky subsoil. Heavy cedar and pinon pine and scattering sagebrush.
	June 28: At this corner, I set off 23°19'N. on decl. arc; and, at 0h 03m.p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°00'
	Thence I run
	East on random line bet. secs. 25 and 36
40.00	Set temp. ¼ sec. cor.
79.90	Intersect E. bdy. of Tp. 14 lks. N. of cor. of secs. 25, 30, 31 and 36, heretofore described.
	Thence I run
	N.89°54'W. on a true line bet. secs. 25 and 36
	Over rolling mountainous land, through burnt timber and undergrowth.
	Ascend.
10.00	Top of ridge (Peter's Point) 50 ft. above sec. cor., bears N. 35°E. and S. 35°W.
	Descend.
11.00	Leave burnt; enter live timber, bears NE. and SW.; descend more abruptly.
20.00	Bottom of hollow, 175 ft. below ridge, course NE.
	Ascend gently.
22.00	Top of ridge, 25 ft. above hollow, bears N. and S.
	Descend gently.
28.00	Ravine, 25 ft. below ridge, course NW.
	Ascend.
30.00	Top of ridge, 40 ft. above ravine, bears NW. and SE.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
	Descend gently.
39.95	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., bet. secs. 25 and 36, marked on brass cap ¼ S 25 on N and S 36 on S half; from which
	A pinon pine, 8 ins. diam., bears N.27°49'E., 28 lks. dist., marked ¼ S 25 B T
	A pinon pine, 4 ins. diam., bears S.19°14'W., 48 lks. dist., marked ¼ S 36 B T
	Descend.
41.80	Desc. abruptly.
42.60	Ravine, 25 ft. below abrupt descent, course N. Asc.
47.00	Top of ridge, 20 ft. above ravine, bears NW. and SE. Desc.
52.00	Ravine, 25 ft. below ridge, course NW.
53.90	Top of ridge, 20 ft. above ravine, bears NW. and SE. Desc. abruptly.
60.00	Ravine, 100 ft. below ridge, course NW. Ascend.
63.00	Top of spur, 50 ft. above ravine, bears NW. and SE. Desc. abruptly over broken ledges.
71.00	Ravine, 100 ft. below top of spur, course NW. Asc.
72.30	Top of spur, 35 ft. above ravine, bears NW. and SE. Desc. gently.
76.90	Desc. more abruptly.
79.90	The cor. of secs. 25, 26, 35, and 36.
	Land mountainous.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sage and serviceberry brush.
	Soil, sandy loam, 10 ins. on gravel subsoil, and rocky 2nd and 4th rate.
	June 28, 1911.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
	N. 0°01'W. bet. secs. 25 and 26
	Over mountainous land, through heavy cedar and pinon pine.
	Ascend.
2.40	Top of small spur, 30 ft. above sec. cor., bears NW. and SE.
	June 29: At this point at 8h 02m a.m., l.m.t., I set off 38°00' on the lat arc, 23°17'N. on the decl. arc; and determine a meridian with the solar.
	Thence I run
	N. 0°01'W. bet.secs. 25 and 26
	Desc.
8.20	Ravine, 60 ft. below top of spur, course NW. Asc.
15.40	Top of ridge, 20 ft. above ravine, bears E.&W.
	Desc. gently.
23.00	Bottom of canon, 40 ft. below ridge, course W.
	Asc.
23.20	Asc. over ledge, 15 ft. high, bears E. and W.
27.00	Top of ridge, 30 ft. above canon, bears E. and W.
	Desc.
32.50	Ravine, 25 ft. below ridge, course SW.
	Asc. gently.
34.50	Leave timber; enter sagebrush, 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. bet. secs. 25 and 26, marked on brass cap ¼ S 26 on W and S 25 on E half; from which
	A pinon pine, 6 ins. diam., bears S.18°20'W., 2.28 chs. dist., marked ¼ S 26 B T
	No other bearing tree within limits; raise a mound of stone 2½ ft. base, and 18 ins. high, W. of cor.
44.40	Enter scattering timber, bears NE. and SW.
64.00	Top of ridge, 25 ft. above ¼ sec. cor., bears NE. and SW.
	Leave scattering; enter heavy timber, bears NE. and SW.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, raise mound of stone around post, for cor. of secs. 23,24,25, and 26, marked on brass cap T 32 S S 23 in NW R 22 E S 24 in NE S 24 in SE. and S 26 in SW. quadrant, from which A pinon pine, 8 ins. diam., bears N.26°55'E., 47 lks. dist., marked T 32 S R 22 E S 24 BT A cedar, 14 ins.diam.,bears S.58°05'E., 50 lks. dist., marked T 32 S R 22 E S 25 B T A pinon pine, 6 ins. diam.,bears S.34°15'W., 45 lks. dist., marked T 32 S R 22 E S 26 B T A pinon pine, 6 ins.diam., bears N.45°41'W., 75 lks. dist., marked T 32 S R 22 E S 23 B T Land, mountainous. Timber, cedar and pinon pine. Undergrowth, scattering sagebrush and serviceberry. Soil, gravelly, 15 ins. gravel on bedrock, 3rd rate; dry, coarse texture; underlying bedrock is sandstone.
	S. 89°54'E. on random line bet.secs.24 and 25
40.00	Set temp. ¼ sec. cor. June 29: At this point I set off 23°17'N. on the decl. arc. and at 0h 02m p.m., l.m.t., observe the sun on themeridian, the resulting lat. is 38°01'
79.98	Intersect E. bdy. of Tp. 2 lks. S. of cor. of secs. 19, 24, 25 and 30, heretofore described. Thence I run N.89°55'W. on true line bet. secs.24 and 25 Over mountainous land; through heavy cedar and pinon pine. Desc.
6.80	Ravine, 30 ft. below sec. cor., course NW. Asc.
10.00	Top of ascent, 15 ft. above ravine, bears N. and S. Desc.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
21.00	Ravine, 20 ft. below top of ascent, course NW.
	Asc.
23.50	Top of ridge, 25 ft. above ravine, bears NE. and SW.
	Desc.
39.99	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., bet. secs. 24 and 25, marked on brass cap ¼ S 24 on N. and S 25 on S. half; from which
	A pinon pine, 6 ins.diam.,bears N.12°41'E. 19 lks. dist., marked ¼ S 24 B T
	A pinon pine, 6 ins.diam.,bears S.9°25'E., 16 lks. dist., marked ¼ S 25 B T
	100 ft. below ridge. Desc.
41.00	Desc. abruptly over broken surface, bears N. and S.
46.00	Foot of abrupt descent, 60 ft. below ridge, bears N.and S. Desc. gently.
63.00	Desc. more abruptly.
64.50	Leave timber; enter sagebrush, bears N. and S.
69.25	Wash, 2.50 chs. wide, 10 ft. deep, course N.30°W., 125 ft. below ¼ sec. cor. Asc.
72.00	Begin abrupt ascent, bears N. and S.
77.10	Top of ridge, 25 ft. above wash, bears N. and S.
	Desc.
79.30	Hollow, 10 ft. below ridge, course N.
	Asc.
79.98	The cor. of secs. 23,24,25 and 26.
	Land, mountainous.
	Soil, gravelly and rocky; 16 ins. gravel and sand on rock subsoil, 3rd and 4th rates.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush and a little bunch grass.
	June 29, 1911

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
	June 30: At 8h 03m a.m., l.m.t., I set off 38°01' on the lat. arc; 23°14'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23,24, 25 and 26.
	Thence I run
	N. 0°01'W. bet. secs. 23 and 24
	Over rolling mountainous land; through cedar and pinon pine. Descend.
0.50	Hollow, course NW.
7.90	Foot of small spur, 40 ft. below sec. cor., bears N. and S.
8.00	Wash, 15 lks. wide, 5 ft. deep, course NE.
8.50	Leave timber; enter sagebrush, bears E. and W.
	Desc. gently.
12.50	Wash, 15 lks. wide, 6 ft. deep, course N.10°E.; thence in wash.
13.25	Leave wash; enter timber, bears NE. and SW.
	Ascend.
15.00	Top of small spur, 15 ft. above wash, bears E. and W.
	Leave timber; enter sagebrush, bears E. and W.
	Descend.
17.50	Foot of small spur, 15 ft. below, bears NW. and SE.; thence along west edge of wash mentioned above.
24.00	Desc. into wash (same) left bank bears N.30°W. and S.30° E. and is 15 ft. in height; thence in bottom of wash.
28.80	Leave wash, course N. 30°W.
	Asc. gently.
33.00	Enter small grove of oak brush, 8 ft. in height, bears E. and W.
34.00	Ascend over smooth rock spur, bears NE. and SW.
34.70	Leave oak brush; enter cedar and pinon pine, bears NE. and SW.
37.60	Top of spur, 20 ft. above foot, bears NE. and SW.
	Desc.
38.50	Small hollow, 15 ft. below spur, course NE. Asc.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground and raise a mound of stone around post, for ¼ sec. cor., bet. secs. 23 and 24, marked on brass cap ¼ S 23 on W and S 24 on E half; from which
	A pinon pine, 12 ins. diam., bears S.67°17'W., 86 lks. dist., marked ¼ S 23 B T
	A pinon pine, 16 ins. diam., bears N.37°26'E., 43 lks. dist., marked ¼ S 24 B T
	Top of small spur, 25 ft. above ravine, bears E. and W.
	Desc.
42.00	Hollow, 20 ft. below spur, course E.
	Ascend.
49.20	Leave timber; enter sagebrush, bears NE. and SW.
50.00	Top of ridge, 30 ft. above hollow, bears NE. and SW.
	Desc. gently.
54.80	Leave sagebrush; enter timber, bears NW. and SE.
55.60	Descend more abruptly, bears E. and W.
61.70	Leave timber; enter sagebrush, bears E. and W.
62.00	Foot of abrupt descent, 50 ft. below ridge, bears E. and W.; enter Hart Draw; desc. gently.
65.50	Wash, 1 ch. wide, 10 ft. deep in bottom of Hart Draw, course NE. Stream of muddy water, 8 lks. wide, 3 ins. deep in wash. Asc. gently.
69.50	Leave Hart Draw; asc. abruptly over rocky spur.
70.40	Top of spur, 25 ft. above wash, bears N. and S.
	Thence nearly level
77.50	Leave sagebrush; enter timber, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 13, 14, 23, and 24, marked on brass cap
	T 32 S S 14 in NW
	R 22 E S 13 in NE
	S 24 in SE and
	S 23 in SW. quadrant; from which
	A pinon pine, 18 ins. diam., bears N.43°00'E.,

SUBDIVISION OF T. 32 S., R. 22 E.

Chains

45 lks. dist., marked T 32 S R 22 E S 13 B T

A pinon pine, 14 ins. diam., S.33°00'E.,

76 lks. dist., marked T 32 S R 22 E S 24 B T

A pinon pine, 14 ins. diam., bears S.9°00'W.,

55 lks. dist., marked T 32 S R 22 E S 23 B T

A pinon pine, 10 ins. diam., bears N.7°10'W.,

24 lks. dist., marked T 32 S R 22 E S 14 B T

Land, rolling, mountainous, NW. slope.

Soil, sandy loam with gravel 6 to 24 ins. deep, medium texture, dry on decomposing sandstone subsoil.

Cedar and pinon pine timber.

Scattering sagebrush and grass.

S. 89°55'E. on random line bet. secs. 13 and 24.

40.00 Set temp. ¼ sec. cor.

June 30: At this point I set off 23°13'N. on the decl. arc. and, at 0h 02m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°02'

80.00 Intersect E. bdy. of Tp. 6 lks. S. of cor. of secs. 13, 18, 19 and 24, heretofore described.

Thence I run

N.89°58'W. on true line bet. secs. 13 and 24

Over rolling mountainous land; through scattering cedar and pinon pine.

Ascend.

1.50 Top of ridge, 25 ft. above sec. cor., bears NE. and SW.

Descend.

5.30 Foot of descent, 25 ft. below ridge, bears NE. and SW.

Thence over nearly level land.

Leave scattering timber; enter sagebrush, bears N.30°E. and S. 30°W.

12.80 Wash, 200 lks. wide, 15 ft. deep, course NE.; asc. gently.

30.00 Top of ridge, 25 ft. above wash, bears NE. and SW.

Enter scattering timber, bears NE. and SW.

Desc. abruptly.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
36.80	Leave timber, bears NE. and SW.
37.25	Foot of abrupt descent, 25 ft. below ridge, bears NE. and SW. Desc. gently through sagebrush.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 13 on N. and S 24 on S half; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.
	Desc. gently.
54.25	Hart Draw Canon, 125 lks. wide, 18 ft. deep, course NE.
55.00	Stream of muddy water, 6 lks. wide, course NE. Asc.
60.00	Leave sagebrush; enter timber, bears N.35°E. and S.35°W.
60.50	Leave Hart Draw, begin more abrupt ascent, brs. NE. and SW.
66.50	Top of ridge, 35 ft. above wash, bears N. and S.
	Desc.
72.10	Bottom of hollow, 30 ft. below ridge, course S. Asc.
79.00	Top of ascent, 30 ft. above hollow, bears N. and S.
	Desc. gently.
80.00	The cor. of secs. 13,14,23 and 24.
	Rolling mountainous land, NE. slope.
	Soil, sandy loam with gravel and rocks 6 ins. to 4 ft. deep; the deepest in the hollows and shallow on the ridges. Scattering cedar and pinon pine and sagebrush.

June 30, 1911.

Eric H. Anderson

U. S. Transitman.

Survey commenced June 30, and executed with the instrument described in book "A" of this survey.

At 8h 02m a.m.l.m.t., I set off 37°59' on the lat arc; 22°14'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 34 and 35 on S. bdy. of Tp., heretofore described.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
	Thence I run
	N.0°01'W.bet.secs.34 and 35,
	Over mountainous land; through heavy timber and scattering sagebrush and serviceberry undergrowth.
	Desc. abruptly.
.20	Ravine 6 ft. below sec. cor., course N. 30°W. Ascend.
7.50	Top of ridge, 50 ft. above ravine, brs. NW. and SE.
	Desc. gently.
23.00	Bottom of hollow, 30 ft. below ridge, course NE.
	Asc. gently.
27.50	Top of ridge, 25 ft. above hollow, bears N. 70°E. and S.70°W. Desc. gently.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock; raise md. of stone around post for ¼ sec. cor., marked on brass cap ¼ S 34 on W. and S 35 on E. half; from which
	A pinon pine, 8 ins. diam.bears N.88°10E. 56 lks. dist., marked ¼ S 35 B T
	A pinon pine, 6 ins. diam.bears N.13°07'W. 54 lks. dist., marked ¼ S 34 B T
47.00	Begin abrupt descent, bears N.30°W. and S.30°E.
50.30	Bottom of Hart Draw Canon, 150 ft. below ridge, course N.30°W., comes from S.80°E.
	A small stream of muddy water, 8 lks. wide, flows NW., in bottom of canon.
	Asc. abruptly.
60.00	Top of ridge, 100 ft. above canon, bears N. 70°W. and S.70°E.
	Descend abruptly.
69.80	Bottom of Hart Draw Canon, 125 ft. below ridge, course N.70°E.
	A small stream of muddy water, 8 lks. wide, flows NE. in bottom of canon.
	Ascend abruptly over smooth rocks,
71.00	Top of smooth ledge, 30 ft. above canon, bears N.70°E.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
	and S.70°W.
	Ascend gently.
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, marked on brass cap
	T 32 S S 27 in NW
	R 22 E S 26 in NE
	S 35 in SE. and
	S 34 in SW. quadrant; from which
	A pinon pine, 4 ins.diam.,bears N.78°04'E.,
	53 lks. dist., mkd. T 32 SR 22 E S 26 B T
	A pinon pine, 10 ins.diam.,bears S.36°55'E.,
	53 lks. dist., marked T 32 S R 22 E S 35 B T
	A pinon pine, 6 ins.diam.,bears S.44°18'W.,
	35 lks. dist., marked T 32 S R 22 E S 34 B T
	A cedar, 12 ins.diam.,bears N.79°23'W.,
	47 lks.dist., marked T 32 S R 22 E S 27 B T
	Mountainous land, northerly slope; soil, a light brown gravelly loam with some stones, 6 to 24 ins. deep; washed and rocky on the steep slopes and in places the bare rock is exposed.
	Cedar and pinon pine and sagebrush.

	June 30: At this corner, I set off 23°13'N. on the decl. arc, and at 10h 03m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°00'
	Thence I run
	East on random line bet. secs. 26 and 35
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at the cor. of secs. 25,26,35 and 36.
	Thence I run
	West on true line bet. secs. 26 and 35

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
	Over mountainous land; through heavy cedar and pinon pine, and scattering sagebrush and serviceberry undergrowth.
	Descend.
.90	Bottom of canon, 10 ft. below sec. cor., course N.60°W.
	Ascend abruptly.
13.50	Top of ridge, 60 ft. above canon, bears N.30°W. and S.30°E.
	Descend abruptly.
18.30	Bottom of canon, 180 ft. below ridge, course N.10°W.
	Ascend abruptly.
28.20	Top of ridge, 150 ft. above canon, bears N.10°E. and S.10°W.; desc. abruptly.
34.50	Bottom of hollow, 80 ft. below ridge, course N.20°W.
	Asc. gently.
36.50	Top of ridge, 10 ft. above hollow, bears N.20°W. and S. 20°E. Desc. abruptly.
38.00	Bottom of hollow, 25 ft. below ridge, course N.20°W.
	Ascend.
38.50	Top of ascent, 10 ft. above hollow, bears N.10°W. and S.10°E.
40.00	Set an iron post, 3 ft. long, 1 in.in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 26 on N. and S 35 on S half; from which
	A pinon pine, 8 ins. diam., bears N.27°00'E., 17 lks. dist., marked ¼ S 26 B T
	A pinon pine, 8 ins.diam., bears S.61°11'W., 66 lks. dist., marked ¼ S 35 B T
	Descend.
62.00	Bottom of hollow, 75 ft. below ridge, course N.20°W.
	Ascend.
62.80	Top of small ascent, 15 ft. above hollow, bears N.20°W. and S.20°E. Desc. gently.
64.00	Begin abrupt descent, bears N.20°E. and S.20°W.
65.70	Bottom of Hart Draw Canon, 130 ft. below ¼ sec. cor.,

SUBDIVISION OF T.32 S., R. 22 E.

Chains	
	course N.20°E.
	Small stream of water, 10 lks. wide, course NE., in bottom of canon.
	Ascend gently.
66.30	Telephone line between Carlisle and Monticello, bears N. and S.
66.60	Mail trail between Carlisle and Monticello, bears N.20° E. and S. 20°W.
67.50	Begin abrupt ascent, bears N.20°E. and S.20°W.
69.50	Top of abrupt ascent, bears N.20°E. and S.20°W.
	Asc. gently.
80.00	The cor. of secs. 26,27,34, and 35.
	Mountainous land, NW. slope.
	Soil, gravelly loam, with stones, 8 to 24 ins. deep, coarse texture, dry, on sandstone subsoil.
	Heavy cedar and pinon pine; scattering sagebrush.
	June 30, 1911.
	Scott P. Stewart
	U.S.Transitman.

July 1: At 7h 33m a.m.l.m.t., I set off 38°02' on the lat arc; 23°11'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13,14,23, and 24.

Thence I run

N.0°01'W. bet. secs. 13 and 14,

Over rolling mountainous land; through heavy timber and scattering sagebrush.

Ascend.

15.00 Top of ridge, 125 ft. above sec. cor., bears NW. and SE.

Descend.

19.40 Draw, 10 ft. below ridge, course SE.

Asc. gently.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
20.00	Leave timber; enter sagebrush, bears NE. and SW.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, raise md. of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 14 on W. and S 13 on E. half; from which
	A pinon pine, 6 ins. diam. bears N.51°40'E. 134 lks. dist., marked ¼ S 13 B T
	A cedar, 6 ins. diam., bears N. 39°40'W., 60 lks. dist., marked ¼ S 14 B T
	At this point enter scattering timber, brs. NE. and SW. Ascend.
44.40	Top of ridge, 25 ft. above ¼ sec.cor., bears NE. and SW. Desc.
56.50	Leave scattering timber; enter sagebrush, brs. NE. and SW. Desc. gently.
66.70	Old trail, bears NE. and SW.
78.30	Wagon road, from Carlisle to Monticello and Moab, brs. N.40°E. and S.40°W.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 11,12,13, and 14, marked on brass cap
	T 32 S S 11 in NW.
	R 22 E S 12 in NE.
	S 13 in SE.; and
	S 14 in SW. quadrants.
	No bearing trees within limits; 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.
	July 1: At this cor. I set off 23°10'N. on the decl. arc; and at 0h 03m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°03'
	Rolling mountainous land, NE. slope; Soil, sandy loam with gravel, 12 to 24 ins. deep, medium texture, dry, on decomposing sandstone.
	Timber, scattering cedar and pinon pine; sagebrush

Chains	
	undergrowth.
	S.89°58'E. on random line bet.secs.12 and 13
40.00	Set temp ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. 4 lks. N. of cor. of secs. 7,12, 13 and 18, heretofore described.
	Thence I run
	N.89°56'W. on true line bet.secs.12 and 13
	Over rolling mountainous land; through scattering timber and sagebrush.
	Ascend.
25.00	Top of ridge, 50 ft. above sec. cor., bears N.50°E. and S.50°W.
	Desc. gently.
36.60	Wash, 25 lks.wide, 4 ft. deep, course N.
	Asc. gently.
38.20	Top of ascent, 20 ft. above wash, bears N. and S.
	Desc. gently.
39.80	Wash, 20 lks. wide, 4 ft. deep, course N.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., marked on brass cap ¼ S 12 on N and S 13 on S half; from which
	A cedar, 24 ins. diam., bears N.16°30'E., 73 lks. dist., marked ¼ S 12 B T
	A pinon pine, 6 ins. diam., bears S.80°30'E. 24 lks. dist., marked ¼ S 13 B T
	Desc. gently.
41.50	Leave scattering timber; enter sagebrush, bears NE. and SW.
50.00	Draw, 15 ft. below ¼ sec. cor., course N.40°E.
	Ascend gently.
55.00	Top of small ridge, 20 ft. above draw, bears NE. and SW.
	Desc. gently.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
65.00	Bottom of draw, 15 ft. below ridge, course NE.
71.70	Top of small ridge, 15 ft. above draw, bears NE. and SW.
	Desc. gently.
77.60	Wagon road, from Carlisle to Monticello and Moab, bears NE. and SW.
80.00	The cor. of secs. 11,12,13 and 14.
	Rolling, mountainous land; northerly slope; soil 6 to 36 ins. deep, medium texture, composed of sandy loam with some gravel, fairly moist. Subsoil decomposing sandstone.
	Timber, very scattering cedar and pinon pine; good sagebrush.
	July 1, 1911
	Eric H Anderson
	U. S. Transitman

July 1: At 8h 03m a.m., l.m.t., I set off 38°00' on the lat. arc; 13°11'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 26,27,34 and 35.

Thence I run

N.0°01'W. bet. secs. 26 and 27

Over rolling mountainous land; through heavy cedar and pinon pine and scattering sagebrush and serviceberry undergrowth.

Asc. gently.

16.00	Top of ridge, 50 ft. above sec. cor., bears N.70°E. and S.70°W.
	Desc. gently.
25.00	Begin abrupt descent, bears N.70°E. and S.70°W.
27.60	Bottom of canon, 100 ft. below ridge, course N.60°E.
	Ascend gently.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
39.00	Top of ridge, 50 ft. above canon, bears E. and W.
	Desc. gently.
39.80	Telephone line bet. Carlisle and Monticello, bears N.20° W. and S.20°E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 27 on W and S 26 on E half; from which
	A pinon pine, 10 ins. diam., brs. S.79°00'E., 40 lks. dist., marked ¼ S 26 B T
	A cedar, 12 ins. diam., bears S.82°20'W., 36 lks. dist., marked ¼ S 27 B T
40.70	Ravine, 30 ft. below ridge, course S.80°E.
	Asc. gently.
49.00	Top of ridge, 30 ft. above ravine, bears E. and W.
	Descend abruptly.
54.20	Bottom of canon, 60 ft. below ridge, course N.80°E.
	Ascend gently.
70.00	Leave heavy timber; enter dense sagebrush, brs. E. and W.
80.00	Top of ascent, 60 ft. above canon, bears N.70°W. and S.70°E.
	July 1: At this cor. I set off 23°10'N. on the decl. arc; and at 0h 03m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°01'
	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, marked on brass cap
	T 32 S S 22 in NW
	R 22 E S 23 in NE
	S 26 in SE. and
	S 27 in SW. quadrant; from which
	A pinon pine, 10 ins. diam., bears N.21°44'E., 122 lks.dist., marked T 32 S R 22 E S 23 B T
	A pinon pine, 10 ins.diam., bears S.48°28'E., 49 lks.dist., marked T 32 S R 22 E S 26 B T
	A cedar, 12 ins. diam., bears S.18°26'W.,

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
	69 lks. dist., marked T 32 S R 22 E S 27 B.T
	A pinon pine, 10 ins.diam.,bears N.77°06'W.,
	120 lks. dist.,marked T 32 S R 22 E S 23 B.T
	Rolling mountainous land. E slope, soil, rather poor sandy loam with some gravel; stony and washed on slopes 4 to 26 ins. deep.
	Timber, heavy cedar and pinon pine; sagebrush and serviceberry.
	East on random line bet. secs. 23 and 26
40.00	Set temp. ¼ sec. cor.,
80.08	Intersect N. and S. line 7 lks. N. of cor. of secs. 23, 24,25 and 26.
	Thence I run
	N.89°57'W. on a true line bet. secs.23 and 26
	Over rolling mountainous land; through heavy cedar and pinon pine, with sagebrush undergrowth.
	Descend.
4.00	Bottom of hollow, 25 ft. below sec. cor., course N.20°E.
	Ascend.
24.00	Top of ridge, 50 ft. above hollow, bears N.10°W. and S. 10°E. Desc. gently.
26.50	Begin abrupt descent, bears N. 10°W. and S. 10°E.
37.50	Foot of abrupt descent, bears N.20°W. and S.20°E.
	Desc. gently.
40.04	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 23 onN. and S 26 on S half, from which
	A cottonwood tree, 16 ins.diam.,bears N.65°45'W.
	221 lks.dist., marked ¼ S 23 B T
	A pinon pine, 14 ins.diam.,bears S.62°40'E.,
	369 lks.dist., marked ¼ S 26 B T
43.50	Wash, 100 lks. wide, 8 ft. deep in bottom of Hart Draw Canon, course N.20°E., 150 ft. below ridge.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
	A stream of muddy water, 10 lks. wide, course NE. in bottom of canon.
	Note:- Cottonwood trees grow along Hart Draw Canon at this point.
	Asc. gently.
44.00	Mail trail, bears NE. and SW.
51.90	Begin abrupt ascent, bears NE. and SW.
55.00	Top of abrupt ascent, 75 ft. above wash, bears N. and S.
	Asc. gently.
75.00	Begin more gentle ascent, bears N. and S.
78.00	Leave heavy timber; enter dense sagebrush, bears N. and S.
80.08	The cor. of secs. 22,23,26 and 27.
	Rolling mountainous land, northerly slope; soil, brownish gravelly loam with some stones 6 to 12 ins. deep, medium texture, fairly moist on sandstone subsoil.
	Timber, cedar and pinon pine.
	Sagebrush undergrowth.
	July 1, 1911
	Scott P. Stewart
	U. S. Transitman
	July 3: At 8h 03m a.m., l.m.t., I set off 38°03' on the lat arc; 23°03'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 rolling land; through dense sagebrush; desc. gently.
7.00	Top of rock (ledge) projecting out of ground 20 lks. x 50 lks. base, 20 ft. high, bears E. and W.
18.00	Wash, 20 lks. wide, 4 ft. deep, course S.60°E.
	Leave sagebrush; enter heavy timber, brs. E. and W.
	Asc.
17.00	Same wash, course S.20°W.
	Asc. over ledges.

SUBDIVISION OF T. 32 S., R. 22 E.

Chains	
35.00	Top of steep ascent, bears N.60°E. and S.60°W.
	Leave heavy; enter scattering timber and sagebrush, bears E. and W.
	Note:- From this point a settler's cabin in T.32 S., R. 23 E., bears N.85°10'E., about 2 miles distant.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., bet. secs. 11 and 12, marked on brass cap ¼ S 11 on W and S 12 on E half; from which
	A pinon pine, 24 ins.diam., brs. S.79°30'E. 486 lks. dist., marked ¼ S 12 B T
	A cedar, 8 ins.diam., bears S.8°15'W., 376 lks. dist., marked ¼ S 11 B T
	Same Settler's cabin bears N.87°40'E. from this ¼ sec. cor.
51.00	Leave scattering timber, bears E. and W. Desc. gently.
62.60	Trail, 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. 1,2,11 and 12 marked on brass cap
	T 32 S S 2 in NW
	R 22 E S 1 in NE
	S 12 in SE. and
	S 11 in SW. quadrant; from which
	A cedar, 5 ins.diam., bears N.81°30'E., 473 lks. dist., marked T 32 S R 22 E S 1 B T
	A pinon pine, 8 ins.diam., bears S.87°20'E., 528 lks.dist., marked T 32 S R 22 E S 12 B T
	A cedar, 6 ins.diam., bears S.85°45'W., 451 lks. dist., marked T 32 S R 22 E S 11 B T
	A pinon pine, 8 ins.diam., bears N.33°00'W., 255 lks. dist., marked T 32 S R 22 E S 2 B T
	Rolling mountainous land; easterly slope; soil, sandy loam with some gravel 6 to 30 ins.deep, good loam in valleys; timber, cedar and pinon pine; sagebrush and

Subdivision of T. 32 S., R. 22 E.

Chains	
	some bunch grass.
	S.89°56'E. on a random line bet. secs. 1 and 12
40.00	Set temp. ¼ sec. cor.
79.92	Intersect E. bdy. of Tp. 9 lks. S. of 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 scattering timber and dense sagebrush undergrowth.
	Asc. gently.
.70	Wash, 10 lks. wide, 3 ft. deep, course S.20°E.
	Asc. gently.
39.96	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 1 on N and S 12 on S half; from which
	A pinon pine, 10 ins.diam.,bears N.11°15'E., 237 lks. dist., marked ¼ S 1 B T
	A cedar, 8 ins. diam.,bears S.23°15'E., 359 lks. dist., marked ¼ S 12 B T
	Ascend.
45.00	Top of ridge, 100 ft. above ¼ sec. cor.,bears N.20°E. and S.20°W.
	At 0h 04m p.m.,l.m.t., I set off 23°01'N. on the decl. arc; and observe the sun of the meridian, the resulting lat. is 38°03'
	Descend.
55.00	Head of hollow, 50 ft. below ridge, course N.
	Ascend.
70.00	Top of ridge, 50 ft. above hollow, bears N.20°E. and S.20°W. Descend.
79.92	The cor. of secs. 1,2,11 and 12.
	Rolling mountainous land, E. slope. Soil, sandy loam 18 to 36 ins. deep, medium texture, dry on sandstone subsoil. Timber, scattering cedar and pinon pine;

Subdivision of T. 32 S., R. 22 E.

Chains	
	dense sagebrush.
	N.0°01'W. on a random line bet. secs.1 and 2
40.00	Set temp. ¼ sec. cor.
79.50	Intersect the N.bdy. of Tp. at the cor. of secs. 1,2,35 and 36, heretofore described.
	Thence I run
	S. 0°01'E. on a true line bet. secs. 1 and 2
	Over rolling mountainous land; through cedar and pinon pine, and sagebrush undergrowth.
	Ascend.
4.00	Top of small ridge, 15 ft. above sec. cor., bears NE. and SW. Desc.
9.60	Head of draw, 20 ft. below ridge, course NE. Ascend.
19.50	Top of ridge, 120 ft. above hollow, bears E. and W.
	Leave heavy; enter scattering timber, bears E. and W.
	Desc.
35.50	Bottom of canon, 80 ft. below ridge, course N.20°E.
	Ascend.
39.50	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, raise mound of stone around post, for ¼ sec. cor., bet. secs. 1 and 2, marked on brass cap ¼ S 2 on W and S 1 on E half; from which
	A pinon pine, 8 ins.diam., bears S.28°30'E., 20 lks. dist., marked ¼ S 1 B T
	A pinon pine, 8 ins.diam., bears S.45°45'W., 35 lks.dist., marked ¼ S 2 B T.
	Ascent continues.
49.50	Top of ridge, 100 ft. above canon, bears E. and W.
	Descend.
67.50	Head of draw, 20 ft. below ridge, course N.80°W.
	Ascend.
74.00	Top of ridge, 30 ft. above draw, bears E. and W.
	Descend.
75.00	Leave timber; enter sagebrush, bears E. and W.

Subdivision of T. 32 S., R. 22 E.

Chains	
79.50	The cor. of secs. 1,2,11 and 12.
	Rolling mountainous land, N. slope; soil, sandy loam with some gravel 6 to 24 ins. deep, dry, medium texture on rock subsoil. Timber, scattering cedar and pinon pine. Good growth of sagebrush.
	July 3, 1911.
	Eric H. Anderson
	U. S. Transitman
	July 3: At 8h 03m a.m., l.m.t., I set off 38°01' on the lat. arc; 23°03'N. on the decl. arc, and determine the meridian with the solar at the cor. of secs. 22,23,26 and 27.
	Thence I run
	N. 0°01'W. bet. secs. 22 and 23
	Over rolling mountainous land; through scattering timber and dense sagebrush undergrowth.
	Descend gently.
21.20	Bottom of canon, 20 ft. below sec. cor., course N.70°E.
	Asc. gently.
33.70	Top of ridge, 25 ft. above canon, bears NE. and SW.
	Desc.
34.50	Bottom of gently descent, 10 ft. below ridge, course E.
	Asc. gently.
38.00	Top of small ridge, 50 ft. above canon, bears N.70°E. and S.70°W.
	Desc. gently.
38.50	Bottom of gently descent, bears NE. and SW.
	Asc. gently.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 22 on W. and S 23 on E half; from which
	A pinon pine, 10 ins. diam., bears S.42°20'E., 85 lks. dist., marked ¼ S 23 B T
	A pinon pine, 14 ins. diam., bears S.78°40'W.,

Subdivision of T. 32 S., R. 22 E.

Chains	
	152 lks. dist., marked ¼ S 32 B T
	Asc. gently.
43.00	Top of ridge, 20 ft. above ¼ sec. cor., bears N.70°E. and S. 70°W.
	Descend.
46.80	Hollow, 30 ft. below ridge, course E.
	Asc. gently.
52.20	Ridge, 30 ft. above hollow, bears E. and W.
	Descend gently.
57.30	Wash, 20 lks. wide, 4 ft. deep, at foot of descent, course N.70°E.
	Ascend.
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, marked on brass cap T 32 S S 15 in NW R 22 E S 14 in NE. S 23 in SE. and S 22 in SW. quadrant; from which A pinon pine, 6 ins.diam.,bears N.7°35'E., 426 lks. dist., marked T 32 S R 22 E S 14 B T A pinon pine, 6 ins.diam.,bears N.53°27'W., 253 lks. dist., marked T 32 S R 22 E S 15 B T No other bearing trees being available, raise a mound of stone 2 ft. base, 18 ins. high, W. of cor. Rolling mountainous land, E. slope. Soil, gravelly loam 6 to 30 ins. deep, on rock subsoil. Timber, scattering cedar and pinon pine; good growth of sage-brush.
	S.89°57'E. on a random line bet. secs.14 and 23
40.00	Set temp. ¼ sec. cor.
	At this point I set off 23°01'N. on the decl. arc; and at 0h 03m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°02'

Subdivision of T. 32 S., R. 22 E.

Chains	
80.00	Intersect N. and S. line 10 lks. N. of the cor. of secs. 13,14,23 and 24.
	Thence I run
	N.89°53'W. on a true line bet.secs.14 and 23
	Over mountainous land, through heavy timber, with sage-brush undergrowth.
	Desc. gently.
2.40	Bottom of hollow, 20 ft. below sec.cor., course S.30°W.
	Ascend.
28.40	Top of ridge, 60 ft. above hollow, bears N.20°E. and S.
	Leave heavy enter scattering timber, bears NE. and SW.
	Descend.
35.70	Wash, 20 lks. wide, 6 ft. deep, in hollow, 40 ft. below ridge, course SW.
	Asc. gently.
38.40	Wash, 20 lks. wide, 3 ft. deep, in hollow, course S.40°E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., bet. secs. 14 and 23, marked on brass cap ¼ S 14 on N and S 23 on S half; from which
	A pinon pine, 16 ins.diam.,bears N.24°W., 30 lks. dist., marked ¼ S 14 B T
	A pinon pine, 18 ins.diam.,bears S.10°30'W., 81 lks. dist., marked ¼ S 23 B T
44.80	Top of ridge, 30 ft. above hollow, bears N.60°E. and S.60°W.
	Descend gently.
45.20	Bottom of descent, 10 ft. below ridge, bears N.70°E. and S.70°W.
	Ascend gently.
45.80	Mail trail, bet. Carlisle and Monticello, bears N.20°W. and S.20°E.
50.00	Top of ridge, 25 ft. above trail, bears N.40°E. and S.40°W.
	Leave scattering; enter heavy timber, bears NE. and SW.
	Descend.

Chains	
59.00	Hollow, 20 ft. below ridge, course N.70°E.
	Ascend.
67.00	Ridge, 30 ft. above hollow, bears N.60°E. and S.60°W.
	Descend.
68.00	Leave heavy; enter scattering timber, bears NW. and SE.
70.00	Hollow, 10 ft. below ridge, course N.70°E.
	Asc. gently.
80.00	The cor. of secs. 14,15,22 and 23.
	Rolling mountainous land; E. slope; soil, sandy loam with some gravel and stones 12 to 24 ins. deep; dry. Timber, cedar and pinon pine; sagebrush undergrowth.
	July 3, 1911
	Scott P. Stewart
	U. S. Transitman

July 5: At 8h 03m a.m., l.m.t., I set off 37°59' on the lat arc; 22°53'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 33 and 34 on the S. bdy. of Tp., heretofore described.

Thence I run from true cor. point.

N. 0°02'W. bet. secs. 33 and 34

Over mountainous land; through heavy timber, scattering sagebrush and grass.

Asc. abruptly over white smooth worn sandstone.

5.00	Top of abrupt ascent, 100 ft. above corner, bears E. and W.
	Ascend, gently.
7.50	Top of small spur, 25 ft. above ascent, bears N.30°E. and S.30°W.
	Desc. gently.
10.00	Bottom of hollow, 25 ft. below spur, course S.30°W.
	Ascend.
24.00	Top of ridge, 75 ft. above hollow, bears N.60°E. and S.60°W.
	Desc.
26.00	Bottom of hollow, 25 ft. below ridge, course S.60°W.

Subdivision of T. 32 S., R. 22 E.

Chains	
	Ascend.
32.00	Begin more gentle 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., bet. secs. 33 and 34, marked on brass cap ¼ S 33 on W and S 34 on E half; from which
	A pinon pine, 10 ins. diam., bears N.84°27'E., 14 lks. dist., marked ¼ S 34 B T
	A cedar, 6 ins. diam., bears N.87°20'W., 33 lks. dist., marked ¼ S 33 B T
45.00	Top of ridge, 50 ft. above ¼ sec. cor., bears N.70°E. and S.70°W. Desc. gently.
67.00	Bottom of hollow, 70 ft. below ridge, course NW. Ascend.
75.00	Top of ridge, 75 ft. above hollow, bears N.20°E. and S.20°W. Desc. gently.
78.60	Desc. abruptly over broken ledges (rim of canon) bears N.15°E. and S.15°W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 27,28,33 and 34, marked on brass cap
	T 32 S S 28 in NW
	R 22 E S 27 in NE
	S 34 in SE. and
	S 33 in SW. quadrant; from which
	A pinon pine, 8 ins. diam., bears N.56°00'E., 42 lks. dist., marked T 32 SR 22 E S 27 B T
	A pinon pine, 20 ins. diam., bears S.74°05'W., 12 lks. dist., marked T 32 S R 22 E S 34 B T
	A pinon pine, 6 ins. diam., bears S.40°00'W., 2 lks. dist., marked T 32 S R 22 E S 33 B T
	A pinon pine, 10 ins. diam., bears N.19°32'W., 46 lks. dist., marked T 32 S R 22 E S 28 B T
	Mountainous land; westerly slope. Soil, reddish gravelly loam with some stones, washed on slopes 3 to 24 ins. deep on rock subsoil.
	Timber, cedar and pinon pine.

Subdivision of T. 32 S., R. 22 E.

Chains	
	Scattering sagebrush and little grass.
	East on a random line bet. secs. 27 and 34
40.00	Set temp. ¼ sec. cor.
79.86	Intersect N. and S. line 15 lks. S. of cor. of secs. 26,27,34 and 35
	Thence I run
	S.89°54'W. on true line bet. secs. 27 and 34
	Over mountainous land; through heavy timber, with scattering sagebrush and grass undergrowth. Ascend.
2.00	Top of small ascent, 20 ft. above sec. cor., bears N. and S.
	Descend.
4.50	Bottom of hollow, 15 ft. below, ascent, course S.20°E. Ascend.
21.70	Leave heavy; enter scattering timber and dense sagebrush, bears N. and S.
39.50	Top of gentle ridge, 50 ft. above hollow, bears NE. and SW.; desc. gently.
39.93	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., bet. secs. 27 and 34, marked on brass cap ¼ S 27 on N. and S 34 on S half; from which
	A pinon pine, 10 ins.diam.,bears N.3°12'W., 52 lks. dist., marked ¼ S 27 B T
	A pinon pine, 10 ins.diam.,bears S.70°17'W., 148 lks. dist., marked ¼ S 34 B T
	At this ¼ sec. cor. I set off 22°51'N. on the decl.arc; and at 0h 03m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°00'
	Desc. gently.
41.30	Bottom of gentle hollow, 15 ft. below ¼ sec. cor., course N.30°E. Asc. gently.
54.00	Top of ridge, 20 ft. above hollow, bears N.30°E. and S. 30°W.
	Descend gently
55.50	Bottom of small descent, 10 ft. below ridge, bears N. and

Subdivision of T. 32 S., R. 22 E.

Chains	
	S. Asc.
70.00	Leave scattering timber and sagebrush; enter heavy timber, bears N. and S.
72.60	Top of ridge, 50 ft. above descent, bears N.20°E. and S.20°W. Desc. gently.
77.80	Begin abrupt descent over broken ledges (rim of canon) bears N.20°E. and S.20°W.
79.86	The cor. of secs. 27,28,33 and 34.
	Land, mountainous E. and W. slope.
	Soil, poor gravelly loam with some stones 10 to 26 ins. deep; washed on slopes; rock subsoil.
	Timber, cedar and pinon pine, scattering sagebrush.
	July 5, 1911
	Eric H. Anderson
	U. S. Transitman
	July 5: At 7h 33m a.m., l.m.t., I set off 38°02' on the lat. arc; 22°53'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 14,15,22 and 23.
	Thence I run
	N.0°01'W. bet. secs.14 and 15
	Over rolling mountainous land; through timber and dense sagebrush.
	Ascend.
6.50	Top of ridge, 30 ft. above sec. cor., bears N.80°E. and S.80°W. Descend.
10.00	Foot of steep descent, bears N.70°E. and S.70°W.
	Descend gently.
	Leave heavy; enter scattering timber, bears N.70°E. and S.70°W.
30.00	Wagon road, Carlisle to Monticello and Moab, bears E. and W.
	Enter heavy timber, bears E. and W.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in

Subdivision of T. 32 S., R. 22 E.

Chains	
	the ground for ¼ sec. cor., marked on brass cap ¼ S 15 on W and S 14 on E half; from which
	A cedar, 7 ins. diam., bears S.16°00'E., 68 lks. dist., marked ¼ S 14 B T
	A cedar, 7 ins. diam., bears S.49°00'W., 21 lks. dist., marked ¼ S 15 B T
40.40	Bottom of hollow, 250 ft. below ridge, course S.60°W.
	Ascend.
43.00	Top of ridge, 50 ft. above hollow, bears NE. and SW.
	Descend.
47.20	Head of hollow, 20 ft. below ridge, course SW.
	Ascend over ledges.
70.00	Top of ridge, 250 ft. above hollow, bears E. and W.
	At this point I set off 22°51'N. on the decl. arc, and at 0h 03m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°02'
	Desc. gently.
77.50	Leave timber; enter sagebrush, 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, marked on brass cap
	T 32 S S 10 in NW
	R 22 E S 11 in NE
	S 14 in SE
	S 15 in SW. quadrant; from which
	A cedar, 26 ins. diam., bears N.68°20'E., 427 lks. dist., marked T 32 S R 22 E S 11 B T
	A pinon pine, 16 ins. diam., bears S.44°05'E., 215 lks. dist., marked T 32 S R 22 E S 14 B T
	No other bearing trees within limits; dig pits 18x18x12 ins. in secs. 10 and 15, 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Rolling mountainous land; W. slope. Soil, sand and gravel loam, 6 to 12 ins. deep on rock and gravel subsoil; scattering cedar and pinon pine; sagebrush undergrowth.

Subdivision of T. 32 S., R. 22 E.

Chains	
	S.89°53'E. on a random line bet.secs.11 and 14
40.00	Set temp. ¼ sec. cor.
79.90	Intersect the N. and S. line 16 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 rolling mountainous land; through dense sagebrush.
	Ascend gently.
15.60	Wash, 10 lks. wide, 3 ft. deep, course SE.
20.00	Wash, 200 lks. wide, 10 ft. deep, course N.60°E.
24.00	Enter scattering timber, bears N. and S.
39.95	Set an iron post, 3 ft. long 1 in. in dia., 26 ins. in the ground for ¼ sec. cor. marked on brass cap ¼ S 11 on N. and S 14 on S half; from which
	A cedar, 26 ins. diam.,bears N.68°20'E., 427 lks. dist., marked ¼ S 11 B T
	A pinon pine, 16 ins. diam., bears S.4°45'E., 215 lks. dist., marked ¼ S 14 B T
48.50	Top of ridge, 150 ft. above sec. cor., bears N.60°E. and S. 60°W.
	Descend gently.
	Leave scattering timber, bears NE. and SW.
60.90	Trail, bears N. and S.
68.00	Head of hollow, 30 ft. below ridge, course N.20°E.
	Ascend gently.
70.00	Cattle trail, bears N. and S.
79.90	The cor. of secs. 10,11,14 and 15.
	Land rolling, mountainous. Soil, gravelly loam with some stones 12 to 24 ins. deep; dry on rock subsoil.
	Timber, a few scattering cedar and pinon pine.
	Dense sagebrush.
	N. 0°01'W. bet. secs. 10 and 11
	Over rolling mountainous land; through dense sagebrush.

Chains	
	Descend gently.
.60	Wash, 20 lks. wide, 4 ft. deep, course E.
5.70	Wash, 15 lks. wide, 3 ft. deep, in head of hollow, 30 ft. below sec. cor., course NE.
	Ascend gently.
34.00	Top of ridge, 50 ft. above hollow, bears E. and W.
	Descend.
36.00	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., marked on brass cap ¼ S 10 on W and S 11 on E half; from which A cedar, 10 ins. diam., bears S.15°15'E., 271 lks. dist., marked ¼ S 11 B T A cedar, 10 ins. diam., bears S.58°00'W., 360 lks. dist., marked ¼ S 10 B T
40.90	Wash, 30 lks. wide, 2 ft. deep, in bottom of hollow, 50 ft. below ridge, course N.80°E.
	Ascend.
58.00	Top of ridge, 50 ft. above hollow, bears E. and W.
	Descend.
65.60	Leave scattering timber, bears E. and W.
74.40	Wash, 10 lks. wide, 3 ft. deep, in head of hollow, 40 ft. below ridge, course NE.
	Asc. gently.
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, marked on brass cap T 32 S S 3 in NW R 22 E S 2 in NE S 11 in SE. and S 10 in SW. quadrant; dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land rolling, mountainous; NE. slope. Soil, sandy loam with some gravel; dry, 10 to 24 ins. deep, on rock

Subdivision of T. 32 S., R. 22 E.

Chains	
	subsoil. Scattering cedar and pinon pine; good growth of sagebrush.
	July 5, 1911 Scott P. Stewart U. S. Transitman
	July 6: At 8h 03m a.m., l.m.t., I set off 38°00' on the lat. arc; 22°47'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 27,28, 33 and 34.
	Thence I run
	N. 0°02'W. bet. secs. 27 and 28
	Over rough mountainous land; through cedar and pinon pine and scattering sagebrush.
	Descend gently along NW. slope of canon.
1.70	Hollow, 20 ft. below sec. cor., course SW.
	Asc.
14.30	Top of small spur, 25 ft. above hollow bears NE. and SW.
	Desc.
24.60	Desc. abruptly over cliff, 40 ft. high, bears E. and W. thence descend over broken ledges.
28.00	Foot of ledges, 100 ft. below cliff, bears NE. and SW.
	Desc. over talus slope.
35.20	Bottom of canon, 200 ft. below sec. cor., course N.30°E.
	Asc.
39.30	Top of small spur, 50 ft. above canon, 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., marked on brass cap ¼S 28 on W and S 27 on E half; from which
	A pinon pine, 8 ins. diam., bears N.12°46'W., 17 lks. dist., marked ¼ S 28 B T
	A pinon pine, 6 ins.diam.,bears N. 25°11'E., 14 lks. dist., marked ¼ S 27 B T

Subdivision of T. 32 S., R. 22 E.

Chains	
	Descend.
41.70	Hollow, 30 ft. below ¼ sec.cor., course N.60°E.
	Ascend over broken ledges, bears NE. and SW.
49.20	Top of ridge, 75 ft. above hollow, bears E. and W.
	Desc.
51.40	Hollow, 20 ft. below ridge, course NE.
	Ascend abruptly over ledges.
56.80	Top of small spur, 75 ft. above hollow, bears NE. and SW
	Desc.
59.70	Hollow, 30 ft. below spur, course SE.
	Asc. over smooth worn and rounding ledges.
72.00	Top of solid smooth rock spur, 200 ft. above canon, bears NE. and SW.
	At this point I set off 22°46'N. on the decl. arc, and at 0h 03m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°01'
	Descend.
76.00	Hollow, 50 ft. below spur, course NE.; ascend.
78.50	Top of ridge (divide) 10 ft. above hollow, bears N.40° E. and S.40°W. Descend.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground, on solid rock, raise a mound of stone around post, for cor. of secs. 21,22,27 and 28, marked on brass cap
	T 32 S S 21 in NW
	R 22 E S 22 in NE
	S 27 in SE. and
	S 28 in SW. quadrant; from which
	A cedar, 10 ins.diam.,bears N.10°15'E., 82 lks. dist., marked T 32 S R 22 E S 22 B T
	A pinon pine, 6 ins.diam.,bears S.23°31'W.,31 lks. dist., marked T 32 S R 22 E S 28 B T
	A pinon pine, 6 ins.diam.,bears N.62°00'W., 48 lks. dist., marked T 32 S R 22 E S 21 B T
	No other trees within limits; raise mound of stone 2 ft.

Subdivision of T. 32 S., R. 22 E.

Chains	
	base, 1½ ft. high, W. of cor.
	Mountainous land; northerly slope.
	Soil, poor gravelly loam, highly washed on slopes, 3 to 24 ins. deep; dry, coarse texture.
	Timber, cedar and pinon pine.
	Scattering sagebrush and serviceberry undergrowth.
	N.89°54'E. on random line bet. secs.22 and 27
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line 4 lks. N. of cor. of secs. 22,23,26 and 27.
	Thence I run
	S.89°56'W. on true line bet. secs. 22 and 27
	Over mountainous land; through scattering timber and sagebrush.
	Ascend gently.
25.00	Asc. over smooth rocks, bears N. and S.
31.50	Top of ridge (divide) 75 ft. above sec. cor., bears N. 15°E. and S.15°W.; Telephone line Carlisle to Monticello bears NW. and SE.
	Desc.
39.97	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in theground and raise mound of stone around post, for ¼ sec.cor., marked on brass cap ¼ S 22 on N and S 27 on S. half; from which
	A pinon pine, 6 ins.diam., bears N.41°00'W. 115 lks. dist., marked ¼ S 22 B T
	A pinon pine, 6 ins.diam., bears S.2°10'E.; 54 lks. dist., marked ¼ S 27 B T
47.00	Hollow, 25 ft. below ¼ sec. cor., course SW.
	Asc.
52.50	Top of ascent, 10 ft. above hollow, bears NE. and SW.
	Desc.
57.50	Top of ledge, 25 ft. below ridge, bears N. and S.

Subdivision of T. 32 S., R. 22 E.

Chains	
	Desc. abruptly.
60.00	Foot of ledge, 50 ft. below top, bears N. and S.
	Desc. over talus slope.
63.00	Bottom of canon, wash in bottom, 20 lks. wide, 10 ft. deep, course N. 15°E., 150 ft. below ¼ sec. cor.
	Asc. E. slope of canon.
79.30	Top of white sandstone ridge (divide) 250 ft. above canon bears N.20°E. and S.20°W.
	Descend.
79.94	The cor. of secs. 21,22,27 and 28.
	20 ft. below ridge.
	Rolling, mountainous land; northerly slope.
	Soil, poor gravelly loam, 6 to 24 ins. deep, dry; coarse texture on rock subsoil.
	Timber, cedar and pinon pine.
	Scattering buck and sagebrush. No grass.
	July 6, 1911
	Eric H Anderson
	U. S. Transitman

July 6: At 8h 03m.a.m., l.m.t., I set off 38°03' on the lat arc; 22°47'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2,3, 10 and 11.

Thence I run

East on random line bet. secs. 2 and 11

40.00	Set temp. ¼ sec. cor.
79.92	Intersect N. and S. line at the cor. of secs. 1,2,11 and 12.

Thence I run

West on true line bet. secs. 2 and 11

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

Descend.

Subdivision of T. 32 S., R. 22 E.

Chains	
2.20	Wash, 10 lks. wide, 3 ft. deep in head of hollow, 20 ft. below sec. cor., course N.20°W.
	Ascend.
4.20	Top of ascent, 20 ft. above hollow, bears N.10°E. and S. 10°W.
	Descend.
10.40	Hollow, 30 ft. below ascent, course N.20°W.
	Ascend.
16.30	Top of small spur, 30 ft. above hollow, bears N. and S.
	Descend.
18.00	Wash, 30 lks. wide, 10 ft. deep in head of hollow, 40 ft. below spur, course N.20°E.
	Asc. gently.
25.00	Leave scattering timber, bears NW. and SE.
39.96	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 2 on N. and S 11 on S half; from which
	A lone pinon pine, 8 ins. diam., bears N.66°15'E. 825 lks. dist., marked ¼ S 2 B T
	No other bearing trees within limits; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist.; raise mound of earth 4 ft. base, 2 ft. high, N. of cor.
40.75	Trail, bears N.60°W. and S.60°E.
56.75	Trail, bears N.30°E. and S.30°W.
64.50	Begin ascent of sandstone knoll, bears N. and S.
65.75	Top of knoll is 50 lks. N. of line.
	Descend.
66.50	Foot of knoll, bears N. and S.
70.50	Old wagon road, bears N. and S.
71.00	Head of hollow, 30 ft. below sandstone knoll, course N.30°E.
79.92	The cor. of secs. 2,3,10 and 11.
	Rolling mountainous land; N. slope. Soil, sandy loam with some gravel, 12 to 36 ins. deep, dry; medium texture; on rock subsoil. Timber, scattering cedar and

Chains	
	pinon pine. Dense sagebrush and a little bunch grass.
	July 6: At the cor. of secs. 2,3,10 and 11, I set off 22°46'N. on the decl. arc; and at 0h 03m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°03'
	Thence I run
	N. 0°01'W. on a random line bet. secs.2 and 3
40.00	Set temp. ¼ sec. cor.
79.50	Intersect the north boundary of Tp. 3 lks. E. of cor. of secs. 2,3,34 and 35, heretofore described.
	Thence I run
	S. 0°02'E. on a true line bet.secs.2 and 3
	Over rolling mountainous land; through heavy timber.
	Desc. abruptly over ledges.
5.00	Foot of ledge, bears NE. and SW.
8.00	Bottom of hollow, 150 ft. below sec.cor., course N.70°E.
	Ascend.
11.50	Top of small ridge, 30 ft. above hollow, bears E. and W.
	Descend.
14.60	Bottom of hollow, 30 ft. below ridge, course N.60°E.
	Ascend.
34.00	Leave heavy timber; enter dense sagebrush, bears NE. and SW.
35.00	Top of ridge, 200 ft. above hollow, bears E. and W.
	Descend.
38.50	Trail, bears NE. and SW.
39.50	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., bet. secs. 2 and 3, marked on brass cap ¼ S 3 on W half S 2 on E half; from which
	A pinon pine, 5 ins.diam.,bears N.40°00'E., 6.34 chs. dist., marked ¼ S 2 B T
	A pinon pine, 10 ins.diam.,bears N.1°00'W., 5.62 chs. dist., marked ¼ S 3 B T

Subdivision of T. 32 S., R. 22 E.

Chains	
44.00	Head of hollow, 20 ft. below ridge, course NE.
	Ascend.
53.00	Enter scattering timber, bears E. and W.
60.00	Top of ridge, 40 ft. above hollow, bears E. and W.
	Descend.
66.30	Ledge, 10 ft. high, bears E. and W.
	Desc. abruptly.
70.00	Foot of abrupt descent, bears E. and W.
	Leave scattering timber, bears E. and W.
79.50	The cor. of secs. 2,3,10 and 11.
	Rolling mountainous land, NE. slope.
	Soil, sandy loam with some gravel 8 to 24 ins. deep, medium texture, dry.
	N. 34 chs. heavy timber. S. 26 chs. scattering timber.
	Sagebrush and a little grass undergrowth
	July 6, 1911
	Geo. W. Stewart
	U. S. Transitman

July 7: At 7h 33m a.m., l.m.t., I set off 38°01' on the lat. arc; 22°41'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 rough mountainous land; through scattering timber and sagebrush.

Descend steep slope.

1.80	Bottom of hollow, 25 ft. below sec. cor., course SW.
	Asc. gently.
6.00	Ascend abruptly over smooth ledge, bears E. and W.
6.40	Top of small rock spur, 20 ft. above hollow, bears E. and W.
	Desc.
7.50	Bottom of hollow, 15 ft. below spur, course SW. Asc.

Subdivision of T. 32 S., R. 22 E.

Chains	
13.90	Top of small spur, 20 ft. above hollow, bears NE. and SW. Desc.
19.50	Hollow, 20 ft. below spur, course SW.
22.70	Top of ridge, 40 ft. above hollow, bears NE. and SW. Desc. gently.
23.60	Desc. abruptly over broken ledges, bears NW. and SE.
28.50	Foot of abrupt descent, 75 ft. below ridge. Desc. gently.
32.70	Desc. abruptly over broken red ledges, bear NW. and SE.
40.00	Foot of abrupt descent, 300 ft. below top of ridge, bears NW. and SE.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 21 on W. and S 22 on E half; from which
	A cedar, 18 ins. diam., bears S.66°20'E., 33 lks. dist., marked ¼ S 22 B T
	A pinon pine, 10 ins.diam.,bears N.63°07'W. 55 lks. dist., marked ¼ S 21 B T
	Descend gently.
40.40	Wash, 15 lks. wide, 3 ft. deep in bottom of canon, 10 ft. below ¼ sec. cor., course N. 60°W.
41.60	Telephone line bet. Carlisle and Monticello, bears N.60° W. and S. 60°E.
50.00	Top of spur, 50 ft. above canon, bears N.80°E. and S.80° W. Desc. gently.
52.40	Wagon road bet. Carlisle and Monticello and Moab, bears N.70°E. and S.70°W.
52.50	Desc. abruptly.
53.50	Wash in bottom of canyon, 15 lks. wide, 3 ft. deep, course S.70°W., 50 ft. below road. Ascend abruptly.
57.50	Top of abrupt ascent, 75 ft. above canon, bears E. andW. Asc. gently.
60.00	Top of ridge, 25 ft. above gentle ascent, bears N.60°W. and S.60°E.

Subdivision of T. 32 S., R. 22 E.

Chains	
	Desc.
66.60	Small hollow, 20 ft. below ridge, course SW. Asc.
74.30	Top of ridge, 50 ft. above hollow, bears NE. and SW. Descend.
77.50	Bottom of hollow, 20 ft. below ridge, course S.20°W. Ascend.
79.85	Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground, on solid rock, and raise mound of stone around post, for witness cor. to cor. of secs. 15,16, 21 and 22, marked on brass cap T 32 S S 16 in NW W C R 22 E S 15 in NE S 22 in SE. and S 21 in SW. quadrant; from which A pinon pine, 6 ins.diam.,bears N.66°58'E., 67 lks. dist., marked W C T 32 S R 22 E S 15 B T A pinon pine, 10 ins.diam.,bears S.75°25'E., 80 lks. dist., marked W C T 32 S R 22 E S 22 B T A pinon pine, 6 ins. diam., bears S.76°34'W.177 lks. dist., marked W C T 32 SR 22 E S 21 B T A pinon pine,12 ins.diam.,bears N.75°10'W., 84 lks. dist., marked W C T 32 S R 22 E S 16 B T
80.00	Point for sec. cor. falls on solid rock, chisel cross in rock to mark point. At this point I set off 22°40'N. on the decl. arc. and at 0h 03m p.m.l.m.t., observe the sun on the meridian, the resulting lat. is 38°02'. Mountainous land NW. and SW. slope. Soil, poor gravelly loam; washed on slopes, stone, 3 to 24 ins. deep on sandstone subsoil. Timber, cedar and pinon pine. Scattering sagebrush and serviceberry undergrowth.
	N.89°56'E. on a random line bet.secs.15 and 22
40.00	Set temp. ¼ sec. cor.

Subdivision of T. 32 S., R. 22 E.

Chains	
79.96	Intersect N. and S. line 5 lks. N. of cor. of secs. 14,15,22 and 23.
	Thence I run,
	S.89°W. on a true line bet. secs. 15 and 22
	Over mountainous land; through scattering timber and sagebrush.
	Ascend.
5.00	Top of ridge, 30 ft. above sec.cor., bears NE. and SW.
	Desc. over broken ledges.
17.70	Bottom of hollow, 75 ft. below ridge, course S.50°W.
	Asc.
19.00	Small ledge, 10 ft. above hollow, bears NE. and SW.
	Desc.
28.50	Bottom of hollow, 50 ft. below ledge, course SW.
	Asc.
39.98	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 15 on N. and S 22 on S half; from which
	A pinon pine, 16 ins.diam.,bears N.47°10'W., 110 lks.dist., marked ¼ S 15 B T
	A pinon pine, 12 ins.diam.,bears S.2°47'E., 135 lks. dist., marked ¼ S 22 B T
44.50	Top of ridge, 15 ft. above ¼ sec. cor., bears NE. and SW
	Desc.
48.30	Wagon road from Carlisle to Monticello and Moab bears N.20°E. and S.20°W.
	Desc. abruptly into canon.
52.50	Wash, 15 lks. wide, 4 ft. deep, in bottom of canon, 75 ft. below ridge, course S.30°W.
60.00	Top of spur, 60 ft. above canon, bears N.30°E. and S.30° W. Desc.
63.00	Bottom of descent, bears NE. and SW. 10 ft. below spur.
	Ascend.
66.50	Begin abrupt ascent over broken ledges, bears NE. and SW.

Subdivision of T. 32 S., R. 22 E.

Chains	
73.60	Top of spur, 40 ft. above descent, bears N. and S. Descend.
75.00	Bottom of hollow, 25 ft. below ridge, course S. Ascend.
79.96	The cor. of secs. 15,16,21 and 22; true cor. point. Rolling mountainous land, W. slope. Soil, gravelly loam 3 to 24 ins. deep, washed on slope, dry. Timber, cedar and pinon pine. Sagebrush and a little grass undergrowth.

July 7, 1911.

Eric H. Anderson

U. S. Transitman

July 7: At 8h 03m a.m., l.m.t., I set off 37°59' on the lat. arc; 22°41'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 32 and 33 on the S. bdy. of Tp., heretofore described. Thence I run

N.0°03'W. bet. secs. 32 and 33

Over mountainous land; through heavy timber, oak, serviceberry and buck brush. Desc.

1.20	Bottom of hollow, 50 ft. below sec. cor., course N.60°E. Ascend.
6.40	Top of ridge, 40 ft. above hollow, bears N.80°E. and S. 80°W. Desc.
17.10	Bottom of canon, 350 ft. below ridge, course N.80°E. Ascend abruptly.
23.40	Top of ridge, 100 ft. above canon, bears E. and W.
24.00	Cliff 50 ft. high, bears E. and W. Desc.
27.40	Bottom of canon, 200 ft. below ridge, course E. Ascend abruptly over broken ledges.
31.40	Top of ledges, 200 ft. above canon, bears E. and W. Asc. gently.
35.10	Foot of ledge, 50 ft. high, bears N.70°E. and S.70°W.
38.50	Ascend over ledges, 30 ft. high, bears E and W.

Subdivision of T. 32 S., R. 22 E.

Chains	
39.00	Top of ledge;
	Asc. gently.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock, raise mound of stone around post for ¼ sec. cor., marked on brass cap ¼ S 32 on W. and S 33 on E half; from which
	A cedar, 10 ins.diam.,bears N.83°45'E., 73 lks. dist,, marked ¼ S 33 B T
	A pinon pine, 5 ins.diam.,bears N.65°10'W., 60 lks. dist., marked ¼ S 32 B T
41.50	Ascend abruptly over smooth sandstone.
49.00	Top of sandstone spur, 150 ft. above ¼ sec.cor.,bears N.30°E. and S.30°W.
	Desc. abruptly.
54.50	Bottom of canon, 200 ft. below spur, course N.70°E.
	Ascend.
60.00	Top of spur, 100 ft. above canon, bears N.70°W. and S.70°E.
	Descend abruptly over broken ledges, bear N.30°W. and S.30°E.
74.50	Begin more abrupt descent, 200 ft. below top of spur, bears N.30°E. and S.30°W.
80.00	Point for cor. of secs. 28,29,32 and 33, falls on smooth red sandstone, in bottom of canon, chisel cross in rock to mark point. Asc.
80.27	Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground, on solid rock, raise mound of stone around post, for WC to cor. of secs. 28,29,32 and 33, marked on brass cap
	T 32 S S 29 in NW
	W C R 22 E S 28 in NE
	S 33 in SE and
	S 32 in SW. quadrant; from which
	A cedar, 6 ins.diam.,bears N.22°25'E., 52 lks. dist., marked T 32 S R 22 E S 28 B T.

Subdivision of T. 32 S., R. 22 E.

Chains	
	A cedar, 8 ins.diam.,bears S.48°07'E., 85 lks. dist., marked W C T 32 S R 22 E S 33 B T
	A cedar, 18 ins.diam.,bears S.26°10'W., 87 lks. dist., marked W C T 32 S R 22 E S 32 B T
	No other tree being available, raise mound of stone 2½ ft. base, 18 ins. high, W. of cor.
	Very rough, and broken mountainous land, NE. slope. Soil, poor gravelly loam, with stones 1 to 12 ins. deep, highly washed on slopes; rock subsoil. Timber, cedar and pinon pine; oak, serviceberry and buck brush undergrowth.
	July 7: At this sec. cor., I set off 22°40'N. on the decl.arc; and at 0h 03m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°00'
	Thence I run
	E. on a random line bet. secs. 28 and 33
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line 10 lks. N. of the cor. of secs. 27,28,33 and 34.
	Thence I run
	N.89°56'W. bet.secs. 28 and 33, on true line
	Over mountainous land; through timber, and scattering sagebrush.
	Descend.
9.50	Bottom of canon, 100 ft. below sec. cor., course N.20°E.
	Ascend.
16.90	Top of spur, 50 ft. above canon, bears NE. and SW.
	Desc.
17.40	Bottom of hollow, 15 ft. below spur, course N.60°E.
	Asc. gently.
39.50	Top of ridge, 100 ft. above canon, bears N.20°E. and S.20°W.
	Desc. gently:
40.02	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in

Subdivision of T. 32 S., R. 22 E.

Chains	
	the ground, on solid rock, raise mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 28 on N. and S 33 on S half; from which
	A pinon pine, 8 ins.diam., bears N.64°40'E., 20 lks. dist., marked ¼ S 28 B T
	A pinon pine, 8 ins.diam., bears S.18°52'W., 21 lks. dist., marked ¼ S 33 B T
40.45	Begin abrupt descent, bears N.20°E. and S.20°W.
45.50	Foot of abrupt descent, 50 ft. below ¼ sec. cor., bears N. and S.
	Desc. gently.
47.20	Bottom of hollow, 70 ft. below ¼ sec.cor., course S.30° W. Asc.
52.80	Top of small ridge, 20 ft. above hollow, bears N.30°E. and S.30°W. Desc. abruptly over broken ledges, bear N.20°E. and S.20°W.
64.50	Foot of steep descent, 350 ft. below ridge, bears N. and S. Enter Indian Creek, canon, desc. gently.
70.60	Indian Creek, 30 lks.wide, stream 8 lks. wide, 10 ins. deep, rapid current, rocky bottom, course N.
	Note: Cottonwood trees grow along creek.
	Ascend.
71.60	Trail, bears N.10°W. and S.10°E.
74.50	Leave canon bottom, begin abrupt ascent over broken ledges, bear N. and S.
78.20	Top of rocky spur, 90 ft. above canon, bears NE. and SW.
80.04	Bottom of canon, 75 ft. below spur.
	Intersect point for cor. secs. 28,29,32 and 33.
	Rolling mountainous land, northerly slope. Soil, gravelly loam; stony; washed on ridges 3 to 12 ins. deep, except Indian Canon bottom which is composed of good sandy loam 12 to 36 ins. deep. Timber, cedar and pinon pine. Scattering sagebrush and buck brush.
	July 7, 1911
	Scott P. Stewart
	U.S.Transitman.

Subdivision of T. 32 S., R. 22 E.

Chains	
	July 8: At 8h 05m a.m., l.m.t., I set off 38°02' on the lat. arc; 22°35'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 15,16,21 and 22. Thence I run
	N. 0°02'W. bet. secs. 15 and 16
	Over mountainous land, through heavy timber and scattering sagebrush.
	Ascend.
2.00	Top of ascent, 10 ft. above sec. cor., bears NE. and SW.
	Descend.
4.50	Bottom of hollow, 50 ft. below sec. cor., course SW.
	Ascend.
32.00	Top of ridge, 200 ft. above hollow, bears NE. and SW.
	Descend.
39.80	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for witness cor. to ¼ sec. cor., marked on brass cap T 32 S R 22 E W C ¼ on N. half, S 16 on W and S 15 on E half; from which
	A pinon pine, 12 ins. diam., bears N.54°E., 15 lks. dist., marked W C ¼ S 15 B T
	A pinon pine, 12 ins. diam., bears N.78°W., 53 lks. dist., marked W C ¼ S 16 B T
40.00	Point for ¼ sec. cor. falls in wash, 20 lks. wide, 3 ft. deep, course SW. Cor. not set.
	Ascend over sandstone ledges.
47.90	South edge of ridge, 50 ft. above wash, bears NW. and S.80°E.; thence nearly level land.
57.50	North edge of same ridge, bears N.30°E. and SW.
	Descend over loose sandstone ledges bear NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground and raise mound of stone around post, for cor. of secs. 9,10,15 and 16, marked on brass cap
	T 32 S S 9 in NW
	R 22 E S 10 in NE
	S 15 in SE. and

Subdivision of T. 32 S., R. 22 E.

Chains.

S 16 in SW. quadrant; from which

A pinon pine, 10 ins.diam., bears N.42°00'E., 55 lks. dist., marked T 32 S R 22 E S 10 B T

A pinon pine, 8 ins.diam., bears S.17°15'E., 84 lks. dist., marked T 32 S R 22 E S 15 B T

A cedar, 8 ins.diam., bears S.57°15'W., 55 lks. dist., marked T 32 SR 22 E S 16 B T

A pinon pine, 8 ins.diam., bears N.70°30'W., 53 lks. dist., marked T 32 S R 22 E S 9 B T

Mountainous land, SW. slope. Soil, light, gravelly loam, 6 to 24 ins.deep; washed on slopes, on rock subsoil. Heavy cedar and pinon pine; scattering sagebrush.

N.89°58'E. on random line bet.secs. 10 and 15

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line 4 lks. N. of cor. of secs. 10, 11,14 and 15.

At noon sky overcast, solar observation impossible.

Thence I run

West on true line bet. secs. 10 and 15

Over rolling mountainous land; through dense sagebrush.

Asc. gently.

1.25 Wash, 30 lks. wide, 3 ft. deep, course N.60°E.

3.85 Wash, 15 lks. wide, 3 ft. deep, course N.20°E.

Asc. gently.

10.00 Top of small ridge, 20 ft. above wash, bears N. and S.

Desc. gently.

21.20 Wash, 20 lks. wide, 5 ft. deep, course N.60°E.

23.60 Head of hollow, 30 ft. below ridge, course N.60°E.

Ascend.

30.00 Enter scattering timber, bears N. and S.

35.00 Begin more gentle ascent, bears N. and S.

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

Subdivision of T. 32 S., R. 22 E.

Chains	
	ground for ¼ sec. cor., marked on brass cap ¼ S 10 on N and S 15 on S half; from which
	A pinon pine, 12 ins.diam., bears N.82°50'E., 628 lks. dist., marked ¼ S 10 B T
	A pinon pine, 14 ins.diam. bears S.88°50'E., 7.23 chs. dist., marked ¼ S 15 B T
46.40	Trail, bears N.20°E. and S.20°W.
57.50	Enter heavy timber, bears N. and S.
57.60	Top of ridge, 100 ft. above sec. cor., bears N. and S. Descend.
77.15	Wash, 15 lks. wide, 3 ft. deep, in head of hollow, course NW.
80.00	The cor. of secs. 9,10,15 and 16.
	Rolling mountainous land, NE. slope. Soil, gravelly loam, 10 to 24 ins. deep on rock subsoil. E.30 chs. dense sagebrush. No timber. W.50 chs. cedar and pinon pine; scattering sagebrush.
	July 8, 1911
	Eric H. Anderson
	U. S. Transitman

July 8: At 8h 05m a.m.,l.m.t., I set off 38°00' on the lat arc; 22°35'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 28,29,32 and 33, (true cor. point)

Thence I run

N. 0°03'W. bet. secs. 28 and 29

Over mountainous land; through scattering timber, dense serviceberry, buck brush, and sagebrush undergrowth.

Ascend abruptly.from W.C.

3.50 Top of ledges, 75 ft. above W.C.bears N.30°E. and S.30°W. Asc. gently.

19.50 Top of spur, 130 ft. above W.C. bears N.70°E. and S.70°W. Descend.

Subdivision of T. 32 S., R. 22 E.

Chains	
24.60	Bottom of canon, 75 ft. below spur, course N.70°E.
	Ascend.
30.40	Begin abrupt ascent over ledges, bear N.20°E. and S.20°W.
	Ascend.
31.30	Top of ledge, 50 ft. high, bears N.20°E. and S.20°W.
33.00	Ascend abruptly over smooth sandstone ledge, bears E. and W.
35.00	Top of sandstone spur, 150 ft. above canon, bears E. and W. Desc. gently.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock, and raise mound of stone around post, for ¼ sec.cor., marked on brass cap ¼S 29 on W and S 28 on E half; from which
	A pinon pine, 8 ins.diam., bears N.20°49'E., 38 lks. dist., marked ¼ S 28 B T
	A pinon pine, 6 ins.diam., bears S.75°20'W., 63 lks. dist., marked ¼ S 29 B T
	Note:- Ledge of rock, 9 ft. high, 15 lks. W. of cor. and corner is located in head of hollow, 20 ft. below ridge, course NE.
	Ascend.
45.00	Top of spur, 25 ft. above ¼ sec. cor., bears N.70°E. and S.70°W.
	Desc. gently.
51.80	Bottom of hollow, 20 ft. below spur, course E.
	Asc. gently over large sharp edged boulders.
61.00	Top of ridge, 30 ft. above hollow, bears N.60°E. and S.60°W.
	Descend abruptly.
71.80	Bottom of canon, 150 ft. below ridge, course N.70°E.
	Ascend over broken ledges.
77.40	Top of abrupt ascent and top of ledges, 50 ft. above canon, bears N.30°E. and S.30°W.
	Ascend gently.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in

Subdivision of T. 32 S., R. 22 E.

Chains	
	the ground, on solid rock, raise mound of stone around post, for cor. of secs. 20,21,28 and 29, marked on brass cap
	T 32.S S 20 in NW
	R 22 E S 21 in NE
	S 28 in SE. and
	S 29 in SW. quadrant; from which
	A pinon pine, 4 ins.diam.,bears N.39°00'E., 29 lks. dist., marked T 32 S R.22 E S 21 B T
	A pinon pine, 6 ins.diam.,bears S.38°15'E., 24 lks. dist., marked T.32 SR 22 E S 28 B T
	A pinon pine, 6 ins.diam.,bears S.13°15'W., 41 lks. dist., marked T 32 S R 22 E S 29 B T
	A pinon pine, 12 ins.diam.,bears N.68°30'W., 71 lks. dist., marked T 32 SR 22 E.S 20 B T
	Mountainous land, E. slope. Soil, poor gravelly loam, stony, washed on slopes, dry, 3 to 12 ins. deep on rock subsoil. Scattering cedar and pinon pine; service berry buckbrush and sagebrush undergrowth.
	S.89°56'E. on random line bet.secs.21 and 28
40.00	Set temp. ¼ sec. cor.
79.90	Intersect the N. and S. line at the cor. of secs. 21, 22,27 and 28.
	At noon, the sky overcast, prevents solar observation.
	Thence I run
	N.89°56'W. on a true line bet. secs. 21 and 28
	Over mountainous land; through heavy timber, and scattering sagebrush and serviceberry.
	Desc.
9.80	Bottom of canon, 200 ft. below sec. cor., course N.10°W.
	Asc. abruptly.
14.80	Top of spur, 125 ft. above canon, bears N.30°E. and S.30°W.
	Desc. abruptly.

Subdivision of T. 32 S., R. 22 E.

Chains	
16.00	Foot of abrupt descent, 20 ft. below spur, bears N.30°E. and S.30°W.
	Ascend.
19.50	Top of abrupt ascent, 120 ft. above descent, bears N.20° E. and S. 20°W.
	Asc. gently.
24.80	Top of ridge, 150 ft. above ascent, bears N.10°W. and S.10°E.
	Descend.
32.50	Top of ledge, 25 ft. high, bears N.10°W. and S.10°E.
	Desc. abruptly.
33.70	Bottom of canon, 125 ft. below ridge, course N.10°W.
	Ascend abruptly.
36.80	Top of abrupt ascent, 75 ft. above canon, course N. and S. Asc. gently.
39.95	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock, raise mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 21 on N. and S 28 on S half; from which
	A pinon pine, 6 ins.diam.,bears N.32°30'E., 15 lks. dist., marked ¼ S 21 B T
	A pinon pine, 6 ins.diam.,bears S.69°38'W., 34 lks. dist., marked ¼ S 28 B T
43.00	Top of cliff, 30 ft. high, bears N.20°E. and S.20°W.
	Descend abruptly.
44.60	Bottom of canon, 75 ft. below ridge, course N.20°E.
	Ascend.
53.70	Begin abrupt ascent, bears N.10°E. and S.10°W.
57.30	Top of white sandstone spur, 200 ft. above canon, bears N. and S.
	Jackson's cabin bears N.1°22'E.
	Desc. abruptly over smooth white sandstone ledges.
65.40	Foot of ledges, 700 ft. below spur, bears N. and S.
	Enter Indian Creek Canon, bears N. and S., through cottonwood trees and dense oak brush.

Subdivision of T. 32 S., R. 22 E.

Chains	
71.30	Indian Creek, 30 lks. wide, stream 15 lks. wide, 1 ft. deep, course N.
	Ascend gently.
74.40	Leave Indian Creek Canon, begin abrupt ascent, over ledges, brs. N. and S.
79.70	Top of ledges, 200 ft. above canon, bears N. and S.
79.90	The cor. of secs. 20,21,28 and 29.
	Mountainous land; N. slope. Soil, poor gravelly soil with stones and washed on ridges, 6 to 18 ins. deep on bedrock of sandstone. Good sandy loam, 12 to 36 ins. deep in Indian Canon bottom, Scattering cedar and pinon pine. Scattering sagebrush.
	July 8, 1911.
	Ted H. Stewart
	U. S. Transitman

July 10: At 8h 05m a.m., l.m.t., I set off 38°03' on the lat. arc; 22°21'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9,10,15 and 16.

Thence I run

N. 0° 02'W. bet. secs. 9 and 10

Over mountainous land; through heavy timber and scattering sagebrush.

Descend.

2.30	Trail, bears E. and W.
8.00	Hollow, course W. Asc. gently.
12.50	Top of ridge, 30 ft. above hollow, bears E. and W.
	Descend.
35.90	Foot of sloping sandstone ledge, 100 ft. high, bears N. 80°E. and S. 80°W.
40.00	Point for ¼ sec. cor. falls in wash, 10 lks. wide, 1 ft. deep, course SW. Cor. not set.
	Descend.

Subdivision of T. 32 S., R. 22 E.

Chains	
40.27	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for W C to ¼ sec. cor., marked on brass cap T 32 S R 22 E W C ¼ near north edge, S 9 on W half and S 10 on E half; from which A pinon pine, 8 ins.diam.,bears N.74°30'E., 16 lks. dist., marked W C ¼ S 10 B T A pinon pine 10 ins.diam.,bears N.10°00'W., 58 lks. dist., marked W C ¼ S 9 B T
41.70	Bottom of canon, 400 ft. below top of ridge, course S. 70°W.
	Ascend over broken ledges.
47.10	Top of ledge, 30 ft. high, bears E. and W.
55.70	Trail, bears E. and W.
65.00	Begin more abrupt ascent, bears E. and W.
66.60	Trail, 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. 3,4,9 and 10, marked on brass cap T 32 S S 4 in NW R 22 E S 3 in NE S 10 in SE. and S 9 in SW. quadrant; from which A pinon pine, 10 ins.diam.,bears N.39°15'E., 88 lks.dist.,marked T 32 S R 22 E S 3 B T A pinon pine, 8 ins.diam.,bears S.39°00'E., 83 lks. dist., marked T 32 S R 22 E S 10 B T A pinon pine, 8 ins.diam.,bears S.54°00'W., 77 lks. dist., marked T 32 S R 22 E S 9 B T A pinon pine, 8 ins.diam.,bears N.41°00'W., 78 lks. dist., marked T 32 S R 22 E S 4 B T Rolling, mountainous land, W. slope. Soil, medium grade sandy loam with some gravel, washed on slopes, 6 to 24 ins. deep on rocky subsoil. Heavy cedar and pinon pine; scattering sagebrush.

Subdivision of T. 32 S., R. 22 E.

Chains	
	East on random line bet. secs. 3 and 10
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at cor. of secs. 2,3,10 and 11.
	Thence I run
	West on true line bet. secs. 3 and 10
	Over rolling mountainous land; through dense sagebrush and scattering undergrowth.
	Ascend.
	At noon sky overcast, solar observation impossible.
22.00	Top of ridge, 50 ft. above sec. cor., bears NE. and SW.
	Desc. gently.
36.10	Trail in head of hollow, 20 ft. below ridge, brs. NE. and SW.; course of hollow SW.
	Asc. gently.
40.00	Top of ridge, 30 ft. above hollow, bears N. and S.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 3 on N. and S 10 on S half; from which
	A pinon pine, 10 ins.diam.,bears N.54°15'W., 165 lks. dist., marked ¼ S 3 B T
	A pinon pine, 10 ins.diam.,bears S.38°45'W., 97 lks. dist., marked ¼ S 10 B T
	Desc.
46.65	Trail, bears NE. and SW.
47.10	Bottom of hollow, 40 ft. below ridge, course SW.
	Ascend.
51.80	Top of ridge, 30 ft. above hollow, bears N. and S.
	Descend.
57.00	Bottom of hollow, 40 ft. below ridge, course S.
	Ascend.
72.60	Top of ridge, 50 ft. above hollow, bears N. and S.
	Descend.
80.00	The cor. of secs. 3,4,9 and 10.
	Rolling mountainous land, SW. slope. Soil, sandy loam with some gravel 12 to 24 ins. deep on rock and gravel

Subdivision of T. 32 S., R. 22 E.

Chains	
	subsoil. Very scattering cedar and pinon pine, dense sagebrush and a little grass.
	July 10, 1911.
	Eric H. Anderson
	U. S. Transitman
	July 10: At 8h 05m a.m., l.m.t., I set off 37°59' on the lat. arc; 22°21'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 31 and 32, on the S. bdy. of Tp., heretofore described.
	Thence I run
	N.0°03'W. bet. secs. 31 and 32
	Over mountainous land; through dense oak and serviceberry brush.
	Descend abruptly.
6.50	Head of canon, 150 ft. below sec. cor., course N.70°E.
	Asc.
11.10	Top of boulder, 30x20x16 ft. high, on line.
13.00	Bottom of canon, 200 ft. below sec. cor., course E.
	Enter heavy timber, bears E. and W.
	Ascend abruptly.
26.80	Top of ridge, 80 ft. above canon, bears N.50°E. and S.50°W.
	Descend.
30.00	Head of canon, 50 ft. below ridge, course N.70°E.
	Ascend gently.
34.50	Top of ridge, 30 ft. above canon, bears N.30°E. and S. 30°W. Descend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 31 on W and S 32 on E half; from which
	A pinon pine, 12 ins.diam.,bears N.81°59'E., 34 lks. dist.,marked ¼ S 32 B T
	A pinon pine, 12 ins.diam.,bears N.60°00'W., 43 lks. dist., marked ¼ S 31 B T

Subdivision of T. 32 S., R. 22 E.

Chains	
	Descend over steep spur of Shay Mountains, through heavy timber and oak brush and serviceberry.
68.00	Bottom of canon, 860 ft. below ridge, course N.30°E. Ascend.
70.40	Top of ridge, 35 ft. above canon, bears N.40°E and S.40°W. Desc. gently.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground on solid rock, raise mound of stone around post, for cor. of secs. 29,30,31 and 32, marked on brass cap T 32 S S 30 in NW R 22 E S 29 in NE S 32 in SE. and S 31 in SW. quadrant; from which A pinon pine, 8 ins. diam., bears N.40°50'E., 25 lks. dist., marked T 32 S R 22 E S 29 B T A pinon pine, 8 ins. diam., bears S.87°05'E., 27 lks. dist., marked T 32 S R 22 E S 32 B T A cedar, 10 ins. diam., bears S.44°34'W., 12 lks. dist., marked T 32 S R 22 E S 31 B T A pinon pine, 12 ins. diam., bears N.73°31'W., 79 lks. dist., marked T 32 S R 22 E S 30 B T. Mountainous land; NE. slope. Soil, sandy loam with gravel of fair quality 12 to 24 ins. deep on rock and gravel subsoil. Timber, scattering cedar and pinon pine; oak and serviceberry brush undergrowth.
	East on a random line bet. secs. 29 and 32
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 7 lks. N. of cor. of secs. 28, 29,32 and 33.
	At noon sky overcast, observation for lat. impossible. Thence I run

Subdivision of T. 32 S., R. 22 E.

Chains	
	N.89°57'W. on true line bet.secs.29 and 32
	Over mountainous land; through timber, scattering sage-brush and serviceberry.
	Ascend abruptly.
10.00	Top of abrupt ascent, 400 ft. above sec. cor., bears N. and S. Asc.
22.00	Top of ridge, 600 ft. above sec. cor., bears N.20°E. and S.20°W. Desc.
26.00	Hollow, 60 ft. below ridge, course N.30°E.
	Ascend abruptly.
36.70	Top of ridge, 100 ft. above hollow, bears N.20°E. and S.20°W.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock, raise mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 29 on N and S 32 on S half; from which
	A pinon pine, 6 ins. diam., bears N.26°06'E., 45 lks. dist., marked ¼ S 29 B T
	A pinon pine, 4 ins. diam., bears S.37°30'E., 17 lks. dist., marked ¼ S 32 B T
44.20	Bottom of canon, 100 ft. below ¼ sec. cor., course N.10° E.
	Asc. abruptly.
46.40	Top of abrupt ascent, 60 ft. above canon, bears N. and S.
	Asc. gently.
51.00	Top of ridge, 75 ft. above canon, bears N.40°E. and S. 40°W. Desc.
55.00	Bottom of canon, 125 ft. below ridge, course NE.
	Ascend.
73.70	Top of abrupt ascent, 125 ft. above canon, bears NE. and SW. Asc. gently.
80.00	The cor. of secs. 29,30,31 and 32.
	Mountainous land; NE. slope. Soil, sandy and gravelly loam with some stones, poor, 3 to 12 ins. deep, on rock subsoil; cedar and pinon pine timber. Scatter-

Chains	
	ing sagebrush.
	July 10, 1911
	Scott P. Stewart
	U. S. Transitman
	July 11: At 8h 35m a.m., l.m.t., I set off 38°03' on the lat. arc; 22°13'N. on the decl. arc. and determine a meridian with the solar at the cor. of secs. 3,4,9, and 10
	Thence I run
	N.0°02'W. on a random line bet. secs. 3 and 4
40.00	Set temp. ¼ sec. cor.
79.65	Intersect N. bdy. of Tp. at the cor. of secs. 3,4,33 and 34, heretofore described.
	At this point I set off 22°12'N. on the decl. arc; and at 0h 05m p.m., l.m.t., observe the sun on the meridian the resulting lat. is 38°04'
	Thence I run
	S.0°02'E. on true line bet. secs. 3 and 4
	Over rolling mountainous land, through heavy timber and scattering sagebrush.
	Desc.
.85	Wash, 20 lks. wide, 4 ft. deep, course SW.
9.85	Trail, bears NE. and S.60°W.
19.65	Bottom of draw, 30 ft. below sec. cor., course S.80°W.
	Asc.
39.65	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 4 on W and S 3 on E half; from which
	A pinon pine, 10 ins.diam.,bears N.49°00'E., 42 lks. dist., marked ¼ S 3 B T
	A pinon pine, 10 ins.diam.,bears S.55°00'W., 34 lks.dist., marked ¼ S 4 B T
	Ascend.
49.65	N. edge of ridge, 75 ft. above ¼ sec.cor.,bears NE. and

Chains	
	Sw.
	Begin gentle ascent, very nearly level across flat top ridge.
56.65	South edge of ridge, bears E. and W.
	Desc. abruptly.
78.15	Top of sloping ledge, 100 ft. below edge of ridge, bears E. and W.
	Descend over ledges.
79.65	The cor. of secs. 3,4,9 and 10.
	Rolling mountainous land, SW. slope. Soil, medium quality sand and gravel loam 12 to 24 ins. deep, dry, on rock and gravel subsoil. Heavy cedar and pinon pine, scattering sagebrush.
	July 11, 1911.
	Eric H Anderson U. S. Transitman
	July 11: At 8h 05m a.m., l.m.t., I set off 38°00' on the lat. arc; 22°14'N. on the decl. arc; and determine the meridian with the solar at the cor. of secs. 29, 30,31 and 32.
	Thence I run
	West on a random line bet. secs. 30 and 31
40.00	Set temp. ¼ sec. cor.
67.10	Intersect W. bdy. of Tp. 21 lks. S. of point for cor. of secs. 25,30,31 and 36.
	Thence I run
	S.89°51'E. on true line bet. secs. 30 and 31
	Over mountainous land,through heavy timber, oakbrush, buckbrush, serviceberry, and sagebrush undergrowth.
	Ascend.
7.10	Top of ridge, 30 ft. above sec. cor., bears N.10°E. and S.10°W. Desc. abruptly.
11.00	Bottom of canon, 80 ft. below ridge, course N.10°E.
	Asc. abruptly.

Subdivision of T. 32 S., R. 22 E.

Chains	
12.70	Top of spur, 50 ft. above canon, bears N. and S. Desc.
15.00	Bottom of canon, 40 ft. below spur, course N.10°W.; from which a ledge, 25 ft. high, bears N.30 lks. dist.
18.70	Top of spur, 75 ft. above canon, bears N. and S. Desc.
20.00	Hollow, 15 ft. below spur, course N.20°W. Asc.
25.80	Top of ridge, 25 ft. above hollow, bears N.20°W. and S.20°E. Desc.
27.10	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock, raise mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 30 on N. and S 31 on S half; from which A pinon pine, 6 ins. diam., bears N.2°45'W., 38 lks. dist., marked ¼ S 30 B T A pinon pine, 6 ins. diam., bears S.62°45'W., 45 lks. dist., marked ¼ S 31 B T Note:- Maple Spring (a small spring of fresh water) bears N.9°30'W. 27.50 chs. dist.
30.20	Enter long leaf (yellow) pine bears N. and S.
34.40	Leave yellow pine bears N.10°E. and S.10°W.
46.00	Bottom of hollow, 100 ft. below ridge, course N.30°E. Asc.
49.60	Top of small ridge, 25 ft. above hollow, bears N.30°E. and S.30°W.
53.30	Bottom of canon, 100 ft. below ridge, bears N.10°W. Asc. over ledges.
55.40	Top of ledges, 50 ft. above canon, bears N.10°E. and S. 10°W.
59.90	Top of ridge, 125 ft. above canon, bears N.10°E. and S. 10°W. Desc. gently.
67.10	The cor. of secs. 29,30,31 and 32. Rolling mountainous land; N. slope. Soil, poor gravelly loam, 6 to 18 ins. deep, dry, on rock subsoil. Heavy

Chains	
	cedar and pinon pine; oak brush and serviceberry and sagebrush.
	N.0°03'W. bet. secs. 29 and 30
	Over mountainous land; through heavy timber, dense oak-brush, serviceberry, and scattering sagebrush.
	Ascend.
1.30	Top of ascent, 15 ft. above sec. cor., bears NE. and SW.
	At this point I set off 22°12'N. on the decl. arc, and at 0h 05m p.m., l.m.t., observe the sun on the meridian the resulting lat. is 38°00'
	Descend gently.
15.00	Begin abrupt descent, bears N.20°W. and S.20°E.
17.00	Bottom of canon, 130 ft. below ridge, course N.20°E.
	Ascend gently.
29.00	Top of small spur, 30 ft. above canon, bears N.70°W. and S.70°E. Descend.
35.00	Bottom of hollow, 15 ft. below spur, course N.70°W.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock, raise mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 30 on W and S 29 on E half; from which
	A pinon pine, 10 ins. dia., bears S.48°56'E., 9 lks. dist., marked ¼ S 29 B T
	A cedar, 8 ins. diam., bears N.82°30'W., 19 lks. dist., marked ¼ S 30 B T
	At 3h 05m p.m., l.m.t., I set off 38°00½' on the lat. arc, 22°11'N on the decl. arc; and determine a meridian with the solar at this corner.
41.00	Begin abrupt descent, bears N.60°E. and S.60°W.
48.30	Trail, bears N.60°E. and S.60°W. at foot of abrupt descent, which bears the same.
	Desc. gently.
52.50	Wash, 10 lks. wide, 2 ft. deep in bottom of hollow, 200

Subdivision of T. 32 S., R. 22 E.

Chains	
	ft. below ¼ sec. cor., course NE. Ascend.
58.50	Trail, bears NE. and SW.
72.00	Top of ridge, 60 ft. above hollow, bears E. and W. Desc.
77.10	Head of hollow, 20 ft. below ridge, course E. Ascend.
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, marked on brass cap

T 32 S S 19 in NW
R 22 E S 20 in NE
S 29 in SE. and
S 30 in SW. quadrant; from which

A pinon pine, 12 ins.diam.,bears N.80°40'E., 97 lks. dist., marked T 32 S R 22 E S 20 B T.

A cedar, 6 ins.diam.,bears S.48°30'E., 57 lks. dist., marked T 32 S R 22 E S 29 B T

A cedar, 12 ins.diam.,bears S.34°20'W., 50 lks. dist., marked T 32 S R 22 E S 30 B T

A cedar, 10 ins.diam.,bears N.77°30'W., 84 lks. dist., marked T 32 S R 22 E S 19 B T

Mountainous land, NW. slope. Soil, gravelly loam of fair quality 6 to 18 ins.deep, fairly moist on rock subsoil. Heavy cedar and pinon pine, oak brush, serviceberry and scattering sagebrush undergrowth.

July 11, 1911

Fred O. Stewart
U. S. Transitman

July 12: At 8h 05m a.m.,l.m.t., I set off 38°01' on the lat. arc; 22°06'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 rough mountainous land; through heavy cedar and pinon pine along E. slope of Indian Creek canon.

Subdivision of T. 32 S., R. 22 E.

Chains	
	Ascend gently.
4.50	Top of ascent, 25 ft. above sec. cor., bears E. and W.
	From this point the SE. cor. of Jackson's cultivated field bears N.45°30'E.
	Jacksons' north cabin bears N.29°27'E.
	NE. corner of Jackson's field bears N.24°50'E.
	Desc. abruptly over ledges.
11.50	Bottom of hollow, 75 ft. below descent, course N.80°E.
	Ascend.
14.50	Top of small spur, bears E. and W., 20 ft. above hollow,
	Descend.
16.40	Bottom of hollow, 40 ft. below spur, course S.60°E.
	Ascend.
26.70	From this point the SE. corner of cultivated field bears S.65°35'E. and the SE. corner of pasture bears S.31°20'E.
28.60	Top of ridge, 100 ft. above hollow, bears E. and W.
	From this point Jackson's cabins etc. bear as follows:
	Cellar N. 50°50'E.
	Middle cabin N.54°50'E.
	North cabin N.54°08'E.
	Hen coop, N.53°20'E.
	Stock yard N.52°50'E.
	Descend.
35.00	Bottom of hollow, 50 ft. below top of ridge, course E.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock; raise mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 20 on W., S 21 on E. half; from which
	A pinon pine, 8 ins. diam., bears N.66°15'E., 75 lks. dist., marked ¼ S 21 B T
	A pinon pine, 5 ins. diam., bears N.54°45'W., 41 lks. dist., marked ¼ S 20 B T
	Note:- The SE. corner of cultivated field bears S.37°

Chains	
	30'E.
49.50	Top of ridge, 100 ft. above hollow, bears E. and W. Desc.
52.00	Bottom of hollow, 60 ft. below top of ridge, course N.80°E. Ascend.
55.20	Top of ridge, 70 ft. above hollow, bears E. and W. Desc.
56.50	Foot of descent, 10 ft. below ridge, bears E. and W. Ascend.
66.00	Top of ascent, 50 ft.above point of ascent, bears N.10° W. and S.20°E.
	From this point Jackson's three log cabins bear as follows:- S.51°40'E.;S.51°43'E.; and S.51°24'E.
	Cellar bears S.49°59'E.
	Hen coop and center of stock yard bears S.54°39'E.
	North end of cultivated land bears S.73°E.
	NE. corner of fence and field bears N.80°40'E.
	Note:- This fence runs from this corner N.80°40'W. and S. The wagon road from Carlisle to Monticello and Moab runs along N. side of fence.
	Note:- Another fence across Indian Creek Canon bears N.64°15'E. and crosses canon, bearing N.64°15'E. and S.54°15'W. with gate near W. side of canon.
	Descend abruptly over sandstone ledges and boulders.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground on solid rock; raise mound of stone around post, for cor. of secs. 16,17,20 and 21, marked on brass cap
	T 32 S S 17 in NW
	R 22 E S 16 in NE
	S 21 in SE. and
	S 20 in SW. quadrant; from which
	A ledge, part of canon wall, bears N.45°30'E., 22 lks. dist., marked ⊥ S 16 B O
	A ledge, part of canon wall, bears S.43°40'E., 25 lks. dist., marked ⊥ S 21 B O

Chains	
	A pinon pine, 12 ins.diam., bears S.76°45'W., 105 lks. dist., marked T 32 S R 22 E S 20 B T
	A pinon pine, 10 ins.diam.,bears N.47°35'W., 104 lks.dist.,marked T 32 S R 22 E S 17 B T
	Note:- Gate in fence across canon, bears S.30°30'E.
	The Jackson cabin bears S.34°00'E.
	North end of Jackson's cultivated land, bears S.45°00'E.
	Mountainous land, E. slope. Soil, light poor gravelly loam 3 to 16 ins.deep, dry, on rock subsoil. Cedar and pinon pine timber and scattering sagebrush.
	S.89°56'E. on random line bet.secs.16 and 21
40.00	Set temp. ¼ sec. cor.
80.04	Intersect the N. and S. line 9 lks. S. of cor. of secs. 15,16,21 and 22.
	Sky overcast, observation for lat. impossible.
	Thence I run
	West on true line bet. secs. 16 and 21
	Over mountainous land; through cedar and pinon pine and scattering sagebrush.
	Asc.
2.00	Top of small ascent, 10 ft. above sec.cor., bears NE. and SW. Desc.
5.40	Bottom of hollow, 50 ft. below top of ascent, course S.
10.70	Top of ridge, 50 ft. above hollow, bears NE. and SW. Desc. abruptly.
23.90	Bottom of canon, 75 ft. below ridge, course SW. Asc.
26.50	Top of small spur, 25 ft. above canon, bears NE. and SW. Desc.
28.00	Bottom of hollow, 25 ft. below spur, course SW. Ascend over broken ledges.
34.00	Top of abrupt ascent, begin gentle ascent, bears N.and S.
36.00	Top of ridge, 15 ft. above gentle ascent, bears NE.and

Subdivision of T. 32 S., R. 22 E.

Chains	
	SW.
	At 3h 35m p.m., l.m.t., I set off 38°02' on the lat. arc; 22°03'N. on the decl. car; and determine a meridian with the solar at this point. This agrees with morning observation.
	Descend.
38.50	Hollow, 20 ft. below ridge, course SW.
	Ascend gently.
40.02	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 16 on N. and S 21 on S half; from which
	A pinon pine, 6 ins.diam.,bears N.49°00'E., 36 lks. dist., marked ¼ S 16 B T
	A pinon pine, 8 ins.diam.,bears S.10°58'W.,76 lks. dist., marked ¼ S 21 B T
	Asc.
44.30	Top of ridge, 30 ft. above ¼ sec. cor., bears N.20°E. and S.20°W.
	Desc.
50.75	Hollow, 50 ft. below ridge, course SW.
	Asc.
55.00	Top of small spur, 40 ft. above hollow, bears NE. and SW. Desc.
58.00	Ledge, 30 ft. below spur, bears N. and S.
	Note:- Jackson's middle cabin bears S.1°58'E.
	Desc. over ledges.
62.40	Edge of ledge overlooking Indian Creek canon, 60 ft. below ridge, bears N. and S.
	Desc. abruptly over ledges.
71.00	Foot of ledge, 150 ft. below ridge, bears N. and S.
	Desc. gently through sagebrush and willows in Indian Creek Canon.
74.00	Indian Creek, 20 lks. wide, 8 ins. deep, rocky bottom and swift current, course N.20°W.
	Asc. gently.
76.50	Wagon road from Carlisle to Monticello and Moab, bears

Subdivision of T. 32 S., R. 22 E.

Chains	
	N.20°W. and S.20°E.
76.60	Leave Indian Creek Canon begin abrupt ascent over ledges, bears N.20°W. and S.20°E.
78.10	Telephone line from Carlisle to Monticello bears N.20°W. and S.20°E.
79.85	Begin gentle ascent, 100 ft. above Indian Creek, bears N. and S.
80.04	The cor. of secs. 16,17,20 and 21.
	Mountainous land; SW. slope. Soil, poor gravelly loam with stones 3 to 18 ins. deep on bedrock. Cedar and pinon pine timber. Scattering sagebrush undergrowth.
	July 12, 1911
	Eric H Anderson
	U. S. Transitman
	July 12: At 8h 05m a.m., l.m.t., I set off 38°01' on the lat. arc; 22°06'N. on the decl.arc; and determine a meridian with the solar at the cor. of secs.19,20, 29 and 30.
	Thence I run
	S.89°57'E. on a random line bet. secs. 20 and 29
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 6 lks. S. of the cor. of secs. 20,21,28 and 29.
	Thence I run
	West on true line bet. secs. 20 and 29
	Over mountainous land; through heavy timber and sage-brush.
	Ascend abruptly.
4.50	Top of ridge, 100 ft. above sec. cor., bears N. and S.
	Descend.
25.00	Bottom of hollow, 200 ft. below ridge, course NE.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in.in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 20

Subdivision of T. 32 S., R. 22 E.

Chains	
	on N. and S. 29 on S. half; from which
	A pinon pine, 6 ins.diam.,bears N.52°30'W., 25 lks. dist., marked ¼ S 20 B T
	A pinon pine, 12 ins.diam.,bears S.66°30'W., 23 lks.dist., marked ¼ S 29 B T
40.70	Trail on top of ridge, 150 ft. above hollow, both bear N. and S. Desc.
44.60	Bottom of hollow, 20 ft. below ridge, course N.
	Ascend.
52.20	Top of ridge, 60 ft. above hollow, bears N. and S.
	Desc.
61.70	Bottom of hollow, 85 ft. below ridge, course N.
	Asc.
62.85	Trail bears N. and S.
	Sky overcast, observation for lat. impossible.
68.30	Top of ridge, 80 ft. above hollow, bears NW. and SE.
	Desc.
80.00	The cor. of secs. 19,20,29 and 30.
	Mountainous land, northerly slope. Soil, gravelly loam 12 to 24 ins.deep on rock subsoil, dry. Heavy cedar and pinon pine. Scattering sagebrush.
	N.89°51'W. on a random line bet. secs. 19 and 30
40.00	Set temp. ¼ sec. cor.
66.76	Intersect W. bdy. of Tp. at the cor. of secs. 19,24,25 and 30, heretofore described.
	Thence I run
	S.89°51'E. on true line bet. secs. 19 and 30
	Over mountainous land through cedar and pinon pine and scattering sagebrush. Desc. gently.
3.15	Wash, 20 lks. wide, 2 ft. deep, in head of hollow, course N.20°E.
	Ascend gently.
16.75	Top of ridge, 20 ft. above wash, bears N. and S.
	Descend gently.

Subdivision of T. 32 S., R. 22 E.

Chains	
18.75	Begin abrupt descent over ledges, bears N.20°E. and S.20° W.
24.80	Bottom of canon, 200 ft. below ridge, course N.20°E. Ascend abruptly over ledges.
26.76	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 19 on N. and S 30 on S half; from which A pinon pine, 12 ins.diam.,bears N.53°15'E., 19 lks. dist., marked ¼ S 19 B T A pinon pine, 8 ins.diam.,bears S.35°00'W., 40 lks. dist., marked ¼ S 30 B T
28.15	Top of ridge, 125 ft. above canon, bears N.10°E. and S. 10°W. Desc.
33.55	Bottom of hollow, 80 ft. below ridge, course N.20°E. Ascend.
39.75	Top of ridge, 100 ft. above hollow, bears N. and S. Desc.
41.75	Point from which Maple Spring bears S.2°30'W.
46.45	Bottom of hollow, 150 ft. below ridge, course N.10°E. Ascend.
58.75	Top of ridge, 150 ft. above hollow, bears N.10°E. and S.10°W. Desc.
66.76	The cor. of secs. 19,20,29 and 30.

Mountainous land; NE. slope. Soil, sand and gravel loam 12 to 24 ins.deep,dry, on rock and gravel subsoil. Cedar and pinon pine timber. Scattering sagebrush.

July 12, 1911.

Scott C. Stewart
U. S. Transitman

July 13: At 8h 05m a.m., l.m.t., I set off 38°02' on the lat. arc; 21°58'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16,17,20 and 21.

Subdivision of T. 32 S., R. 22 E.

Chains	
	Thence I run
	N. 0°03'W. bet. secs. 16 and 17
	Over rough mountainous land; through cedar and pinon pine and dense undergrowth of serviceberry and sage-brush.
	Desc.
4.90	Telephone line from Carlisle to Monticello, bears N.20° W. and S.20°E.
	Desc. abruptly.
6.00	Foot of abrupt descent, 125 ft. below sec. cor., bears N.20°W. and S.20°E.
	Enter bottom of Indian Creek Canon.
	Desc. gently.
7.30	Wagon road from Carlisle to Monticello and Moab, bears N.20°W. and S.20°E.
9.80	Indian Creek, 25 lks. wide, 8 ins. deep, course NW.
	Asc. gently.
12.00	Leave Indian Creek Canon, foot of sloping ledge, bears N.20°W. and S.20°E.
	Asc. abruptly.
14.30	Top of sloping ledge, 100 ft. above foot, bears N.20°W. and S.20°E.
	Note:- From this point Jackson's W. cabin door bears S.25°25'E. Gate in fence across canon, bears S.15° 10'E.
	Asc. over ledges.
30.60	Top of ledges, 200 ft. above canon, bears E. and W.
	Ascend gently.
34.20	Trail, bears E. and W.
37.00	Top of ridge, 50 ft. above ledge, 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., marked on brass cap ¼ S 17 on W and S 16 on E half; from which

Subdivision of T. 32 S., R. 22 E.

Chains	
	A pinon pine, 10 ins.diam.,bears S.80°00'E. 6 lks. dist.,marked ¼ S 16 B T
	A pinon pine, 8 ins.diam.,bears S.48°30'W., 30 lks.dist.,marked ¼ S 17 B T
41.10	Bottom of hollow, 30 ft. below ridge, course S.60°W.
	Ascend.
44.00	Top of ridge, 50 ft. above hollow, bears N.60°E. and S.60°W.
	Desc.
55.00	Head of hollow, 30 ft. below ridge, course SW.
	Asc.
72.00	S. edge of flat ridge, 150 ft. above hollow, bears N.20° W. and S.20°E.
	At this point I set off 21°56'N. on the decl. arc; and at 0h 05m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°03'
	Descend gently.
80.00	Set an iron post, 3 ft. long, 2 ins.in dia., 18 ins. in the ground, on solid rock, raise mound of stone around post, for cor. of secs. 8,9,16 and 17, marked on brass cap
	T 32 S S 8 in NW
	R 22 E S 9 in NE
	S 16 in SE. and
	S 17 in SW. quadrant; from which
	A pinon pine, 6 ins.diam.,bears N.5°30'E., 67 lks. dist., marked T 32 SR 22 E S 9 B T
	A pinon pine, 6 ins.diam.,bears S.56°30'E., 41 lks. dist., marked T 32 SR 22 E S 16 B T
	A pinon pine, 8 ins.diam.,bears S.35°30'W., 79 lks. dist., marked T 32 S R 22 E S 17 B T
	A pinon pine,12 ins.diam.,bears N.69°00'W., 64 lks. dist., marked T 32 S R 22 E S 8 B T
	Mountainous land, SW. slope.
	Soil, sand and gravel loam 8 to 24 ins.deep; dry, on

Chains	
	sandstone and gravel subsoil. Cedar and pinon pine timber. Scattering sagebrush and little grass.
	East on a random line bet. secs. 9 and 16
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line at cor. of secs. 9,10,15 and 16.
	Thence I run
	West on true line bet. secs. 9 and 16
	Over mountainous land; through heavy timber and scattering sagebrush and grass.
	Descend.
1.35	Trail, bears N.20°E. and SW.
7.15	East edge of deep gorge and top of sloping ledge, 150 ft. high, bears N. and S.
10.00	Bottom of canon, 300 ft. below sec. cor., course N.10°W.
	Asc. abruptly over ledges.
12.70	W. edge of deep gorge, bears N.20°W. and S.20°E., 125 ft. above bottom.
	Ascend.
17.70	Top of ridge, 300 ft. above canon, bears N. and S.
	Descend.
30.00	Edge of box canon, bears N. and S.
	Desc. abruptly over ledges.
33.40	Bottom of box canon, 350 ft. below top; course N.20°W.
	Ascend abruptly over ledges.
37.00	Top of abrupt ascent, W. edge of box canon, 200 ft. above bottom, bears N.20°W. and S.20°E.
	Asc.
38.60	Top of ridge, 225 ft. above canon, 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., marked on brass cap ¼ S 9 on N half and S 16 on S half; from which
	A pinon pine, 6 ins.diam.,bears N.47°30'E.,

Subdivision of T. 32 S., R. 22 E.

Chains 43 lks. dist., marked ¼ S 9 B T

A pinon pine, 7 ins.diam.,bears S.67°15'W., 75 lks. dist., marked ¼ S 16 B T

43.00 Bottom of hollow, 30 ft. below ridge, course N. Ascend.

55.00 Top of ridge, 150 ft. above hollow, bears N.20°E. and S.20°W. Desc.

57.50 Trail, bears NE. and SW.

62.50 E. edge of small box canon, bears NE. and SW.

64.00 Bottom of same canon, 75 ft. below top, course N. Asc. abruptly.

68.00 W. edge of canon, 100 ft. above bottom, bears NW. and SE. Ascend.

79.70 E. edge of flat ridge, 200 ft. above canon, bears N. and S. Asc. gently.

80.04 The cor. of secs. 8,9,16 and 17.

Mountainous land, northerly slope. Soil, sand and gravel loam, 6 to 24 ins. deep on rock and gravel subsoil. Cedar and pinon pine.timber. Scattering sagebrush.

July 13, 1911

Eric H. Anderson

U. S. Transitman

July 13: At 8h 05m a.m., l.m.t., I set off 38°01' on the lat. arc; 21°58'N. on the decl. arc; and determinea meridian with the solar at the cor. of secs. 19, 20, 29 and 30.

Thence I run

N. 0°03'W. bet. secs. 19 and 20

Over mountainous land; through heavy timber, scattering sagebrush and grass.

Ascend.

9.00 Top of ridge, 35 ft. above sec.cor., bears NE. and SW. Descend.

Subdivision of T. 32 S., R. 22 E.

Chains	
15.00	Bottom of hollow, 70 ft. below ridge, course N.80°E.
	Ascend.
37.00	Top of ridge, 100 ft. above hollow, bears N.20°E. and S. 20°W. Descend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 19 on W. and S 20 on E half; from which
	A cedar, 8 ins.diam.,bears S.45°15'E., 35 lks. dist., marked ¼ S 20 B T
	A pinon pine,8 ins.diam.,bears S.85°30'W., 44 lks. dist., marked ¼ S 19 B T
52.90	Top of ledge, 30 ft. high, bears E. and W.
	Descend over ledges.
60.92	Ledge, 10 ft. high, bears NE. and SW.
64.20	Bottom of canon, 500 ft. below ridge, course N.15°E.
	Ascend over ledges.
78.00	Top of ridge, 400 ft. above canon, bears NE. and SW.
	At this point I set off 21°56'N. on the decl. arc; and at 0h 05m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°02'
	Descend.
80.00	Set an iron post, 3 ft. long, 2 ins.diam.,24 ins. in the ground for cor. of secs. 17,18,19 and 20, marked on brass cap
	T 32 S S 18 in NW
	R 22 E S 17 in NE
	S 20 in SE. and
	S 19 in SW. quadrant; from which
	A pinon pine, 12 ins.diam.,bears N.42°30'E., 38 lks. dist., marked T 32 S R 22 E S 17 B T
	A pinon pine, 8 ins.diam.,bears S.26°30'E., 21 lks.dist., marked T 32 S R 22 E S 20 B T
	A pinon pine, 6 ins.diam.,bears S.37°00'W., 77 lks. dist., marked T 32 S R 22 E S 19 B T
	A pinon pine, 8 ins.diam.,bears N.48°00'W., 26 lks. dist., marked T 32 S R 22 E S 18 B T

Chains	
	Rolling mountainous land, NE. slope. Soil, sand and gravel loam 6 to 20 ins. deep, dry, medium texture on rock and gravel subsoil.
	Cedar and pinon pine timber. Scattering sagebrush and a little bunch grass.
	East on a random line bet.secs. 17 and 20
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line at 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; scattering serviceberry and sagebrush.
	Ascend gently.
4.80	Begin abrupt ascent over ledges.
15.80	Top of ridge, 275 ft. above sec. cor., bears N. and S.
	Note:- This is the north end of a large sandstone knoll or butte, the center of which is about 10 chs. S.
	Descend abruptly.
24.00	Hollow, 200 ft. below ridge, course N.
	Ascend.
28.00	Begin abrupt ascent over ledges.
29.90	Top of ledges, bears N. and S.
	Ascend gently.
39.95	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock, raise mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 17 on N. and S 20 on S half; from which
	A pinon pine, 16 ins.diam.,bears N.16°00'W., 38 lks. dist., marked ¼ S 17 B T
	A pinon pine, 12 ins.diam.,bears S.12°30'E., 73 lks. dist., marked ¼ S 20 B T
42.90	Trail, bears N. and S. on top of broad ridge, 300 ft. above canon, bears N. and S.

Subdivision of T. 32 S., R. 22 E.

Chains	
	Descend gently.
61.30	Begin abrupt descent over ledges, bear N.10°W. and S.30° E.
68.85	Top of sloping ledge, 60 ft. high, bears N. and S.
	At 3h 35m p.m., l.m.t., I set off 38°02' on lat. arc; 21°55'N. on the decl. arc; and determine a meridian with the solar,
72.30	Bottom of canon, 700 ft. below ridge, course N.10°W.
	Ascend abruptly.
75.30	Top of sloping ledge, 80 ft. high, bears N. and S. (West canon wall) Ascend.
78.00	Top of ridge, 130 ft. above canon, bears NE. and SW.
	Descend.
79.90	The cor. of secs. 17,18,19 and 20.
	Mountainous land; northerly slope. Soil, gravelly loam (poor) 6 to 18 ins. deep, washed on slopes, stony, on rock subsoil. Heavy cedar and pinon pine; scattering serviceberry & sagebrush.
	July 13, 1911
	Scott P. Stewart
	U. S. Transitman
	July 14: At 7h 35m a.m., l.m.t., I set off 38°03' on the lat. arc; 21°49'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 heavy timber and scattering sagebrush.
	Descend gently.
4.00	Leave ridge, bears NW. and S.10°E.
	Desc.

Subdivision of T. 32 S., R. 22 E.

Chains	
9.50	Head of draw, 49 ft. below ridge, course E.
	Asc.
11.30	Ridge (bare sandstone) 30 ft. above hollow, bears E. and W. Descend.
26.70	Top of ledge, 20 ft. high, bears N.80°E. and S.80°W.
	Descend over ledges.
34.50	Ledge, 10 ft. high, bears N.80°W. and S. 80°E.
36.00	Foot of ledge, bears N.80°W. and S.80°E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, raise mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 8 on W. and S 9 on E. half; from which
	A pinon pine, 12 ins.diam., bears S.87°00'E., 150 lks. dist., marked ¼ S 9 B T
	A pinon pine, 14 ins.diam., bears N.85°00'W., 44 lks. dist., marked ¼ S 8 B T
40.60	Bottom of hollow, 300 ft. below ridge, course N.80°E.
	Ascend.
50.00	Top of ridge, 80 ft. above hollow, bears E. and W.
	Descend.
52.00	Begin abrupt descent of canon wall, bears NW. and S.70° E., 200 ft. high.
61.00	Wash, 1.50 chs. wide, 15 ft. deep in bottom of canon, 300 ft. below ridge, course NW.
	Ascend abruptly.
65.30	Top of ledge (north canon wall) 200 ft. above canon, bears NW. and S.70°E.
	Ascend steep slope.
69.00	Top of steep ascent, 75 ft. above ledge, bears NW. and SE.
	At this point I set off 21°47'N. on the decl. arc; and at 0h 05m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°03'
	Descend.
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, marked on

Subdivision of T. 32 S., R. 22 E.

Chains	
	brass cap T 32 S S 5 in NW R 22 E S 4 in NE S 9 in SE. and S 8 in SW. quadrant; from which A pinon pine, 6 ins.diam., bears N.74°45'E., 19 lks. dist., marked T 32 S R 22 E S 4 B T A pinon pine, 12 ins.diam., bears S.9°45'E., 2.13 chs.dist., marked T 32 S R 22 E S 9 B T A pinon pine, 6 ins.diam., bears S.7°45'W., 1.26 chs. dist., marked T 32 S R 22 E S 8 B T A cedar, 16 ins.diam., bears N. 6°15'W., 47 lks. dist., marked T 32 S R 22 E S 5 B T Mountainous land, northerly slope. Soil, sandy loam with gravel 6 to 20 ins. deep, dry on rock subsoil. Heavy cedar and pinon pine timber. Scattering sagebrush.
	East on a random line bet. secs. 4 and 9
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line 10 lks. S. of cor. of secs. 3,4 9 and 10
	Thence I run
	S89°56'W. on a true line bet. secs. 4 and 9
	Over mountainous land, through heavy timber and scattering sagebrush.
	Desc.
10.50	Bottom of hollow, 30 ft. below sec. cor., course S.30°W.
	Asc.
15.90	Top of spur, 40 ft. above hollow, bears N. and S.
	Desc.
25.00	Head of hollow, 30 ft. below spur, course S.
	Asc. steep slope.
27.60	Top of steep ascent (E.edge of flat ridge) 50 ft. above

Subdivision of T. 32 S., R. 22 E.

Chains	
	hollow, bears NE. and SW.
39.97	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 4 on N. and S 9 on S half; from which
	A pinon pine, 14 ins.diam.,bears N.58°00'E., 73 lks. dist., marked ¼ S 4 B T
	A pinon pine, 10 ins.diam.,bears S.74°30'E., 41 lks. dist., marked ¼ S 9 B T
40.10	W. edge of flat ridge, bears NE. and SW. Begin abrupt descent over ledges.
61.00	Bottom of canon, 1000 ft. below ¼ sec. cor., course S.30° W.
	Asc. abruptly over ledges.
67.00	Top of abrupt ascent and E. edge of flat ridge, 500 ft. above canon, bears N.20°E. and S.20°W.
74.30	W. edge of same ridge, bears NE. and SW.
	Descend over ledges.
79.94	The cor. of secs. 4,5,8 and 9.
	Rolling mountainous land; SW. slope.
	Soil, sand and gravel loam, 10 to 20 ins.deep, dry on rock subsoil, washed on slopes. Cedar and pinon pine timber; scattering sagebrush.
	July 14, 1911
	Eric H. Anderson
	U. S. Transitman

	July 14: At 8h 05m a.m., l.m.t., I set off 38°02' on the lat. arc; 21°49'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 17,18, 19 and 20.
	Thence I run
	N.89°51'W. on random line bet.secs.18 and 19
40.00	Set temp. ¼ sec. cor.
66.86	Intersect the W. bdy. of Tp. 14 lks. S. of cor. of secs. 13,18,19 and 24, heretofore described.
	Thence I run

Subdivision of T. 32 S., R. 22 E.

Chains	
	S.89°45'E. on a true line bet. secs.18 and 19
	Over mountainous land; through heavy timber and scattering sagebrush.
	Descend.
6.80	Top of ledge, 30 ft. high, bears NE. and SW.
8.50	Head of canon, 150 ft. below sec. cor., course N.70°E.
	Ascend.
16.00	Top of ridge, 30 ft. above canon, bears NE. and SW.
	Descend.
25.60	Trail, bears N.30°E. and S.40°W.
26.86	Point for ¼ sec.cor. falls in center of wash in bottom of canon, 80 ft. below ridge. Cor. not set.
27.46	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock, raise mound of stone around post, for W C to ¼ sec. cor., marked on brass cap T 32 SR 22 E S 18 on N., S 19 on S half; and W C ¼ near W edge; from which
	A cedar, 16 ins.diam., bears N.61°30'E., 27 lks. dist., marked W C ¼ S 18 B T
	A pinon pine 14 ins.diam., bears S.39°30'W., 32 lks. dist., marked WC ¼ S 19 B T
	Ascend.
40.60	Top of ridge, 200 ft. above ¼ W C bears N.20°E. and S.20°W.
	Desc. gently.
49.00	Begin descent over ledges, bears N. and S.
61.20	Top of ledge, 30 ft. high, bears NW. and SE.
	Desc. abruptly.
66.86	The cor. of secs. 17,18,19 and 20.
	Mountainous land, NE. slope. Soil, gravelly loam with stones on rock and gravel subsoil, dry, coarse texture.
	Heavy cedar and pinon pine timber. Scattering sagebrush.

Subdivision of T. 32 S., R. 22 E.

Chains	
	N.0°03'W. bet. secs. 17 and 18.
	Over mountainous land; through scattering timber and sagebrush.
	Desc. over ledges.
2.00	Head of hollow, 50 ft. below sec. cor., course N.60°E.
	Asc.
11.00	Top of ridge, 70 ft. above hollow, bears E. and W.
	Desc. abruptly.
18.75	Bottom of canon, 400 ft. below top of ridge, course N.30°W.
	Asc. abruptly.
25.30	Top of smooth sandstone ridge, or ledge, 250 ft. above canon, bears E. and W.
	Desc. abruptly.
31.75	Bottom of same canon, 300 ft. below ridge, course N.30° E.
	Asc. abruptly over ledges.
35.90	Top of ledge spur, 200 ft. above canon, bears E. and W.
	Desc. abruptly.
37.50	Bottom of same canon, 230 ft. below spur, course NW.
	Asc. abruptly.
39.65	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, on solid rock, raise mound of stone around post, for witness cor. to ¼ sec. cor., marked on brass cap T 32 S R 22 E W C near north edge, ¼ S 18 on W half, and S 17 on E half; from which
	A ledge, bears E. 1 lk.dist., marked +B 0 ¼ S 17
	A cedar, 4 ins.diam., bears N.43°00'W., 13 lks. dist., marked W C ¼ S 18 B T
40.00	Point for ¼ sec. cor. falls on sloping ledge, cannot be set or marked.
40.25	Top of spur, 60 ft. above canon, bears E. and W.
	Desc. abruptly.
42.50	Bottom of same canon, 75 ft. below spur, course NE.
	Asc. abruptly.
43.80	Top of ledge, 150 ft. above canon, bears N.60°E. and S.

Subdivision of T. 32 S., R. 22 E.

Chains	
	60°W. Thence nearly level along top of ridge.
54.40	Descend abruptly over canon wall, 175 ft. high, bears N.60°W. and S.60°E.
47.50	Bottom of same canon, 200 ft. below top of ledge, course N.60°W.
	Asc. abruptly.
57.00	Top of rock spur, 200 ft. above canon, bears E. and W.
	Desc. abruptly.
65.00	Bottom of same canon, 230 ft. below ridge, course N.80°E.
	Asc. abruptly.
68.00	Top of ledge, 150 ft. above canon, bears N.80°E. and S.80°W.
	At this point I set off 21°47'N. on the decl. arc; and at 0h 05m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°02'
	Descend over broken ledges.
80.00	Set an iron post, 3 ft. long, 2 ins.diam.,12 ins. in the ground to solid rock, raise mound of stone around post for cor. of secs. 7,8,17 and 18, marked on brass cap
	T 32 S S 7 in NW
	R 22 E S 8 in NE
	S 17 in SE. and
	S 18 in SW. quadrant; from which
	A pinon pine, 8 ins.diam.,bears N.15°04'E., 145 lks. dist., marked T 32 S R 22 E S 8 B T
	An oak, 4 ins.diam.,bears S.74°14'E., 33 lks. dist., marked T 32 S R 22 E S 17 B T
	A ledge (part of canon wall) bears S.84°21'W., 41 lks. dist., marked +B O S 18
	An oak, 6 ins.diam.,bears N.79°39'W., 46 lks. dist., marked T 32 S R 22 E S 7 B T
	Mountainous land, N. slope. Soil, poor gravelly loam, stony, on sandstone subsoil. Scattering cedar and pinon pine. Scattering sagebrush.

Subdivision of T. 32 S., R. 22 E.

Chains	
	July 14, 1911 Scott P. Stewart U. S. Transitman
	July 15: At 9h 05m a.m., l.m.t., I set off 38°03' on the lat. arc; 21°39'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 4,5,8 and 9.
	Thence I run
	N.0°03'W. on random line bet. secs. 4 and 5
40.00	Set temp. ¼ sec. cor.
79.90	Intersect the N. bdy. of Tp. 5 lks. E. of point for cor. secs. 4,5,32 and 33, heretofore described.
	Thence I run
	S. 0°05'E. on true line bet. secs. 4 and 5
	Over mountainous land; through heavy timber and scattering sagebrush.
	Ascend gently.
3.00	Top of ridge, 25 ft. above sec. cor., bears N.80°E. and S.80°W.
	Desc. gently.
14.90	Top of ledge, 200 ft. high (N. edge of Box Canon), bears E. and SW.
	Desc. abruptly.
16.00	Head of box canon, 200 ft. below ledge, course SW.
	Asc. abruptly.
20.00	N. edge of ridge and top of ledge, 250 ft. above canon, bears N.20°E. and S.20°W.
	Descend gently along ridge.
29.00	S. edge of ridge and top of ledge, bears NE. and SW.
	Desc. abruptly over ledges.
32.00	Foot of abrupt descent, bears NE. and S.20°W.
	Desc. gently.
39.90	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 5

Subdivision of T. 32 S., R. 22 E.

Chains	
	on W. and S. 4 on E half; from which
	A pinon pine, 5 ins.diam.,bears S.46°30'E., 56 lks. dist., marked ¼ S 4 B T
	A pinon pine, 9 ins.diam.,bears S.60°00'W., 40 lks. dist., marked ¼ S 5 B T
50.60	Top of canon wall, 200 ft. high, bears N.30°E. and S.30° W.
	At this point I set off 21°38'N. on the decl.arc; and at 0h 05m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°04'.
	Desc. abruptly over ledges.
53.40	Bottom of wash in canon, 800 ft. below ledge, course S.60°W.
	Asc. abruptly.
59.90	Top of south canon wall, bears N.30°E. and S.80°W.
	Asc. less abruptly.
67.00	Top of ridge, 600 ft. above canon, bears N.80°E. and S.80°W. Descend.
74.15	Top of ledge, 50 ft. high, bears E. and N.10°W.
	Desc. abruptly over ledges.
77.00	Begin gentler descent, bears E. and W.
79.90	The cor. of secs. 4,5,8 and 9, 300 ft. below top of ridge.
	Rolling mountainous land, SW. slope. Soil, gravelly and sandy loam 6 to 24 ins. deep, on rock and gravel subsoil, dry. Heavy cedar and pinon pine. Scattering sagebrush.
	July 15, 1911 Eric H. Anderson U. S. Transitman
	July 15: At 8h 05m a.m., l.m.t., I set off 38°03' on the lat. arc; 21°40'N. on the decl. arc; and determine a meridian with the solar at cor. of secs. 7,8,17 and 18.
	Thence I run

Subdivision of T. 32 S., R. 22 E.

Chains

East on a random line bet. secs. 8 and 17

40.00 Set temp. ¼ sec. cor.

79.94 Intersect N. and S. line at the cor. of secs. 8,9,16 and 17.

Thence I run

West on true line bet. secs. 8 and 17

Over mountainous land; through heavy timber and scattering sagebrush.

Asc. gently.

3.80 West edge of ridge, bears N.10°W. and S.10°E.

Desc.

9.00 Head of hollow, 100 ft. below ridge, course S.70°W.

Asc.

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

Desc.

37.00 Begin descent over ledges, bears N. & S.

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

A pinon pine, 12 ins.diam.,bears N.50°30'E., 37 lks. dist., marked ¼ S 8 B T

A pinon pine, 6 ins.diam.,bears S.60°W., 4 lks. dist., marked ¼ S 17 B T

44.00 Begin abrupt descent over ledges, bears N. and S.

50.30 Top of ledge or E. canon wall, 125 ft. high, bears N.30° W. and S.30°E.

52.50 Telephone line from Monticello to Carlisle, bears N.30° W. and S.30°E.

55.00 Foot of abrupt descent; enter bottom of Indian Creek Canon, bears N.30°W. and S.30°E.

Enter dense oak, sagebrush and greasewood and scattering cottonwood and birch timber.

56.30 Wagon road from Carlisle to Monticello and Moab, bears N.30°W. and S.30°E.

57.20 Indian Creek, 30 lks. wide, 8 ins.deep in canon, course

Subdivision of T. 32 S., R 22 E.

Chains	
	N.30°W.
63.00	Leave canon, begin abrupt ascent over ledges, bears N.20°W. and S.20°E.
70.70	Top of ridge, 500 ft. above Indian Creek Canon, bears N.10°E. and S.10°W.
	Desc. abruptly over ledges.
77.50	Bottom of canon, 450 ft. below ridge, course N.20°W.
	Asc. abruptly.
79.94	The cor. of secs. 7,8,17 and 18
	Mountainous land, N. slope. Soil, poor gravelly loam, dry, 3 to 12 ins. deep on bedrock on ridges. In Indian Canon soil is sandy loam, 12 to 24 ins. deep, moist on gravel subsoil.
	Cedar and pinon pine timber. Scattering sagebrush.
	N.89°45'W. on a random line bet. secs.7 and 18
40.00	Set temp. ¼ sec. cor.
66.76	Intersect the W. bdy. of Tp. at point for cor. secs. 7, 12,13, and 18.
	At this cor. I set off 21°38'N. on the decl. arc; and at 0h 05m p.m., l.m.t., observe the sun on the meridian the resulting lat. is 38°03'
	Thence I run
	S.89°45'E. on a true line bet. secs. 7 and 18
	Over mountainous land, through heavy timber and scattering sagebrush.
	Desc. gently.
7.50	Begin abrupt descent over ledge, 10 ft. high, bears N.10°E. and S.10°W.
14.90	Top of ledge, 75 ft. high, bears N.10°E. and S.10°W.
22.00	Bottom of canon, 150 ft. below sec. cor., course N.20°E.
	Ascend gently.
26.76	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock, raise mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 7 on N

Chains	
	and S 18 on S half; from which
	A pinon pine, 6 ins.diam.,bears N.25°11'W., 37 lks. dist., marked ¼ S 7 B T.
	A pinon pine, 10 ins.diam.,bears S.21°42'W., 43 lks. dist., marked ¼ S 18 B T.
	Ascend abruptly over broken ledges, bear N.10°W. and S.10°E.
34.40	Top of spur, 125 ft. above canon, bears N.10°W. and S.10°E.
	Desc. gently.
39.40	Begin abrupt descent over broken ledges, bears N. and S.
42.70	Foot of steep descent, 100 ft. below spur.
	Desc. gently.
46.15	Edge of impassable canon, 400 ft. deep, bears N. and S.
48.80	Bottom of box canon, 400 ft. below edge, course N.
	Asc. abruptly.
51.70	East edge of box canon, 400 ft. above bottom, bears N. and S.
	Asc. over broken ledges.
56.20	Foot of cliff, 50 ft. high, bears N. and S.
57.30	Top of same cliff, 50 ft. high, bears N. and S.
	Thence over flat ridge.
58.20	Desc. abruptly over cliff, 75 ft. high, bears N. and S.
62.00	Foot of same cliff, bears N. and S.
	Desc. gently.
64.30	Begin abrupt descent over smooth sloping ledges.
66.35	Foot of sloping ledges, 600 ft. below top, bears N.andS.
66.76	The cor. of secs. 7,8,17 and 18.
	Mountainous land, NE. slope.
	Soil, poor gravelly loam, dry, 6 to 12 ins. deep on bedrock.
	Cedar and pinon pine timber. Scattering sagebrush.
	July 15, 1911

Subdivision of T. 32 S., R. 22 E.

Chains	
	July 17: At 8h 06m a.m., l.m.t., I set off 38°03' on the lat. arc; 21°21'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 rough mountainous land, through heavy timber and scattering sagebrush.
	Ascend over ledges.
4.50	Top of ridge, 100 ft. above sec. cor., bears E. and W.
	Desc.
10.60	Bottom of canon, 200 ft. below ridge, course N.20°W.
	Asc. abruptly over boulders and ledges.
22.60	Top of ledge, 50 ft. high, on N. end of ridge, dividing Indian Creek Canon, from canon west, bears N.10° W. and S.10°E.
	Desc.
26.00	Foot of abrupt descent; enter bottom of Indian Creek Canon, bears NW. and SE.
	Leave heavy; enter scattering timber; enter dense oak and sagebrush.
	Trail, bears NW. and SE.
29.60	Wash, 60 lks.wide, 3 ft. deep, from canon west, course N.80°E. Continue gentle descent along west side of canon bottom.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. marked on brass cap ¼ S 7 on W. and S 8 on E half; from which
	An oak, 4 ins.diam., bears N.72°25'E., 27 lks. dist., marked ¼ S 8 B T
	A pinon pine, 6 ins.diam., bears S.79°30'W., 349 lks. dist., marked ¼ S 7 B T
44.40	Wash, 20 lks. wide, 5 ft. deep, course E.
46.25	Old brush fence partly destroyed, bears E. and W.
50.00	Indian Creek, 20 lks. wide, 6 ins. deep, course NW.

Subdivision of T. 32 S., R. 22 E.

Chains	
51.75	Indian Creek, 50 lks. wide, 3 ins. deep, course NE.
52.25	Fence, bears N.80°E. and SW.
58.90	Indian Creek, 20 lks. wide, 6 ins. deep, course NW.
74.40	Wagon road from Carlisle to Monticello and Moab in edge of canon, bears N. 10°W. and S.30°E.
76.60	Same road, bears NE. and S.10°W.
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, marked on brass cap
	T 32 S S 6 in NW
	R 22 E S 5 in NE
	S 8 in SE. and
	S 7 in SW. quadrant; from which
	A cottonwood, 5 ins.diam., bears N.4°25'E., 326 lks. dist., marked T 32 S R 22 E S 5 B T
	A pinon pine, 12 ins.diam., bears S.72°55'E., 4.43 chs. dist., marked T 32 S R 22 E S 8 B T
	A box elder, 6 ins.diam., bears S.48°30'W., 175 lks. dist., marked T 32 S R 22 E S 7 B T
	An oak, 5 ins.diam., bears N.46°55'W., 30 lks. dist., marked T32 S R 22 E S 6 B T
	S. 25.00 chs. mountainous land, N. slope. Soil, poor gravelly loam, 6 to 12 ins. deep on bed rock, dry.
	N. 55 chs. good canon bottom land of sandy loam, 12 to 24 ins. deep on gravel subsoil. Scattering timber.
	Sagebrush undergrowth, drains N.
	East on a random line bet. secs. 5 and 8
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 14 lks. N. of the cor. of secs. 4,5,8 and 9.
	At this cor. I set off 21°19'N. on the decl. arc; and at 0h 06m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°03'
	Thence I run

Subdivision of T. 32 S., R. 22 E.

Chains	
	N.89°54'W. on true line bet. secs. 5 and 8
	Over mountainous land, through heavy timber and scattering sagebrush.
	Desc.
8.40	Begin abrupt descent over ledges, 100 ft. high, bears NW. and SE.
18.75	East bank of wash, 20 ft. deep in bottom of canon, 250 ft. below sec. cor., bears NW. and SE.
19.25	Bottom of wash, course NW.
19.75	West bank of same wash, bears NW. and SE.
	Asc.
22.47	Top of ledge of west canon wall, a sloping sandstone ledge, 250 ft. high, bears NW. and SE.
	Asc. over smaller ledge.
34.20	Top of ridge, 600 ft. above canon, bears N. and S.
	Desc. over ledges.
39.95	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 5 on N. and S 8 on S half; from which
	A pinon pine, 6 ins.diam., bears N.61°00'W., 98 lks. dist., marked ¼ S 5 B T
	A pinon pine, 8 ins.diam.,bears S.15°25'W., 108 lks. dist., marked ¼ S 8 B T
46.80	Top of ledge, 40 ft. high, bears N. and SE.
53.00	East canon wall, 100 ft. high, bears N.20°W. and S.20°E.
55.00	Bottom of canon, 400 ft. below ridge, course N.20°W.
	Asc. abruptly over smooth sandstone ledge.
58.00	Top of west canon wall, 100 ft. high, bears N.20°W. and S.20°E. Continue ascent over smooth sandstone surface.
66.00	Top of ridge, 200 ft. above canon, bears N. and S.
	Descend.
68.50	Top of east canon wall of Indian Creek Canon, 130 ft. high, bears N. and S.
	Descend abruptly.
73.25	Telephone line from Carlisle to Monticello, bears N.30°

Subdivision of T. 32 S., R. 22 E.

Chains	
	W. and S.10°W.
75.00	Leave heavy timber, bears N. and S.; enter dense sagebrush, oakbrush and scattering timber. Foot of abrupt descent; enter canon bottom, bears N. and S.10° W. descend gently.
78.60	Wagon road, in Indian Creek Canon, from Carlisle to Monticello and Moab, bears N. and S.
79.90	The cor. of secs. 5,6,7 and 8.
	Mountainous land, westerly slope. Soil, gravelly loam 6 to 18 ins. deep on rock and gravel subsoil, dry. Cedar and pinon pine timber. W.5 chs. canon bottom land 1 to 2 ft. deep. Dense sagebrush undergrowth.
	July 17, 1911
	July 18: At 8h 36m a.m., l.m.t., I set off 38°03' on the lat. arc; 21°10'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5,6,7 and 8.
	Thence I run
	N.89°45'W. on a random line bet. secs.6 and 7
40.00	Set temp. ¼ sec. cor.
66.51	Intersect the W. bdy. of Tp. 21 lks. N. of point for cor. of secs. 1,6,7 and 12.
	Thence I run
	S.89°54'E. on a true line bet.secs.6 and 7
	Over mountainous land; through heavy timber and scattering sagebrush and serviceberry brush. Descend.
4.80	Bottom of canon, 50 ft. below sec. cor., course N.10°E.
	Ascend abruptly over broken ledges.
22.80	Top of abrupt ascent, leave ledges, bears N.10°E. and S.10°W.
	Asc. gently.
26.51	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S

Subdivision of T. 32 S., R. 22 E.

Chains	
	6 on N., and S 7 on S half; from which
	A pinon pine, 10 ins.diam.,bears N.35°30'E., 51 lks. dist., marked ¼ S 6 B T
	A pinon pine, 8 ins.diam.,bears S.54°56'E., 33 lks. dist.,marked ¼ S 7 B T
	Cor. is 200 ft. above canon.
27.60	Top of spur, 210 ft. above canon, bears N. and S.
	Desc. gently.
34.00	Top of cliff, 50 ft. high, bears N.10°E. and S.10°W.
	Descend over broken ledges.
47.90	Edge of cliff, 325 ft. high, 125 ft. below spur, bears N.30°E. and S.30°W.
	Leave heavy; enter scattering timber, bears N.30°W. and S.30°E.
	Desc. abruptly over ledges.
54.00	Foot of same cliff; descend over talus.
58.00	Foot of talus bears N.20°E. and S.20°W.
	Enter rolling land in Indian Creek Canon.
60.50	Wash, 30 lks. wide, 8 ft. deep, course N.10°E.
	Enter dense oak, birch, and cottonwood undergrowth.
64.50	Wash, 150 lks. wide, 6 ft. deep, with Indian Creek in middle, 25 lks. wide, 4 ins. deep, rocky bottom, rapid current, course N.10°W.
	Asc. gently.
66.51	The cor. of secs. 5,6,7 and 8.
	Mountainous land, N. slope. Soil, gravelly loam, dry, on rock and gravel subsoil. Cedar and pinon pine timber. Scattering sagebrush undergrowth.
	N.0°03'W. on random line bet. secs. 5 and 6
40.00	Set temp. ¼ sec. cor.
79.86	Intersect N. bdy. of Tp. 2 lks. W. of cor. of secs. 5,6, 31 and 32, heretofore described.
	Thence I run
	S.00 02'E. on true line bet. secs. 5 and 6

Chains	
	Over mountainous land; through scattering timber, scattering sagebrush.
	Ascend over ledges.
5.00	Top of ledge, 300 ft. high, bears N.10°E. and S.80°W.
23.00	Top of ledge, 300 ft. high, bears N.30°W. and S.10°E.
25.00	Top of ridge, and ledges, bears N.80°E. and S.80°W.
	Descend abruptly.
34.00	Foot of abrupt descent, bears NW. and SE.
	At this point I set off 21°09'N. on the decl. arc; and at 0h 06m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°04'
	Enter Indian Creek Canon. Desc. gently.
36.66	Wagon road from Carlisle to Monticello and Moab, bears NW. and S.10°E.
39.56	Same wagon road, bears N.10°E. and SW.
39.86	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 6 on W and S 5 on E half; from which
	A pinon pine, 12 ins. diam.; bears S.32°15'E., 409 lks. dist., marked ¼ S 5 B T
	A cottonwood, 5 ins. diam.; bears N.69°00'W., 265 lks. dist., marked ¼ S 6 B.T.
41.00	Wash, 50 lks. wide, 12 ft. deep, in mouth of canon, from east, course N.60°W.
42.00	Here I offset 2.50 chs. W.; thence I run S.0°02'E. to point 10.00 chs., thence W. 4.00 chs., thence S.0°02' E. at 7.00 chs. telephone from Monticello to Carlisle bears S.30°E. and N.30°W.; at 10.00 chs. road bears N.20°W. and S.20°E.; at 11.10 chs. I run E. at 0.70 ch. wagon road, bears NW. and SE.; at 4.20 chs. telephone line bears N.30°W. and S.30°E.; 6.50 chs. back on sec. line to
61.96	Point at foot of ledges, thence
	S.0°02'E. on sec. line
	Note: from this point Indian writings on ledge, bear N.10°W. 2 chs. dist.

Subdivision of T. 32 S., R. 22 E.

Chains	
65.11	Telephone line bears N.30°W. and S.30°E.
67.00	Wagon road from Carlisle to Monticello and Moab bears N.52°W. and S.20°E.
68.00	Indian Creek, 20 lks. wide, 8 ins. deep, course N.80°W.
70.16	Indian Creek, 60 lks. wide, 2 ins. deep, course N.30°E. (bend in creek)
71.86	Water ditch, 4 lks. wide, 2 ins.deep, course N.40°W.
74.60	Same ditch 4 lks. wide, 2 ins. deep, course N.30°E.
75.00	Indian Creek, 15 lks. wide, 4 ins. deep, course N.30°E.
79.86	The cor. of secs. 5,6,7 and 8.

S. 20 chs. canon bottom land W. slope. Soil, good sand and gravel loam, 12 to 36 ins. deep on rock subsoil. Dense growth of sagebrush.

N. 60 chs. mountainous land, W. slope. Soil, gravelly. loam 6 to 18 ins. deep on rock and gravel subsoil. Cedar and pinon pine timber. Scattering sagebrush undergrowth.

July 18, 1911

Scott P. Stewart

U. S. Transitman

GENERAL DESCRIPTION

This township contains land ranging from a deep sandy loam, which is found in parts of Indian Creek Canon bottom and in the northern part of Hart Draw, to rough and stony on the ridges and mountains.

Cedar and pinon pine timber is found in all parts of the township, being less dense in the NE. portion, none of which is of commercial value. A few yellow pine, aspen and spruce are found in the extreme SW. portion; sagebrush and scattering bunch grass is the chief undergrowth. Cottonwoods and willows are found along Indian Creek.

Indian Creek, a stream of fresh water (about 30 second feet) flows through the township in a northerly

General Description of T. 32 S., R. 22 E.

Chains

direction, but is so boxed by sandstone ledges on both sides that its water is of little value in this township outside of Indian Canon Bottom, which can be watered and is used for this purpose, on Jackson's Ranch in sec. 21 and on Green's Ranch, part of which lies in sec. 6. Both of these ranches produce an abundant growth of alfalfa, corn, squash, peas, and beans, and some fruit such as peaches, apples and plums.

Maple Spring, fresh water, is found in sec. 30 which flows a short distance, then sinks but is an ideal watering place for stock. A small stream of muddy water flows northeasterly in bottom of Hart Draw. This stream however, is diverted during the summer months, through a wash cutting the SE. portion of sec. 36, to Church Rock.

The underlying rock with the exception of the extreme SW. corner is sandstone throughout the entire township hence the soil is of rather poor quality except in hollows where it has been enriched by decomposing vegetable matter. The Shay Mountains are of igneous origin hence the soil on them is of better quality.

John W. Jackson's ranch lies in the NW. quarter of sec. 21, a portion of the pasture extending into the SW. quarter. It contains about 20 acres alfalfa, about 5 acres of corn and squash. The pasture which extends south contains sagebrush, willows, and cottonwood trees, and grass. It is fenced, as well as the other parts of theranch, with pole fencing.

The buildings consist of 3 log cabins, cellar, hen coop, stables, and barnyard, estimated improvements about $300.00.

There is a seep in northern part sec. 2, draining N.

Scott P. Stewart
Eric H. Anderson
U. S. Transitmen

CERTIFICATE OF ASSISTANTS.

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

For certificate of assistants see book "M" T.33 S., R.21 E.

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

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

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

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

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oaths of Transitmen see book "M" T.33 S., R.21 E.

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

.....

U. S. Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah March 28, 1914

The foregoing field notes of the survey of the Subdivisional lines of Township No.32 South, Range No.22 East of the Salt Lake Base and Meridian, Utah,

executed by Scott P.Stewart and Eric H.Anderson under ~~his~~ their special instructions dated March 27, 191 1, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....

U. S. Surveyor General.

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

.....

U. S. Surveyor General.

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MSE.

4—679

BOOK A-388

"E"

FIELD NOTES

OF THE SURVEY OF THE

EAST AND WEST BOUNDARIES

of

TOWNSHIP NO. 31 SOUTH, RANGE NO. 21 EAST.

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

SCOTT P. STEWART and ERIC H. ANDERSON

In the capacity of U. S. ~~Surveyor~~ TRANSITMEN, *under instructions dated* March 27, *191*1, *issued by the United States Surveyor General to govern surveys included in Group No.* 7, *which were approved by the Commissioner of the General Land Office,* April 20, *191*1, *pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced July 16, *191*1

Survey completed July 20, *191*1

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BOOK A-388

INDEX DIAGRAM.

Township 31 South, *Range* 21 East

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6—151

Chains	
	Survey commenced July 16, 1911, and executed with a Young and Sons solar compass No. 1; the horizontal limb having two double verniers placed opposite to each other and reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.
	The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah April 24, 1911.
	I begin at the witness cor. to cor. of Tps. 31 and 32 S., Rs. 21 and 22 E., which is an iron post, 3 ins. dia., firmly set, marked and witnessed as described by surveyor general, set at a point 17.20 chs. N. of true cor. point in latitude 38°04'N., longitude 109°35'44"W.
	Note: This cor. was set when N. bdy. of T 32 S R 22 E. was run.
	At 11h 59m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark a line thus determined by a mark on a stone projecting out of ground about 5 chs. N. of my station.
	July 16, 1911.
	July 17, 1911: At 7h 30m a.m., l.m.t., I lay off the azimuth of Polaris 1°28.8' to the west and mark the true meridian thus determined by cutting a mark on a boulder, projecting out of the ground west of the point established last night; the magnetic bearing of said true meridian at 8h 0m a.m. is N.16°05'W., which which gives the magnetic declination 16°05' east.
	Thence I run from witness cor. (17.20 chs. N. of true cor. point)
17.20	North bet. secs. 31 and 36, with continuous measurement.
	Over mountainous land, through scattering timber, dense sagebrush, greasewood and squawbrush.
	Descend.

EAST BOUNDARY T. 31 S., R. 21 E.

Chains	
22.60	Wash 10 lks. wide, 1 ft. deep, in bottom of small hollow, 80 ft. below witness cor., course NW. Ascend.
23.90	Top of small ascent, 30 ft. above wash, bears NW. and SE. Descend.
26.60	Old wagon road bears N.65°W. and S.65°E. At foot of descent, enter Indian Creek Canyon bears E. and W. Descend gently over rolling land.
26.75	Pole fence bears N.65°W. and S.65°E.
29.90	Indian Creek 20 lks. wide, 8 ins. deep, course NW.
32.50	Enter cultivated land S. edge of which bears W. 2 chs. and E. 4 chs., thence SE.
38.20	From this point the Titus corrals and stables bear S. 49°30'E., and about 20 chs. dist.
	Titus N. cabin bears S.39°50'E.
	" S. " " S.39°00'E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 36 on W. and S 31 on E. half, from which
	A cottonwood 24 ins. dia. bears S.31° 4'E., 7.24 chs. dist., marked ¼ S 31 B T.
	A cottonwood 6 ins. dia. bears S.87°43'W., 223 lks. dist., marked ¼ S 36 B T.
40.10	N. edge of cultivated land, bears E. and W.
	Note: The W. edge of cultivated land runs about 1 ch. W. of line and the E. edge about from 2 to 8 chs. E. of line. Enter sagebrush and greasewood bears same.
55.00	From this point Titus N. cabin bears S.18°40'E.
	Titus S. cabin bears S.18°20'E.
61.80	Leave greasewood and sagebrush, enter alfalfa bears E. and W.
72.10	Leave alfalfa enter dense brush, bears N.80°E. and S.80°E.
75.00	Indian Creek 15 lks. wide, 12 ins. deep, course NE.
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,

EAST BOUNDARY T. 31 S., R. 21 E.

Chains	
	marked on brass cap T 31 S in N. half, R 21 E S 25 in NW., R 22 E S 30 in NE., S 31 in SE., and S 36 in SW. quadrant; from which A cottonwood 8 ins. dia. bears N.74°40'E. 259 lks. dist., mkd. T 31 S R 22 E S 30 B T. A cottonwood 10 ins. dia. bears S.2°E. 183 lks. dist., mkd. T 31 S R 22 E S 31 B T. A cottonwood 8 ins. dia. bears S.33°15'W. 398 lks. dist., mkd. T 31 S R 21 E S 36 B T. No other tree being available, dig pit 18 x 18 x 12 ins. in sec. 25, 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. S. 25 chs. mountainous land N. slope. Soil, gravelly loam 6 to 12 ins. deep, dry coarse texture not fit for cultivation. Timber, scattering cedar and pinon pine. Undergrowth, sagebrush and greasewood N. 55 chs. Gently rolling canyon bottom land N. slope. Soil a good sandy loam with come clay 1 to 3 ft. deep, on sand and gravel. Subsoil, reddish color, rather fine texture, moist, will grow abundant crop.
	North bet. secs. 25 and 30 on E. bdy. of Tp. Over nearly level canyon bottom land, through dense sagebrush, greasewood, squawbrush, and a few scattering cottonwood timber. Descend gently.
4.75	Point from which an old dugout or cellar and shed bears N.58°30'W., about 14 chs. dist.
5.10	Indian Creek 20 lks. wide, 8 ins. deep, course N.60°W.

EAST BOUNDARY T. 31 S., R. 21 E.

Chains	
7.80	Indian Creek, 20 lks. wide, 8 ins. deep, course N.30°E.
8.20	Field road bears N. 60°W. and SE.
15.00	Indian Creek, 20 lks. wide, 8 ins. deep, course NW.
18.00	Bend in same creek course N.20°E.
20.10	Dry ditch 5 lks. wide, 5 ft. deep, course N.20°E.
22.00	Bend in Indian Creek, course NW.
22.20	Dam in Indian Creek 40 lks. W. of line head of Davis' irrigation ditch.
31.20	Fence bears N.57°E. and S.57°W.
	Note: A gate is located 7 chs. easterly at road.
39.00	Telephone line from Carlisle to Dugout ranch, bears N. 22°W. and S.22°E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 25 on W. and S 30 on E. half; from which
	A lone pine, 12 ins. dia., bears S.13°E. 215 lks. dist., marked ¼ S 30 B T.
	An oak 4 ins. dia. bears N.58°30'W. 149 lks. dist., marked ¼ S 25 B T.
	Note: An old cabin SE. cor. of which bears N.16°W. 360 lks. dist., owner unknown.
	July 17: At 12h 6m noon, l.m.t., I set off 21°19'N. on the decl. arc, and observe the sun on the meridian at this cor.; the resulting lat. is 38°06', which is the proper lat. nearly.
41.85	Davis' irrigation ditch course N.20°E. 5 lks. wide, 8 ins. deep.
42.80	Old road, bears E. and W.
45.80	Old log granary bears E. 30 lks. dist.
46.35	Old road, bears NE. and SW.
52.30	Old ditch 5 lks. wide, 3 ft. deep, course NE.
70.80	Old ditch 4 lks. wide, 1 ft. deep, course NW.
71.35	Wagon road from Carlisle to Dugout ranch, bears NW. and S.60°E.

EAST BOUNDARY T. 31 S., R. 21 E.

Chains	
76.30	Old ditch bears NW. and SE.
76.60	Fence across canyon, bears N.72°E. and S.72°W.
78.00	E. bank of creek bed, bears NE. and SW.
80.00	Point for cor. of secs. 19, 24, 25 and 30 falls in creek bed. No cor. set.
80.40	N. bank of creek bed, bears N.57°W. and S.14°E.
80.80	Road to Joseph Davis' ranch bears N.57°W. and S.14°E.
81.00	Nearest safe point for witness cor.
	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for witness cor. to cor. of secs. 19, 24, 25 and 30, marked on brass cap T 31 S in N. half, R 21 E S 24 in NW., R 22 E S 19 in NE., S 30 in SE., S 25 in SW. quadrants, with WC on S face,
	from which A cottonwood 8 ins. dia. bears N.53°30'E. 489 lks. dist., marked WC T 31 S R 22 E S 19 B T. A cottonwood 9 ins. dia. bears S.51°50'E. 540 lks. dist., marked WC T 31 S R 22 E S 30 B T. A cottonwood 10 ins. dia. bears S.13°55'W. 215 lks. dist., marked WC T 31 S R 21 E S 25 B T. A cottonwood 10 ins. dia. bears N.84°15'W. 237 lks. dist., marked WC T 31 S R 21 E S 24 B T.
	Note: The SE. cor. of Joseph Davis' house bears N.27°W. 6.43 chs. dist.
	The SE. cor. of corncrib bears N.47°W. 6.15 chs. dist.
	The NE. cor. of stack yard bears N. 48°W. 6.88 chs. dist.
	There is a cellar about 50 lks. SW. of house and a surface well 30 ft. deep, 75 chs. S. of house.
	Gently rolling canyon bottom land, N. slope.
	Soil a good sandy loam with some clay, 1 to 3 ft. deep on sand and gravel subsoil, moist, medium texture -- grows good alfalfa where land is irrigated.

EAST BOUNDARY T. 31 S., R. 21 E.

Chains	
	Timber, scattering cottonwood, oak and birch along Indian Creek. Where land is not cultivated the undergrowth is chiefly sagebrush and a little grass.
	From witness cor. to cor. of secs.19,24,25 and 30, I run North bet. secs. 19 and 24 on E. bdy. of Tp.
	Over gently rolling land, through cultivated land.
4.40	Field road, bears NE. and SW.(Counting from true cor. point.)
4.60	NE. cor. of Joseph Davis' orchard, 10 lks. W. of line, the fence bearing NE. and SW.
4.80	Water ditch to garden course W.
25.50	Leave cultivated land, ascend grassy ridge, bears E. and W.
31.30	Top of ridge and Davis' irrigation ditch, 8 lks. wide, 1 ft. deep, course N.60°W.
32.10	Old road, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 24 on W. and S 19 on E. half, raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	July 17: At 3h 36m p.m., l.m.t., I set off 38°07' on the lat. arc; 21°17'N. on the decl. arc; and determine the meridian at this cor. and it agrees with meridian established by Polaris observation.
	Descend gently.
48.00	Davis' N. fence bears N.80°E. and S.80°W.
55.20	Head of hollow,20 ft.below ridge,course S.80°W.Asc.gently.
69.50	Top of ridge, 40 ft. above hollow, bears E. and W.
	Descend gently.
74.00	Wash, 20 lks. wide, 3 ft. deep, in bottom of hollow, 30 ft. below ridge, course S.70°W. Ascend.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground and surrounded by mound of stone for cor. of secs. 13, 18, 19 and 24, marked on brass cap

EAST BOUNDARY T. 31 S., R. 21 E.

Chains

T 31 S in N. half,

R 21 E S 13 in NW.,

R 22 E S 18 in NE.,

S 19 in SE., and

S 24 in SW. quadrant; from which

A boulder 12 x 12 x 12 ft. bears N.52°E. 310 lks. dist., marked X B O S 18.

A boulder 12 x 12 x 10 ft. bears S.67°E. 182 lks. dist., marked X B O S 19.

A sandstone boulder, 12 x 6 x 4 ft., bears S.46°40' W. 28 lks. dist., marked X B O S 24.

A sandstone boulder 10 x 6 x 3 ft. bears N.51°W. 398 lks. dist., marked X B O S 13.

Gently rolling land W. slope.

Soil, good sand and gravel loam with some clay, 1 to 3 ft. deep, on sand and gravel subsoil, medium texture, medium moist. Good crops are grown on Joseph Davis' ranch, such as alfalfa, corn, potatoes, mellons and a number of fruit trees, principally apples and peaches.

This ranch is irrigated from Indian Creek on the uncultivated land; the undergrowth consists of sagebrush and grass.

No timber.

July 17, 1911.

July 18: At 8h 06m a.m., l.m.t., I set off 38°07' on the lat. arc; 21°11'N. on the decl. arc; and determine a meridian with the solar at cor. of secs. 13, 18, 19 and 24, heretofore described.

Thence I run

North, bet. secs. 13 and 18.

Over rough, mountainous land, through scattering timber.

Begin abrupt ascent of talus slope.

9.63 Foot of main ledge; 350 ft. above sec. cor.

EAST BOUNDARY T. 31 S., R. 21 E.

Chains	
14.00	Top of ledges, 400 ft. above foot, bears E. and W.
	Ascend over broken ledges.
30.00	Top of mesa spur, bears N.70°E. and S.70°W.
	Descend abruptly over broken sandstone ledges.
40.00	Point falls on sloping ledges. No cor. set.
55.00	Foot of main ledge, bears E. and W.
	Descend over rough talus slope.
55.50	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 witness ¼ sec. cor., marked on brass cap
	T 31 S R 21 E. ¼ S 13 in W. half,
	S 18 in E. half,
	WC ¼ on S half, from which
	A cedar 10 ins. dia. bears N.74°20'E., 38 lks. dist., marked W C ¼ S 18 B T.
	No other tree being available, raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Descend over broken talus slope.
63.80	Bottom hollow, course W.
	Ascend.
65.00	Top of ascent, bears E. and W.
	Descend.
71.80	Wash 1 ch. wide, 6 ft. deep, course S.40'W., thence along wash.
76.70	Leave wash, course S. comes from N.20°E.
	Ascend gently.
80.00	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, marked on brass cap
	T 31 S in N half,
	R 21 E S 12 in NW.,
	R 22 E S 7 in NE.,
	S 18 in SE., and
	S 13 in SW. quadrant, raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.

EAST BOUNDARY T.31 S., R. 21 E.

Chains	
	Rough, mountainous land; W. slope.
	Soil, poor, gravelly loam, 6 to 12 ins. deep, on bed rock, washed on slopes, stony, dry, coarse texture.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	North bet. secs. 7 and 12.
	Over rough, mountainous land, through scattering timber and sagebrush.
	Ascend.
1.80	Top of small ascent bears N.80°E. and S.80°W.
	Descend gently.
4.00	Wash, 50 lks. wide, 3 ft. deep, course S.70°W.
	Begin steep ascent of talus slope, bears N.30°E. and S. 30°W.
18.00	Ascend abruptly over ledges or cliffs, bears NE. and SW.
32.00	Top of cliffs 800 ft. above sec. cor., bears E. and W.
	Ascend over small broken ledges.
35.00	Top of spur, south edge of mesa, bears E. and W.
	July 18: At 12h 06m noon, l.m.t., I set off 31°08'N. on the decl. arc; and observe the sun on the meridian at this point; the resulting lat. is 38°08' very nearly.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, surrounded by mound of stone for ¼ sec. cor., marked on brass cap ¼ S 12 on W. and S 7 on E. half, from which
	A pinon pine 12 ins. dia. bears S.87°20'W., 6 lks. dist., marked ¼ S 12 B T.
	A pinon pine 6 ins. dia. bears N.83°30'E., 53 lks. dist., marked ¼ S 7 B T.
	Descend.
45.00	Head of hollow, 200 ft. below ¼ sec. cor., course E.
	Ascend steep slope.

EAST BOUNDARY T. 31 S., R. 21 E.

Chains	
65.00	Top of steep ascent, bears N.40°E. and S.40°W.
	Ascend gently along E. side of ridge, through cedar and pinon pine timber and some grass.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 18 ins. in the ground, on solid rock, surrounded by mound of stone for cor. of secs. 1, 6, 7 and 12, marked on brass cap
	T 31 S on N. half,
	R 21 E S 1 in NW.
	R 22 E S 6 in NE.
	S 7 in SE., and
	S 12 in SW. quadrant; from which
	A pinon pine 8 ins. dia. bears N.44°46'E. 141 lks. dist., marked T.31 S R 22 E.S.6 B.T.
	A pinon pine, 10 ins. dia. bears S.58°15'E. 59 lks. dist., marked T 31 S R 22 E S 7 B.T.
	A pinon pine 10 ins. dia. bears S.33°21'W. 67 lks. dist., marked T 31 S R 21 E S 12 B.T.
	A pinon pine 6 ins. dia. bears N.27°33'W. 59 lks. dist., marked T 31 S R 21 E S 1 B T.
	Mountainous land, SE. slope.
	Soil, gravelly loam 6 to 12 ins. deep, on sandstone bed rock; stony, dry, washed on slopes.
	Timber, cedar and pinon pine.
	Undergrowth, sagebrush and some grass.
	Note: Wild donkeys feed on this mesa and to the north and east.

North, bet. secs. 1 and 6.

	Over mountainous mesa land, through cedar and pinon pine timber and sagebrush.
	Ascend gently along E. slope and near top of small ridge.
20.50	Trail bears N.70°E. and S.70°W.
21.20	Top of ridge, bears N.70°E.and S.5°W.
	Descend.

EAST BOUNDARY T. 31 S., R. 21 E.

Chains	
25.00	Bottom of hollow, 75 ft. below top of ridge, course W.
	Ascend gently.
35.00	Top of small spur, 60 ft. above hollow, bears E. and W.
	Descend.
37.10	Bottom of small hollow, 35 ft. below spur, course N.70°E.
	Ascend.
39.50	Top of small ridge, 25 ft. above hollow, bears E. and W.
	Descend gently.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, surrounded by mound of stone for ¼ sec. cor., marked on brass cap ¼ S 1 on W., and S 6 on E. half; from which
	A pinon pine 12 ins. dia. bears S.89°50'E. 23 lks. dist., marked ¼ S 6 B T.
	A pinon pine 16 ins. dia. bears N.66°15'W. 33 lks. dist., marked ¼ S 1 B T.
	July 18, 1911.
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	I continue my line from ¼ sec. cor.
	Descend.
40.50	Bottom of small hollow, 20 ft. below ¼ sec.cor., course W.
	Ascend.
41.40	Top of small ascent, bears E. and W.
	Descend abruptly over ledges, bear E. and W.
55.00	Bottom of head of canyon, 350 ft. below top, course W.
	Ascend over ledges.
58.00	Top of abrupt ascent, N. edge of canyon, 250 ft. above bottom, bears N.70°E. and S.70°W.
	Ascend over smooth sandstone in place.
73.50	Top of spur, 75 ft. above edge of canyon, bears N.60°E. and S.60°W. Descend.
75.00	Bottom of small hollow, 40 ft. below spur, course S.60°W. Ascend.
83.00	Top of small spur, 50 ft. above hollow, bears E. and W.
	Descend gently.

EAST BOUNDARY T. 31 S., R. 21 E.

Chains	
91.00	Bottom of small hollow, 35 ft. below spur, course S.60°W. Ascend.
94.00	Top of ridge, 80 ft. above hollow, bears N.60°E. and S. 60°W. Descend.
114.00	Bottom of small canyon, 125 ft. below ridge, course S. 40°W. Ascend.
118.50	Top of ascent, 60 ft. above canyon, bears N.70°W. and S. 70°E.
	Ascend very gently.
120.20	Trail, bears N.40°E. and S.40°W.
122.00	Intersect Sixth Standard Parallel South 22.57 chs. E. of standard cor. of Tp. 30 S., Rs. 21 and 22 E., described in book "G" of this survey.
	Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for closing cor. of Tp. 31 S., Rs. 21 and 22 E., marked on brass cap
	T 30 S R 21 E S 36 R 22 E S 31 in N. half,
	S 6 in SE.,
	S 1 in SW.,
	C C T 31 S in S. half; from which
	A pinon pine 6 ins. dia. bears S.32°07'W. 231 lks. dist., marked T 31 S R 21 E S 1 B.T.
	No other bearing trees within limits; dig pits 30 x 24 x 12 ins. crosswise on each line E. and W. 4 ft. and S. of stone 7 ft. dist.; and raise a mound of earth 5 ft. base, 2½ ft. high, S. of cor.
	Land, mountainous mesa; W. slope.
	Soil, gravelly loam 6 to 12 ins. deep, on bed rock or gravel subsoil; dry, and rather coarse texture.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.

July 28, 1911.

Eric H Anderson

U. S. Transitman.

WEST BOUNDARY T. 31 S., R.21 E.

Survey commenced July 18, 1911, and executed with a W. and L. E. Gurley explorers transit No. 956 with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to 30" 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 April 24, 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 observation on Polaris, I proceed as follows:

At the cor. of Tps. 31 and 32 S., Rs. 20 and 21 E., latitude 38°04'17"N., longitude 109°42'19"N., I set off 38°04' on the lat. arc; 21°07½'N. on the decl. arc; and at 3h 36m p.m., l.m.t., determine with the solar a meridian and mark a point thereof on a peg driven in the ground 5 chs. N. of the cor.

At 11h 48.5m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.

July 18, 1911.

July 19: At 7h 45m 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 mark on peg set July 18 on which the meridian falls 0.32 ins. east of the mark determined by the solar.

At 8h 6m a.m., l.m.t, I set off 38°04' on the lat arc; 21°00'N. on the decl. arc; and mark a point in the meridian determined with the solar by a mark on the

WEST BOUNDARY T. 31 S., R.21 E.

Chains	
	peg already set 5 chs. N. of my station; this mark falls 0.32 ins. east of the meridian established by the Polaris observation.
	The solar apparatus by p.m. and a.m. observations, defines positions for meridian, respectively about 0'17" E. and 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 true meridian at 8h 15m a.m. is N.16° 5'W.; the angle thus determined gives the magnetic decl. 16° 5'E.
	From the cor. of Tps. 31 and 32 S. Rs. 20 and 21 E., heretofore described, I run
	North bet. secs. 31 and 36.
	Over mountainous land, through cedar and pinon pine timber.
	Ascend over ledges and boulders.
5.70	Top of ascent, S. edge of mesa or flat ridge, bears E. and W.
	Ascend gently.
13.65	Leave mesa and begin abrupt descent over ledges, bears N.30°W. and S.30°E.
29.80	Head of steep, rocky canyon, 400 ft. below mesa, course S.35°E.
	Ascend abruptly over ledges.
37.10	Top of abrupt ascent and ledges, 400 ft. above canyon, bears N.80°E. and S.80°W.
	Ascend gently over mesa.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 36 on W. and S 31 on E. half; from which
	A pinon pine 12 ins. dia. bears N.67°30'E. 57 lks. dist., marked ¼ S 31 B.T.

WEST BOUNDARY T. 31 S., R. 21 E.

Chains	
	A pinon pine 10 ins. dia. bears S.76°0'W. 49 lks. dist., marked ¼ S 36 B T.
61.35	Wash, 100 lks. wide, 15 ft. deep, course E.
72.40	Trail bears NE. and SW.
76.00	Leave mesa begin ascent over small ridges and hollows.
79.00	Head of hollow, 20 ft. deep, course E.
	Ascend.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap
	T 31 S in N. half,
	R 20 E S 25 in NW.,
	R 21 E S 30 in NE.,
	S 31 in SE., and
	S 36 in SW. quadrant; from which
	A cedar 10 ins. dia. bears N.73°0'E. 57 lks. dist., marked T 31 S R 21 E S 30 B T.
	A red sandstone boulder 18 x 10 x 8 ft. bears S.69°0'E. 76 lks. dist., marked X B O S 31.
	A cedar 10 ins. dia. bears S.10°30'W. 67 lks. dist., marked T 31 S R 20 E S 36 B T.
	A pinon pine 6 ins. dia. bears N.62°0'W. 120 lks. dist., marked T 31 S R 20 E S 25 B T.
	Mountainous land E. slope.
	Soil, a mixture of sand and gravel 6 to 18 ins. deep on rock and gravel subsoil, dry, coarse texture.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.

North bet. secs. 25 and 30.

	Over mountainous land, through scattering timber and sagebrush.
	Ascend over sandstone ledges and boulders.
12.10	Top of ridge, 60 ft. above sec. cor., bears E. and W.
	Descend.

WEST BOUNDARY T. 31 S., R. 21 E.

Chains	
18.00	Bottom of hollow, 50 ft. below ridge, course E.
	Ascend.
20.00	Top of ridge on west edge of knoll, 60 ft. above hollow, bears N.60°E. and S.60°W.
	Descend.
26.25	Wash 10 lks. wide, 3 ft. deep, course N.80°E.
26.90	Center of boulder 30 x 40 x 50 ft. on line.
28.00	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., marked on brass cap ¼ S 25 on W. and S 30 on E. half; from which
	A pinon pine 12 ins. dia. bears S.64°0'E. 92 lks. dist., marked ¼ S 30 B T.
	A pinon pine 14 ins. dia. bears S.86°30'W. 41 lks. dist., marked ¼ S 25 B T.
	July 19: At 12h 6m p.m., l.m.t., I set off 20°58'N. on the decl. arc; and observe the sun on the meridian at this cor.; the resulting lat is 38°06' very nearly.
51.00	Begin abrupt descent over ledges into head of canyon, bears N.70°E. and S.70°W.
60.50	Bottom of head of canyon, 200 ft. below mesa, course N.80°W.
	Ascend over ledges.
62.60	Top of ledge at edge of mesa or broad ridge, 200 ft. above canyon, bears N.60°W. and S.60°E.
	Descend gently over mesa.
78.30	N. edge of mesa or flat ridge, top of ledge 20 ft. high, bears N.20°E. and S20°W.
	Descend abruptly over ledges.
80.00	Point 80 ft. below edge of mesa.
	Set an iron post, 3 ft. long, 3 ins. in dia., 14 ins. in the ground on solid rock and surrounded by mound of stone for cor. of secs. 19, 24, 25 and 30, marked on brass cap

T 31 S in N. half,

WEST BOUNDARY T. 31 S., R. 21 E.

Chains	
	R 20 E S 24 in NW.,
	R 21 E S 19 in NE.,
	S 30 in SE., and
	S 25 in SW. quadrant, from which
	A cedar 10 ins. dia. bears N.4°25'E. 106 lks. dist., marked T 31 S R 21 E S 19 B T.
	A boulder 15 x 6 x 4 ft. bears S.39°15'E. 8 lks. dist., marked X B O S 30 on W. end.
	A pinon pine 6 ins. dia. bears S. 30°20'W. 89 lks. dist., marked T 31 S R 20 E S 25 B T.
	A boulder 30 x 15 x 10 ft. bears N.40°40'W. 39 lks. dist., marked X B O S 24 on E. end.
	Mountainous land, easterly slope.
	Soil, gravelly loam, 6 to 15 ins. deep, on gravel or rock subsoil, dry, coarse texture.
	Timber, scattering cedar and pinon pine 28 chs., heavy cedar and pinon pine 52 chs.
	Undergrowth, scattering sagebrush.
	North bet. secs. 19 and 24.
	Over mountainous land, through heavy timber.
	Descend over ledges.
6.60	Bottom of head of canyon, 200 ft. below sec. cor., course N.60°W.
	Ascend abruptly over ledges.
16.45	Top of ridge, 60 ft. above canyon, bears E. and W.
	Descend.
23.00	Bottom of hollow, in same head of canyon, 80 ft. below ridge, course W.
	Ascend abruptly over ledges.
34.30	Top of abrupt ascent and edge of broad ridge or mesa, bears NW. and S. 36°E.
	July 19: At 3h 6m p.m., l.m.t., I set off 38°07' on the lat arc; 20°57'N. on the decl. arc; and determine a meridian with the solar at this point.

WEST BOUNDARY T. 31 S., R. 21 E.

Chains	
	Descend gently over mesa.
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., marked on brass cap ¼ S 24 on W. and S 19 on E. half, from which
	A pinon pine 14 ins. dia. bears N.53°45'E. 50 lks. dist., marked ¼ S 19 B T.
	A pinon pine 6 ins. dia. bears N.87°0'W. 62 lks. dist., marked ¼ S 24 B T.
43.30	N. edge of mesa or flat ridge, bears N.80°E. and S.80°W.
	Descend abruptly over ledges.
52.50	Head of hollow, 140 ft. below edge of mesa, course N. 70°W.
	Ascend over ledges.
59.60	Top of ridge, 50 ft. above hollow, bears NW. and SE.
	Descend over broken surface.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground on solid rock and surrounded by mound of stone for cor. of secs. 13, 18, 19 and 24, marked on brass cap
	T 31 S in N. half,
	R 20 E S 13 in NW.,
	R 21 E S 18 in NE.,
	S 19 in SE., and
	S 24 in SW. quadrant, from which
	A cedar 10 ins. dia. bears N.2°30'E. 314 lks. dist., marked T 31 S R 21 E S 18 B T.
	A cedar 6 ins. dia. bears S.36°30'E. 155 lks. dist., marked T 31 S R 21 E S 19 B T.
	A cedar 6 ins. dia. bears S.25°0'W. 103 lks. dist., marked T 31 S R 20 E S 24 B T.
	A pinon pine 14 ins. dia. bears N.63°40'W. 94 lks. dist., marked T 31 S R 20 E S 13 B T.
	Mountainous land NW. slope.
	Soil, gravelly loam 6 to 12 ins. deep, on bedrock; stony, washed on slopes, dry.

WEST BOUNDARY T. 31 S., R. 21 E.

Chains	
	Timber, heavy cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	July 19, 1911.
	July 20: At 8h 6m a.m., l.m.t., I set off 38°07' on the lat. arc; 20°49'N. on the decl. arc; and determine a meridian with the solar at cor. of secs. 13, 18, 19 and 24, heretofore described.
	Thence I run
	North bet. secs. 13 and 18.
	Over mountainous land, through scattering timber, and scattering sagebrush and shadscale and good grass.
	Descend.
8.00	Leave timber at foot of broken country, bears NE. and SW.
	Descend gently.
16.70	Wash 20 lks. wide, 2 ft. deep, course NW.
20.00	Wash 30 lks. wide; 5 ft. deep, course NW.
39.50	Trail 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., marked on brass cap ¼ S 13 on W. and S 18 on E. half, from which
	A cottonwood 16 ins. dia. bears N.46°50'W.
	593 lks. dist., marked ¼ S 13 B T.
	No other tree being available, 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.
	Note: A small spring in Davis Canyon bears N.28°30'W. 550 lks. dist.
57.00	Center of wash 150 lks. wide, 3 ft. deep, in botton of Davis Canyon, course NE.
	Ascend gently.
71.50	Trail bears NE. and SW.
73.70	Center of wash, 100 lks. wide, 4 ft. deep, course N.50°E.
77.10	Wash 10 lks. wide, 3 ft. deep, course E.

WEST BOUNDARY T. 31 S., R. 21 E.

Chains

80.00 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, marked on brass cap

T 31 S in N. half,

R 20 E S 12 in NW.,

R 21 E S 7 in NE.,

S 18 in SE., and

S 13 in SW. quadrant; from which

A cedar 14 ins. dia. bears N.48°15'E. 437 lks. dist., marked T 31 S R 21 E S 7 B T.

A cedar 7 ins. dia. bears S 3°25'E. 398 lks. dist., marked T 31 S R 21 E S 18 B T.

A cedar 20 ins. dia. bears S.27°10'W. 435 lks. dist., marked T 31 S R 20 E S 13 B T.

A cedar 15 ins. dia. bears N.17°50'W. 781 lks. dist., marked T 31 S R 20 E S 12 B T.

S. 8 chs. mountainous land N. slope.

Soil, poor, gravelly loam, 6 to 12 ins. deep on decomposing sandstone.

Timber, scattering cedar and pinon pine on S. 8 chs.

Undergrowth, sagebrush, shadscale and grass.

N. 72 chs. gently rolling canyon bottom land, NE. slope.

Soil, sandy loam with some clay 1 to 3 ft. deep on gravel subsoil, medium texture.

Undergrowth, shadscale, sagebrush and grass.

No timber.

North bet. secs. 7 and 12.

Over rolling mountainous land, through scattering timber, sagebrush and grass.

Ascend gently.

16.00 Begin ascent over broken country, bears E. and W.

33.50 Top of ridge, 60 ft. above sec. cor., bears E. and W.

WEST BOUNDARY T. 31 S., R. 21 E.

Chains	
	Descend.
25.00	Foot of steep descent, bears NW. and SE.
	Descend gently.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 12 on W. and S 7 on E. half; from which
	A cedar 5 ins. dia. bears N.64°30'E. 99 lks. dist., marked ¼ S 7 B T.
	A cedar 6 ins. dia. bears S.85°30'W. 62 lks. dist., marked ¼ S 12 B T.
40.55	Wash, 10 lks. wide, 3 ft. deep, course N.80°E.
48.90	Wash, 20 lks. wide, 3 ft. deep, course E.
54.00	Wash, 30 lks. wide, 3 ft. deep, course E.
	Begin abrupt ascent of ridge.
58.70	Top of ridge, 150 ft. above ¼ sec. cor., bears E. about 20 chs. to the valley and W.
	Descend.
63.00	Head of hollow, 80 ft. below ridge, course N.80°E.
66.65	Top of ridge, 30 ft. above hollow, bears N.60°E. and S.60°W.
	Note: Six Shooter Peak bears N.24°30'E.
	Descend.
71.50	Wash 10 lks. wide, 1 ft. deep, course N.80°E. at foot of descent, bears N.80°E. and N.70°W.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground on solid rock surrounded by mound of stone for cor. of secs. 1, 6, 7 and 12, marked on brass cap
	T 31 S in N. half,
	R 20 E S 1 in NW.,
	R 21 E S 6 in NE.,
	S 7 in SE., and
	S 12 in SW. quadrant; from which
	A cedar 5 ins. dia. bears N.37°15'E. 101 lks. dist., marked T 31 S R 21 E S 6 B T.
	A cedar 8 ins. dia. bears S.49°00'E. 89 lks. dist.,

WEST BOUNDARY T. 31 S., R. 21 E.

Chains	
	marked T 31 S R 21 E S 7 B T.
	A cedar 8 ins. dia. bears S.57°30'W. 134 lks. dist., marked T 31 S R 20 E S 12 B T.
	A cedar 8 ins. dia. bears N.43°30'W. 149 lks. dist., marked T 31 S R 20 E S 1 B T.
	Rolling, mountainous land E. slope.
	Soil, sandy loam with some gravel 6 to 18 ins. deep, on decomposing sandstone and gravel subsoil, medium texture, dry.
	Timber, scattering cedar and pinon pine.
	Undergrowth, sagebrush, shadscale and grass.
	July 20: At 12h 6m noon, l.m.t., I set off 20°47'N. on the decl. arc; and observe the sun on the meridian at this cor.; the resulting lat. is 38°09' nearly.
	North bet. secs. 1 and 6.
	Over rolling land, through scattering timber, scattering sagebrush and shadscale.
	Ascend gently.
8.00	Top of ridge, 20 ft. above sec. cor., bears E. and W.
	Descend gently.
26.30	Wash 60 lks. wide, 4 ft. deep, course NE.
	Ascend gently.
29.95	Wash 10 lks. wide, 3 ft. deep, course N.80°E.
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., marked on brass cap ¼ S 1 on W., and S 6 on E. half; from which
	A cedar 8 ins. dia. bears N.85°0'E. 60 lks. dist., marked ¼ S 6 B T.
	A cedar 9 ins. dia. bears N.42°45'W. 190 lks. dist., marked ¼ S 1 B T.
47.55	Wash, 30 lks. wide, 3 ft. deep, course SE.
56.41	Begin abrupt ascent of ridge over ledges, bears NW. and SE.

WEST BOUNDARY T. 31 S., R. 21 E.

Chains	
64.50	Top of ridge, 200 ft. above ¼ sec. cor., bears N.60°W. and S.60°E. Ascend gently.
84.50	Top of ridge, 50 ft. above last ridge, bears N.80°E. and S.80°W.
	July 20: At 3h 36m p.m., l.m.t., I set off 38°10' on the lat. arc; 20°46'N. on the decl. arc; and determine a meridian with the solar at this point.
	Descend.
90.50	Head of rugged hollow, 80 ft. below ridge, course E.
	Ascend abruptly over ledges.
93.80	Top of ledge, 20 ft. high, bears E. and W.
100.27	Top of steep ascent, edge of mesa, 300 ft. above hollow, bears N.80°E. and S.30°W.
104.70	Intersect old standard parallel. Set temp. cor. July 20, 1911.
	July 28, 1911: I destroy temp. cor., and continue my line
113.70	N. edge of mesa ledge, 30 ft. high, bears E. and W.
	Descend abruptly over ledges and boulders.
121.54	Point 500 ft. below mesa.
	Intersect Sixth Standard Parallel South 25.34 chs. E. of standard cor. of Tp. 30 S., Rs. 20 and 21 E., described in book "G" of this survey.
	Set an iron post 3 ft. long, 3 ins. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of stone for closing cor. of Tp. 31 S., Rs. 20 and 21 E., marked on brass cap
	T 30 S R 20 E S 36 R 21 E S 31 in N. half,
	C C T 31 S in S. half,
	S 6 in SE., and
	S 1 in SW. quadrant; from which
	A cedar 5 ins. dia. bears S.34°30'E. 80 lks. dist., marked T 31 S R 21 E S 6 B T.
	A cedar 8 ins. dia. bears S.18°10'W. 49 lks. dist., marked T 31 S R 20 E S 1 B T.
	Land, rolling NE. slope.

WEST BOUNDARY T. 31 S., R. 21 E.

Soil, sand and gravelly loam, 8 to 12 ins. deep, on decomposing sandstone and gravel subsoil; rather coarse texture; dry.

Timber, scattering cedar and pinon pine.

Undergrowth, scattering sagebrush, shadscale and grass.

July 28, 1911.

Scott P. Stewart

U. S. Transitman.

BOUNDARIES OF T. 31 S., R. 21 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Lines Designated	True Bearing	Dist.	Latitudes, N.	Latitudes, S.	Departures. E.	Departures. W.
		chs.	chs.	chs.	chs.	chs.
West Boundary	North	521.54	521.54	.....	.....	.....
6th Stand.Par.S.	East	477.23	.....	.....	477.23	.....
East Boundary	South	522.00	.....	522.00	.....	.....
South Boundary	S.89°58'W.	477.71	.....	.28	.....	477.71
Convergency					.60	
Totals			521.54	522.28	477.83	477.71
				521.54	477.71	
Error in lat. and dep.				.74	.12	

For general description see notes of Subdivision of T. 31 S., R. 21 E.

CERTIFICATE OF ASSISTANTS.

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

For certificate of assistants see book "M" T. 33 S., R. 21 E.

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

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

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

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

.....

U. S. Surveyor.

6—2761

FINAL OATH OF UNITED STATES SURVEYOR

I, ... U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ..... 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of transitmen see book "K" T. 338., R. 21 E.

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

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

.....

U. S. Surveyor.

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

[illegible]

APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah, March 28 ....., 1914

The foregoing field notes of the survey of East and West Boundaries of Tp. No. 31 South, Range No. 21 East, Salt Lake Base and Meridian, Utah

executed by Scott P. Stewart and Eric F. Anderson under their special instructions dated March 27, ..., 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

[signature]

U. S. Surveyor General.

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

.....

U. S. Surveyor General.

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Filed Feb.29, 1912.
WSH.

4—679

BOOK A-388
F.

KFB.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO.31 SOUTH,

RANGE NO.21 EAST,

Of the SALT LAKE BASE AND *Meridian,*

in the State of UTAH

EXECUTED BY

SCOTT P.STEWART AND ERIC H.ANDERSON,

In the capacity of U. S. ~~Surveyor~~ Transitmen, *under instructions dated* March 27, *1911,*

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

Group No. 7, *which were approved by the Commissioner of the General Land*

Office, April 20, *1911, pursuant to authority contained in the Act of*

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

Survey commenced July 18, *1911*

Survey completed August 9, *1911.*

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INDEX DIAGRAM.

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

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30	29	28	27	26	25
31	32	33	34	35	36

Survey commenced July 18, 1911, and executed with a Young and Sons solar compass, with telescope 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, April, 24, 1911.

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

At the cor. of secs. 1,2,35 and 36, on the south boundary of the Tp., which is an iron post 3 ins.diam., heretofore described, latitude 38°04'17"N.; long. 109°37' 00"W. I set off 38°04½'N. on the lat. arc; 21°07'N. on the decl. arc; and at 4h 06m p.m., l.m.t., I determine with the solar a meridian, and mark a point thereof on a stone projecting out of ground, about 5 chs. N. of my station.

At 11h 52m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a rock in place, 5 chs. N. of my station.

July 18, 1911

July 19: At 7h 30m a.m., l.m.t., I lay off the azimuth of Polaris 1°28.8' to the west; and mark the meridian thus determined by a chisel mark on stone or rock used yesterday, on which the meridian falls 0.3 ins. west of the mark determined by the solar.

Subdivision of T. 31 S., R. 21 E.

Chains	
	At 8h 06m a.m., l.m.t., I set off 38°04½'N. on the lat. arc; 21°00'N. on the decl. arc; and mark a point in the meridian determined with the solar, by a mark on the rock already used 5 chs. N. of my station; this mark falls 0.3 ins. west of the meridian established by Polaris observation.
	The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about 0'16"E. and 0'16"W. 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 0m a.m. is N.16°00'W.; the angle thus determined gives the mag. decl. 16°00'E.
	From the cor. of secs. 1,2,35 and 36, on S. bdy. of Tp., I run
	N.0°01'W. bet. secs. 35 and 36
	Over rough mountainous land; through cedar and pinon pine timber; and scattering sagebrush. Descend gently.
10.30	Descend abruptly, over smooth rock.
15.00	Bottom of small canon, 150 ft. below sec. cor., course W. Ascend gently.
20.00	Ascend abruptly, over ledges bearing E. and W.
32.00	Top of ledge ridge, 250 ft. above canon, bears E. and W. Descend over smooth-worn white sandstone ledges.
40.00	Foot of ledge, 100 ft. below ridge, bears E. and W. Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, with mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 35 on W. half and S 36 on E half; from which
	A pinon pine, 6 ins.dia., bears N.47°00'W. 15 lks. dist., marked ¼ S 35 B T
	A pinon pine, 4 ins.dia., bears N.31°20'E. 30 lks. dist., marked ¼ S 36 B T

Subdivision of T. 31 S., R. 21 E.

Chains	
41.00	Descend over broken ledges bearing NE. and SW.
52.00	Bottom of canyon, 150 ft. below ¼ sec. cor., course W. Ascend.
67.00	Top of spur, projecting W., 70 ft. above canon; descend.
71.50	Bottom of hollow, 75 ft. below spur, course W.; ascend over ledges.
80.00	Point for sec. cor. falls on smooth steep sandstone ledge, bearing E. and W.; post cannot be set, at exact cor. point on ledge I mark a cross (X). and at
86.24	Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground to solid rock, with mound of stone around post, for witness cor. to cor. of secs. 25,26,35, and 36 marked on brass cap T 31 S S 26 in NW. R 21 E S 25 in NE. S 36 in SE., and S 35 in SW. quadrant, with W C in S. half; from which A pinon pine, 4 ins.dia.,bears N.46°30'E. 123 lks. dist., marked W C T 31 S R 21 E S 25 BT A pinon pine, 4 ins.dia.,bears S.49°25'E. 46 lks. dist.,marked W C T 31 S R 21 E S 25 B T A pinon pine, 6 ins.dia.,bears S.27°17'W. 54 lks. dist.,marked W C T 31 S R 21 E S 26 B T A pinon pine, 10 ins.dia.bears N.10°30'W. 23 lks.dist., mkd. W C T 31 S R 21 E S 26 B T Land, rough mountainous E. slope. Soil, poor, light, sandy loam, with gravel, 6 to 10 ins. deep, on bed rock; washed on slopes. Cedar and pinon pine timber. Undergrowth, scattering sagebrush.

N.89°58'E. on a random line bet.secs.25 and 36,

Subdivision of T. 31 S., R. 21 E.

Chains	
40.00	Set temp. ¼ sec. cor.
79.80	Intersect the E. bdy. of Tp. 14 lks. N. of the cor. of secs.25,30,31, and 36, heretofore described.
	July 19: At this cor. I set off 20°58'N. on the decl. arc; and at 0h 06m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°05'
	Thence I run
	N.89°56'W. on a true line bet.secs.25 and 36,
	Over mountainous land, through dense oak brush and birch brush, 10 ft. high; ascend gently.
2.00	Leave oak brush; enter alfalfa field, bearing N.40°W. and S.80°E.
7.90	Irrigation ditch 8 lks. wide, 1 ft. deep, course NW.; leave alfalfa field, enter greasewood, bearing with ditch.
9.10	Field road, bears N.30°W. and S.30°E.
15.00	Begin ascent of talus slope, bearing N.20°W. and S.20°E.
19.00	Foot of main ledge, bearing N.20°W. and S.20°E.; ascend abruptly.
21.90	Top of ledge, 700 ft. above sec. cor., bears N. and S.; ascend gently.
25.00	Top of spur, 50 ft. above point of gentle ascent, bearing N.40°W. and S.40°E. Descend.
36.20	Bottom of canyon, 100 ft. below spur, course N.; ascend.
39.90	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, to solid rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 25 on N. half, and S 36 on S. half; from which
	A pinon pine, 8 ins.dia.,bears N.10°30'E. 67 lks. dist., marked ¼ S 25 B T
	A pinon pine, 10 ins.dia.,bears S.43°28'W. 6 lks. dist.,marked ¼ S 36 B T
42.00	Top of rocky spur, 60 ft. above canyon, bearing N.20°E. and S.20°W. Descend.
46.00	Bottom of small canyon, 50 ft. below spur, course N.20° E. Ascend over broken ledges.

Subdivision of T. 31 S., R. 21 E.

Chains	
64.00	Foot of ledge, 100 ft. above canyon, bears N. and S.
66.00	Top of ledge, 50 ft. above foot; bearing N. and S.; ascend gently, over broken ledges.
66.50	Top of ridge, 20 ft. above top of ledges, bearing N. and S.; descend abruptly over vertical ledge, 50 ft. high.
67.00	Foot of ledge, bearing N. and S.; desc. gently.
73.20	Descend over broken red sandstone ledges bearing N.andS.
79.80	The cor. of secs. 25,26,35, and 36.
	E. 15 chs. canon bottom NE. slope.
	Soil, good sandy loam, with some little gravel, 12 to 24 ins.deep, on gravel and rock subsoil.
	Good growth of alfalfa and greasewood; moist soil in lucern field.
	No timber.
	W. 64.80 chs. rough, mountainous land, northerly slope.
	Soil, poor, brownish gravelly, dry, 3 to 12 ins. deep., on bed rock.
	Timber, cedar and pinon pine.
	Undergrowth scattering sagebrush.
	July 19, 1911.

July 20: At 8h 06m a.m.l.m.t., I set off 38°05' on the lat. arc; 20°49'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25,26,35, and 36. Thence I run

N.0°01'W. bet. secs. 25 and 26,

	Over rough, mountainous land; through heavy cedar and pinon pine; ascend.
8.00	Top of ridge, bears E. and W. Descend gently.
9.00	Descend abruptly, over main ledges, bearing N.70°E. and S.70°W.
	Leave timber.
15.00	Foot of ledges, 500 ft. below top, bearing N.70°E. and S.70°W. Descend over steep talus slope.

Subdivision of T. 31 S., R. 21 E.

Chains	
30.00	Foot of talus 300 ft. below foot of ledge, bears N.70° E. and S.70°W. Enter Cottonwood Canyon bottom; descend gently through sagebrush.
34.00	Wash, 50 lks. wide, 15 ft. deep, course W.
40.00	Set an iron post 3 ft. long, 1 in. in dia. 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 26 on W. half and S 25 on E. half; from which
	A boulder 10 x 10 x 8 ft. bears S.84°58'E. 5.60 chs.dist., marked B O S 25
	raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
41.20	Wash 10 lks. wide, 5 ft. deep, course N.70°W.
67.80	Wagon road from Cottonwood Ranch to Dugout Ranch, bears N.40°E. and S.40°W.
77.80	Wash, 20 lks. wide, 4 ft. deep, course N.30°E.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 23, 24, 25, and 26, marked on brass cap
	T 31 S S 23 in NW., R 21 E S 24 in NE., S 25 in SE.; and S 26 in SW. quadrant; from which
	A cottonwood tree 30 ins.dia., bears N.82°41'W. 6.32 chs.dist., mkd. T 31 S R 21 E S 23 B T
	No other bearing trees available; dig pits 18 x 18 x 12 ins. SE., SW., and NE. 5½ ft. dist. from post; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, S.30 chs. rough mountainous NW. slope.
	Soil, 1 to 10 ins. deep, composed of gravel and sand on bed rock; very poor and dry.
	Timber cedar and pinon pine on S.9 chs.; very little undergrowth.
	N.50.00 chs. canyon bottom, N. slope.

Subdivision of T. 31 S., R. 21 E.

Chains	
	Soil, a brownish mixture of sand, clay, and some gravel, 4 to 24 ins. deep, fairly moist; medium texture, on gravel subsoil.
	Undergrowth, sagebrush and greasewood.
	Timber, few scattering cottonwoods along Cottonwood Creek on the west.
	July 20: At the noon hour sky overcast, observation for latitude impossible.
	S.89°56'E. on a random line bet. secs.24 and 25,
40.00	Set temp. ¼ sec. cor.
79.80	Intersect E. bdy. of Tp. 9 lks. S. of point for cor. secs. 19,24,25, and 30.
	Thence I run
	West on a true line bet. secs. 24 and 25,
	Over Indian Canyon bottom; descend gently.
1.70	Indian Creek, 20 lks. wide, 8 ins. deep, rocky bottom, in bottom of wash, 40 lks. wide, 4 ft. deep, draining NW.
	Ascend gently, through cottonwood and wild currant undergrowth.
5.40	Leave timber; enter sagebrush, bears N.30°W. and S.30°E.
7.50	Wagon road between Carlisle and Dugout Ranch, bears N. 30°W. and S.30°E. Ascend gently.
9.80	Begin ascent of talus slope, bearing N.60°W. and S.60°E.
10.40	Telephone line between Carlisle and Dugout Ranch.
27.96	Foot of main ledge, 200 ft. above foot of talus,
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness cor. to ¼ sec. cor., marked on brass cap T 31 S R 21 E ¼ S 24 in N. half, S 25 in S. half, with W C on W.; from which
	A cedar 6 ins.dia.bears S.41°30'E. 38 lks. dist. marked W C ¼ S 25 B T
	A cedar, 4 ins.dia.bears N.42°W. 94 lks. dist. marked W C ¼ S 24 B T

Subdivision of T. 31 S., R. 21 E.

Chains	
	Ascend over ledges.
39.90	Point for ¼ sec. cor. falls on sloping ledges, post cannot be set. Mark a cross (X) on ledge at exact point for ¼ sec. cor.
42.50	Top of rocky ridge, bears N. and S., 500 ft. above witness corner. Descend over ledges.
45.00	Descend abruptly over main ledge, bearing N.15°E. and S.15°W.
48.00	Foot of ledge, 300 ft. below top, bears N.15°E. and S. 15°W. Descend over talus.
55.00	Foot of talus slope, 300 ft. below ledge, bears N.10°E. and S. 10°W. Enter Cottonwood Canyon bottom; descend gently through sagebrush and greasewood.
69.40	Wagon road, between Cottonwood Ranch and Dugout Ranch, bears N.10°E. and S.10°W.
79.40	Wash, 15 lks. wide, 3 ft. deep, course N.20°E.
79.80	The cor. of secs. 23,24,25, and 26.
	W.25.00 chs. canyon bottom land; W. slope.
	Soil a reddish mixture of sand, clay and gravel, 6 to 24 ins. deep, on gravel and rock subsoil; would raise good crops, with irrigation.
	Undergrowth, greasewood and sagebrush on E.5.40 chs.
	The next 45 chs. E. is rough, mountainous land, E.andW. slope.
	Soil, poor, gravelly, much washed on slopes, 3 to 6 ins. deep, on bed rock.
	Timber, scattering cedar and pinon pine; very little undergrowth.
	E. 9.80 chs. may be classed with the W. 25.00 chs.
	July 20, 1911.

July 21: At 7h 36m a.m.l.m.t., I set off 38°06'N. on

Subdivision of T. 31 S., R. 21 E.

Chains	
	the lat. arc; 20°39'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23,24, 25, and 26. Thence I run
	N.0°01'W. bet. secs. 23 and 24.
	Over gently rolling canyon bottom land; through greasewood and sagebrush; descend gently.
26.00	Bank of old wash, 4 ft. deep, bears N.20°E. and S.20°W. descend gently along bottom of old channel.
37.50	Enter small flat somewhat lower; evidently old creek channel, bears E. and W.
40.00	Set an iron post 3 ft. long, 1 in.dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 23 on W. half, and S. 24 on E. half; from which
	A cottonwood tree 3 ft. diam., bears S.49°27'W. 128 lks. dist., marked ¼ S. 23 B T
	A cottonwood tree, 30 ins.dia., bears N.69°15'E. 86 lks. dist., marked ¼ S 24 B T
	Enter cottonwood timber, bears N.30°E. and S.30°W.
44.20	Cottonwood Creek, 15 lks. wide, 8 ins.deep, muddy water, rather slow flow, over sandy bottom; in bottom of wash, 1 ch. wide, 10 ft. deep, drains N.30°E. This creek is subject to violent and damaging floods in stormy weather.
	Descend gently along W. bank of creek; leave timber; enter sagebrush.
66.00	Indian Creek 20 lks. wide, 1 ft. deep, in bottom of channel 2 ch. wide, 10 ft. deep, course N.70°W. at this point; but swings more to the north a short distance west. Ascend.
72.30	Top of small ledge 9 ft. high, bears N.60°W. and S.60°E. Ascend gently.
72.50	Wagon road from Carlisle to Dugout Ranch, bears N.70°W. and S. 70°E.
73.50	Barb wire fence, bears N.40°20'W. and S.40°20'E.
75.00	Leave sagebrush and greasewood; enter field of alfalfa bears NW. and SE.

Subdivision of T. 31 S., R. 21 E.

Chains	
75.80	Leave alfalfa; enter sagebrush and greasewood, 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. 13,14,23, and 24, marked on brass cap
	T 31 S S 14 in NW.
	R 21 E S 13 in NE.
	S 24 in SE., and
	S 23 in SW. quadrant; from which
	A cottonwood tree, 36 ins.dia., bears S.49°11'W. 7.19 chs.dist., marked T 31 S R 21 E S 23 B T
	No other bearing trees available; dig pits 18 x 18 x 12 ins. NW., NE., and SE. of post 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	The NW. Cor. of Dugout Ranch lower stackyard, bears S.55° 50'E.
	Land, rolling N. slope.
	Soil, a mixture of clay and sand, with some gravel, 12 to 24 ins. deep, on gravel subsoil; moist, medium texture; light brown color.
	Timber, scattering cottonwood along Cottonwood and Indian Creeks.
	Undergrowth, sagebrush and greasewood.
	East on a random line bet. secs. 13 and 24,
40.00	Set temp. ¼ sec. cor.
79.79	Intersect E. bdy. of Tp. ½ lk. S. of cor. of secs. 13, 18,19, and 24, heretofore described. Thence I run
	West on a true line bet. secs. 13 and 24,
	Over gently rolling land; descending gently, over rocks and boulders at foot of talus.
12.00	Wash, 50 lks. wide, 5 ft. deep, course N.30°W. Ascend.

Subdivision of T. 31 S., R. 21 E.

Chains	
28.30	Wash, 30 lks. wide, 6 ft. deep, course N.30°W.
36.00	Slough, 1 ch. wide, bears NW. and SE.
36.50	Ascend, over bank 8 ft. high, bearing NW. and SE.
39.00	Top of bank; thence nearly level.
39.50	Enter field of alfalfa, bearing N.10°W. and S.10°E.
39.895	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 13 on N. half, and S 24 on S. half; from which
	A lone cottonwood tree 8 ins.dia.bears S.31°41'E. 4.85 chs. dist., marked ¼ S 24 B T
	No other bearing trees within limits; 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.
	July 21: At this cor. I set off 20°36'N. on the decl. arc; and at 0h 06m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°07'
41.30	Leave alfalfa; enter sagebrush,bears N.40°E.& S.40°W.
44.40	Irrigation ditch, 5 lks.wide,1 ft. deep,course N.30°W.
	Enter alfalfa, bears N.30°W. and S.30°E.
50.20	Field road, bears N.10°W. and S.10°E.
61.00	Irrigation ditch, 8 lks. wide, 1 ft. deep, course N.40°E
	Leave alfalfa; enter sagebrush, bearing with ditch.
62.50	Top of small ascent, bearing N. and S.
	NW. Cor of lower stackyard, at Dugout Ranch, bears S.25° E.
	SW. Cor. of E. cabin on Dugout Ranch bears S.25°E.
	NW. Cor. barnyard bears S.20°E.
	SE. Cor. of granary bears S.22°E.
	Descend very gently.
65.50	Enter slough, bears N. and S.
72.00	Leave slough; enter alfalfa bearing N. and S.
75.80	Leave alfalfa; enter scattering sagebrush and grass bearing N. and S.
79.79	The cor. of secs. 13,14,23, and 24.
	E. 40 chs. W. slope.
	Soil, sand and gravelly loam of fair quality, 6 to 24

Subdivision of T. 31 S., R. 21 E.

Chains	
	ins. deep, on gravel subsoil.
	No timber.
	Undergrowth, scattering sagebrush, grass and greasewood.
	W. 40 chs. N. slope.
	Soil, good sand and clay loam, 12 to 24 ins. deep, on clay subsoil; moist, medium texture.
	Good stand of alfalfa and grass.
	No timber.
	Note: This field is irrigated with water from Indian Cr.
	N. 0°01'W. bet.secs.13 and 14,
	Over gently rolling land; through sagebrush, greasewood and little grass; descend gently.
10.00	Bottom of hollow, 15 ft. below sec. cor., course W. Ascend gently.
20.00	Top of small ascent, bearing N.30°W. and S.30°E. Descend gently.
21.20	Irrigation ditch, 6 lks. wide, 1 ft. deep, course W.
32.00	Descend, over small ledge, 10 ft. high, bears NW. and SE.
32.90	Bottom of rocky hollow, course N.30°W. Ascend abruptly, over 10 ft. ledge, bearing NW. and SE.
34.00	Top of ledge; ascend gently.
40.00	Top of gentle ascent, bears E. and W.
	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 14 on W. half, and S 13 on E. half; from which
	A cedar, 6 ins. dia. bears N.14°15'W. 195 lks. dist., marked ¼ S 14 B T
	No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Desc. gently.
45.00	Bottom of rocky hollow, 20 ft. below ¼ sec. cor., course S.20°W. Ascend.
55.00	Top of small ridge, 35 ft. above hollow, bears N.40°E. and S.40°W.
	Descend gently.

Subdivision of T. 31 S., R. 21 E.

Chains	
71.00	Old wagon 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. 11,12,13, and 14, marked on brass cap
	T 31 S S 11 in NW.
	R 21 E S 12 in NE.
	S 13 in SE., and
	S 14 in SW. quadrant; from which
	A cedar 12 ins. dia. bears S.10°08'E. 282 lks. dist., marked T 31 S R 21 E S 13 B T
	A cedar, 12 ins. dia., bears S.79°10'W. 334 lks. dist., marked T 31 S R 21 E S 14 B T
	A cedar, 12 ins. dia., bears N.64°20'W. 79 lks. dist., marked T 31 S R 21 E S 11 B T
	No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling canyon bottom.
	Soil, sandy loam, with some gravel, 6 to 18 ins. deep, on gravel and rock subsoil; rather coarse texture and dry.
	No timber.
	Undergrowth, scattering sagebrush and greasewood; a little grass.
	July 21, 1911.
	July 22: At 8h 06m a.m.l.m.t., I set off 38°08'N. on the lat. arc; 20°27'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
	East on a random line bet. secs. 12 and 13,
40.00	Set temp. ¼ sec. cor.
79.81	Intersect E. bdy. of Tp. at the cor. of secs. 7,12,13, and 18, heretofore described. Thence I run
	West on a true line bet. secs. 12 and 13,

Subdivision of T. 31 S., R. 21 E.

Chains	
	Over rolling land; through scattering sagebrush; descend.
0.20	Wash, 25 lks. wide, 3 ft. deep, course S.30°W.; ascend gently.
25.00	Top of talus spur 70 ft. above wash, bears N. and S. Descend over broken talus slope; over large boulders.
39.60	Bottom of hollow, 50 ft. below talus spur, course S.60° E. Ascend.
39.905	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 12 on N. and S 13 on S. half; raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
45.00	Top of talus spur, 40 ft. above hollow, bears N. and S. Descend.
75.00	Bottom of hollow, 75 ft. below spur, course S.10°W. Ascend gently.
78.50	Top of ridge 10 ft. above hollow, bears N.10°E. and S. 10°W. Descend gently.
79.81	The cor. of secs. 11,12,13, and 14.
	Land rolling; SW. slope.
	Soil, poor, gravelly loam, with stones and boulders, 6 to 12 ins. deep, on gravel and boulder subsoil; dry coarse texture.
	No timber; very little undergrowth.
	N.0°01'W. bet. secs. 11 and 12.
	Over gently rolling land; descending through scattering sagebrush;
4.60	Wash, 15 lks. wide, 3 ft. deep, course S.20°W.; ascend gently.
16.00	Top of ridge, bears N.70°E. and S.70°W.; descend gently.
17.50	Wash, 25 lks. wide, 5 ft. deep, course S.70°W. Ascend.
29.00	Top of ridge, 25 ft. above wash, bears N.60°E. and S. 60°W.

Subdivision of T. 31 S., R. 21 E.

Chains	
	July 22: At this point I set off 20°24'N. on the decl. arc; and at 0h 06m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°08' +
	Descend gently.
35.00	Begin ascent of talus slope, bearing N.40°E. and S.40° W.
40.00	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 11 on W. half; and S 12 on E. half; from which
	A boulder 12 x 10 x 6 ft. bears N.22°30'E. 43 lks. dist., marked + B O S 12
	A pinon pine, 6 ins.dia. bears S.26°58'W. 126 lks. dist., marked ¼ S 11 B T;
	raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
50.00	Foot of main ledge, bears N.20°E. and S.20°W.
60.00	Top of mesa spur, 800 ft. above ¼ sec. cor., bears NE. and SW.; descend.
65.00	Descend abruptly, over ledges.
78.00	Foot of ledges bearing NE. and SW., 600 ft. below spur.
79.95	Set an iron post 3 ft. long, 2 ins.dia., 24 ins. in the ground, for witness cor. of secs. 1,2,11, and 12, marked on brass cap, W C in N. half
	T 31 S S 2 in NW.
	R 21 E S 1 inNE.
	S 12 in SE.; and
	S 11 in SW. quadrants; from which
	A pinon pine, 8 ins.dia.,bears N.55°20'E. 8 lks. dist., marked W C T 31 S R 21 E S 1 B T
	A pinon pine, 6 ins.dia.bears S.4°E. 117 lks. dist., marked W C T 31 S R 21 E S 12 B T
	A cedar, 6 ins.dia.,bears S.47°W. 72 lks. dist. marked T 31 S R 21 E S 11 B T
	A pinon pine, 6 ins.dia.,bears N.7°30'W. 65 lks. dist., marked W C T 31 S R 21 E S 2 B T

Chains	
80.00	Point for sec. cor. falls on large boulder; post cannot be set; at exact point for sec. cor. I mark a cross (X) for true corner point for secs. 1,2,11, and 12.
	Land, S.35.00 chs. rolling, SW. slope.
	Soil, gravelly loam, of medium quality, 6 to 18 ins. deep, on gravel and rock subsoil; dry, medium texture.
	No timber. Undergrowth, scattering sagebrush and bunch grass.
	N.45.00 chs. rough, mountainous land; westerly slope.
	Soil, poor, gravelly loam, 4 to 8 ins. deep, on bed rock.
	No timber. Very little undergrowth.
	July 22, 1911.
	July 24: At 8h 06m a.m.l.m.t., I set off 38°09' on the lat. arc; 20°03'N. on the decl. arc; and determine a meridian with the solar at the true point for cor. of secs. 1,2,11, and 12. Thence I run
	East on a random line bet. secs. 1 and 12,
40.00	Set temp. ¼ sec. cor.
79.80	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 rough, mountainous land; through heavy cedar and pinon pine timber; and scattering sagebrush; ascend gently.
0.50	Top of gentle ascent, 8 ft. above sec. cor., bears N. and S.
	Donkey trail bears same. Descend gently.
14.50	Descend abruptly, over ledges, bearing N.60°W. and S. 60°E.
18.00	Bottom of canyon, 75 ft. below top of ledges, course S. 30°E. Ascend.
27.50	Top of spur, 75 ft. above canyon, bears N.20°E. and S.

Subdivision of T. 31 S., R. 21 E.

Chains	
	20°W. Descend.
32.30	Descend more abruptly, bears N.20°E. and S.20°W.
39.90	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 1 on N. half, and S 12 on S. half; from which
	A pinon pine, 10 ins.dia.bears S.59°40'W. 27 lks. dist., marked ¼ S 12 B T
	A pinon pine, 12 ins.dia.,bears N.71°48'W. 54 lks. dist.,marked ¼ S 1 B T
	Descend.
44.00	Descend abruptly over ledges bearing N.10°W.and S 30°E.
50.00	Bottom of canyon, 150 ft. below top of ledges, course S. 30°W. Ascend gently.
68.00	Ascend abruptly over ledges, bearing N.30°E. and S.30°W.
69.30	Top of ledges, 100 ft. above foot; desc. gently.
69.84	Descend abruptly over ledges.
76.00	Descend, bears NE. and SW.
79.80	True cor. point for secs. 1,2,11, and 12.
	Land, rough mountainous S. slope.
	Soil, poor, gravelly loam 3 to 12 ins. deep, on bed rock; stony and dry.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	N.0°01'W. bet. secs. 1 and 2,
	Over mountainous land; through scattering timber and sagebrush; descending over rough talus slope.
20.00	Foot of talus slope, 250 ft. below sec. cor., bears N.60° E. and S.60°W. Descend gently.
23.90	Bottom of canyon, 300 ft. below sec. cor., course S.30°W. Ascend.
30.00	Top of rolling ridge, 30 ft. above canyon, bears N.40°E. and S.40°W. Descend.
37.20	Wash 20 lks. wide, 5 ft. deep, course S. 40°W.

Subdivision of T. 31 S., R. 21 E.

Chains	
	Ascend.
38.80	Begin more gentle ascent, bearing E. and W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 2 on W. half; and S 1 on 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.
	July 24: At the noon hour sky overcast; observation for latitude impossible.
	July 28: I continue my line from ¼ sec. cor.
	Descend.
45.80	Bottom of canyon, course W.
	Ascend.
47.80	Top of small spur, 50 ft. above canyon, bears E. and W.
	Descend.
63.80	Bottom of main canyon, 50 ft. below spur, course S.30° W. comes from north; ascend in canyon.
64.00	Trail, bears N.5°E. and S.5°W.
72.60	Leave canyon, course S., from N.20°E.
	Ascend steep talus slope.
85.00	Ascend abruptly over ledges, bearing N. and S.
100.00	Top of ledges, 400 ft. above foot, bearing NW. and SE.
	Ascend gently.
121.90	At a point 22.32 chs. E. of the re-established standard cor. of secs. 35,36, described in book "G" of this survey, (Resurvey 6th Standard Par. S.R.21E.)
	Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground, to solid rock, surrounded by mound of stone, for closing cor. of secs. 1 and 2, marked on brass cap C C T 30 S R 21 E S 35 S 36 in N. half, S 2 in SW.; and S 1 in SE. quadrant; from which
	A cedar, 8 ins.dia., bears S.14°00'E. 65 lks. dist., marked T 31 S R 21 E S 1 B T
	A pinon pine, 20 ins.dia., bears S.46°00'W.

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Subdivision of T. 31 S., R. 21 E.

Chains	
	115 lks. dist., marked T 31 S R 21 E S 2 B.T.
	I destroy temp. cor.
	Land, mountainous SW. slope.
	Soil, sandy and gravelly loam 6 to 18 ins. deep, on gravel and rock subsoil; dry, stony.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	July 24, 1911.
	July 25: At 8h 06m a.m.l.m.t., I set off 38°04' on the lat. arc; 19°50'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2,3,34, and 35, on S. bdy. of Tp., heretofore described.
	Thence I run
	N.0°01'W. bet. secs. 34 and 35,
	Ascending gently, over gently rolling land; through sagebrush and grass.
8.80	Wash, 30 lks. wide, 8 ft. deep, course E.
16.50	Wash, 20 lks. wide, 6 ft. deep, course E.
24.60	Begin ascent of talus slope, bearing NE. and SW.
40.00	Top of talus slope, 100 ft. above sec. cor., bears E. and W.
	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground to solid rock, surrounded by mound of stone, for ¼ sec. cor., marked on brass cap ¼ S 34 on W. half, and S 35 on E. half; from which
	A cedar, 6 ins.dia.,bears S.28°00'W. 100 lks. dist., marked ¼ S 34 B T
	No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Descend over boulders.
55.00	Bottom of canyon, 200 ft. below ¼ sec. cor., course N. 80°E. Ascend.
62.00	Begin abrupt ascent over ledges, bearing NE. and SW.

Subdivision of T. 31 S., R. 21 E.

Chains	
68.00	Top of ledges, 400 ft. above foot; descend gently.
75.00	Descend abruptly over ledges bearing NE. and SW.
76.00	Foot of ledges, bearing NE. and SW.
	Descend over talus slope.
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, marked on brass cap
	T 31 S S 27 in NW.
	R 21 E S 26 in NE.
	S 35 in SE.; and
	S 34 in SW. quadrant; from which
	A cedar, 6 ins.dia., bears S.62°30'E. 78 lks. dist., marked T 31 S R 21 E S 35 B T
	A pinon pine, 10 ins.dia., bears S.22°W. 80 lks. dist., marked T 31 S R 21 E S 34 B T
	A pinon pine, 10 ins.dia., bears N.22°W. 80 lks. dist., marked T 31 S R 21 E S 27 B T
	No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Note: SW. cor. of east cabin on Dugout Ranch, bears N. 42°29'E.
	SE. cor. of granary bears N.42°00'E.
	NW. Cor. of barnyard bears N.41°08'E.
	S. 25 chs. rolling land; SE. slope.
	Soil, sandy loam, with some gravel, 8 to 24 ins. deep, on gravel and clay subsoil; fairly moist; medium texture.
	Undergrowth, sagebrush and bunch grass.
	No timber.
	N. 55 chs. rough mountainous land; E. slope.
	Soil, poor, gravelly loam, with rocks and boulders, 3 to 10 ins. deep, on gravel and rock subsoil.
	Timber, scattering cedar and pinon pine.
	Very little undergrowth.

Subdivision of T. 31 S., R. 21 E.

Chains	
	N.89°58'E. on a random line bet.secs.26 and 35,
40.00	Set temp. ¼.sec. cor.
79.80	Intersect N. and S. line 19 lks. N. of cor. point for secs. 25,26,35, and 36, Thence I run
	N.89°54'W. on a true line bet.secs.26 and 35,
	Over rough mountainous land; through cedar and pinon pine and scattering sagebrush; descending over smooth white sandstone ledges.
	July 25: At this point I set off 19°48'N. on the decl. arc; and at 0h 06m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°05'N.
5.00	Descend abruptly over ledges bearing N.10°E. and S. 10° W.
7.00	Foot of main ledge, 400 ft. below sec. cor.; descend over large boulders on talus slope.
22.00	Foot of talus 350 ft. below foot of ledge, bearing N.30° W. and S.30°E. Enter cottonwood Canyon bottom; descend gently, through sagebrush.
28.80	Wagon road from Cottonwood Ranch to Carlisle, bears N. and S.
35.60	Cottonwood Creek, 12 lks. wide, 1 ft. deep, sandy bottom very muddy, course N.20°W.; cottonwood trees scattered along creek.
39.70	Ascend W. bank of Cottonwood Creek wash, bears N.70°W. and S.70°E.; 8 ft. deep.
39.90	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 26 on N. half; and S 35 on S. half; from which
	A cottonwood 12 ins.dia.bears N.82°E. 51 lks. dist., marked ¼ S 26 B T
	A cottonwood 12 ins.dia.bears S.66°30'E. 101 lks. dist., marked ¼ S 35 B T
	Ascend gently.
47.50	Wash, 20 lks. wide, 4 ft. deep, course N.10°E.

Subdivision of T. 31 S., R. 21 E.

Chains	
56.40	Trail, bears N. and S.
69.00	Foot of talus slope, bears N.30°W. and S.30°E.
	Ascend talus.
79.80	Top of talus spur, bears N.20°E. and S.20°W.
	The cor. of secs. 26,27,34, and 35.
	E.22 chs. rough mountainous land; W. slope.
	Soil, poor gravelly loam, marked on slopes, 3 to 10 ins. deep, on gravel and rock subsoil.
	Timber, scattering cedar and pinon pine timber; very little undergrowth.
	Next 47 chs. rolling canyon bottom; N. slope.
	Soil, sand and clay loam, of good quality, 8 to 24 ins. deep, on clay subsoil; fairly moist; medium texture;
	Undergrowth, sagebrush and grass.
	No timber.
	W. 11.00 chs. may be classed with the E. 22.00 chs.
	July 25, 1911.
	July 26: at 7h 36m a.m.l.m.t., I set off 38°05' on lat arc; 19°38'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 26,27, 34 and 35. Thence I run
	N.0°01'W. bet. secs. 26 and 27,
	Over rolling mountainous land; through scattering cedar and sagebrush; descend over talus.
7.00	Foot of talus, 100 ft. below sec. cor., bears N.20°E. and S.20°W. Leave scattering cedar; enter heavy sagebrush and grass, bearing NE. and SW.
	Descend gently.
20.00	Wash, 40 lks. wide, 5 ft. deep, course N.70°E.; ascend gently.
35.00	Wash, 30 lks. wide, 3 ft. deep, course E. Ascend gently
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S

Chains

27 on W. half, and S. 26 on 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.

47.30 Begin abrupt ascent of talus, bearing E. and W.

Leave sagebrush; enter scattering timber.

57.00 Foot of main ledge, bears E. and W.

60.00 Top of ledge, 1200 ft. above ¼ sec. cor., bears E. and W.

Descend over rough and broken ledges; through scattering timber and sagebrush.

76.00 Descend more abruptly into head of canyon, draining E.

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, marked on brass cap

T 31 S S 22 in NW.

R 21 E S 23 in NE.

S 26 in SE.; and

S 27 in SW. quadrant; from which

A pinon pine, 10 ins.dia.bears N.35°E. 46 lks. dist., marked T 31 S R 21 E S 23 B T

A cedar 18 ins.dia.bears S.6°30'E. 80 lks. dist., marked T 31 S R 21 E S 26 B T

A pinon pine, 12 ins.dia.bears S.39°20'W. 100 lks. dist.,marked T 31 S R 21 E S 27 B T

A cedar, 14 ins.dia.,bears N.40°W. 47 lks. dist., marked T 31 S R 21 E S 22 B T

July 26: At this cor. I set off 19°35'N. on the decl. arc. and at 0h 06m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°06'

S. 7.00 chs., mountainous land; N. slope.

Soil, gravelly loam, on rock subsoil; dry.

Timber, scattering cedar and pinon pine.

Undergrowth, sagebrush.

Next 40.00 chs. good canyon bottom, E. slope.

Soil, sand and gravel with some clay, on gravel and

Chains

clay subsoil; would raise good crop if irrigated.

Undergrowth, sagebrush and grass.

No timber.

N. 33.00 chs. may be classed with S. 7.00 chs.

S.89°54'E. on a random line bet.secs.23 and 26,

40.00 Set temp. ¼ sec. cor.

79.76 Intersect N. and S. line 5 lks. S. of the cor. of secs. 23,24,25, and 26. Thence I run

N.89°56'W. on a true line bet. secs. 23 and 26,

Over gently rolling land; through dense greasewood 3½ ft. high; descend gently.

5.00 Cottonwood Creek, 12 lks. wide, 10 ins. deep, very muddy water, course N.

Cottonwood trees grow along creek; ascend gently.

8.80 Wash, 30 lks. wide, 3 ft. deep, course N.60°E.

17.80 Leave greasewood; enter sagebrush, bears N. and S.

19.00 Wash, 15 lks. wide, 1 ft. deep, course N.20°E.

32.50 Wash, 30 lks. wide, 5 ft. deep, course N. 80°E.; thence along wash.

39.00 Leave wash; bank bears N.80°W. and S.80°E.

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

T 31 S R 21 E ¼ S 23 in N. half, S 26 in S. half with W C on W. half; from which

A cedar 10 ins.dia.bears N.40°54'E. 89 lks. dist., marked W C ¼ S 23 B T

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

39.88 Point for ¼ sec. cor. falls in wash, coming from small canyon, draining E. Cor. not set.

44.00 Foot of talus bears N.70°E. and S.70°W.

Enter cedar and pinon pine and scattering sagebrush.

Subdivision of T. 31 S., R. 21 E.

Chains	
	Ascend over rough talus slope.
64.00	Head of canyon, course S.85°E. Ascend abruptly over ledges.
66.00	Top of ledge, 500 ft. above witness ¼ sec. cor., bearing N.60°E. and S.20°E. Descend.
68.80	Bottom of hollow, 20 ft. below ledge, course N.60°E. Ascend.
75.00	Top of smooth sandstone spur, 75 ft. above hollow, bears N. and S. Descend.
78.60	Bottom of small canyon, 50 ft. below spur, course S.70° E. Ascend gently.
79.76	The cor. of secs. 22,23,26, and 27
	E. 40 chs. rolling land; E. slope.
	Soil, sand and clay loam, 6 to 24 ins. deep, on clay subsoil, with some gravel.
	Undergrowth sagebrush and a little grass.
	No timber.
	W. 36 chs. rough, mountainous land; E. slope.
	Soil, poor gravelly loam, 3 to 12 ins. deep, on gravel and rock subsoil; dry, coarse texture.
	Timber, scattering cedar and pinon pine.
	Very little undergrowth.
	July 26, 1911.

July 27: At 8h 06m a.m.l.m.t., I set off 38°06' on the lat. arc; 19°24'N. on the decl.; and determine a meridian with the solar at the cor. of secs. 22,23,26, and 27.

Thence I run

N.0°01'W. bet. secs. 22 and 23,

	Over rough mountainous land; through heavy cedar and pinon pine.
0.50	Bottom of small canyon, 50 ft. below sec. cor., course S. 70°E.; ascend over broken ledges.
9.00	Top of ledge (N.edge of canyon) 200 ft. above canyon,

Chains	
	bears E. and W. Ascend gently.
18.20	Ascend over broken ledges bearing N.30°E. and S.20°W.
25.00	Top of ledge, 100 ft. high bears E. and W.
	Descend steep slope.
35.00	Descend abruptly over broken ledges.
40.00	Foot of ledges, 150 ft. below top,
	Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the ground, on solid rock; raise mound of stone around post for ¼ sec. cor., marked on brass cap ¼ S 22 on W. half, and S 23 on E. half; from which
	A cedar, 12 ins.dia.bears S.37°20'W. 18 lks. dist., marked ¼ S 22 B T
	A cedar, 6 ins.dia.,bears E.50 lks. dist. marked ¼ S 23 B T
42.80	Bottom of canyon, 25 ft. below ¼ sec. cor., course N. 30°E.
	Ascend gently.
55.00	Top of spur, 25 ft. above canyon, bears N.40°E. and S. 40°W. Descend gently.
58.25	Edge of high cliffs bearing N.20°E. and S.20°W.
	Descend abruptly.
63.00	Foot of cliffs, 400 ft. below top, bears NE. and SW.
	Descend over talus slope.
70.00	Foot of talus, 300 ft. below foot of ledge, bears N.70° E. and S.70°W. Descend gently.
78.00	Bottom of hollow, course N.30°E.
	Ascend gently.
80.00	Set an iron post 3 ft. long, 2 ins.dia.,24 ins.in the ground, for cor. of secs. 14,15,22, and 23, marked on brass cap
	T 31 S S 15 in NW.
	R 21 E S 14 in NE.
	S 23 on SE.; and
	S 22 in SW. quadrant; from which
	A cedar 12 ins.dia.bears N.80°30'E. 387 lks. dist., marked T 31 S R 21 E S 14 B T

Subdivision of T. 31 S., R. 21 E.

Chains	
	A cedar, 10 ins.dia., bears S.60°30'E. 165 lks. dist., marked T 31 S R 21 E S 23 B T
	No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	July 27: At this cor. I set off 19°22'N. on the decl. arc; and at 0h 06m p.m.l.m.t., observe the sun on meridian; the resulting lat. is 38°07'
	Land, rough, mountainous E. slope.
	Soil, poor, brown, gravelly loam, stony, 3 to 20 ins. deep, on rock subsoil; dry
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	S.89°56'E. on a random line bet. secs. 14 and 23,
40.00	Set temp. ¼ sec. cor.
79.78	Intersect N. and S. line 10 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 rolling land; through scattering sagebrush and greasewood.
5.35	Barb wire fence bears N.22°25'W. and S.40°20'E.
5.80	Wagon road to Carlisle, bears N.10°W. and S.10°E.
10.00	Indian Creek, 15 lks. wide, 18 ins. deep, rocky bottom, in bottom of wash 250 lks. wide, 10 ft. deep, course N.40°W. Cottonwood trees grow along creek.
	Ascend.
15.00	Ascend over ledge, 15 ft. high, bears N.40°W. and S.40° E.
15.50	Top of ledge, bears same; ascend gently.
31.00	Begin abrupt ascent, over talus, bearing N.60°W. and S. 60°E.
39.60	Top of talus spur, 150 ft. above Indian Creek, bears N. and S. Descend.
39.89	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S

Subdivision of T. 31 S., R. 21 E.

Chains	
	14 on N. half; and S. 23 on S. half; from which
	A cedar 4 ins. dia. bears N.82°E. 30 lks. dist., marked ¼ S 14 B T
	A pinon pine, 4 ins. dia., bears S.86°35'W. 175 lks. dist., marked ¼ S 23 B T
	Descend.
60.40	Foot of talus slope 100 ft. below spur, bears N.40°E. and S.40°W. Descend gently.
76.20	Wash, 20 lks. wide, 6 ft. deep, course N.20°E.
79.78	The cor. of secs. 14, 15, 22, and 23.
	Land, rolling mountainous N. slope.
	Soil, gravelly loam, 6 to 12 ins. deep, on gravel and rock subsoil.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	N.0°01'W. bet. secs. 14 and 15.
	Over rolling land; through sagebrush; ascend gently.
0.80	Top of gentle ascent, bearing N.60°E. and S.60°W.
	Descend gently.
39.75	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness ¼ sec. cor., marked on brass cap T 31 S R 21 E in N.; ¼ S 15 on W. half, and S 14 on E. half; W C in N.; from which
	A cedar 18 ins. dia. bears S.73°40'E. 54 lks. dist., marked W C ¼ S 14 B T
	No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
40.00	Point for ¼ sec. cor. falls in wash, 15 lks. wide, 3 ft. deep course N.20°W.; cor. not set.
	Ascend gently.
41.00	Top of small ascent bears N.60°W. and S.60°E.
	Descend gently.
45.00	Bottom of descent, bears E. and W.; ascend gently.

Chains	
68.80	Descend over small ledges bearing E. and W.
71.10	Foot of steep descent, 40 ft. below top, bears E.andW.
	Descend gently.
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, marked on brass cap T 31 S S 10 in NW R 21 E S 11 in NE. S 14 in SE.; and S 15 in SW. quadrant; from which A cedar 4 ins. dia. bears N.74°00'E. 36 lks. dist., marked T 31 S R 21 E S 11 B T No other bearing trees within limits; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, rolling bench, N. slope. Soil, sand and gravelly loam, 6 to 18 ins. deep, on gravel and rock subsoil; dry, medium texture. Timber, a few scattering cedars. Undergrowth, scattering sagebrush and grass. July 27, 1911.

Begin

	July 28: At 8h 06m a.m.l.m.t., I set off 38°07'N. on the lat. arc; 19°11'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.
79.80	Intersect N. and S. line at the cor. of secs. 11,12,13, and 14. Thence I run West on a true line bet. secs. 11 and 14, Over rolling land; through sagebrush; descend gently.
7.80	Wash, 50 lks. wide, 3 ft. deep, course S.80°W.
13.20	Ascend over knoll. bearing N. and S.

Subdivision of T. 31 S., R. 21 E.

Chains	
21.00	Top of knoll, 40 ft. above foot, bears N. & S.
	Descend.
30.00	Foot of knoll, 25 ft. below top, bears N. and S.
	Descend gently.
30.90	Wagon road to Carlisle, bears N. and S.
31.50	Enter corn field, bearing N.40°W. and S.40°E., extends northerly about 10 chs. and southerly about 5 chs.
39.90	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 11 on N. half, and S 14 on S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor. Corner is located in corn field.
46.00	Leave corn field; enter greasewood, bearing N. and S.
51.20	Leave greasewood; enter cottonwood trees, which are scattered along Indian Creek.
57.00	Indian Creek, 20 lks. wide, 1 ft. deep, rocky bottom, course N.30°W. In bottom of wash, 1 ch. wide, 10 ft. deep.
	Leave timber; enter greasewood and sagebrush, bearing N.30°W. and S.30°E. Ascend gently.
60.00	Ascend more abruptly, bearing N.60°W. and S.60°E.
63.70	Top of spur, 60 ft. above Indian Creek, bears N.20°W. and S 20°E. Descend gently.
69.40	Descend more abruptly, over broken ledges, bearing N. and S.
72.00	Foot of ledges, 75 ft. below spur, bearing N. and S.
	Descend gently.
79.15	Wash, 25 lks. wide, 10 ft. deep, course N.
79.80	The cor. of secs. 10,11,14, and 15.
	Land, rolling NW. slope.
	Soil, sand and gravelly loam, 3 to 10 ins. deep on ridges, and washed on slopes; good sand and clay loam, 12 to 24 ins. deep in valleys, on sand and clay subsoil; will raise good crops if irrigated

Subdivision of T. 31 S., R. 21 E.

Chains	
	Undergrowth, scattering sagebrush and greasewood.
	Timber, a few scattering cottonwoods.
	N.0°01'W. bet.secs. 10 and 11,
	Over gently rolling land; through greasewood 4 ft. high; descend gently.
9.20	Indian Creek, 18 lks. wide, 10 ins. deep, course N.30°W.
17.50	Indian Creek, 10 lks. wide, 18 ins. deep, course N., comes from S.30°W.; thence north in creek.
19.60	Leave Indian Creek, course N.60°W.
	Cottonwood trees grow along creek.
	Ascend gently through greasewood and sagebrush.
35.50	Wash, 30 lks. wide, 10 ft. deep, course W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 10 on W. half, and S 11 on 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.
	The "Island" bears S.40°00'E. about 10.00 chs.
43.80	The wagon road to Carlisle, bears E. and W.
59.00	Wash 30 lks. wide, 4 ft. deep, course N.70°W.
77.60	Ascend, over small ledge bearing N.70°W. and S.70°E.
78.50	Top of ledge, 50 ft. above foot, bears N.70°W. and S.70° E. Ascend gently, on small bench bordering the foot of talus.
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, marked on brass cap T 31 S S 3 in NW. R 21 E S 2 on NE. S 11 in SE.; and S 10 in SW. quadrant; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	July 28: At 0h 06m p.m.l.m.t., I set off 19°08'N. on the decl. arc, and observe the sun on the meridian at

Subdivision of T. 31 S., R. 21 E.

Chains	
	this cor.; the resulting lat. is 38°08'
	Land, gently rolling, W. slope.
	Soil, good clay loam, 10 to 24 ins. deep, on clay subsoil; fairly moist; medium texture.
	Undergrowth, sagebrush and greasewood.
	Timber, few cottonwoods along Indian Creek.
	Water from Indian Creek could be diverted on the greater part of this land
	East on a random line bet. secs. 2 and 11,
40.00	Set temp. ¼ sec. cor.
79.81	Intersect N. and S. line 1 lk. S. of cor. of secs. 1,2, 11, and 12. Thence I run
	West on a true line bet. secs. 2 and 11
	Over rolling mountainous land, sloping S.; through scattering cedar and pinon pine; descend over talus.
27.20	Foot of talus, 350 ft. below sec. cor., bears N.30°E. and S.70°W. Wash at foot 40 lks. wide, 4 ft. deep, course S.70°W. Leave timber; enter scattering sagebrush and grass bearing NE. and SW. Ascend gently.
39.905	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, with mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 2 on N. half, and S 11 on S. half; raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
54.90	Top of small mesa knoll (south side), 50 lks. wide, 2 chs. long 75 ft. high; descend.
58.00	Bottom of hollow, 50 ft. below descent, course S.
	Ascend.
61.00	Top of talus spur, 50 ft. above hollow, bears N. and S.; descend over broken and rough talus, large boulders.
79.81	The cor. of secs. 2,3,10, and 11.
	This mile is composed chiefly of talus slope land, S. slope.
	Soil, gravelly and rocky, 3 to 12 ins. deep, on gravel

Chains	
	and boulder subsoil;very poor; dry, coarse texture. Timber, few scattering cedar and pinon pine. Very little undergrowth of sagebrush.
	N.0°01'W. bet.secs.2 and 3,
	Over rough, mountainous land; through scattering timber and sagebrush. Begin ascent of talus over large boulders, bearing N.30°W. and S.80°E.
18.50	Top of talus spur, 200 ft. above sec. cor., bears E.and W. Descend gently.
20.00	Bottom of hollow, 20 ft. below spur, course W.; ascend gently, over small washes too numerous to mention.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the ground, to solid rock, surrounded by mound of stone for ¼ sec. cor., marked on brass cap ¼ S 3 on W. half, and S 2 on E. half; from which
	A ledge, marked cross (X) B O S 2 bears E. 50 lks. dist.
	raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	July 28: At this cor. I set off 38°09' on the lat.arc; 19°06'N. on the decl. arc; and determine a meridian with the solar; this agrees with morning observation.
41.20	Foot of ledges bearing N.30°W. and S.30°E. Ascend.
50.00	Top of ledges bearing N.30°W. and S.30°E. 500 ft. above ¼ sec. cor.; ascend gently.
121.60	Intersect 6th Standard Parallel South 22.42 chs. E. of re-established standard cor. of secs. 34 and 35, heretofore described.
	Set an iron post 3 ft. long, 2 ins. dia., 12 ins. in the ground, to solid rock, surrounded by mound of stone for closing cor. of secs. 2 and 3, marked on brass cap
	C C T 30 S R 21 E S 34 S 35 on N. half,
	S 2 in SE.; and

Subdivision of T. 31 S., R. 21 E.

Chains	
	S 3 in SW. quadrants; from which
	A cedar 9 ins. dia.bears S.75°43'E. 223 lks. dist., marked T 31 S R 21 E S 2 B T
	A pinon pine 4 ins.dia.bears S.42°32'W. 52 lks. dist., marked T 31 S R 21 E S 3 B T
	Land, mountainous; W. slope.
	Soil, poor, gravelly loam, 6 to 12 ins. deep on bed rock.
	Timber, scattering cedar and pinon pine.
	Undergrowth, sagebrush.
	July 28, 1911.
	July 29: At 8h 06m a.m.l.m.t., I set off 38°04'N. on the lat. arc; 18°57'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3,4,33, and 34, on the S. bdy. of Tp., which is an iron post 3 ins. dia., heretofore described.
	Thence I run
	N.0°02'W. bet.secs.33 and 34,
	Over rough mountainous land, on Bridger Jack Mesa, through heavy cedar and pinon timber; ascending.
8.20	South edge of canyon, bears N.60°E. and S.60°W.
	Descend abruptly over broken sandstone ledges.
19.00	Descend abruptly over ledge, 200 ft. high, bears N.70° E. and S.70°W.
25.00	Bottom of canyon, course NW.; ascend over talus slope.
36.00	Ascend abruptly over broken sandstone ledges bearing NW. and SE.
40.00	Top of spur, 300 ft. above canyon, bears E. and W.
	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 33 on W. half; and S 34 on E.half; from which
	A pinon pine, 6 ins.dia.bears N.32°E. 35 lks. dist., marked ¼ S 34 B T
	A pinon pine, 6 ins.dia.bears S.21°W. 51 lks.

Subdivision of T. 31 S., R. 21 E.

Chains	
	dist., marked ¼ S 33 B T
	Descend over broken ledges.
41.50	Foot of ledges, 50 ft. below ¼ sec. cor., bears N.50°E. and S.50°W.; descend gently.
50.00	Bottom of hollow, 25 ft. below ledges, course W.
	Ascend gently.
58.70	Begin abrupt ascent over ledges bearing NW. and SE.
60.00	Top of ledges, 150 ft. above hollow., bears NW. and SE.
	Ascend gently.
75.00	Ascend over small broken ledges bearing N.70°E. and S. 70°W.
76.00	Top of ledges, 20 ft. above foot, bears E. and W.
	July 29: At this point I set off 18°54'N. on the decl. arc; and at 0h 06m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°05'.
	Ascend gently.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 12 ins. in the ground, to solid rock, and raise a mound of stone around post, for cor. of secs. 27,28,33, and 34, marked on brass cap
	T 31 S S 28 in NW.
	R 21 E S 27 in NE.
	S 34 in SE.; and
	S 33 in SW. quadrants; from which
	A pinon pine, 6 ins.dia.bears N.35°E. 28 lks. dist., marked T 31 S R 21 E S 27 B T
	A pinon pine, 4 ins.dia.,bears S.6°E. 70 lks. dist., marked T 31 S R 21 E S 34 B T
	A pinon pine, 6 ins.dia.bears S.13°W. 60 lks. dist., marked T 31 S R 21 E S 33 B T
	A pinon pine, 12 ins.dia.bears N.44°30'W. 186 lks. dist., marked T 31 S R 21 E S 28 B T
	Land,rough, mountainous W. slope.
	Soil, poor, gravelly loam, rocky and highly washed on slopes, 3 to 8 ins. deep, on bed rock.

Subdivision of T. 31 S., R. 21 E.

Chains	
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	N.89°58'E. on a random line bet. secs. 27 and 34,
40.00	Set temp. ¼ sec. cor.
79.79	Intersect N. and S. line 14 lks. N. of the cor. of secs. 26,27,34, and 35. Thence I run.
	N.89°56'W. on a true line bet. secs. 27 and 34,
	Over rough mountainous land; through cedar and pinon pine timber; scattering sagebrush; descend talus slope.
19.70	Foot of talus, 100 ft. below sec. cor., bears N.10°E.and S.10°W. Ascend gently.
23.90	Top of spur, 50 ft. above ascent, bears N.60°W. and S. 60°E. Descend.
25.40	Bottom of hollow, 25 ft. below spur, course N.20°W. Ascend.
30.70	Top of ridge, 50 ft. above hollow, 25 ft. below spur, bears N. and S. Descend gently.
39.895	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 27 on N. half, and S 34 on S. half; from which
	A cedar 12 ins.dia.,bears N.35°E. 44 lks. dist. marked ¼ S 27 B T
	A pinon pine, 8 ins.dia.,bears S.22°E. 72 lks. dist., marked ¼ S 34 B T
42.00	Bottom of canyon, 25 ft. below ¼ sec. cor., course N.70° E. Ascend over talus slope.
55.00	Ascend abruptly over ledges, bearing N.10°W. and S.10°E.
57.10	Top of ledges (edge of Bridger Jack Mesa) 200 ft. above talus, bears N.10°W. and S.10°E.
	Ascend gently.
62.50	Ascend abruptly, over broken ledges, bearing N. and S.

Subdivision of T. 31 S., R. 21 E.

Chains	
64.20	Top of ledges, 50 ft. high, bearing N. and S.; ascend gently.
68.00	Trail, bears N. and S.
70.00	Top of ridge, 75 ft. above ledges, bearing N. and S. Descend abruptly, over broken ledges.
79.79	The cor. of secs. 27,28,33, and 34. Land, mountainous NW. slope. Soil, poor gravelly loam; stony, 3 to 18 ins. deep on rock subsoil; washed on slopes. Timber, cedar and pinon pine. Undergrowth, scattering sagebrush.
	N.0°02'W. bet. secs. 27 and 28, Over rough mountainous land; through scattering timber and sagebrush.
3.05	Descend abruptly, over cliffs, bearing N.60°E. and S. 60°W.
4.00	Foot of ledge, 300 ft. below top, bears N.60°E. and S. 60°W. Descend over talus.
18.00	Bottom of hollow, 175 ft. below foot of ledge, course S.70°W. Leave timber, bears NE. and SW. Ascend.
24.00	Top of talus spur, 75 ft. above hollow, bearing N.70°E. and S.70°W. Descend.
30.00	Bottom of hollow, 40 ft. below spur, course S.70°W. Ascend.
35.00	Top of talus spur, 50 ft. above hollow, bears E. and W. Descend.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, raise a mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 28 on W. half, and S 27 on E. half; from which A pinon pine, 4 ins.dia.,bears E.17 lks. dist., marked ¼ S 27 B T A cedar 10 ins.dia.bears S.82°W. 54 lks. dist., marked ¼ S 28 B T

Subdivision of T. 31 S., R. 21 E.

Chains	
	Descend, along talus slope.
75.00	Foot of talus slope, 150 ft. below ¼ sec. cor., bearing N.30°E. and S.30°W. Ascend gently, through sagebrush.
80.00	Set an iron post 3 ft. long, 2 in. in dia., 24 ins. in the ground, for cor. of secs. 21,22,27, and 28, marked on brass cap T 31 S S 21 in NW. R 21 E S 22 in NE. S 27 in SE.; and S 28 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, rough mountainous NW. slope.
	Soil, poor, gravelly loam; talus material, composed of rocks and boulders; dry.
	Scattering cedar and pinon pine timber; and scattering sagebrush.
	July 29, 1911.
	July 31: At 8h 06m a.m.l.mt., I set off 38°06'N. on the lat. arc; 18°28'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 21,22,27 and 28. Thence I run S.89°56'E. on a random line bet.secs.22 and 27.
40.00	Set temp. ¼ sec. cor.
79.80	Intersect N. and S. line 8 lks. N. of the cor. of secs. 22,23,26 and 27. Thence I run N.89°53'W. on a true line bet. secs.22 and 27,
	Over rough mountainous land; through cedar and pinon pine timber, and scattering sagebrush. Ascend over broken ledges, bearing N.40°W. and S.40°E.
8.05	Top of abrupt ascent, 150 ft. above sec. cor., bears N. and S.; ascend gently.

Subdivision of T. 31 S., R. 21 E.

Chains	
25.80	Top of ridge, 100 ft. above ledges, bearing N. and S.
	Descend.
32.00	Bottom of canon, 75 ft. below ridge, course S. Ascend.
39.20	Top of ledge, 80 ft. above canon, bears N.10°E. and S. 10°W.
	Descend over small ledges.
39.90	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground to solid rock, and raise a mound of stone around post for ¼ sec. cor., marked on brass cap ¼ S 22 on N. half, and S 27 on S. half; from which
	A pinon pine, 6 ins. dia., bears S.29°E., 10 lks. dist., marked ¼ S 27 B T
	No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor.
	Descend gently.
41.50	Leave Bridger Jack Mesa; descend abruptly over cliffs. bearing N. and S.
50.00	Foot of ledge, 400 ft. below top, bears N. and S.
	Descend over talus.
60.00	Foot of talus, 400 ft. below ledge, bears N. and S.
	Descend gently.
79.80	The cor. of secs. 21,22,27 and 28.
	Land, mountainous, westerly slope.
	Soil, poor, light, gravelly loam; stony, 3 to 12 ins. deep, on rock and gravel subsoil, washed on slopes.
	Timber, cedar and pinon pine.
	Undergrowth, sagebrush and a little bunch grass.

July 31: At 0h 6m p.m., l.m.t., I set off 18°25'N. on the decl. arc; and observe the sun on the meridian at cor. secs. 21,22,27 and 28; the resulting lat. is 38°06'

Thence I run

N.0°02'W. bet. secs. 21 and 22

Over rolling mountainous land; through scattering cedar pinon pine, and sagebrush; desc. gently.

Subdivision of T. 31 S., R. 21 E.

Chains	
10.50	Begin more abrupt descent, bears E. and W.
13.50	Bottom of abrupt descent, 50 ft. below top, bears E. and W. Descend gently.
25.00	Bottom of hollow, 75 ft. below top of abrupt descent, course W. Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 21 on W. half; and S 22 on E. half; from which
	A cedar, 10 ins.dia.,bears N.14°25'E., 173 lks. dist., marked ¼ S 22 B T
	No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
	Ascend gently.
51.80	Top of spur, 30 ft. above ¼ sec. cor., bears N.80°E. and S.80°W. Desc. gently.
65.50	Wash, 60 lks. wide, 6 ft. deep, course N.30°W.
75.70	Descend abruptly over broken ledges, bearing E. and W.
76.80	Bottom of hollow, 100 ft. below ledges, course N.20°W. Ascend gently.
79.60	Wash, 10 lks. wide, 2 ft. deep, course W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground to solid rock; and raise a mound of stone around post for cor. of secs. 15,16,21 and 22, marked on brass cap
	T 31 S S 16 in NW.
	R 21 E S 15 in NE
	S 22 in SE.; and
	S 21 in SW. quadrant; from which
	A cedar, 8 ins.dia.,bears N.55°E., 85 lks. dist., marked T 31 S R 21 E S 15 B T
	A pinon pine, 6 ins.dia.,bears S.25°20'E., 75 lks. dist.,marked T 31 S R 21 E S 22 B T
	A cedar 8 ins.dia.bears S.23°10'W. 32 lks. dist., marked T 31 S R 21 E S 21 B T
	A cedar 6 ins.dia.bears N.35°20'W. 56 lks.

Subdivision of T. 31 S., R. 21 E.

Chains	
	marked T 31 S R 21 E S 16 B T
	Land, rolling, mountainous, W. slope.
	Soil, sandy and gravelly loam, with some stones 6 to 12 ins. deep, on rock and gravel subsoil; very dry, coarse texture.
	Timber, scattering cedar and pinon pine timber.
	Undergrowth, sagebrush.
	July 31, 1911.
	August 1: At 8h 06m a.m.l.m.t., I set off 38°07'N. on the lat. arc; 18°13'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°53'E. on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
79.84	Intersect N. and S. line at the cor. of secs. 14,15,22, and 23. Thence I run
	N.89°53'W. on a true line bet.secs.15 and 22,
	Over mountainous land; through scattering cedar and pinon pine, and short sagebrush; ascend.
3.60	Foot of talus slope; bears N. and S. Ascend talus.
15.00	Begin abrupt ascent over cliffs bearing N. and S.
35.00	Top of ledges and spur, 800 ft. above sec. cor., bears N. and S. Descend.
39.92	Point for ¼ sec. cor. falls on broken ledges; descend over rough ledges and cliffs. Cor. not set.
58.00	Foot of main ledge, 500 ft. below spur, bears N. and S.
	Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the ground, to solid rock; and raise a mound of stone around post, for witness ¼ sec. cor. marked on brass cap T 31 S R 21 E ¼ S 15 on N. half; S 22 on S. half with W C on E.; from which
	A boulder 30 x 10 x 6 ft. bears N.22°30'W. 53 lks. dist., marked X B O S 15

Subdivision of T. 31 S., R. 21 E.

Chains	
	raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	Descend over steep talus slope.
73.00	Foot of talus, 400 ft. below witness ¼ sec. cor., bears N.20°E. and S.20°W. Descend gently.
76.00	Descend abruptly, over small broken ledge, bearing N.20° W. and S.20°E.
79.84	The cor. of secs. 15,16,21, and 22, 100 ft. below abrupt descent.
	Land, mountainous, E.40 chs. slopes E. and W. 39.84 chs. slopes W.
	Soil, poor, gravelly loam, stony and washed on slopes; dry, coarse texture.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	N.0°02'W.bet.secs.15 and 16,
	Over rough, broken talus, large boulders; through scattering cedar and pinon pine; and scattering undergrowth; ascending gently.
30.00	Top of talus spur (very rough and broken), 150 ft. above sec. cor., bears N.60°E. and S.60°W. Descend over large boulders.
35.00	Foot of talus spur, 100 ft. below top, bears N.20°E.and S.20°W. Leave scattering timber; enter flat through short sagebrush. Descend gently.
36.00	Wash,20 lks. wide, 5 ft. deep, course W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 16 on W. half, and S 15 on E. half; from which
	A cedar 16 ins. dia.bears N.83°30'E. 155 lks. dist., marked ¼ S 15 B T
	raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Subdivision of T. 31 S., R. 21 E.

Chains	
	August 1: At this cor. I set off 18°11'N. on the decl. arc; and at 0h 06m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 38°07'
	Descend gently.
64.80	Wash, 15 lks. wide, 2 ft. deep, course W.
65.80	Old wagon road, bears N.30°E. and S.30°W.
75.50	Trail, bears N.20°E. and S.20°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, marked on brass cap T 31 S S 9 in NW R 21 E S 10 in NE S 15 in SE.; and S 16 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.
	S. 35 chs. mountainous land; very broken and rough talus slope, with large boulders; W. slope.
	Soil, poor, gravelly loam, rocky, with large boulders; dry, coarse texture; 3 to 12 ins. deep, on rock subsoil;
	Timber, scattering cedar and pinon pine; very little undergrowth.
	N. 45 chs. rolling land; NW. slope.
	Soil, sand and gravelly loam, with some clay; fair quality, increasing in quality, from S. to north; medium moist, 6 to 18 ins. deep, on rock and gravel and clay subsoil.
	Undergrowth, sagebrush and greasewood. No timber.
	S.89°53'E. on a random line bet. secs. 10 and 15
40.00	Set temp. ¼ sec. cor.
79.82	Intersect N. and S. line 5 lks. N. of the cor. of secs. 10,11,14 and 15. Thence I run
	N.89°51'W. on a true line bet. secs. 10 and 15

Begin

Subdivision of T. 31 S., R. 21 E.

Chains	
	Over rolling mountainous land; through cedar and pinon pine timber and a little scattering sagebrush; ascend gently.
7.00	Ascend over broken ledges bears N.30°W. and S.30°E.
11.00	Top of ledges, 50 ft. above sec. cor. Ascend gently.
15.00	Begin abrupt ascent over rough talus, bearing N. and S.
36.00	Foot of main ledge.
39.91	Point for ¼ sec. cor. falls on sloping ledge; post cannot be set.
42.00	Top of ledge spur, (extreme N. point of Bridger Jack Mesa) bears N. and S.; descend over ledges.
46.00	Foot of ledge, 400 ft. below top, bears N. and S.
46.70	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground to solid rock, and raise a mound of stone around post, for witness ¼ sec. cor., marked on brass cap T 31 S R 21 E S 10 on N half; S 15 on S half; W C on E. half; raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor.
	Descend over talus slope.
50.00	Foot of talus, 300 ft. below ledge, bears N. and S.
	Descend gently.
64.20	Descend abruptly over broken ledge, bears N. and S.
69.20	Foot of ledge, bears N. and S.
	Ascend gently; through short sagebrush.
72.00	Old wagon road, bears N.70°E. and S.70°W.
75.70	Trail, bears N.70°E. and S.70°W.
79.60	Wash, 10 lks. wide, 3 ft. deep, course N.
79.82	The cor. of secs. 9,10,15 and 16.
	E. 70 chs. mountainous land; N. slope.
	Soil, poor light, gravelly loam; stony and dry, 4 to 10 ins. deep on rock subsoil.
	Timber; scattering cedar and pinon pine.
	W. 9.82 chs. canon bottom land, W. slope.
	Soil, sandy loam, 6 to 20 ins. deep, on clay subsoil.

Subdivision of T. 31 S., R. 21 E.

Chains	
	Undergrowth, short sagebrush.
	No timber.
	August 1, 1911.
	August 2: At 7h 36m a.m.l.m.t., I set off 38°07' on the lat. arc; 17°59'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9,10,15, and 16. Thence I run
	N.0°02'W. bet. secs. 9 and 10.
	Over rolling land; through sagebrush, greasewood, shadscale, and a little grass; descend gently.
0.70	Wash, 10 lks. wide, 4 ft. deep, course W. from S.60°E.
7.80	Enter Lavender Canyon Wash, course N., comes from S. 60°W.
18.00	Leave wash, course NW., from S. Ascend gently.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 9 on W. half, and S 10 on 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.
	Top of gentle ascent bearing N.80°W. and S.80°E.
	Descend gently.
43.80	Wash, 50 lks. wide, 9 ft. deep, course W.
74.20	Indian Creek, 20 lks. wide, 18 ins. deep, course NW.
	Cottonwood trees along creek
	Ascend gently.
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, marked on brass cap
	T 31 S S 4 in NW.
	R 21 E S 3 in NE.
	S 10 in SE.; and
	S 9 in SW. quadrants; from which
	A cottonwood tree 8 ins.dia.bears S.2°06'E. 121 lks. dist., marked T 31 S R 21 E S 10 B T

Subdivision of T. 31 S., R. 21 E.

Chains	
	A cottonwood tree 15 ins.dia.bears S.4°07'W. 92 lks. dist., marked T 31 S R.21 E S 9 B T
	No.other bearing trees within limits; dig pits 18 x 18 x 12 ins. NE. and NW. of post 5½ ft. dist.; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling NW. slope.
	Soil, sandy and clay loam, on clay subsoil; moist, 12 to 24 ins. deep.
	Undergrowth short sagebrush and greasewood.
	No timber.
	S.89°51'E. on a random line bet.secs.3 and 10,
40.00	Set temp. ¼ sec. cor.
79.78	Intersect N. and S. line 3 lks. S. of cor. of secs. 2,3, 10, and 11. Thence I run
	N.89°52'W. on a true line bet.secs.3 and 10,
	Over rolling land; through sagebrush and greasewood; descend gently.
2.90	Descend over broken ledges, bearing N.30°W. and S.60°E.
4.40	Foot of abrupt descent, 50 ft. below top, bears NW. and SE. Descend gently; through sagebrush and greasewood.
15.15	Old wagon road, bears N.10°W. and S.10°E.
39.89	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 3 on N. half, and S.10 on S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
	August 2; At this point I set off 17°55'N. on the decl. arc; and at Oh 06m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°08' +
	Descend gently.
55.50	Leave sagebrush; enter heavy greasewood, 4 ft. high, bearing NW. and SE.

Subdivision of T. 31 S., R. 21 E.

Chains	
78.78	The cor. of secs. 3,4,9, and 10.
	Land, rolling, W. slope.
	Soil, a mixture of sand and clay, with some gravel, 6 to 18 ins. deep, on clay subsoil; medium moist.
	Undergrowth, sagebrush and greasewood.
	No timber.
	N.0°02'W. bet. secs. 3 and 4,
	Over gently rolling land; through sagebrush and greasewood; ascend gently.
39.50	Old wagon road, bears E. and W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 4 on W. half, and S 3 on 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.
m 52.70	Wash 20 lks. wide, 3 ft. deep, course W.
54.80	Wagon road, bears N.20°W. and S.20°E.
88.80	Wagon road to Carlisle, bears N. and S. 10°W.; thence along road.
95.00	Wash, 20 lks. wide, 2 ft. deep, course W.
97.50	Leave road, bears N.20°E. and S.
109.50	Same road, bears N.20°W. and S.20°E.
118.50	Wash, 30 lks. wide, 2 ft. deep, course N.20°W.
121.39	Intersect Sixth Standard Parallel South, 22.38 chs. E. of the re-established standard cor. of secs. 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, marked on brass cap
	C C T 30 S R 21 E S 33 S 34 in N. half,
	S 3 in SE.; and
	S 4 in SW. quadrants; dig pits 24 x 18 x 12 ins. crosswise on each line, E. and W. 3 ft., and S.

Chains	
	of post 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.
	Land, gently rolling NW. slope.
	Soil, sand and clay loam, on clay subsoil; medium texture; fairly moist, 10 to 24 ins. deep.
	Undergrowth, sagebrush and greasewood, and a little grass. No timber.
	August 2, 1911.
	Eric H. Anderson U. S. Transitman.
	Survey commenced July 29, 1911, and executed with the instrument described in book "E" of this survey. For complete test of instrument also see book "E".
	At 8h 06m a.m.l.m.t., I set off 38°04' on the lat. arc; 18°57'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4,5,32, and 33on S. bdy. of Tp., heretofore described. Thence I run
	N.0°03'W. bet.secs.32 and 33,
	Over mountainous mesa land; through scattering timber.
	Ascend.
5.30	Top of ridge, 50 ft. above sec. cor., bears N.20°W. and S. 20°E. Descend.
7.00	Foot of ridge, bears E. and W. Descend gently.
28.00	Wash, 4 ft. deep, 20 lks. wide, course E.
32.60	Trail, bears NE. and SW.
40.00	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 32 on W. half, and S 33 on E. half; from which
	A pinon pine, 6 ins.dia.,bears S.48°25'E. 605 lks. dist., marked ¼ S 33 B T
	A cedar, 6 ins.dia.,bears S.60°55'W. 199 lks. dist., marked ¼ S 32 B T
45.00	Enter heavy cedar and pinon pine timber, bearing E. and W.

Subdivision of T. 31 S., R. 21 E.

Chains.

66.60 Trail, bears NE. and SW.

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 12 ins. in the ground, to solid rock, and raise a mound of stone around post, for cor. of secs. 28,29,32, and 33, marked on brass cap

T.31 S.R 29 in NW

R 21 E.S 28 in NE.

S 33 in SE.; and

S 32 in SW. quadrants; from which

A pinon pine; 6 ins.dia., bears N.46°E. 135 lks. dist., marked T 31 S R 21 E S 28 B T

A cedar, 10 ins.dia.bears S.56°30'E. 22 lks. dist., marked T 31 S R 21 E S 33 B T

A cedar 12 ins.dia.bears S.27°30'W. 25 lks. dist. marked T 31 S R 21 E S 32 B T

A cedar, 6 ins.dia. bears N.23°W. 62 lks. dist., marked T 31 S R 21 E S 29 B T

Land, mountainous zone; E. slope.

Soil, sand and gravelly loam; dry; 6 to 12 ins. deep, on rock subsoil; reduced on slope.

Timber, cedar and pinon pine.

Undergrowth, scattering sagebrush.

N.89°16'E. on a random line bet.secs.28 and 33,

40.00 Set temp. 1/4 sec. cor.

79.90 Intersect N. and S. line 6 chs. S. of the cor. of secs. 27,28,33, and 34. Thence I run

West on true line bet. secs. 28 and 33,

Over mountainous zone land; through cedar and pinon pine; descend gently.

3.00 Descend abruptly, over ledges, bearing N.20°W. and S. 20°W.

Leave Bridger Peak Zone.

22.50 Foot of ledges, 1200 ft. below top; descend.

Subdivision of T. 31 S., R. 21 E.

Chains

32.60 Bottom of canyon wash, in bottom 25 lks. wide, 4 ft. deep, course NE. at this point; general course N.20°W. Ascend.

39.90 Top of ledge, 300 ft. above canyon (E. edge of mesa) bears N.10°W. and S.10°W. Descend.

39.95 Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, and raise a mound of stone around post for ¼ sec. cor., marked on brass cap ¼ S 28 on N. half, and S 33 in S. half; from which

A pinon pine, 6 ins. dia. bears N.81°15'W. 87 lks. dist., marked ¼ S 28 B T

A cedar 8 ins. dia. bears S.66°45'W. 117 lks. dist. marked ¼ S 33 B T

July 29: At this cor. I set off 18°54'N. on the decl. arc; and at 0 h 06m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°05'

Descend.

61.20 Wash, 10 lks. wide, 1 in. deep, course N.80°E. Ascend. gently.

79.90 The cor. of secs. 28,29,32, and 33.

Land, mountainous N. slope.

Soil, sandy and gravelly loam, 4 to 12 ins. deep, on rock subsoil, washed on slopes.

Timber, cedar and pinon pine.

Undergrowth, scattering sagebrush.

N.0°03'W. bet. secs. 28 and 29,

Over mountainous mesa land; through heavy timber, scattering sagebrush and shadscale; descend gently.

30.90 N. edge of mesa; begin abrupt descent over ledges and boulders, ledge 30 ft. high, bears N.10°E. and S.10°W.

40.00 Point 150 ft. below mesa, on rocky sidehill.

Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock; and raise a mound of stone

Subdivision of T. 31 S., R. 21 E.

Chains	
	around post, for ¼ sec. cor., marked on brass cap, ¼ S 29 on W. half, and S 28 on E. half; from which
	A cedar, 14 ins.dia., bears S.17°E. 54 lks. dist., marked ¼ S 28 B T
	A cedar, 16 ins.dia., bears N.73°W. 6 lks. dist., marked ¼ S 29 B T
52.30	Foot of abrupt descent, 300 ft. below mesa, bears NE. and S.10°W. Leave ledges and boulders; enter Lavender Canyon; descend gently.
52.80	Leave timber, bears NE. and S.10°W.
54.10	Old road, bears NE. and SW.
70.70	Wash from Lavender Canyon, 130 lks. wide, 3 ft. deep, course N.30°E. Ascend gently.
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, marked on brass cap
	T. 31 S S. 20 in NW.
	R 21 E S 21 in NE.
	S 28 in SE.; and
	S 29 in SW. quadrant; 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 mesa, N. slope.
	Soil, sand and gravelly loam with some clay, on rock and gravel subsoil; dry, medium texture.
	Timber S.52.80 chs. cedar and pinon pine.
	Undergrowth sagebrush and shadscale.
	July 29, 1911.
	July 31: At 8h 06m a.m.l.m.t., I set off 38°06'N. on the lat. arc; 18°28'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
	East on a random line bet. secs.21 and 28,
40.00	Set temp. ¼ sec. cor.

Subdivision of T. 31 S., R. 21 E.

Chains	
79.88	Intersect N. and S. line 18 lks. N. of the cor. of secs. 21,22,27, and 28. Thence I run
	N.89°52'W. on a true line bet.secs.21 and 28,
	Over mountainous mesa land; through scattering sagebrush and shadscale; descend gently.
1.50	Wash, 25 lks. wide, 2 ft. deep, course N.20°W.
14.90	Leave mesa; descend over ledges bearing N. and S.
17.80	Foot of ledge, bears NW. and S. Descend over rolling land.
20.30	Trail bears N.20°E. and S.20°W.
39.94	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 21 on N. half, and S 28 on S. half; dig pits 18 x 18 x 12 ins. N. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
53.00	Old road and wash, 30 lks. wide, 4 ft. deep, course N. 20°W. Road bears N.20°E. and S.20°W.
71.00	Trail, bears N. and S.
74.20	Wash 100 lks. wide, 4 ft. deep, from Lavender Canyon, course N. Ascend.
79.88	The cor. of secs. 20,21,28, and 29.
	Land, rolling mountainous W. slope.
	Soil, light brown sand and gravelly loam, with some clay medium moist, 6 to 18 ins. deep, on rock and gravel subsoil.
	No timber.
	Undergrowth sagebrush.
	N.0°03'W. bet. secs. 20 and 21,
	Over rolling mountainous land; through scattering timber; dense sagebrush and greasewood. Ascend gently.
16.50	Begin abrupt ascent, bearing N.80°E. and S.80°W.
20.00	Top of rocky spur, 100 ft. above sec. cor., bears N.80° E. and S.80°W. Descend gently.

Subdivision of T. 31 S., R. 21 E.

Chains	
23.20	Bottom of hollow, 50 ft. below spur, course E.
	Begin abrupt ascent over boulders.
26.30	Top of ridge, 100 ft. above hollow, bears E. and W.
	July 31: At this point I set off 18°26'N. on the decl. arc; and at 0h 06m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°07'
	Descend over broken ground.
39.20	Begin more abrupt descent bearing N.70°E. and S.70°W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the ground, to solid rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap ¼ S 20 on W. half, and S 21 on E. half; from which
	A pinon pine, 8 ins.dia.bears N.74°35'W. 20 lks. dist., marked ¼ S 20 B T
	A cedar, 10 ins.dia., bears S.48°47'W. 47 lks. dist., marked ¼ S 21 B T
	Ascend gently.
43.60	Bottom of descent, course E. Ascend gently.
49.50	Top of ascent, bears E. and W. Descend gently.
67.20	Wash, 70 lks. wide, 20 ft. deep, course N.40°E.
	Ascend gently.
74.00	Top of small ascent, bearing E. and W.
	Descend gently.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 16,17,20, and 21 marked on brass cap
	T 31 S S 17 in NW.
	R 21 E 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, rolling mountainous E. slope.
	Soil, a mixture of sand, clay and gravel, fairly moist; medium texture, 6 to 18 ins. deep, on rock and gravel

Chains	
	subsoil.
	Timber, scattering cedar and pinon pine.
	Undergrowth, sagebrush and greasewood.
	July 31, 1911.
	Aug. 1: At 8h 06m a.m.l.m.t., I set off 38°07' on the lat. arc; 18°14'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16,17, 20, and 21. Thence I run
	S.89°52'E. on a random line bet.secs. 16 and 21,
40.00	Set temp. ¼ sec. cor.
79.78	Intersect N. and S. line 5 lks. S. of the cor. of secs. 15,16,21 and 22. Thence I run
	N.89°54'W. on a true line bet.secs.16 and 21,
	Over mountainous land; through scattering timber and dense sagebrush, greasewood, and shadscale. Descend gently.
3.25	Bottom of hollow, 15 ft. below sec. cor., course N.20° W.
	Ascend.
10.50	Top of spur, 75 ft. above hollow, bears N.30°W. and S. 30°E. Descend.
15.00	Foot of spur, 60 ft. below top, bears N.30°E. and S.30° W. Enter Lavender Canyon bottom; descend gently.
16.00	Old wagon road, in Lavender Canyon, bears N.20°E. and S.20°W.
26.20	Wash, 100 lks. wide, 4 ft. deep, in bottom of Lavender Canyon bottom, course N.20°E. Ascend gently.
39.89	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 16 on N. half, and S 21 on S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 5 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
45.00	Begin abrupt ascent, bearing N. and S.

Subdivision of T. 31 S., R. 21 E.

Chains	
	Leave dense sage; enter scattering timber and brush bearing N. and S.
51.50	Top of abrupt ascent, 125 ft. above foot, (east edge of small round mesa) bears N. and S.; thence over level mesa.
68.00	West edge of mesa, bears N.20°E. and S.20°W.
	Descend abruptly.
72.00	Foot of abrupt descent, 100 ft. below top, bears N.20°E. and S.20°W. Leave scattering timber; enter dense sagebrush; descend gently.
79.78	The cor. of secs. 16, 17, 20 and 21.
	E. 45.00 chs. rolling land. N. slope.
	Soil, good sand and clay loam, 8 to 20 ins. deep, on clay subsoil; moist, medium texture.
	Undergrowth, sagebrush and greasewood.
	No timber.
	W.34.78 chs. rolling mesa land, N. slope.
	Soil, sand and gravelly loam 6 to 12 ins. deep, on rock and gravel subsoil.
	Timber, scattering cedar and pinon pine.
	Undergrowth sagebrush.
	N.0°03'W. bet. secs. 16 and 17,
	Over rolling mountainous land; through dense sagebrush, greasewood and shadscale; descend gently.
10.30	Wash, 20 lks. wide, 3 ft. deep, course E.
19.00	Trail, bears N.30°E. and S.30°W., leads on to mesa on the west.
33.00	Wash, 10 lks. wide, 1 ft. deep, course N.60°E.
	Ascend gently.
35.00	Enter scattering timber, bears N.40°E. and S.40°W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the ground, to solid rock, and raise a mound of stone around post, for ¼ sec. cor., marked ¼ S 17 on W.half, and S 16 on E. half; from which

Subdivision of T. 31 S., R. 21 E.

Chains	
	A cedar 16 ins.dia.bears S.29°E. 90 lks. dist. marked ¼ S 16 B T
	A cedar 10 ins.dia.bears S.41°52'W. 67 lks. dist. marked ¼ S 17 B T
	Aug.1: At this cor. I set off 18°11'N. on the decl. arc and at 0 h 06m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°08'
40.20	Leave canyon bottom; begin abrupt ascent over ledges and boulders, bearing N.20°E. and S.20°W.
41.20	Top of steep ascent, 75 ft. above wash, bears N.20°E. and S.20°W.
	Ascend gently.
45.20	Top of ridge, 100 ft. above ¼ sec. cor. bearing N.85°E. and S.85°W. Desc. gently.
58.00	Bottom of hollow, 50 ft. below ridge, course E. Ascend. gently.
60.00	Begin abrupt ascent, over broken ledges and boulders bearing N.60°E. and S.60°W.
64.50	Top of steep ascent (S. edge of mesa) 200 ft. above hollow; ascend gently over mesa.
75.30	Wash, 200 lks. wide, 2 ft. deep, course E. Ascend gently.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 18 ins. in the ground, to solid rock, and raise a mound of stone around post for cor. of secs. 8,9,16, and 17, marked on brass cap
	T 31 S S 8 in NW.
	R 21 E S 9 in NE.
	S 16 in SE.; and
	S 17 in SW. quadrant; from which
	A cedar, 12 ins.dia.bears N.52°15'E. 70 lks. dist., marked T 31 S R 21 E S 9 B T
	A cedar 12 ins.dia.bears S.29°12'E. 116 lks. dist marked T 31 S R 21 E S 16 B T
	A cedar, 10 ins.dia.,bears S.1°32'W., 91 lks. dist., marked T 31 S R 21 E S 17 B T

Subdivision of T. 31 S., R. 21 E.

Chains	
	A cedar, 12 ins.dia.,bears N.26°15'W., 68 lks. dist.,marked T 31 S R 21 E S 8 B T
	S. 30 chs. rolling canon bottom, E. slope.
	Soil, sand and clay loam, 10 to 18 ins. deep, on clay subsoil; moist, medium texture.
	Undergrowth, sagebrush, greasewood and shadscale.
	N. 40.00 chs. rolling mountainous land, E. slope.
	Soil, gravelly loam 4 to 20 ins. deep, on rock subsoil; dry, coarse texture.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	S.89°54'E. on a random line bet.secs.9 and 16
40.00	Set temp. ¼ sec. cor.
79.76	Intersect N. and S. line 10 lks. S. of the cor. of secs. 9, 10, 15 and 16. Thence I run
	N.89°58'W. on a true line bet.secs.9 and 16
	Over rolling land; through dense short sagebrush and shadscale and scattering greasewood; descend gently.
6.40	East bank of Lavender Canon Wash, bearing N.10°E. and S.10°W.
12.60	West bank of same wash, 6 ft. high, bears same; ascend gently.
39.88	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 9 on N. half; and S 16 on S half; from which
	A cedar, 12 ins.dia.,bears N.47°W., 358 lks. dist., marked ¼ S 9 B T
	A cedar, 12 ins.dia.,bears S.45°W., 437 lks. dist., marked ¼ S 16 B T
41.20	Trail, bears N.30°E. and S.30°W.
44.00	Enter scattering timber, bears N.20°E. and S.20°W.
45.00	Top of small spur, 25 ft. above ¼ sec. cor., bears N.40° W. and S.40°E. Descend gently.

Subdivision of T. 31 S., R. 21 E.

Chains

56.20 Begin abrupt ascent, over broken ledges, bearing N.20°W. and S.20°E.

61.20 Top of broken ledges (east edge of mesa) bears N.20°W. and S.20°E. Ascend gently over mesa; through heavy cedar and pinon pine.

79.76 The cor. of secs. 8,9,16 and 17.

E. 44.00 chs. rolling land; E. slope.

Soil, a good sand and clay loam, 6 to 18 ins. deep, on clay and gravel subsoil; moist, medium texture.

Undergrowth, short growth of sagebrush, greasewood and shadscale.

No timber.

W. 35.76 chs. rolling mountainous land.

Soil, brown, gravelly loam; dry; rather coarse texture, 4 to 12 ins. deep, on rock subsoil.

Timber, cedar and pinon pine.

Undergrowth, scattering sagebrush.

August 1, 1911.

August 2: At 8h 06m a.m., l.m.t., I set off 38°07' on the lat. arc; 17°58'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 cedar and pinon pine timber and scattering sagebrush; ascend gently.

4.60 Top of ascent, 25 ft. above sec. cor., bears E. and W.; thence nearly level mesa

11.90 Small hollow, 15 ft. deep, course E. Ascend over broken surface and boulders.

32.00 Foot of ledge, 100 ft. high bears NE. and SW.

36.00 Top of rocky ridge or ledge, 300 ft. above sec. cor., bears NE. and SW. Descend abruptly over ledges.

Subdivision of T. 31 S., R. 21 E.

Chains	
40.00	Point for ¼ sec. cor. falls on steep ledge; post cannot be set, nor point marked.
40.23	Foot of ledge, 200 ft. below top, bears N.40°E. and S. 40°W.
	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, and raise a mound of stone around post, for witness ¼ sec. cor., marked on brass cap T 31 S R 21 E in N., ¼ S 8 on W. half, S 9 on E. half, with W C on S.; from which
	A ledge bears E.4 lks. dist., marked cross (+) W C B O S 9; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Descend over steep talus slope; very rough, large boulders.
51.40	Foot of steep descent, 100 ft. below witness ¼ sec. cor. Descend less abruptly.
71.40	Foot of talus, 300 ft. below witness ¼ sec. cor., bears N.30°E. and S.30°W. Descend gently.
71.90	Descend over broken ledges.
80.00	Foot of broken ledge, 250 ft. below top, bears N.30°E. and S.30°W.
	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, marked on brass cap
	T 31 S S 5 in NW.
	R 21 E S 4 in NE.
	S 9 in SE.; and
	S 8 in SW.; quadrant; from which
	A sandstone boulder 12 x 12 x 6 ft. marked + BO S 4 bears N.71°30'E. 71 lks. dist.
	A sandstone boulder 12 x 10 x 4 ft., marked + BO S 9 bears S.57°15'E. 72 lks. dist.,
	A cedar 10 ins. dia. bears S.49°40'W. 32 lks. dist., marked T 31 S R 21 E S 8 B T
	A sandstone boulder, 10 x 10 x 8 ft., marked + B O S 5, bears N.58°30'W. 83 lks. dist.

Subdivision of [illegible] 31 S., R. 21 E.

Chains	
	Land, mountainous; S. 40.00 chs. SE. slope; and N.40.00 chs. NW. slope.
	Soil, poor, gravelly loam, composed chiefly of talus material; stony; large boulders; dry, coarse texture, 4 to 12 ins. deep on rock subsoil.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	S.89°58'E. on a random line bet.secs.4 and 9,
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 17 lks. S. of cor. of secs. 3,4,9, and 10. Thence I run
	S.89°55'W. on a true line bet.secs.4 and 9,
	Over rolling land; through dense sagebrush and greasewood; descend gently.
4.50	E. bank of Indian Creek, 15 ft. high, bears N.70°W. and S.60°E.
5.00	Indian Creek, 25 lks. wide, 6 ins. deep, course N.70°W.
6.00	W. bank of Indian Creek, 20 ft. high, bears N.70°W. and S.60°E.
9.20	Trail, bears NW. and SE.
11.35	Wash, 20 lks. wide, 4 ft. deep, course N.20°W.
13.80	E. bank of wash, from Lavender Canyon, 4 ft. high, bears N. and S.
16.10	Bottom of wash, course N.
24.15	W. bank of same wash, 8 ft. high, bears N. and S.
27.50	Leave valley; begin abrupt ascent, over broken ledges, bearing N. and S.
35.75	Top of abrupt ascent and ledge 30 ft. high, bears N.20° E. and S.20°W. E. edge of mesa; ascend gently over mesa.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, and raise a mound of stone around post, for ¼ sec. cor., marked ¼ S 4 on N. half; and S 9 on S. half; from which

Subdivision of T. 31 S., R. 21 E.

Chains	
	A cedar 14 ins.dia.bears N.44°30'E. 109 lks. dist., marked ¼ S 4 B T
	A cedar 8 ins.dia.bears S.40°15'W. 19 lks. dist., marked ¼ S 9 B T
	August 2: At 0h 06m p.m.l.m.t., I set off at this cor 17°55'N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 38°08'
51.00	Begin ascent of sharp ridge bearing NE. and SW.
55.40	E. edge of top of ridge, bears N.20°E. and S.20°W.; flat on top.
58.00	W. edge of top of ridge, bears N.20°E. and S.20°W. Descend abruptly.
80.00	The cor. of secs. 4,5,8, and 9, 300 ft. below edge of mesa.
	Land, rolling mountainous northerly slope.
	Soil, sand and gravelly loam, 3 to 18 ins. deep, on gravel and rock subsoil.
	Timber, cedar and piñon pine.
	Undergrowth, sagebrush and greasewood.
	N.0°03'W. bet. secs. 4 and 5,
	Over rolling land; through scattering timber, sagebrush, shadscale, and grass; descend.
3.20	Bottom of small hollow, 15 ft. below sec. cor., course S.40°W.; ascend.
33.50	Top of small spur, bears N.70°W. and S.70°E. Descend.
38.10	Foot of spur, bears E. and W.
	Enter rolling land, in Davis Canyon; leave scattering timber, bears E. and S.20°W.; descend gently, through sagebrush, shadscale, and grass.
38.90	Trail, bears N.60°E. and S.60°W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 5 on W. half, and S 4 on E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound

Subdivision of T. 31 S., R. 21 E.

Chains	
	of earth 3½ ft. base, 1½ ft. high W. of cor.
	Descend gently.
85.00	Begin gentle ascent, bearing N.10°W. and S.10°E.
95.00	Top of sacent, bears N.10°W. and S.10°E.
	Descend gently.
105.00	Old fence line bears N.42°W. and S.42°E.
120.40	Set an iron post 3 ft. long, 2 ins.dia.,24 ins. in the ground, for witness closing cor. of secs. 4 and 5 marked on brass cap
	W C C C T 30 S R 21 E S 32 S 33 in N. half,
	S 4 in SE.; and
	S 5 in SW. quadrant; dig pits 24 x 18 x 12 ins. crosswide 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.
121.45	Point for closing cor. of secs. 4 and 5 falls in bed of Indian Creek, 22.56 chs. E. of the re-established standard cor. of secs. 32 and 33 on Sixth Standard Parallel South; heretofore described. Post cannot be set.
	S.38.00 chs. rolling land; W. slope.
	Soil, poor, gravelly loam, 3 to 10 ins.deep, on rock subsoil; dry, coarse texture.
	Timber scattering cedar and pinon pine.
	Undergrowth, sagebrush and shadscale.
	Balance rolling land, NW. slope.
	Soil, good sandy and clay loam, 8 to 24 ins. deep, on clay subsoil, fairly moist.
	Undergrowth, good growth of sagebrush, shadscale, and grass.
	No timber.
	August 2, 1911.

August 3, 1911: At 8h 6m a.m.l.mt., I set off 38°04' on lat. arc; 17°43'N. on the decl. arc; and determine

Subdivision of T. 31 S., R. 21 E.

Chains	
	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°3'W. bet. secs. 31 and 32,
	Over mountainous land; through scattering cedar and pinon pine timber, and dense sagebrush and rabbit brush; descend.
1.20	Trail, bears N.20°E. and S.20°W.
2.25	Leave scattering cedar and pinon pine; enter scattering cottonwood, bearing E. and W. Foot of steep descent, bears N.20°E. and S.20°W.
6.80	E. bank of wash, bears N.20°E. and S.20°W.; thence along wash.
10.00	Center of wash, 80 lks. wide, 3 ft. deep, course N.20° W.
12.10	Leave wash, bank 3 ft. high, bears N.20°W. and S.20°E.
33.45	East bank of same wash, 3 ft. high bears N.30°E. and S. 30°W.
34.25	Bottom of wash, course N.30°E.
35.10	West bank of same wash, 3 ft. high, bears N.30°E. and S.30°W.; ascend gently.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 31 on W. half, and S 32 on E. half; from which
	A cottonwood 10 ins. dia. bears S.83°45'E. 229 lks. dist., marked ¼ S 32 B T
	No other bearing tree within limits; 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	Enter scattering cedar and pinon pine timber, bearing E. and W.
55.50	Wash, 70 lks. wide, 3 ft. deep, course E.; begin ascent over low broken hills, bearing E. and W.
59.00	Top of ascent, bears E. and W. Descend.
65.00	Bottom of hollow, 20 ft. below, course E. Ascend.

Subdivision of T. 31 S., R. 21 E.

Chains	
67.80	Top of small ridge, 30 ft. above hollow, bears E.and W.
72.50	Bottom of small hollow, 20 ft. below ridge, course E.
80.00	Set an iron post 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 29,30,31 and 32, marked on brass cap
	T 31 S S 30 in NW.,
	R 21 E S 29 in NE.
	S 32 in SE.; and
	S 31 in SW. quadrant; from which
	A cedar, 5 ins.dia.bears N.80°15'E. 101 lks. dist., marked T 31 S R 21 E S 29 B T
	A.cedar, 10 ins.dia.bears S 64°E. 91 lks. dist., marked T 31 S R 21 E S 32 B T
	A cedar, 6 ins.dia.,bears S.74°15'W. 37 lks. dist., marked T 31 S R 21 E S 31 B T
	A pinon pine, 7 ins.dia.bears N.74°45'W. 124 lks. dist.,marked T 31 S R 21 E S 30 B T
	Land, rolling, mountainous, E. slope.
	Soil, a mixture of sand, clay and gravel, on gravel and rock subsoil, 6 to 18 ins. deep, dry, medium texture,
	Timber, scattering cedar and pinon pine.
	Undergrowth, sagebrush and rabbit brush.
	N.89°58'E. on a random line bet.secs.29 and 32,
40.00	Set temp. ¼ sec. cor.
79.80	Intersect N. and S. line 5 lks. N. of the cor. of secs. 28,29,32, and 33. Thence I run
	West on a true line bet. secs. 29 and 32,
	Over mountainous mesa land; through heavy timber; ascend gently.
2.90	Edge of mesa, 10 ft. above sec. cor., top of ledge, 30 ft. high, bearing N. and S. 10°W. Descend abruptly over ledges and boulders.
11.00	Foot of abrupt descent; east edge of broad hollow, 400

Subdivision of T. 31 S., R. 21 E.

Chains	
	ft. below mesa, bears N. and S. Descend gently.
12.00	Leave timber, bears N. and S.; enter scattering sagebrush and shadscale.
27.70	Wash, 20 lks. wide, 5 ft. deep, course N. Ascend gently.
39.90	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 29 on N. half and S 32 on S. half; from which A pinon pine, 14 ins. dia., bears N.86°42'W. 625 lks. dist., marked ¼ S 29 B.T A pinon pine, 4 ins. dia. bears S.81°30'W. 653 lks. dist., marked ¼ S 32 B T
45.40	Top of small ascent, 30 ft. above wash, bears NW. and SE. Aug. 3: At 0 h 06m p.m.l.m.t., at this point, I set off 17°40'N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 38°05' Descend.
48.00	Foot of steep descent, bearing N. and S.; enter bottom of Lavender Canyon.
49.40	Trail, bears N.30°E. and S.30°W.
54.30	Center of wash in Lavender Canyon, 120 lks. wide, course N.20°E. Ascend gently.
60.00	Leave canyon; begin ascent over broken ridges and hollows bearing N.20°E. and S.20°W.
79.80	The cor. of secs. 29,30,31, and 32.
	Land, rolling, mountainous; northerly slope.
	Soil, gravelly loam, 6 to 12 ins. deep, washed on ridges and slopes; sandy loam, 12 to 18 ins. deep, on gravel and clay subsoil in valleys.
	Timber, E. 12 chs. heavy cedar and pinon pine.
	Undergrowth, scattering sagebrush and shadscale.
	S 89°58'W. on random line bet. secs. 30 and 31,
40.00	Set temp. ¼ sec. cor.

Subdivision of T. 31 S., R. 21 E.

Chains

77.73 Intersect W. bdy. of tp. 5 lks. S. of the cor. of secs. 25,30,31 and 36, heretofore described. Thence I run East on a true line bet. secs. 30 and 31, Over mountainous land; through scattering cedar and pinon pine timber; descending over rocks and boulders.

2.70 W. edge of mesa; ascend gently, over mesa.

7.70 Trail, bears NE. and SW.

12.70 Wash, 10 lks. wide, 2 ft. deep, course NE.

22.00 Leave mesa; begin abrupt descent, over ledges bearing N. and S.

31.70 Foot of abrupt descent, bearing N. and S.

37.73 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec cor., marked on brass cap ¼ S 30 in N. half, and a 31 in S. half; from which

A pinon pine, 5 ins. dia. bears N.80°20'W. 48 lks. dist., marked ¼ S 30 B T

A pinon pine, 6 ins. dia., bears S.5°5'E. 105 lks. dist., marked ¼ S 31 B T

44.70 Enter canyon bottom, course E., comes from N.60°W. Descend gently.

51.40 Bottom of hollow, course SE., at junction of hollow from W. and NW. Ascend.

55.10 Top of ledge, 30 ft. high, bears N. and S. Ascend gently.

63.70 Begin abrupt ascent, over ledges, bearing N.60°W. and S.60°E.

71.00 Top of ridge, bears N. and S.; descend abruptly.

74.75 Foot of abrupt descent, 300 ft. below ridge; descend gently.

77.73 The cor. of secs. 29,30,31, and 32.

Land, mountainous; easterly slope.

Soil, sand and gravelly loam, 6 to 18 ins. deep, washed on slopes. Subsoil, rock and gravel.

Timber, scattering cedar and pinon pine.

Undergrowth scattering sagebrush.

August 3, 1911.

Subdivision of T. 31 S., R. 21 E.

Chains.	
	Aug 4: At 8h 6m a.m.l.m.t., I set off 38°05' on the lat. arc; 17°28'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29,30, 31 and 32. Thence I run
	N.0°06'W. bet. secs. 29 and 30,
	Over mountainous land; through heavy timber and scattering sagebrush; ascend.
2.00	Begin abrupt ascent, bearing NE. and SW.
12.50	Top of abrupt ascent; edge of mesa, 250 ft. above sec. cor., bearing NE. and SW. Descend gently.
27.50	Bottom of solid rock ravine 2 chs. wide, 20 ft. deep, course E. Ascend.
37.70	Leave heavy timber; enter dense sagebrush, bearing E. and W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 30 in W. half; and S 29 in E. half; from which
	A cedar, 6 ins.dia.bears S.74°27'E. 114 lks. dist., marked ¼ S 29 B T
	A cedar 14 ins.dia.bears S.60°35'W. 110 lks. dist., marked ¼ S 30 B T
41.00	Trail, bears N.40°E. and S.40°W.
43.20	Begin gentle descent, bearing E. and W.
44.00	Enter scattering timber, bearing E. and W.
55.00	Bottom of hollow, course N.45°E.; ascend talus slope, bearing NE. and SW.
68.50	Top of ridge, 100 ft. above hollow, bears E. and W.; descend abruptly.
77.50	Bottom of canyon, 75 ft. below ridge, course S.70°E. Ascend abruptly.
80.00	Set an iron post 3 ft. long, 2 ins.dia.,12 ins. in the ground to solid rock, and raise a mound of stone around post, for cor. of secs. 19,20,29, and 30, marked on brass cap
	T 31 S S 19 in NW.
	R 21 E S 20 in NE.

Subdivision of T. 31 S., R. 21 E.

Chains	
	S 29 in SE.; and
	S 30 in SW. quadrant; from which
	A pinon pine, 4 ins.dia., bears N.39°04'E. 85 lks. dist., marked T 31 S R 21 E S 20 B T
	A pinon pine, 6 ins.dia., bears S.82°36'E. 82 lks. dist., marked T 31 S R 21 E S 29 B T
	A cedar, 6 ins.dia., bears S.72°25'W. 69 lks. dist., marked T 31 S R 21 E S 30 B T
	A cedar, 8 ins.dia., bears N.68°30'W. 62 lks. dist., marked T 31 S R 21 E S 19 B T
	Land, rolling, mountainous E. slope.
	Soil, sand and gravelly loam, of medium texture, dry, 6 to 12 ins. deep, on rock subsoil; washed on slopes; good quality soil, in valleys.
	Timber, cedar and pinon pine.
	Undergrowth, sagebrush and a little grass.
	East on a random line bet. secs. 20 and 29,
40.00	Set temp. ¼ sec. cor.
79.70	Intersect N. and S. line ½ lk. S. of cor. of secs. 20, 21,28 and 29. Thence I run
	West, on a true line bet. secs. 20 and 29,
	Over rolling, mountainous land; through dense sagebrush, greasewood, and shadscale; ascend gently.
8.00	Begin abrupt ascent, bearing N. and S.
	Enter scattering timber.
11.00	Top of abrupt ascent, 125 ft. above sec. cor., bears N. and S. Ascend gently.
16.10	Top of ridge, 150 ft. above sec. cor., bears N. and S.
	Aug. 4: At this point I set off 17°25'N. on the decl. arc; and at 0h 06m p.m.l.m.t., observe the sun on the meridian, the resulting lat. is 38°06'
	Descend abruptly.
23.00	Foot of descent, 75 ft. below ridge, bears N.20°W. and

Chains	
	S.20°E. Ascend over large boulders.
39.95	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, and raise a mound of stone around post for ¼ sec. cor., marked on brass cap ¼ S 20 on N. half, and S 29 on S. half; from which
	A cedar 4 ins.dia., bears N.31°E. 43 lks. dist. marked ¼.S 20 B.T.
	A cedar, 12 ins.dia., bears S.50°E. 66 lks. dist. marked ¼.S 29 B.T.
	Begin abrupt ascent, bears N.20°W. and S.20°E.
45.00	Top of ascent; edge of mesa, 100 ft. above ¼ sec. cor.
	Ascend gently over mesa.
62.00	Wash, 15 lks. wide, 3 ft. deep; course N.10°E.
68.00	Begin ascent of talus, bears N. and S.
70.90	Top of ridge, 75 ft. above, bears N. and S. Descend abruptly.
72.50	Bottom of hollow, 50 ft. below ridge, course S.10°E.
	Ascend more abruptly.
79.70	The cor. of secs. 19,20,29, and 30.
	E. 39.70 chs. rolling land; E. slope.
	Soil, sandy loam, with some gravel, 6 to 18 ins. deep, on clay, gravel, and rock subsoil.
	Undergrowth, sagebrush, greasewood, and shadscale.
	No timber.
	West 40.00 chs. rolling mountainous land, E. slope.
	Soil, poor gravelly loam, 3 to 12 in. deep, on rock subsoil; washed on slopes; dry, stony.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	Knowing that I will intersect inaccessible mesa on this mile, I run
	West, on true line bet. secs. 19 and 30,
	Over rough, mountainous land; through scattering timber; ascend abruptly over talus.

Chains	
5.00	Foot of cliff, 300 ft. high, bears N.20°E. and S.20°W. 75 ft. above sec. cor., impossible to chain farther.
	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, and raise a mound of stone around post, for witness point marked on brass cap W P in center; from which
	A cedar, 10 ins.dia.bears N.21°50'E. 56 lks. dist., marked W P B T
	A pinon pine, 6 ins.dia.bears S.32°55'E. 17 lks. dist., marked W P B T
	I abandon line at this point.
	August, 4, 1911
	August. 7, 1911: I proceed to the cor. of secs. 19;24, 25, and 30, on W. bdy. of Tp., heretofore described.
	Note: For observation for meridian for this date, see line between secs. 18 and 19.
	From said cor. of secs. 19,24,25, and 30, I run
	East on true line bet. secs. 19 and 30,
	Over mountainous land, through scattering timber, sage-brush and shadscale; ascending abruptly over ledges.
2.80	Top of abrupt ascent, rim rock of mesa ledge, 30 ft. high, bears N.10°E. and SW.; ascend over mesa.
3.50	Leave mesa; ascend abruptly, over ledges and boulders.
15.41	Foot of 300 ft. vertical ledge, impossible to surmount, bears N.20°E. and S.20°W.
	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, and raise a mound of stone around post, for witness point, marked on brass cap W P in center of cap; from which
	A cedar, 4 ins.dia.bears S.73°41'E. 36 lks. dist., marked W P B T
	A pinon pine, 8 ins.dia.,bears S.27°28'W. 70 lks. dist., marked W P B T
	On account of inaccessible mesa, I abandon line at this point

Subdivision of T. 31 S., R. 21 E.

Chains	
	The E. 5.00 chs. of this mile is rough, mountainous E. slope.
	Soil, very poor, talus material, dry; 6 to 12 ins. deep, on rock and boulder subsoil.
	Timber, scattering cedar and pinon pine.
	No undergrowth.
	The west 15.41 chs. is mountainous land; W. slope.
	Soil, poor, talus slope material rocks and boulders.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	Aug. 7, 1911.
	August 4, 1911:
	N.0°03'W. bet. secs. 19 and 20,
	Over mountainous land; through scattering timber; ascend over boulders.
5.00	Bottom of hollow, 150 lks. wide, 20 ft. deep, course E.
	Ascend.
10.35	Top of steep ascent; edge of narrow flat ridge, at foot of mesa wall, 350 ft. high, bears N.20°E. and S.20°W. impossible to continue line farther.
	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock; and raise a mound of stone around post, for witness point, marked W P in center of brass cap; from which
	A cedar, 4 ins.dia.,bears S.73°41'E. 36 lks. dist., marked W P B T
	A pinon pine, 8 ins.dia.bears S.27°28'W. 70 lks. dist., marked W P B T
	Land, mountainous SE. slope.
	Soil, poor, gravelly loam, talus material, stony, large boulders, 6 to 12 ins. deep, on rock subsoil.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	Aug. 4, 1911.

Subdivision of T. 31 S., R. 21 E.

Chains	
	August 5: At 8h 06m a.m.l.m.t., I set off 38°07'N. on the lat. arc; 17°12'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16,17, 20, and 21. Thence I run, knowing that the point for cor. of secs. 17,18,19 and 20 falls in inaccessible mesa,
	West on true line bet. secs. 17 and 20,
	Over mountainous land; through dense sagebrush. Ascend gently.
13.00	Top of ridge, 25 ft. above sec. cor., bearing NW. and SE. Descend abruptly.
14.30	Bottom of hollow, 15 ft. below ridge, course S.
	Ascend abruptly. Enter scattering timber.
24.20	Top of ascent, 250 ft. above sec. cor., edge of mesa, bears N. and S. Ascend gently.
36.00	Rock ravine, 30 lks. wide, 6 ft. deep, course N.30°E. Ascend.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 17 in N. half, and S 20 in S. half; from which A cedar, 8 ins.dia., bears N.60°15'E. 145 lks. dist., marked ¼ S 17 B T A cedar, 8 ins.dia., bears S.54°30'E. 245 lks. dist., marked ¼ S 20 B T
50.50	Begin abrupt ascent of talus slope, bearing N.70°E. and S.70°W.
60.00	Top of ridge, 150 ft. above ¼ sec. cor., bears N. and S. Descend.
65.00	Head of canyon, 25 ft. below ridge, course S.20°E. Ascend abruptly.
75.00	Base of ledge, 400 ft. high, bears NE. and SW., impossible to continue line farther.
	Set an iron post 3 ft. long, 2 ins. in dia., 12 ins. in

Subdivision of T. 31 S.; R. 21 E.

Chains	
	the ground; and raise a mound of stone around post, for witness cor. to cor. of secs. 17,18,19, and 20, marked on brass cap
	T 31 S S 18 in NW.
	R 21 E S 17 in NE.
	S 20 in SE., and S 19 in SW.quadrant, with W C on W. side of cap; from which
	A cedar, 6 ins.dia.,bears N.80°E. 95 lks. dist. marked W C T 31 S R 21 E S 17 B T
	A cedar 4 ins.dia.bears S.43°30'E. 116 lks. dist. marked W C T 31 S R 21 E S 20 B T
	No other bearing trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
80.00	Falls in inaccessible mesa, cor. not set.
	Land, mountainous E. slope.
	Soil, sand and gravelly loam, 6 to 18 ins. deep, on gravel and rock subsoil; dry, rather coarse texture.
	Timber, scattering cedar and pinon pine on W. 61.00 chs.
	August 5, 1911.
	Knowing that the point for cor. of secs. 17,18,19, and 20 falls in inaccessible mesa, I proceed to the cor. of secs. 13,18,19, and 24, on W. bdy. of Tp., heretofore described.
	August 7: At this cor. at 9h 06m a.m.l.m.t., I set off 38°07' on the lat. arc; 16°38'N. on the decl. arc; and determine a meridian with the solar. Thence I run
	East on a true line bet. secs. 18 and 19
	Over mountainous land; through scattering cedar and pinon pine timber; scattering sagebrush and shadscale; ascend abruptly over ledges.
12.00	Top of abrupt ascent; east edge of mesa, 200 ft. above sec. cor., bears NE. and SW.

Subdivision of T. 31 S., R. 21 E.

Chains	
22.80	Top of ridge, 150 ft. above mesa, bears NW. and SE.
	Descend.
26.30	Head of steep hollow, 50 ft. below course NW.
	Ascend abruptly.
35.24	Foot of ledge, 300 ft. vertical, impossible to continue line farther; ledge bears NE. and SW.
	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, surrounded by mound of stone, for witness ¼ sec. cor., marked on brass cap T 31 S R 21 E ¼ S 18 in N. half; S 19 in S. half, with W C in E.half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	Land, mountainous, W. slope.
	Soil, a reddish gravelly loam, 6 to 18 ins. deep, on rock and gravel subsoil; dry, coarse texture.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush and shadscale.

Note: The cor. of secs. 7,8,17 and 18 not having been established, I proceed to the cor. of secs. 7,12,13, and 18 on W. bdy. of Tp., heretofore described.

Aug. 7: At said cor. I set off 16°36'N. on the decl. arc; and at 0h 06m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 36°07'

Thence I run

East on true line bet. secs. 7 and 18,

Over rolling land; through scattering timber and dense sagebrush and shadscale; ascend gently.

7.35	Trail bears N.20°E. and S.20°W.
11.00	Begin ascent of ridge, bears NW. and SE.
18.30	Top of ridge, 30 ft. above sec. cor., bears NW. and SE.
	Descend.
30.00	Foot of ridge, bears NW. and SE. Descend gently.
37.30	Allowing for convergency of meridian,

Subdivision of T. 31 S., R. 21 E.

Chains	
	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 7 in N. half, and S. 18 in S. half; from which
	A cedar, 8 ins.dia.,bears N.85°0'E. 604 lks. dist., marked ¼ S 7 B T
	A cedar 5 ins.dia.,bears S.39°50'W. 177 lks. dist., marked ¼ S 18 B T
39.80	W. edge of wash, in Davis Canyon, 3 ft. high, bears N. 30°E. and SW.
41.50	E. edge of same wash, bank 4 ft. high, bears N.30°E. and S.30°W.
46.00	Top of ridge, 30 ft. high, bears N. and S.
	Descend.
61.70	Wash, 10 lks. wide, 2 ft. deep, course N.20°W.
69.50	Leave rolling land; begin abrupt ascent, over ledges, bearing NE. and SW.
77.30	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, marked on brass cap
	T 31 S S 7 in NW.,
	R 21 E S 8 in NE.
	S 17 in SE., and
	S 18 in SW. quadrant; from which
	A cedar, 8 ins.dia.,bears N.78°00'E. 138 lks. dist., marked T 31 S R 21 E S 8 B T
	A cedar 10 ins.dia.,bears S.56°30'E. 15 lks. dist., marked T 31 S R 21 E S 17 B T
	A cedar 8 ins.dia.,bears N.61°35'W. 96 lks. dist., marked T 31 S R 21 E S 7 B T
	A pinon pine, 7 ins.dia.,bears S.76°30'W., 15 lks. dist., marked T 31 S R 21 E S 18 B T
	Land, rolling NE. slope.
	Soil, sand and gravelly loam, 1 to 3 ft. deep, on gravel subsoil; medium texture.
	Timber, scattering cedar and pinon pine.

Subdivision of T. 31 S., R. 21 E.

Chains	
	Undergrowth, sagebrush, shadscale and some grass.
	August 7, 1911.
	August 8: At 8h 05m a.m.l.m.t., I set off 38°07'N. on the lat. arc; 16°22'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7,8,17 and 18.
	The point for cor. of secs. 17,18,19 and 20 falling in inaccessible mesa, I run from said cor. of secs. 7,8, 17 and 18,
	S.0°03'E.bet. secs. 17 and 18.
	Over mountainous land; through scattering timber and sagebrush; ascending abruptly over ledges.
3.30	Top of ledge, 30 ft. high, east edge of mesa, 100 ft. above sec. cor., bears N.60°E. and S.60°W.; thence over rolling mesa.
14.00	S. edge of mesa; begin abrupt descent, over ledges; bears N.60°W. and S.60°E.
22.60	Bottom of hollow, 200 ft. below mesa, course W. Ascend abruptly over ledges.
32.00	Top of ascent; edge of mesa, 200 ft. above hollow, bears E. and W.; ascend over mesa.
34.00	Leave mesa, bears NE. and SW.
	Begin abrupt ascent over ledges and boulders.
40.00	Point 80 ft. above mesa,
	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, surrounded by mound of stone, for ¼ sec. cor., marked on brass cap ¼ S 18 in W. half; S 17 in E. half; from which
	A sandstone boulder 12 x 12 x 6 ft. bears S.88° 30'E. 23 lks. dist., marked X B O S 17
	A cedar, 6 ins. dia., bears N.37°00'W. 205 lks. dist., marked ¼ S 18 B T
	Ascend abruptly.

Subdivision of T. 31 S., R. 21 E.

Chains	
51.00	Point, 350 ft. above ¼ sec. cor., foot of ledge, 300 ft. high, bears NE. and SW., impossible to surmount.
	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, surrounded by mound of stone, for witness point for cor. of secs. 17,18,19, and 20, marked W P in center of brass cap; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, mountainous W. slope.
	Soil, poor, gravelly loam, 3 to 12 ins. deep, on rock subsoil; dry, coarse texture.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	Knowing that inaccessible mesa intersects line bet. secs. 8 and 17,
	August 5, 1911, from the cor. of secs. 8,9,16, and 17, I run
	West on true line bet. secs. 8 and 17,
	Over mountainous land; through scattering timber and sagebrush; descend gently.
2.30	Bottom of hollow, 10 ft. below sec. cor., course S.40°E.
	Ascend.
12.50	Top of ridge, 75 ft. above hollow, bears E. and W.
	Ascend gently.
15.50	Foot of ledge, 300 ft. high, bears N.20°E. and S.20°W.
	Impossible to continue line; therefore
	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, surrounded by mound of stone for witness point, marked on brass cap W P in center; raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	August 8, 1911: From the cor. of secs. 7,8,17, and 18, I run
	East on true line bet. secs. 8 and 17,

Chains	
	Over mountainous land; through scattering timber, sage-brush and shadscale; ascend abruptly over ledges.
12.00	E. edge of mesa, 200 ft. above sec. cor., bears NE. and S.80°W.
	Ascend gently.
14.00	Begin abrupt ascent of mountain, over boulders and ledges bearing NE. and SW.
22.80	Top of ridge, 150 ft. above mesa, bears NW. and SE.
	Descend:
26.30	Head of steep hollow, 50 ft. below ridge, course NW.
	Ascend abruptly.
35.24	Foot of ledge, 300 ft. high, vertical, bears NE. and SW. impossible to continue line farther; therefore
	Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, to solid rock, surrounded by mound of stone for witness ¼ sec. cor., marked on brass cap T 31 S R 21 E ¼ S 8 in N. half, S 17 in S. half, with W C near E. edge; raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	Aug. 8: At 0h 05m p.m.l.m.t., I set off 16°19'N. on the decl. arc; and at this point observe the sun on the meridian; the resulting lat. is 38°07'
	E. 15.50 chs. mountainous E. slope.
	Soil, poor, gravelly loam, talus material, stony, 6 to 12 ins. deep, on bed.rock.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	W. 35.24 chs., mountainous W. slope.
	Soil, poor gravelly loam, 6 to 12 ins. deep, on rock subsoil; dry, coarse texture.
	Timber, scattering cedar and pinon pine.
	Undergrowth, scattering sagebrush.
	August 8: At 3h 05m p.m.l.m.t., I set off 38°07' on the lat. arc; 16°17'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7,8,17,

Subdivision of T. 31 S., R. 21 E.

Chains	
	and 18. Thence I run
	N.0°03'W. bet. secs. 7 and 8,
	Over mountainous land; through scattering timber, dense shadscale, sagebrush and good grass. Descend abruptly over ledges and boulders.
6.00	Foot of steep descent, 100 ft. below sec. cor. bearing N. 20°E. and S.60°W. Leave scattering timber, bears same. Descend gently.
40.00	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 7 on W. half, and S 8 on 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.
51.40	E. bank of wash, in bottom of Davis Canyon, bears NE. and 30°W.
52.10	Center of Davis Canyon Wash, course NE.
52.70	W. bank of same wash, 4 ft. high bears NE. and S.30°W.
66.10	Wash, 20 lks. wide, 3 ft. deep, course N.70°E.
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, marked on brass cap,
	T 31 S S 6 in NW.
	R 21 E S 5 in NE.
	S 8 in SE.; and
	S 7 in SW. quadrant; 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.
	S. 6.00 chs. mountainous land, NW. slope.
	Soil, gravelly loam, of medium quality, 6 to 18 ins. deep, on bed rock.
	Timber, scattering cedar and pinon pine.
	Undergrowth, sagebrush, shadscale and grass.
	N. 74.00 chs. rolling land; gentle NE. slope.
	Soil, sandy loam, with some clay, 1 to 3 ft. deep, on gravel subsoil; medium moist, medium texture.
	Undergrowth, dense sagebrush, shadscale and good

Subdivision of T. 31 S.; R. 21 E.

Chains	
	thrifty grass, affording good grazing.
	No timber.
	August 8, 1911.
	August 9: At 8h 05m.a.m.l.mt., I set off 38°09' on the lat. arc; 16°05'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5,6, 7 and 8. Thence I run
	East on a random line bet. secs. 5 and 8,
40.00	Set temp. ¼ sec. cor.
79.85	Intersect N. and S. line 5 lks. N. of cor. of secs. 4, 5,8, and 9. Thence I run
	N.89°58'W. on a true line bet.secs. 5 and 8,
	Over mountainous land; through scattering timber, dense sagebrush and shadscale; descend abruptly.
3.00	Ledge, 10 ft. high, bears N.20°E. and S.20°W.
9.00	Leave ledges, foot of abrupt descent, bears NE. and SE.
	Leave scattering timber bears same. Descend gently, over rolling land, in bottom of Davis Canyon.
25.00	Wash, 10 lks. wide, 2 ft. deep, course N.30°W.
32.60	Trail, bears NE. and SW.
38.90	Trail, bears NE. and SW.
39.925	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 5 on N. half, and S 8 on S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
42.00	Trail, bears N.30°E. and S.30°W.
56.40	East bank of Davis Canyon Wash, 3 ft. high, bears N.30° E. and S.30°W.
58.80	W. bank of same wash, 4 ft. high, bears N.30°E. and S. 30°W.
63.00	Top of gentle ascent, bears N.30°E. and S.30°W.
	Descend gently.
68.00	Head of small swale, course N.30°E. Ascend gently.

Subdivision of T. 31 S., R. 21 E.

Chains	
79.85	The cor. of secs. 5,6,7, and 8.
	Land, rolling, northerly slope.
	Soil, sandy loam, with some clay, 1 to 3 ft. deep on gravel and sand subsoil; medium texture, medium moist.
	Timber, E. 9.00 chs. scattering cedar and pinon pine.
	Undergrowth, sagebrush, shadscale, and good grass in patches.
	West on a random line bet.secs. 6 and 7,
40.00	Set temp. ¼ sec. cor.
77.39	Intersect W. bdy. of Tp. 5 lks. S. of cor. of secs. 1, 6,7, and 12, heretofore described. Thence I run S.89°58'E. on a true line bet.secs. 6 and 7,
	Over rolling land; through dense sagebrush, shadscale, and scattering timber; descend gently.
5.50	Leave scattering timber, bears N. and S.
15.60	Wash, 10 lks. wide, 2 ft. deep, course SE.
37.39	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 6 on N. half, S 7 on S. half; from which
	A cedar, 16 ins.dia.bears S.25°30'W. 298 lks. dist., marked ¼ S 7 B T
	No other bearing trees within limits; dig pits 18 x 18 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.
	North Six Shooter Peak bears N.16°35'W.
	South Six Shooter Peak bears N.13°30'E.
42.80	Wash, 10 lks. wide, 4 ft. deep, course NE.
49.40	Wash, 10 lks. wide, 2 ft. deep, course NE.
	Ascend gently.
61.40	Top of gentle ascent, bears NE. and SW.
	Descend gently.
77.39	The cor. of secs. 5,6,7, and 8.
	Land, gently rolling E. slope.

Subdivision of T. 31 S., R. 21 E.

Chains	
	Soil, good sandy loam, with some clay, 1 to 3 ft. deep, on sand and gravel subsoil; medium texture, medium moist.
	Timber, W. 6½ chs. scattering cedar and pinon pine.
	Undergrowth, dense sagebrush and shadscale, with some grass.
	Aug 9: At this cor. I set off 16°02'N. on the decl. arc, and at 0 h 05m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°08' very nearly.
	N.0°03'W.bet.secs. 5 and 6,
	Over rolling land; through dense sagebrush and shadscale; descend gently.
30.50	Wash, 50 lks. wide, 3 ft. deep, course E.
	Ascend gently.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 6 in W. half, S 5 in E. half; from which
	A red sandstone ledge bears N.55°11'W. 110 lks. dist., marked + B O S 6
	raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
42.60	Begin abrupt ascent over ledges and boulders; leave rolling land in Davis Canyon, bears N.20°E. and S.20° W.
54.00	Top of abrupt ascent; edge of mesa, 300 ft. above ¼ sec. cor., bears N.50°E. and S.40°W. Thence over rolling mesa. Enter scattering timber.
66.00	Rock ravine, 50 lks. wide, 6 ft. deep, course S.60°E.
91.60	N. edge of mesa; begin abrupt descent over ledges and boulders, bearing N.70°W. and S.80°E.
105.90	Foot of abrupt descent, 300 ft. below top, bears N.80°W. and S.80°E.
121.45	Intersect Sixth Standard Parallel South, 22.68 chs. E.

Subdivision of T. 31 S., R. 21 E.

Chains

of the re-established 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, marked on brass cap

C C T 30 S R 21 E S 31 S 32 in N. half;

S 5 in SE., and

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.

S. 42.00 chs. gently rolling land, NE. slope.

Soil, good sandy loam with some clay, 1 to 3 ft. deep, on gravel subsoil; medium moist.

Undergrowth, dense sagebrush, shadscale, and some grass in patches. No timber.

N.79.45 chs. mountainous mesa land, E. slope.

Soil, a poor, gravelly loam, 3 to 14 ins. deep, on bedrock; dry, coarse texture; stony.

Timber, scattering cedar and pinon pine.

Undergrowth, scattering sagebrush and shadscale.

Aug. 9, 1911.

Scott P. Stewart

U. S. Transitman.

GENERAL DESCRIPTION.

This township contains nearly every variety of land, from gently rolling, to rough, mountainous. The soil of the bottom land, along Indian and Cottonwood creeks, as well as that in Davis Canyon, is generally a good, sandy, or clay loam, or a mixture of both; and capable of producing abundant crops, with irrigation. The soil in Lavender Canyon, however, shows traces of

alkali, especially so in secs. 9 and 10, where it is plainly exposed in a salt seep in Lavender Canyon Wash. The soil in the remaining portion of the township, may be classed as mountainous, mesa land, a great portion of which is much broken.

There is one mesa in the western part of the township, which is inaccessible, being surrounded by vertical ledges, varying from 300 to 500 ft. in height.

The Bridger Jack Mesa, and the mesa in the NE. portion of the Tp. are very much of the same order, though they can, however, be surmounted; they project about 1200 ft. above the surrounding canyon bottom land.

Cedar and pinon pine timber are found on all the mesa portions of this township; and cottonwoods are scattered along Indian and Cottonwood creeks. There is, however, no timber of commercial value. Scattering sagebrush and a little bunch grass constitute the undergrowth of the mesa land. Sagebrush, greasewood, shadscale and grass are found in the low land or canyon bottoms. Davis Canyon, especially, affords a good nutritious grass, which grows in large patches.

This township is well watered, that is, the land which is fit for cultivation, except Davis Canyon bottom, which is dry. Water can be diverted from Indian and Cottonwood creeks, and can be used to irrigate the bottom land in these two canyons.

Vincent P. Martin's Desert Entry claim is located in the northern portion of sec. 14, principally in the NE ¼. About 20 acres is under cultivation, and grows corn, poor stand, due to lack of water and care. About one-half of the cornfield extends into sec. 11; the ¼ sec. cor. between secs. 11 and 14 is nearly in the center of the field. There are no improvements in way of houses, corrals, or fencing.

General Description T. 31 S., R. 21 E.

David M. Cooper's D. E. claim is located in the NW. ¼ sec. 24. There is about 75 acres of good alfalfa, about 15 acres of good meadow, which is used for pasture; about 1½ acres of orchard, chiefly apples and peaches, in a thrifty condition. A portion of the alfalfa extends into the SW. portion of the NE ¼ of sec. 24. His improvements consist of 2 log cabins, hen-coops, sheds, stable, corrals, two hay derricks, and barb wire fencing; total estimated value about $600.00. This is known as the Dugout Ranch.

Joseph Davis, a settler, is located in the SE. ¼ of sec. 24. He has about 40 acres of alfalfa, about 30 acres planted in corn and melons; and about 2 acres orchard and garden truck, all of which is in a thrifty condition. Water is used from Indian Creek on this ranch, as well as the Dugout Ranch. His improvements consist of a good log house, one log cabin, used for a shop and hen-coop, stable, one corn-crib, wagon-shed, corral, one surface well, 30 ft. deep, rock lined, in which stands 10 ft. of good water; good barb wire and pole fencing around the greater part of his ranch. It may be said of this man that he is a first class, bona fide settler. Total estimated improvements about $550.00.

There is some land, which extends from T.31 S., R.22 E. into secs. 25 and 36, which is under cultivation; about 10 acres in sec. 36, and about 20 acres in sec. 25, and is a part of Titus' land.

Note: David M. Cooper, Vincent P. Martin and Titus, who owns the ranch at Carlisle, with other men from Moab, Utah, organized a company some time ago, known as the Indian Creek Cattle Company, and these three ranches are operated by this company.

We found no trace of mineral in this township.

Scott P. Stewart
Eric H. Anderson
U. S. Transitmen.

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Page

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 ated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of Assistants see book "M" T.33 S , R.21 E.

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

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

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

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

.....

6—2761 *U. S. Surveyor.*

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ....., 191 , I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oaths of transitmen see book "M" T.33 S., R.21 E.

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

.....
U. S. Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 28, 1914.

The foregoing field notes of the survey of the subdivisional lines of Township No.31 South, Range No.21 East of the Salt Lake Base and Meridian, Utah

executed by Scott P.Stewart and Eric H.Anderson under ~~his~~ their special instructions dated March 27, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

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

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

6—2761

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Filed Dec.11, 1911.
WSH.

4—070

BOOK A-388
4
Z

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP 32 SOUTH, RANGE 10 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. ~~Surveyor~~ Transitmen, *under instructions dated* Aug.6, *1910,*

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

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

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

gress dated ....., *191*....

Survey commenced April 20, *191*1

Survey completed May 3, *191*1.

6—151

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-388

INDEX DIAGRAM.

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

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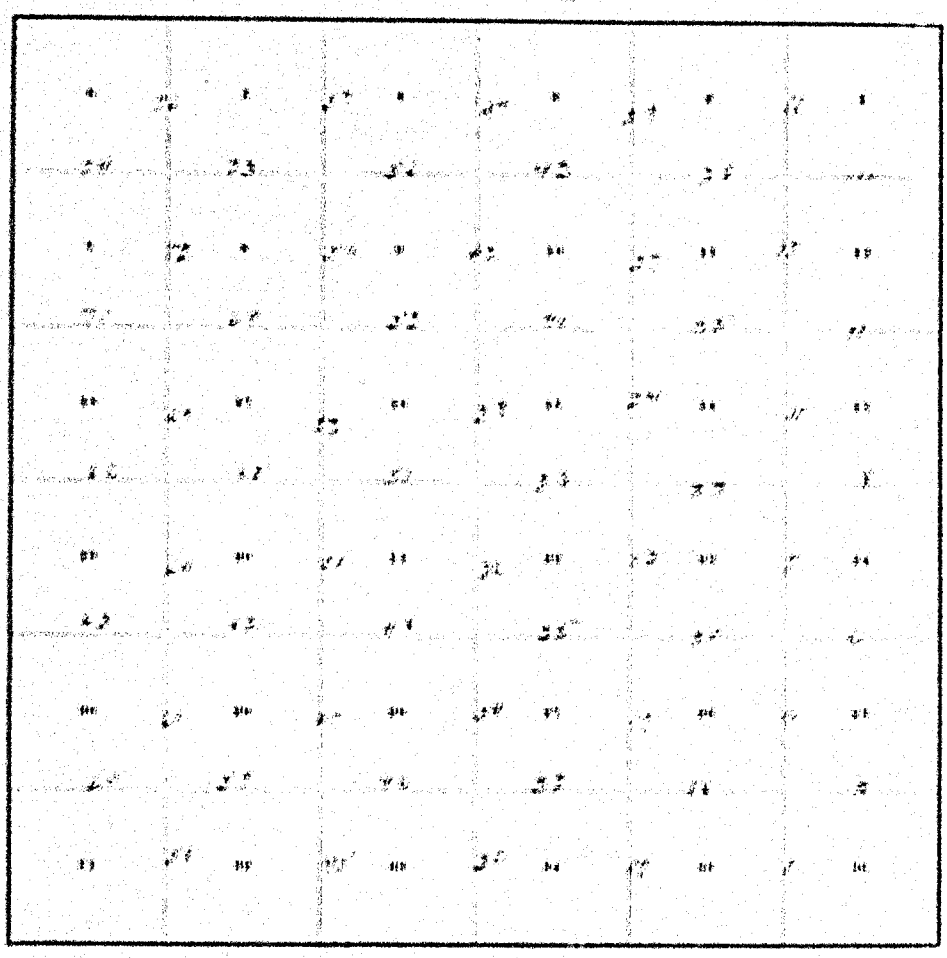
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6—151

BOOK A-388

INDEX DIAGRAM.

Township 32 South, Range 10 West



Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

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

..... *Chainm*

..... *Chainm*

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 establishn
of corners, according to the instructions given us, to the best of our skill and ability, in the surve
.....

..... *Moundm*

..... *Moundm*

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 cor
and other duties, according to instructions given us, to the best of our skill and ability, in the surve
.....

..... *Axm*

..... *Axm*

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

SEAL

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

..... *Flagm*

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

SEAL

Subdivision T. 32 S., R. 10 W.

Chains	
	Survey commenced Apr. 20, 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 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 March 20, 1911.
	Note: For test of instrument, see notes of Boundaries this Township.
	April 20, 1911: At 7h 59m a.m., l.m.t., I set off 37°59' N. on the lat. arc; 11°18'N. on the decl. arc; and determine a meridian with the solar, on the S. Bdy. at the cor. of secs. 1, 2, 35 and 36, heretofore described.
	Thence I run
	N.0°01'W. bet. secs. 35 and 36.
	Over mountainous country; through cedar and pinon pine timber and sagebrush.
	Desc.
21.00	Leave timber, bears E. and W.
22.50	Foot of desc. 300 ft. below cor., bears E. and W.
	Asc. gradually.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground on solid rock surrounded by a mound of earth, for ¼ sec. cor. mkd. on brass cap ¼ S 35 in W. half and S 36 in E. half; dig pits 18 x 18 x 12 in. N. and S. of post, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
60.00	Enter scattering cedar and pinon pine timber, bears NW. and SE.
78.00	Top of ridge, 280 ft. above foot of desc., bears NE. and SW.

Subdivision T. 32 S., R. 10 W.

Chains	
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. 25, 26, 35 and 36, mkd. on brass cap T 32 S S 26 in N.W. R 10 W S 25 in N E S 26 in S E and S 35 in S W quadrants; from which A pinon pine, 10 ins. in dia., bears N.0°30'E., 203 lks. dist., mkd. T 32 S R 10 W S 25 B T A cedar, 8 ins. in dia., bears S.87°E. 133 lks. dist., mkd. T 32 S R 10 W S 36 B T A pinon pine, 10 ins. in dia., bears S.70°W. 119 lks. dist., mkd. T 32 S R 10 W S 35 B T A pinon pine, 12 ins. in dia., bears N.40°W., 169 lks. dist., mkd. T 32 S R 10 W S 26 B T Land, rolling mountainous, slopes east and west from line. Soil, rich sandy loam, 12 ins. deep. Subsoil gravel. Timber, cedar and pinon pine. Undergrowth, sage. Good grass for grazing. Rolling mountainous land covered with timber or dense sage, 80.00 chs. Apr. 20, 1911.
	East, on a random line bet. secs. 25 and 36.
40.00	Set temp. ½ sec. cor.
80.02	The cor. of secs. 25, 30, 31 and 36, heretofore described, on E. Bdy. of Tp.
	Thence I run
	West on a true line bet. secs. 25 and 36.
	Over mountainous country; through dense sage. Asc.

Chains	
22.00	Top of ridge, 50 ft. above cor., bears NE. and SW.
	Desc.
35.70	Bottom of hollow, 100 ft. below ridge, course SW.
	Asc.
40.01	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in ground, for ¼ sec. cor. mkd. on brass cap ¼ S 25 in N. half and S 36 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	Old road, bears N.20°E. and S.20°W.
68.00	Top of ridge, 140 ft. above hollow, bears NE. and SW.
80.02	The cor. of secs. 25, 26, 35 and 36.
	Land, rolling mountainous, slopes southerly.
	Soil, sandy loam.
	Subsoil gravel.
	Timber, none.
	Undergrowth, sage.
	Good grass for grazing.
	Rolling mountainous land, covered with dense sage, 80.02 chs.
	Apr. 20, 1911.

	N.0°01'W. bet. 25 and 26.
	Over mountainous country; through heavy cedar and pinon pine timber, and sagebrush.
	Desc.
7.80	Bottom of swale, 40 ft. below cor., course S.80°W.
	Asc.
13.00	Top of ridge, 70 ft. above swale, bears N.75°E. and S. 75°W.
	Desc.
26.00	Bottom of swale, 75 ft. below ridge, course S.75°W.
	Asc.
29.00	Top of spur, 90 ft. above swale, bears NE. and SW.
	Desc.

Chains	
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 ¼ sec. cor., mkd. on brass cap ¼ S 26 in W. half and S 25 in E. half, from which A cedar, 14 ins. in dia., bears S.40°E., 86 lks. dist., mkd. ¼ S 25 B T; and raised a mound of stone, 2 ft. base and 1½ ft. high W. of cor. No other bearing trees within limits.
45.60	Bottom of swale, 50 ft. below spur, course SW.
	Asc.
62.00	Top of ridge, 160 ft. above swale, bears NE. and SW.
	Desc.
80.00	140 ft. below ridge. Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground on solid rock, surrounded by mound of earth and stone, for cor. of secs. 23, 24, 25 and 26, mkd. on brass cap T 32 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 cedar, 5 ins. in dia., bears N.67°E., 140 lks. dist., mkd. T 32 S R 10 W S 24 B T A cedar, 7 ins. in dia., bears S.49°E., 170 lks. dist., mkd. T 32 S R 10 W S 25 B T A pinon pine, 10 ins. in dia., bears S.5°W. 300 lks. dist., mkd. T 32 S R 10 W S 26 B T and raised a mound of stone, 2 ft. base and 1½ ft. high W. of cor. No other bearing trees within limits. Land, mountainous. Soil, sandy loam. Subsoil, clay. Timber, cedar and pinon pine. Undergrowth, sage. No grass.

Chains	
	Mountainous land, or land heavily timbered, 80.00 chs.
	April 20, 1911: At this cor. I set off 11°21'N. on the decl. arc; and at 11h 59m 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.
80.04	Fall 2½ lks. S. of cor. of secs. 19, 24, 25 and 30, heretofore described.
	Thence I run on true line,
	S.89°59'W. bet. secs. 24 and 25.
	Over rough mountainous country; through heavy cedar and pinon pine timber and sagebrush.
3.50	Ridge, brs. N. & S.
10.00	Wash, course S.
18.80	Top of spur, 40 ft. above cor., bears N. and S. Desc.
22.90	Bottom of swale, 40 ft. below spur, course S. Asc.
30.00	Top of ridge, 180 ft. above swale, bears N.25°E. and S. 25°W.
	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 24 in N. half and S 25 in S. half, from which
	A pinon pine, 11 ins. in dia., bears N.41°30'E. 58 lks. dist., mkd. ¼ S 24 B T
	A cedar, 8 ins. in dia., bears S.24°30'E. 51 lks. dist., mkd. ¼ S 25 B T
61.50	Bottom of swale, 70 ft. below ridge, course SW.
	Asc.
69.00	Top of ridge, 100 ft. above swale, bears NE. and SW.
	Desc.
80.04	The cor. of secs. 23, 24, 25 and 26.
	Land, rough mountainous; slopes southwesterly.
	Soil, sandy.

Chains	
	Subsoil, clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	No grass.
	Mountainous land, heavily timbered, 80.04 chs.
	N.0°01'W. bet. secs. 23 and 24.
	Over rolling mountainous country; through dense sage-brush.
	Desc.
2.65	Bottom of swale, 35 ft. below cor., course SW.
	Asc. gradually.
39.50	Old road, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., mkd. on brass cap, ¼ S 23 in W. half and S 24 in E. half; dig pits, 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist., and raise mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
50.25	Enter heavy cedar and pinon pine timber, bears SW. and E.
50.35	Top of ridge, 100 ft. above swale, bears NE. and SW.
	Desc.
68.20	Bottom of swale, 40 ft. below ridge, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, on solid rock, surrounded by a mound of earth and stone, for cor. of secs. 13, 14, 23 and 24, mkd. on brass cap T 32 S S 14 in NW R 10 W S 13 in NE S 24 in SE and S 23 in S W quadrants; from which A cedar, 16 ins. in dia., bears N.46°E. 8 lks. dist., mkd. T 32 S R 10 W S 13 B T A cedar, 12 ins. in dia., bears S.51°E. 29 lks. dist., mkd. T 32 S R 10 W S 24 B T

Subdivision T. 32 S.R. 10 W.

Chains	
	A cedar, 13 ins. in dia., bears S.57°W. 22 lks. dist., mkd. T 32 S R 10 W S 23 B T
	A cedar, 14 ins. in dia., bears N.40°W., 5 lks. dist., mkd. T 32 S R 10 W S 14 B T
	Land, rolling mountainous; slopes southwesterly.
	Soil, sandy.
	Subsoil gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	No grass.
	Rolling mountainous land covered with timber or dense sagebrush, 80.00 chs.
	N.89°59'E. on a random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.02	Falls 9 lks. N. of cor. of secs. 13, 18, 19 and 24, heretofore described, on E. bdy. of Tp.
	Thence I run
	N.89°57'W. bet. secs. 13 and 24.
	Over mountainous country; through scattering cedar and pinon pine timber and dense sagebrush.
	Asc.
25.00	Top of spur, 70 ft. above cor., bears NW. and SE.
	Leave scattering timber, bears N. and S.
	Desc.
35.40	Bottom of hollow, 70 ft. below spur, course S.
	Asc.
40.01	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, surrounded by a mound of earth for ¼ sec. cor., mkd. on brass cap ¼ S 13 in N. half and S 24 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.
40.45	Old road, bears NE. and SW.
50.00	Enter heavy cedar and pinon pine timber, bears NE. and SW.

Chains

61.00 Top of ridge, 700 ft. above hollow, bears N.40°E. and S.40°W.

Desc.

70.80 Bottom of swale, 100 ft. below ridge, course S.40°W.

Asc.

80.02 30 ft. above swale,

The cor. of secs. 13, 14, 23 and 24.

Land, mountainous; slopes and drains SW.

Soil, clay loam, mixed with gravel; 2nd rate, medium texture.

Subsoil, hard clay.

Timber, cedar and pinon pine.

Undergrowth, sagebrush.

No grass.

Mountainous land covered with heavy timber or dense sagebrush, 80.02 chs.

Apr. 20, 1911.

Lindley Stewart

Instrumentman, G.L.O.

Apr. 21, 1911: At 7h 59m a.m.l.m.t., I set off 38°02'N. on the lat. arc; 11°38'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 rolling mountainous country; through heavy cedar and pinon pine timber and sagebrush.

Asc. gradually.

25.00 Top of ridge, 40 ft. above cor., bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 17 ins. in the ground, on solid rock, surrounded by 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 cedar, 12 ins. in dia., bears S.4°E. 3 lks. dist

Chains	
	mkd. ¼ S 13 B T
	A cedar, 7 ins. in dia., bears N.27°W. 40 lks. dist., mkd. ¼ S 14 B T
41.00	Bottom of swale, 150 ft. below ridge, course S.50°W. Asc.
48.50	Top of spur, 75 ft. above swale, bears N.50°E. and S.50° W. Desc.
59.00	Leave heavy timber; enter scattering timber, bears N.30° E. and S.30°W.
63.40	Bottom of hollow, 150 ft. below spur, course S.30°W. Asc.
73.40	Top of asc. 100 ft. above hollow, bears N.10°E. and S. 30°W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, to solid rock, surrounded by mound of earth and stone, for cor. of secs. 11, 12, 13 and 14 mkd. on brass cap T 32 S S 11 in N W R 10 W S 12 in N E S 13 in S E and S 14 in S W quadrants; raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling mountainous, slopes southwesterly.
	Soil, sandy loam, 6 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	No grass.
	Mountainous land or land heavily timbered 80.00 chs.
	Apr. 21, 1911.
	S.89°57'E. on a random line bet. secs. 12, and 13.
40.00	Set temp. ¼ sec. cor.
80.06	Fall, 2 lks. N. of cor. of secs. 7, 12, 13 and 18 heretofore described, on E. Bdy. of Tp.

Chains	
	Thence I run
	N.89°56'W. on a true line bet. secs. 12 and 13.
	Over rolling mountainous country; through scattering cedar and pinon pine timber and dense sagebrush.
	Asc.
13.70	Top of ridge, 100 ft. above cor., bears N.30°E. and S. 30°W.
	Desc.
18.20	Bottom of swale, 100 ft. below ridge, course S.30°W.
	Asc.
34.00	Top of ridge, 150 ft. above swale, bears NE. and SW.
	Desc. gradually.
40.03	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 12 in N. half and S 13 in S. half, from which
	A cedar, 8 ins. in dia., bears S.50°W., 36 lks. dist., mkd. ¼ S 13 B T
	A cedar, 7 ins. in dia., bears N.80°W. 18 lks. dist., mkd. ¼ S 12 B T
72.00	Bottom of hollow, 75 ft. below ridge, course SE.
	Asc.
78.40	Top of asc. enter bench, bears NW. and SE.
80.06	The cor. of secs. 11, 12, 13 and 14.
	Land, rolling mountainous, slopes and drains southerly.
	Soil, sandy loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land, or land covered with timber, 80.06 chs.
	Apr. 21, 1911.

N.0°01'W. bet. secs. 11 and 12.

Subdivision T. 32 S., R. 10 W.

Chains	
	Over rolling mountainous country; through scattering cedar and pinon pine timber and dense sagebrush.
	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 ¼ sec. cor. mkd. on brass cap; ¼ S 11 in W. half and S 12 in E. half, from which
	A cedar, 5 ins. in dia., bears S.70°E., 7 lks. dist., mkd. ¼ S 12 B T
	A cedar, 6 ins. in dia., bears N.24°W., 32 lks. dist., mkd. ¼ S 11 B T
	Apr. 21, 1911: At this cor. I set off 11°41'N. on the decl. arc; and at 11h 59m 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.
80.00	300 ft. above hollow,
	Set an iron post, 3 ft. long, 2 ins. in dia., 17 ins. in the ground, on rock, surrounded by a mound of earth and stone for cor. of secs. 1, 2, 11 and 12, mkd. on brass cap
	T 32 S S 2 in N W
	R 10 W S 1 in N E
	S 12 in S E. and
	S 11 in S W. quadrants; from which
	A cedar, 12 ins. in dia., bears N.1°E. 135 lks. dist., mkd. T 32 S R 10 W S 1 B T
	A cedar, 8 ins. in dia.,bears S.13°E.,22 lks. dist., mkd. T 32 S R 10 W S 12 B T
	A cedar 10 ins. in dia.,bears S.10°W., 84 lks. dist., mkd. T 32 S R 10 W S 11 B T
	A cedar, 9 ins. in dia.,bears N.86°W., 104 lks. dist., mkd. T 32 S R 10 W S 2 B T
	Land, rolling mountainous
	Soil, sand and clay.
	Subsoil,clay.
	Timber, cedar and pinon pine.

Chains	
	Undergrowth, sage.
	No grass.
	Rolling mountainous land covered with timber, 80.00 chs.
	Apr. 21, 1911.
	S.89°56'E. on a random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec.cor.
80.02	Fall 14 lks. N. of cor. of secs. 1, 6, 7 and 12, heretofore described, on E. bdy. of Tp.
	Thence I run
	N.89°50'W. on a true line bet. secs. 1 and 12.
	Over rolling mountainous country; through scattering cedar and pinon pine timber and sagebrush.
	Asc.
15.50	Top of ridge, 300 ft. above cor., bears N.30°E. and S.30° W. Desc.
27.00	Bottom of hollow, 250 ft. below ridge, course S.35°W.
	Asc.
40.01	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 cedar, 7 ins. in dia., bears N.52°W. 191 lks. dist., mkd. ¼ S 1 B T
	A cedar, 5 ins. in dia., bears S.30°E. 109 lks. dist., mkd. ¼ S 12 B T
49.00	Top of spur, 150 ft. above hollow, bears N.30°E. and S.30°W.
	Desc.
53.30	Bottom of swale, 150 ft. below spur, course S.
	Asc.
80.02	The cor. of secs. 1, 2, 11 and 12.
	Land, rolling mountainous, slopes and drains southerly.
	Soil, sandy loam.
	Subsoil, clay.

Subdivision T. 32 S., R. 10 W.

Chains	
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land covered with timber, 80.02 chs.
	Apr. 21, 1911.
	N.0°01'W. on a random line bet. secs. 1 and 2.
40.00	Set temp. ¼ sec. cor.
85.87	Intersect N. bdy. of Tp. 7 lks. E. of cor. of secs. 1, 2, 35 and 36 heretofore described.
	Thence I run
	S.0°04'E. on a true line bet. secs. 1 and 2.
	Over rolling mountainous country; through heavy cedar and pinon pine timber and sagebrush.
45.87	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 ¼ sec. cor., mkd. on brass cap; ¼ S 2 in W. half and S 1 in E. half, from which
	A cedar, 7 ins. in dia., bears N.4°E., 188 lks. dist., mkd. ¼ S 1 B T
	A cedar, 12 ins. in dia., bears N.14°W. 284 lks. dist., mkd. ¼ S 2 B T
85.87	The cor. of secs. 1, 2, 11 and 12.
	Land, bench, slopes and drains southerly.
	Soil, sandy loam, well mixed with gravel.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Bench land, covered with heavy timber, 85.87 chs.
	Apr. 21, 1911.
	Lumby Stewart
	Instrumentman G. L. O.

Chains	
	April 22, 1911: At 7h 59m a.m.l.m.t., I set off 37°59'N. on the lat. arc; 11°59'N. on the decl. arc; and determine a meridian with the solar, on the S. bdy. of Tp. 32 S., R. 10 W. at the cor. of secs. 2, 3, 34 and 35, heretofore described.
	Thence I run
	N.0°01'W. on a true line bet. secs. 34 and 35.
	Over mesa land; 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 for ¼ sec. cor., mkd. on brass cap; ¼ S 34 in W. half and S 35 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	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 cor. of secs. 26, 27, 34 and 35, mkd. on brass cap T 32 S S 27 in N W R 10 W S 26 in N E. 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, nearly level mesa.
	Soil, sandy loam, 2nd rate, well mixed with shale.
	Subsoil, shale formation.
	Timber, none.
	Undergrowth, sage.
	No grass.
	Mesa land or land covered with sagebrush, 80.00 chs.
	Apr. 22, 1911.
	East on a random line bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
79.94	Fall 3 lks. S. of cor. of secs. 25, 26, 35 and 36.
	Thence I run

Chains	
	S.89°59'W. on a true line bet. secs. 26 and 35.
	Over rolling mountainous country; through pinon pine timber and dense sagebrush.
	Desc.
15.00	Leave timber, bears N.20°E. and S.20°W.
37.50	Bottom of hollow, 100 ft. below cor., course S.15°W.
	Asc.
39.97	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on rock, surrounded by mound of earth and stone, 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.
79.94	The cor. of secs. 26, 27, 34 and 35.
	Land, rolling mountainous.
	Soil, sandy loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, pinon pine.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land or land covered with timber or brush, 79.94 chs.
	Apr. 22, 1911: At this cor. I set off 12°01'N. on the decl. arc; and at 11h 59m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°00', which is the proper lat. nearly.

	N.0°01'W. bet. secs. 26 and 27.
	Over rolling mountainous country; through dense sagebrush.
6.00	Old road, bears N.30°E. and S.30°W.
20.00	Desc. bears N.30°E. and S.30°W.
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, for ¼ sec. cor., mkd. on brass cap, ¼ S 27 in W. half and S. 26 in E. half; dig pits 18 x 18 x 12 ins. N.

Chains

and S. of post, 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

52.20 Bottom of hollow, 70 ft. below cor., course S.20°W.

Asc.

55.00 Top of spur, 60 ft. above hollow, bears N.20°W. and S. 20°E.

Desc.

62.00 Bottom of hollow, 50 ft. below spur, course S.10°E. and bears N.

Continue asc. in hollow.

66.90 Leave hollow, course S. and bears N. W.

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

T 32 S S 22 in NW
R 10 W S 23 in N E
S 26 in S E. and
S 27 in S W. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.

Land, rolling mountainous.

Soil, sandy loam.

Subsoil, gravel.

Timber, none.

Very little grass.

Rolling mountainous land covered with dense sagebrush, 80.00 chs.

Apr. 22, 1911.

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

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line, 9 lks. N. of cor. of secs. 23, 24, 25 and 26.

Thence I run

N.89°57'W. on a true line bet. secs. 23 and 26.

Subdivision T. 32 S., R. 10 W.

Chains	
	Over rolling mountainous country; through dense sage-brush.
	Desc.
1.90	Bottom of swale, 50 ft. below cor., course SW.
	Asc.
22.00	Top of ridge, 75 ft. above swale, bears NE. and SW.
	Desc.
23.45	Old road, bears NE. and SW.
36.75	Bottom of swale, 70 ft. below ridge, course SW.
	Enter scattering timber, bears NE. and SW.
	Asc. gradually.
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 23 in N. half and S 26 in S. half, from which
	A cedar, 7 ins. in dia., bears N.67°30'W. 55 lks. dist., mkd. ¼ S 23 B T
	A cedar, 7 ins. in dia., bears S.67°E. 162 lks. dist., mkd. ¼ S 26 B T
51.00	Enter heavy timber, bears NE. and SW.
56.00	Top of ridge, 90 ft. above swale, bears NE. and SW.
	Desc.
61.00	Leave timber, bears NE. and SW.
66.50	Bottom of hollow, 120 ft. below ridge, course SW. Asc.
71.00	Top of asc. bears NE. and SW.
	Enter flat.
80.00	The cor. of secs. 22, 23, 26 and 27.
	Land, rolling mountainous, slopes southerly.
	Soil, sand and clay, well mixed with cobble rock.
	Subsoil, gravel and clay.
	Timber, cedar and pinon pine.
	A little grass.
	Mountainous land, or land covered with timber, 80.00 chs.
	Apr. 22, 1911.

Subdivision T. 32 S., R. 10 W.

Chains	
	N.0°01'W. bet. secs. 22 and 23.
	Over rolling mountainous country; through dense sagebrush.
	Asc.
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 22 in W. half, and S 23 in E. half and raise a mound of stone 2 ft. base and 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 22 ins. in the ground, on solid rock, surrounded by a mound of earth and stone for cor. of secs. 14, 15, 22 and 23, mkd. on brass cap.
	T 32 S S 15 in N W
	R 10 W S 14 in N E
	S 23 in S E and
	S 22 in S W. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling mountainous, slopes and drains southerly.
	Soil, sand and black loam.
	Subsoil, clay.
	Timber, none.
	Undergrowth, sage.
	Little or no grass.
	Rolling mountainous land covered with dense sage, 80.00 chs.
	Apr. 22, 1911.
	Quimby Stewart.
	Instrumentman G.L.O.

April 24, 1911: At 7h 58m a.m., 1 m.t., I set off 38° 02'N. on the lat. arc; 12°39'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

S.89°57'E. on a random line bet. secs. 14 and 23.

Chains	
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, 2 lks. N. of cor. of secs. 13, 14, 23 and 24.
	Thence I run on true line,
	N.89°56'W. bet. secs. 14 and 23.
	Over mountainous country; through heavy cedar and pinon pine timber. Asc.
12.50	Top of ridge, 90 ft. above cor., bears N. and S. Desc.
25.00	Leave heavy timber, cedar and pinon pine, bears N.30°E. and S.30°W. Enter scattering timber.
29.40	Bottom of hollow, 120 ft. below ridge, course S.30°W. Asc.
40.04	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 14 in N. half, and S 23 in S. half, and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
47.00	Leave scattering timber, bears N. and S.
63.00	Top of ridge, 100 ft. above hollow, bears N.10°E. and S. 10°W.
	Desc.
70.00	Bottom of swale, 75 ft. below ridge, course S.
	Asc.
80.08	The cor. of secs. 14, 15, 22 and 23.
	Land, mountainous, slopes and drains southerly.
	Soil, sand and black loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sagebrush.
	Very little grass.
	Mountainous land or land covered with timber, 80.08 chs.

N.0°01'W. bet. secs. 14 and 15.

Over rolling mountainous country; through heavy sage-

Chains	
	brush.
	Desc. gradually.
23.50	Enter cedar and pinon pine timber, bears NE. and SW.
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 15 in W. half and S 14 in E. half, from which
	A cedar, 12 ins. in dia., bears N.11°E. 172 lks. dist., mkd. ¼ S 14 B T
	A cedar, 7 ins. in dia., bears S.6°W., 113 lks. dist., mkd, ¼ S 15 B T
41.70	Enter heavy cedar and pinon pine timber, bears E. and W.
59.00	Leave heavy timber.
	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. 10, 11, 14 and 15, mkd. on brass cap;
	T 32 S S 10 in N W
	R 10 W S 11 in N E
	S 14 in S E and
	S 15 in S W. quadrants; and dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. from post, and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, bench, slopes southerly.
	Soil, sandy and black loam, 12 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Very little grass.
	Bench land covered with cedar and pinon pine timber, or sagebrush, 80.00 chs.
	S.89°56'E. on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.

Chains	
80.06	Intersect N. and S. line at the cor. of secs. 11, 12, 13 and 14.
	Thence I run
	N.89°56'W. on a true line bet. secs. 11 and 14.
	Over rolling mountainous country; through scattering cedar and pinon pine timber and sagebrush.
	Asc.
32.00	Top of ridge, 150 ft. above cor., bears N.10°E. and S.10° W.
	Desc. gradually.
38.40	Bottom of swale, 100 ft. below ridge, course S.10°W.
	Asc.
40.03	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, surrounded by mound of earth and stone 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.
64.00	Top of ridge, 120 ft. above swale, bears N.10°E. and S. 10°W.
	Desc.
80.06	The cor. of secs. 10, 11, 14 and 15.
	Land, rolling mountainous, slopes and drains southerly.
	Soil, sandy loam, 12 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land covered with timber or brush, 80.06 chs.
	April 24, 1911: At noon this day the sky is overcast, making solar observations impossible.
	N.0°01'W. bet. secs. 10 and 11.
	Over mesa land and through dense sagebrush.
	Asc. gently.

Chains	
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 for ¼ sec. cor., mkd. on brass cap ¼ S 10 in W. half, and 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.
80.00	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 cor. of secs. 2, 3, 10 and 11, mkd. on brass cap T 32 S S 3 in N W R 10 W S 2 in N E S 11 in S E. and S 10 in S W. quadrants, and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, mesa, slopes and drains southerly.
	Soil, clay loam mixed with gravel and lava rock, 2nd rate, medium texture.
	Subsoil, hard clay mixed with rock.
	Timber, none.
	Undergrowth, sage.
	Good grass for grazing.
	Mesa land covered with dense brush, 80.00 chs.
	S.89°56'E. on a random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 16 lks. S. of cor. of secs. 1, 2, 11 and 12.
	Thence I run
	S.89°57'W. on a true line bet. secs. 2 and 11.
	Over rolling mountainous country; through cedar and pinon pine timber and dense sagebrush.
	Asc.
4.00	Top of ridge, 125 ft. above cor., bears N. and S.
	Desc.
10.90	Bottom of hollow, 100 ft. below ridge, course S.10°W.

Chains	
	Asc.
21.00	Top of asc.
	Enter mesa, bears N. and S.
40.05	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 2 in. N. half and S 11 in S. half, from which
	A cedar, 8 ins. in dia., bears N.32°W. 143 lks. dist., mkd. ¼ S 2 B T
	A cedar, 12 ins. in dia., bears S.63°W., 168 lks. dist., mkd. ¼ S 11 B T
74.00	Leave timber, bears N. and S,
80.10	The cor. of secs. 2, 3, 10 and 11.
	Land, rolling mountainous, slopes southerly.
	Soil, sand and black loam.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land, covered with timber and brush, 80.10 chs.
	Apr. 24, 1911.
	April 25, 1911: At 7h 58m a.m., l.m.t., I set off 38°03' N. on the lat. arc; and 12°59'N. on the decl. arc., and determine a meridian with the solar, at the cor. of secs. 2, 3, 10 and 11.
	Thence I run
	N.0°01'W. on a random line bet. secs. 2 and 3.
40.00	Set temp. ¼ sec. cor.
85.86	Intersect N. bdy. of Tp. 5 lks. E. of cor. of secs. 2, 3, 34 and 35, heretofore described.
	Thence I run
	S.0°03'E. on a true line bet. secs. 2 and 3.
	Over rolling mountainous country; through cedar and pinon

Chains	
	pine timber and sagebrush.
	Desc.
22.70	Leave timber, bears E. and W.
26.20	Bottom of swale, 100 ft. below cor., course SE.
	Asc.
30.30	Top of spur, 120 ft. above swale, bears N.80°W. and S. 80°E.
	Desc.
37.20	Bottom of swale, 100 ft. below spur, course S.70°E.
	Asc.
45.86	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, surrounded by a mound of earth and stone, for ¼ sec. cor., mkd. on brass cap; ¼ S 3 in W. half and S 2 in E. half, and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
48.70	Top of spur, 100 ft. above swale, bears NW. and SE.
	Desc.
52.70	Enter timber, bears NE. and SW.
79.20	Leave timber, bears NE. and SW.
85.86	The cor. of secs. 2, 3, 10 and 11.
	Land, mountainous.
	Soil, sand and black loam, 14 ins. deep, 2nd rate.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land covered with timber and brush 85.86 chs.
	N.0°02'W. bet. secs. 33 and 34.
	Over rolling mountainous country; through cedar timber and sagebrush.
	Asc.
3.00	Top of ridge, 40 ft. above cor., bears N.20°W. and S.20° E.

Subdivision T. 32 S., R. 10 W.

Chains	
	Leave timber.
	Desc.
21.00	Enter timber, bears N.60°W. and S.60°E.
38.30	Bottom of swale, 60 ft. below ridge, course S.75°E.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 19 ins. in the ground, on 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, 10 ins. in dia., bears S.55°E. 69 lks. dist., mkd. ¼ S 34 B T
	A cedar, 10 ins. in dia., bears S.21°10'W. 73 lks. dist., mkd. ¼ S 33 B T
41.25	Top of ridge, 100 ft. above swale, bears N.65°W. and S. 65°E.
	Desc.
50.75	Bottom of swale, 100 ft. below ridge, course S.50°E.
53.25	Top of spur, 75 ft. above swale bears NW. and SE.
67.90	Bottom of swale, 90 ft. below spur, course SE.
78.00	Top of spur, 100 ft. above swale, bears N.60°W. and S. 60°E.
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. 27, 28, 33 and 34, mkd. on brass cap
	T 32 S S 28 in NW.
	R 10 W S 27 in N E
	S 34 in SE. and
	S 33 in SW.quadrants; from which
	A cedar, 6 ins. in dia.,bears N.77°30'E. 135 lks. dist., mkd. T 32 S R 10 W S 27 B T
	A cedar, 20 ins. in dia., bears S.87°30'E. 56 lks. dist., mkd. T 32 S R 10 W S 34 B T
	A cedar, 12 ins. in dia.,bears S.81°30'W. 14 lks. dist., mkd. T 32 S R 10 W S 33 B T
	A cedar, 8 ins. in dia., bears N.58°30'W. 60

Subdivision T. 32 S., R. 10 W.

Chains	
	lks. dist., mkd. T 32 S R 10 W S 28 B T
	Land, rolling mountainous, slopes and drains southeasterly.
	Soil, sandy loam.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land covered with timber and sage, 80.00 chs.
	East on a random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line, 5 lks. S. of 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 rolling mountainous country; through dense sagebrush.
3.95	Old road bears N.20°E. and S.20°W.
11.00	Desc. abruptly, bears N.10°E. and S.10°W.
11.50	Enter cedar and pinon pine timber.
30.15	Bottom of hollow, 400 ft. below cor., course S.15°W.
	Asc.
37.00	Leave timber, bears N. and S.
39.99	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 and stone 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.
50.00	Enter cedar and pinon pine timber, bears N and S.
56.00	Top of spur, 400 ft. above hollow, bears N.20°W. and S. 50°E.
	Desc.
59.80	Bottom of swale, 100 ft. below spur, course SE.

Chains	
	Asc.
65.00	Top of ridge, 150 ft. above swale, bears N.30°W. and S. 30°E.
	Desc.
77.60	Bottom of hollow, 250 ft. below ridge, course S.40°E.
79.98	The cor. of secs. 27, 28, 33 and 34.
	Land, rolling mountainous.
	Soil, sandy loam, 18 ins. deep.
	Subsoil, hard black clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass in patches.
	Rolling mountainous land or land covered with timber or brush, 79.98 chs.
	April 25, 1911: At this cor. I set off 13°01'N. on the decl. arc; and at 11h 58m a.m.,l.m.t., observe the sun on the meridian, the resulting lat. is 38°00'N., which is the proper lat. nearly.
	N.0°02'W. bet. secs. 27 and 28:
	Over rolling mountainous country; through scattering cedar and pinon pine timber and dense sagebrush.
	Asc.
12.00	Top of spur, 60 ft. above cor., bears N.E. and S.W.
	Desc.
15.90	Bottom of hollow, 60 ft. below spur, course S.60°E.
	Asc.
20.00	Leave scattering timber, bears E. and W.
23.50	Top of spur, 250 ft. above hollow, bears E. and W.
	Desc.
30.00	Bottom of hollow, 150 ft. below spur, course S.30°W.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap; ¼

Chains	
	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.
47.00	Top of spur, 70 ft. above hollow, bears N.10°E. and S. 10°W.
	Desc.
52.80	Bottom of hollow, 60 ft. below spur, bears N. and course S.10°W.
	Asc. gently up hollow.
55.00	Asc. abruptly.
	Leave hollow, bears N.10°W. course S.
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 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, slopes and drains southerly.
	Soil, sandy loam, 12 ins. deep.
	Subsoil, gravel and clay, hardpan.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land covered with timber or sagebrush 80.00 chs.
	N.89°58'E. on a random line bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line, 7 lks. N. of cor. of secs. 22, 23, 26 and 27.
	Thence I run
	N.89°59'W. on a true line bet. secs. 22 and 27.
	Over rolling mountainous country; through dense sagebrush.
	Asc.

Chains	
3.50	Top of asc. bears N. and S.
	Enter flat.
39.98	Set an iron post, 3 ft. long, 1 in. in dia., 19 ins. in the ground, on solid rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap; ¼ S 22 in N half and S 27 in S. half, and raised a mound of stone 2 ft. base, 1½ ft. high N. of cor.
41.00	Desc. from flat, bears N.20°E. and S.20°W.
50.20	Bottom of hollow, 150 ft. below flat, course S.30°W.
	Asc.
77.00	Top of ridge, 100 ft. above hollow, bears N.10°W. and S.10°E.
	Desc.
79.96	The cor. of secs. 21, 22, 27 and 28.
	Land, rolling mountainous, slopes southerly.
	Soil, sandy loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, none.
	Undergrowth, sage.
	Good grass in patches.
	Rolling mountainous land, or land covered with dense sagebrush, 79.96 chs.
	Apr. 25, 1911.

April 26, 1911: At 7h 58m a.m., l.m.t., I set off 38°01' N. on the lat. arc; 13°18'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 rolling mountainous country; through dense sagebrush.

Asc.

18.60 Top of spur, 100 ft. above cor., bears NE. and SW.

Chains	
	Desc.
29.80	Bottom of swale, 40 ft. below ridge, course SW.
	Asc.
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 21 in W. half and S 22 in E. half, and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
51.50	Top of ridge, 60 ft. above swale, bears NW. and SE.
	Desc.
80.00	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 cor. of secs. 15, 16, 21 and 22, mkd. on brass cap T 32 S S 16 in N W R 10 W S 15 in N E S 22 in S E and S 21 in S W. quadrants; and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling mountainous, slopes southerly.
	Soil, sandy loam, well mixed with cobble rock.
	Subsoil, gravel.
	Timber, none.
	Undergrowth, sage.
	Grass in patches.
	Rolling mountainous land covered with sage, 80.00 chs.

	S.89°59'E. on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line at the cor. of secs. 14, 15, 22 and 23.
	Thence I run
	N.89°59'W. on a true line bet. secs. 15 and 22.
	Over rolling mountainous country; through dense sage-brush.

Subdivision T. 32 S., R. 10 W.

Chains	
	Desc.
22.25	Bottom of swale, 60 ft. below cor., course SW. Asc.
39.97	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, surrounded by a mound of earth for ¼ sec. cor., mkd. on brass cap ¼ S 15 in N. half and S 22 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.
79.94	The cor. of secs. 15, 16, 21 and 22.
	Land rolling mountainous, slopes and drains southerly.
	Soil, sandy loam, 13 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land or land covered with brush, 79.94 chs.
	April 26, 1911: At this cor. I set off 13°21'N. on the decl. arc; and at 11h 58m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 38°02'N., which is the proper lat. nearly.
	N.0°02'W. bet. secs. 15 and 16.
	Over rolling mountainous country; through dense sage-brush.
	Asc.
4.00	Enter heavy cedar and pinon pine timber, bears NE. and SW.
35.00	Top of ridge, 150 ft. above cor., bears N.20°E. and S. 20°W.
	Desc.
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 16 in W. half and S 15 in E. half, from which

Chains	
	A cedar, 7 ins. in dia., bears S.75°E., 48 lks. dist., mkd. ¼ S 15 B T
	A cedar, 8 ins. in dia., bears N.73°W., 12 lks. dist., mkd. ¼ S 16 B T
65.50	Bottom of swale, 100 ft. below ridge, course S.10°W.
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. 9, 10, 15 and 16, mkd. on brass cap
	T 32 S S 9 in N W R 10 W S 10 in N E S 15 in S E and S 16 in S W quadrants; from which
	A cedar, 5 ins. in dia., bears N.66°E., 79 lks. dist., mkd. T 32 S R 10 W S 10 B T
	A cedar, 8 ins. in dia., bears S.40°E., 19 lks. dist., mkd. T 32 S R 10 W S 15 B T
	A cedar, 8 ins. in dia., bears S.46°W., 60 lks. dist., mkd. T 32 S R 10 W S 16 B T
	A cedar, 10 ins. in dia., bears N.83°W., 41 lks. dist., mkd. T 32 S R 10 W S 9 B T
	Land, rolling mountainous, slopes and drains southerly.
	Soil, sandy loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land, or land covered with timber and brush, 80.00 chs.
	S.89°59'E. on a random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect the N. and S. line 2 lks. S. of the cor. of secs. 10, 11, 14 and 15.
	Thence I run

Subdivision T. 32 S., R. 10 W.

Chains	
	West on a true line bet. secs. 10 and 15.
	Over rolling mountainous country; through scattering cedar and pinon pine timber and dense sagebrush.
	Desc.
1.50	Bottom of swale, 10 ft. below cor., course S.
	Asc.
11.00	Top of asc. 50 ft. above swale, bears N. and S.
	Enter mesa.
37.00	Desc. from mesa, bears N.30°E. and S.30°W.
39.97	Set an iron post 3 ft. long, 1 in. in dia., 21 ins. in the ground, on solid rock, surrounded by a mound of earth and stone 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. in dia., bears N.63°E., 76 lks. dist., mkd. ¼ S 10 B T
	A cedar, 8 ins. in dia., bears S.49°E., 54 lks. dist., mkd. ¼ S 15 B T
46.00	Top or spur, 120 ft. above mesa, bears N.10°W. and S.10° E.
	Desc.
51.00	Bottom of swale, 75 ft. below spur, course S.15°E.
	Asc.
66.40	Top of ridge, 200 ft. above swale, bears N.20°E. and S. 20°W.
	Desc.
77.20	Bottom of swale, 140 ft. below ridge, course S.10°W.
	Asc.
79.94	The cor. of secs. 9, 10, 15 and 16.
	Land, rolling mountainous, slopes and drains southerly.
	Soil, sandy loam, 12 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass in patches.
	Rolling mountainous land, or land covered with timber and brush 79.94 chs.

Subdivision T. 32 S., R. 10 W.

Chains	Apr. 26, 1911.
	April 27, 1911: At 7h 58m a.m.,l.m.t., I set off 38° 03'N. on the lat. arc; 13°37'N. on the decl. arc.; and determine a meridian with the solar, at the cor. of secs. 9, 10, 15 and 16.
	Thence I run
	N.0°02'W. bet. secs. 9 and 10.
	Over rolling mountainous country; through heavy cedar and pinon pine timber and sagebrush.
	Asc. gently.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 19 ins. in the ground, on solid 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, from which
	A cedar, 8 ins. in dia.,bears N.84°E., 83 lks. dist., mkd. ¼ S 10 B T
	A cedar, 14 ins. in dia.,bears S.59°W. 23 lks. dist., mkd. ¼ S 9 B T
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. 3, 4, 9 and 10, mkd. on brass cap,
	T 32 S S 4 in N W
	R 10 W S 3 in N E
	S 10 in S E and
	S 9 in S W quadrants; from which,
	A cedar, 8 ins. in dia.,bears N.31°30'E. 142 lks. dist., mkd. T 32 S R 10 W S 3 B T
	A cedar, 7 ins. in dia.,bears S.68°15'E. 166 lks. dist., mkd. T 32 S R 10 W S 10 B T
	A cedar, 6 ins. in dia.,bears S.7°W., 112 lks. dist., mkd. T 32 S R 10 W S 9 B T
	A cedar, 9 ins. in dia.,bears N.19°15'W., 73 lks. dist., mkd. T 32 S R 10 W S 4 B T

Chains	
	Land, rolling mountainous, slopes gently to the south.
	Soil, sandy loam, 12 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass in patches.
	Rolling mountainous land, covered with timber and brush.
	80.00 chs.
	East, on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line, 5 lks. S. of 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 rolling mountainous country; through dense sage-brush.
	Asc. gradually.
39.98	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, surrounded by a mound of earth and stone, for ¼ sec. cor., mkd. on brass cap ¼ S 3 in N. half, and S 10 in S. half, and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
55.00	Top of ridge, 100 ft. above cor., bears NW. and SE.
	Enter cedar and pinon pine timber, bears NW. and SE.
	Desc.
67.00	Bottom of swale, 200 ft. below ridge, course SE.
	Asc.
79.96	The cor. of secs. 3, 4, 9 and 10.
	Land, rolling mountainous.
	Soil, sandy loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.

Subdivision T. 32 S., R. 10 W.

Chains	
	Rolling mountainous land, covered with timber and brush, 79.96 chs.
	Apr. 27, 1911: At this cor. I set off 13°40'N. on the decl. arc., and at 11h 58m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°03'N. which is the proper lat. nearly.
	N.0°02'W. on a random line bet. secs. 3 and 4.
40.00	Set temp. ¼ sec. cor.
85.78	Intersect N. bdy. of Tp. 5 lks. E. of cor. of secs. 3, 4, 33 and 34, heretofore described.
	Thence I run,
	S.0°04'E. on a true line bet. secs. 3 and 4.
	Over mountainous country; through dense sagebrush.
	Desc.
30.50	Foot of desc. bears N.55°E. and S.60°W., 120 ft. below cor.
31.00	Road from Milford to Parowan, bears N.55°E. and S.55°W.
31.75	Asc. bears N.55°E. and S.55°W.
45.78	Set an iron post, 3 ft. long, 1 in. in dia., 17 ins. in the ground, surrounded by a mound of earth and stone, for ¼ sec. cor., mkd. on brass cap; ¼ S 4 in W. half, and S 3 in E. half, and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
52.90	Top of spur, 200 ft. above hollow, bears E. and W.
	Desc.
60.70	Bottom of swale, 180 ft. below spur, course N.80°W.
	Asc.
71.70	Enter cedar and pinon pine timber, bears NE. and SW.
78.40	Top of ridge, 300 ft. above swale, bears NE. and SW.
	Desc.
85.78	The cor. of secs. 3, 4, 9 and 10.
	Land, mountainous, slopes and drains southwesterly.
	Soil, sandy loam, 18 ins. deep.
	Subsoil, gravel.

Chains	
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land covered with timber or brush, 85.78 chs.
	N.0°03'W. bet. secs. 32 and 33.
	Over mesa land; through dense sagebrush.
	Asc.
15.00	Top of asc. 50 ft. above cor., bears N.20°E. and S.20°W.
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 32 in W. half and S 33 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	Set an iron post, 3 ft. long, 2 ins. in dia., 19 ins. in the ground, surrounded by a mound of earth for cor. of secs. 28, 29, 32 and 33, mkd. on brass cap T 32 S S 29 in N W R 10 W S 28 in N E S 33 in S E. and S 32 in S W. quadrants; and dig pits, 18 x 18 x 12 ins. in each sec. 5½ ft. from post, and raised a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, mesa, slopes gradually toward south.
	Soil, sandy loam, 16 ins. deep.
	Subsoil, clay and gravel, hard-pan.
	No timber.
	Undergrowth, sage.
	A little grass.
	Mesa land covered with brush, 80.00 chs.
	Apr. 27, 1911.

Chains	
	April 28, 1911: At 7h 58m a.m., l.m.t., I set off 38°00' N. on the lat. arc.; 13°57'N. on the decl. arc.; and determine a meridian with the solar, at the cor. of secs. 28, 29, 32 and 33.
	Thence I run
	East on random line bet. secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the cor. of secs. 27, 28, 33 and 34.
	Thence I run
	West, on a true line bet. secs. 28 and 33.
	Over rolling mountainous country; through cedar timber and sagebrush.
	Asc.
10.00	Leave timber, bears N. and S.
13.00	Top of asc. 40 ft. above cor., bears NW. and SE.
	Enter mesa.
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 28 in N. half and S 33 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.
80.00	The cor. of secs. 28, 29, 32 and 33.
	Land, rolling mesa.
	Soil, sandy loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	A little grass in patches.
	Mesa land covered with timber or brush, 80.00 chs.
	N.0°03'W. bet. secs. 28 and 29.
	Over mesa land; through dense sagebrush.
	Desc.
5.10	Bottom of swale, 30 ft. below cor., course SW.

Subdivision T. 32 S., R. 10 W.

Chains	
	Asc. to mesa.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 19 ins. in the ground, on solid rock, surrounded by a mound of earth and stone, for ¼ sec. cor., mkd. on brass cap; ¼ S 29 in W. half and S 28 in E. half, and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
53.00	Desc. bears N.20°E. and S.15°W.
59.00	Bottom of swale, 40 ft. below mesa, course S.20°W.
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 N W R 10 W S 21 in N E S 28 in S E. and S 29 in S W. quadrants; and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, mesa, slopes southerly.
	Soil, sandy loam, 16 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	Good grass in patches.
	Mesa, land covered with dense brush, 80.00 chs.
	April 28, 1911: At this cor. I set off 13°59'N. on the decl. arc.; and at 11h 58m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 38°01'N. which is the proper lat. nearly.
	East on a random line bet. secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect the cor. of secs. 21, 22, 27 and 28.
	Thence I run
	West on a true line bet. secs. 21 and 28.
	Over rolling mountainous country; through dense sage-brush.

Subdivision T. 32 S., R. 10 W.

Chains	
	Desc.
1.50	Bottom of swale, 25 ft. below cor., course S.8°E.
	Asc.
5.00	Top of spur, 40 ft. above swale, bears N.30°W. and S.30° E.
	Desc.
6.80	Bottom of swale, 50 ft. below spur, course SE.
	Asc.
25.00	Top of asc. 110 ft. above swale, bears NW. and SE.
	Enter mesa.
40.02	Set an iron post, 3 ft. long, 1 in. in dia., 19 ins. in the ground, on rock, surrounded by a mound of earth, for ¼ sec. cor., mkd. on brass cap; ¼ S 21 in N. half, and S 28 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.
69.00	Desc. bears N.10°E. and S.10°W.
	Leave mesa.
77.60	Bottom of swale, 100 ft. below mesa, course S.10°W.
	Asc.
80.04	The cor. of secs. 20, 21, 28 and 29.
	Land, rolling mountainous, slopes and drains southerly.
	Soil, sandy loam, 18 ins. deep.
	Subsoil, gravel.
	Timber, none.
	Undergrowth, sage.
	Good grass in patches.
	Rolling mountainous or mesa land covered with brush, 80.04 chs.
	N.0°03'W. bet. secs. 20 and 21.
	Over rolling mountainous country; through dense sage-brush.
	Asc.
38.00	Top of asc. 100 ft. above cor., bears N.20°E. and S.20°W.

Subdivision T. 32 S., R. 10 W.

Chains	
	Enter broad ridge.
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. 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 W. of cor.
72.00	Desc. bears N.20°W. and S.20°E.
	Leave mesa.
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 10 W S 16 in NE. S 21 in S E. and S 20 in S W. quadrants; and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling mountainous, slopes gently toward south.
	Soil, sandy loam, 16 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land covered with dense sagebrush, 80.00 chs.
	East, on a random line bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line 5 lks. N. of cor. of secs. 15, 16, 21 and 22, heretofore described.
	Thence I run
	N.89°58'W. on a true line bet. secs. 16 and 21.
	Over rolling mountainous country; through dense sagebrush.
	Asc.

Subdivision T. 32 S., R. 10 W.

Chains	
3.00	Enter cedar and pinon pine timber, bears NE. and SW.
6.50	Top of ridge, 70 ft. above cor., bears N. and S. Desc.
12.00	Bottom of swale, 60 ft. below ridge, course SE.
	Asc.
30.00	Top of ridge, 200 ft. above swale, bears NW. and SE.
	Desc.
36.00	Bottom of swale, 40 ft. below ridge, course SE.
	Asc.
40.03	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 16 in N. half and S 21 in S. half, and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
48.00	Top of ridge, 75 ft. above swale, bears N.40°W. and S. 40°E.
	Desc. gradually.
68.00	Desc. abruptly, bears N.5°W. and S.40°W.
73.40	Bottom of swale, 100 ft. below ridge, course S.30°E.
	Asc.
80.06	The cor. of secs. 16, 17, 20 and 21.
	Land, rolling mountainous, slopes southerly.
	Soil, sandy loam, well mixed with small pebbles.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land covered with brush, 80.06 chs.
	Apr. 28, 1911.

April 29, 1911: At 7h 57m a.m., l.m.t., I set off 38°02'N. on the lat. arc.; 14°15'N. on the decl. arc. and determine a meridian with the solar, at the cor. of secs. 16, 17, 20 and 21.

Thence I run

Subdivision T. 32 S., R. 10 W.

Chains	
	N.0°03'W. bet. secs. 16 and 17.
	Over rolling mountainous country; through dense sage-brush.
	Asc. gradually.
35.20	Top of spur, 60 ft. above cor., bears E. and W.
	Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 21 ins. in the ground, on rock, surrounded by a mound of earth and stone 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.
63.80	Bottom of hollow, 75 ft. below spur, course S.30°E.
	Asc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, on rock, surrounded by a mound of earth and stone, for cor. of secs. 8, 9, 16 and 17, mkd. on brass cap T 32 S S 8 in N W R 10 W S 9 in N E S 16 in S E. and S 17 in S W. quadrants; and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling bench, slopes and drains southerly.
	Soil, sandy loam, 18 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Rolling bench land covered with dense brush, 80.00 chs.
	S.89°58'E. on a random line bet. secs. 9 and 16.
40.00	Set temp. ¼ sec.cor.
80.02	Intersect N. and S. line, 9 lks. S. of cor. of secs. 9, 10, 15 and 16, heretofore described.
	Thence I run

Subdivision T. 32 S., R. 10 W.

Chains	
	S.89°58'W. on a true line bet. secs. 9 and 16.
	Over steep mountainous country; through dense sagebrush and cedar timber. Desc.
21.00	Bottom of swale, 150 ft. below cor., course S.30°E.
	Asc.
39.20	Top of ridge, 100 ft. above swale, bears N.25°W. and S. 25°E.
	Desc.
40.01	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 ¼ sec. cor., mkd. on brass cap; ¼ S 9 in N. half and S. 16 in S. half, from which
	A cedar, 6 ins. in dia., bears N.8°W., 65 lks. dist., mkd. ¼ S 9 B T
	A cedar, 8 ins. in dia., bears S.10°W., 31 lks. dist., mkd. ¼ S 16 B T
46.80	Bottom of swale 100 ft. below ridge, course S.25°E.
	Asc.
55.00	Top of ridge, 60 ft. above swale, bears N.15°W. and S. 15°E.
	Desc.
59.00	Leave timber, bears N. and S.
80.02	The cor. of secs. 8, 9, 16 and 17.
	Land, mountainous.
	Soil, black loam and sand, well mixed with cobble rock.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	Good grass.
	Steep mountainous land or land covered with timber or brush, 80.02 chs.
	April 29, 1911: At this cor. I set off 14°18'N. on the decl. arc.; and at 11h 57m a.m.l.m.t. observe the sun on the meridian; the resulting lat. is 38°03'N., which is the proper lat. nearly.

Subdivision T. 32 S., R. 10 W.

Chains	
	N.0°03'W. bet. secs. 8 and 9.
	Over rough mountainous country; through scattering cedar and pinon pine timber and dense sagebrush.
	Asc.
23.65	Top of spur, 400 ft. above cor., bears N.50°E. and S.50°W.
	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 8 in W. half and S. 9 in E. half, and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
67.00	Foot of desc. 350 ft. below spur, bears NE. and SW.
	Enter hollow, course SW.
67.60	Road from Milford to Parowan, bears NE. and SW.
70.80	Enter mouth of hollow, bears N. and S., hollow course SE.
77.90	Asc. from hollow, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on solid cork, surrounded by a mound of earth and stone for cor. of secs. 4, 5, 8 and 9, mkd. on brass cap T 32 S S 5 in N W R 10 W S 4 in N E S 9 in S E. and S 8 in S W. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, steep mountainous, slopes southwesterly.
	Soil, sand loam, well mixed with cobble rock, 18 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass in patches.
	Steep mountainous land or land covered with timber and brush, 80.00 chs.

Chains	
	N.89°58'E. on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line, 7 lks. N. of cor. of secs. 3, 4, 9 and 10.
	Thence I run
	N.89°59'W. on a true line bet. secs. 4 and 9.
	Over mountainous country; through heavy cedar and pinon pine timber and dense sagebrush.
	Asc.
7.00	Top of high ridge, 40 ft. above cor., bears NE. and SW.
	Desc.
39.97	Set an iron post, 3 ft. long, 1 in. in dia., 21 ins. in the ground, surrounded by a mound of earth and 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. in dia., bears N.23°E., 28 lks. dist., mkd. ¼ S 4 B T
	A cedar, 6 ins. in dia., bears S.30°E., 49 lks. dist., mkd. ¼ S 9 B T
57.50	Leave timber, bears NE. and SW.
65.50	Foot of desc. 600 ft. below ridge, bears NE. and SW.
66.00	Road from Milford to Parowan, bears NE. and SW., in hollow, course SW.
69.00	Asc. bears N.10°E. and SW.
79.94	The cor. of secs. 4, 5, 8 and 9.
	Land, steep mountainous, slopes northwesterly; drains southwesterly.
	Soil, black loam, well mixed with cobble rock, 16 ins. deep.
	Subsoil, clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Steep mountainous land covered with timber or brush 79.94 chs.

Chains	
	N.0°03'W. on a random line bet. secs. 4 and 5.
40.00	Set temp. ¼ sec. cor.
85.70	Intersect N. bdy. of Tp. 9 lks. E. of cor. of secs. 4,5, 32 and 33, heretofore described.
	Thence I run
	S.0°07'E. on a true line bet. secs. 4 and 5.
	Over mountainous country; through heavy cedar timber and dense sagebrush.
	Desc.
29.90	Leave timber, bears NE. and SW.
32.40	Bottom of hollow, 400 ft. below cor., course SE.
	Asc.
45.70	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 5 in W. half and S 4 in E. half, and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
53.60	Top of spur, 70 ft. above hollow, bears E. and W.
	Desc.
85.70	The cor. of secs. 4, 5, 8 and 9.
	Land, mountainous, slopes and drains southeasterly.
	Soil, sandy loam, mixed with gravel and lava rock; 3rd rate, hard texture.
	Subsoil, hard clay mixed with gravel.
	Timber, cedar.
	Undergrowth, sage exceeding 3 ft. in length.
	Good grass for grazing.
	Mountainous land or land covered with timber or brush, 85.70 chs.
	April 29, 1911.

May 1, 1911: At 7h 59m a.m.,l.m.t., I set off 37°59'N. on the lat. arc.; 14°53'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.

Chains	
	Thence I run
	N.0°03'W. bet. secs. 31 and 32.
	Over mesa land; through dense sagebrush.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 19 ins. in the ground, on solid rock, surrounded by a mound of earth, 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.
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 for cor. of secs. 29, 30, 31 and 32, mkd. on brass cap T 32 S S 30 in N W R 10 W S 29 in N E. S 32 in S E. and S 31 in S W. 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, mesa, gently slopes toward south.
	Soil, sandy clay, mixed with gravel and lava rock, 16 ins. deep.
	Subsoil, clay and rock, hardpan.
	No timber.
	Undergrowth, sage.
	A little grass.
	Mesa land, covered with brush, 80.00 chs.
	East on a random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
79.97	Intersect the cor. of secs. 28, 29, 32 and 33,
	Thence I run
	West on a true line bet. secs. 29 and 32.
	Over mesa land; through dense sagebrush.

Chains	
6.20	Desc. bears NE. and S.10°E.
12.75	Bottom of hollow, 50 ft. below cor., course S.20°E.
	Asc.
20.00	Top of asc. bears N.20°W. and S.20°E.
34.00	Road from Milford to Parowan, bears N. and S.
39.985	Set an iron post, 3 ft. long, 1 in. in dia., 19 ins. in the ground, on solid rock, surrounded by a mound of earth 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.
79.97	The cor. of secs. 29, 30, 31 and 32.
	Land, mesa, drains and slopes southerly.
	Soil, sandy loam, mixed with gravel 19 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Mesa land covered with dense brush 79.97 chs.
	May 1, 1911: At this cor. I set off 14°55'N. on the decl. arc.; and at 11h 57m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 38°0'N. which is the proper lat. nearly.
	West on a random line bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor.
81.23	Intersect W. bdy. of Tp. 7 lks. S. of cor. of secs. 25, 30, 31 and 36, heretofore described.
	Thence I run
	S.89°57'E. on a true line bet. secs. 30 and 31,
	Over mesa land, through sage.
41.23	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 and stone for ¼ sec. cor., mkd. on brass cap; ¼ S 30 in N. half and S 31 in S. half; and raised a

Chains	
	mound of stone, 2 ft. base, 1½ ft. high N. of cor.
72.50	Bottom of swale, 50 ft. below sec. cor., course S.30°W,
	Asc.
81.23	The cor. of secs. 29, 30, 31 and 32.
	Land, mesa, slopes and drains southerly.
	Soil, sand and black loam, 12 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Mesa land covered with dense sagebrush, 81.23 chs.
	N.0°03'W. bet. secs. 29 and 30.
	Over mesa land; through dense sagebrush.
	Desc. gradually.
8.00	Bottom of swale, 30 ft. below 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 30 in W. half and S 29 in E. half and raised 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 19, 20, 29 and 30, mkd. on brass cap:
	T 32 S S 19 in N W
	R 10 W S 20 in N E
	S 29 in S E. and
	S 30 in S W. quadrants; and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, mesa, slopes and drains southerly.
	Soil, sand and black loam, mixed with pebbles, 16 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.

Subdivision T. 32 S., R. 10 W.

Chains	
	A little grass..
	Mesa land or land covered with brush, 80.00 chs.
	East on a random line bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the cor. of secs. 20, 21, 28 and 29.
	Thence I run
	West on a true line bet. secs. 20 and 29.
	Over mesa land; through dense sagebrush.
	Asc.
10.00	Top of asc. 60 ft. above cor., bears N. and S.
22.50	Road from Milford to Parowan, bears N.10°E. and S.10°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 20 in N. half and S 29 in S. half, and raised a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
40.10	Bottom of swale, 30 ft. below mesa, course S.20°W.
	Asc.
78.00	Old road, bears NW. and SE.
80.00	The cor. of secs. 19, 20, 29 and 30.
	Land, mesa, slopes and drains southerly.
	Soil, sand and black loam, 16 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage., A little grass.
	Mesa land or land covered with brush, 80.00 chs.
	May 1, 1911.
	May 2, 1911: At 7h 57m a.m., l.m.t., I set off 38°00'N. on the lat. arc.; 15°11'N. on the decl. arc. and determine a meridian with the solar, at the cor. of secs. 19, 20, 29 and 30.
	Thence I run

Subdivision T. 32 S., R. 10 W.

Chains	
	N.89°57'W. on a random line bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
81.14	Intersect W. bdy. of Tp. at the cor. of secs. 19, 24, 25 and 30, heretofore described.
	Thence I run
	S.89°57'E. on a true line bet. secs. 19 and 30.
	Over mesa land; through dense sagebrush.
41.14	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap; ¼ S 19 in N. half and S 30 in S. half, and raised a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
81.14	The cor. of secs. 19, 20, 29 and 30.
	Land, mesa, slopes and drains gently toward south.
	Soil, sandy loam, well mixed with small pebbles; 16 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Mesa land or land covered with brush, 81.14 chs.

	N.0°03'W. bet. secs. 19 and 20.
	Over mesa land; through dense sagebrush.
2.10	Old road, bears NW. and SE.
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 for ¼ sec. cor., mkd. on brass cap; ¼ S 19 in W. half and S 20 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.
47.00	Enter scattering cedar and pinon pine timber, bears E. and W.
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

Subdivision T. 32 S., R. 10 W.

Chains	
	and stone for cor. of secs. 17, 18, 19 and 20, mkd. on brass cap T.32 S.S 18 in N W R 10 W S 17 in N E S 20 in S E. and S 19 in S W.quadrants; and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Land, mesa, slopes and drains southerly. Soil, sandy loam well mixed with small pebbles 16 ins. deep. Subsoil, gravel. Timber, cedar and pinon pine. Undergrowth, sage. No grass. Mesa land or land covered with brush, 80.00 chs.
	East on a random line bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line, 2 lks. N. of 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 rolling mountainous country; through dense sage-brush. Asc.
4.00	Top of asc. 30 ft. above cor., bears N. and S.
7.70	Road from Milford to Parowan, bears N. and S.
19.00	Desc. bears N. and S.
21.30	Bottom of swale, 40 ft. below mesa, course S.
24.00	Top of asc. 40 ft. above swale, bears N. and S.
40.01	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 17 in N. half and S 20 in S. half; from which A. cedar, 8 ins. in dia., bears N.16°50'W.

Subdivision T. 32 S., R. 10 W.

Chains	
	124 lks. dist., mkd. ¼ S 17 B T
	A cedar, 7 ins. in dia., bears S.75°30'W.,
	86 lks. dist., mkd. ¼ S 20 B T
41.00	Enter cedar and pinon pine timber, bears NE. and SW.
80.02	The cor. of secs. 17, 18, 19 and 20.
	Land, rolling mountainous, slopes and drains southerly.
	Soil, sand and black loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous or mesa land, covered with timber or brush, 80.02 chs.
	May 2, 1911: At this cor. I set off 15°13'N. on the decl. arc.; and at 11h 57m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°02'N., which is the proper lat. nearly.
	N.89°57'W. on a random line bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
81.08	Intersect W. bdy. of Tp. 9 lks. N. of cor. of secs. 13, 18, 19 and 24, heretofore described.
	Thence I run
	N.89°59'E. on a true line bet. secs. 18 and 19.
	Over mountainous country; through scattering cedar and pinon pine timber, and dense sagebrush.
	Desc.
14.30	Bottom of hollow, 100 ft. below cor., course S.20°E. and bears N.20°E.
	Asc.
20.00	Top of asc. 70 ft. above hollow, bears N.10°E. and S. 10°E.
	Enter mesa.
31.00	Old road, bears N.30°W. and S.30°E.
41.08	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in

Subdivision T. 32 S., R. 10 W.

Chains	
	the ground, on rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap; ¼ S 18 in N. half and S 19 in S. half; from which
	A cedar, 10 ins. in dia., bears N.63°45'E., 77 lks. dist., mkd. S ¼ 18 B T
	A cedar, 7 ins. in dia., bears S.11°30'W., 40 lks. dist., mkd. S ¼ 19 B T
73.00	Leave timber, bears NE. and SW.
81.08	The cor. of secs. 17, 18, 19 and 20.
	Land, mountainous, slopes and drains southerly.
	Soil, sand and black loam, well mixed with cobble rock.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous or mesa land, or land covered with timber or brush, 81.08 chs.
	N.0°03'W. bet. secs. 17 and 18.
	Over mesa land; through dense sagebrush.
	Asc. gently.
4.00	Enter cedar and pinon pine timber.
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 18 in W. half and S 17 in E. half; from which
	A cedar, 11 ins. in dia., bears S.46°E., 132 lks. dist., mkd. ¼ S 17 B T
	A cedar, 10 ins. in dia., bears S.2°W., 314 lks. dist., mkd. ¼ S 18 B T
47.00	Desc. bears N.20°W. and S.20°E.
	Leave mesa.
48.70	Leave timber, bears NW. and SE.
66.70	Bottom of swale, 80 ft. below mesa, course SE.
	Asc.

Subdivision T. 32 S., R. 10 W.

Chains	
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. 7, 8, 17 and 18, mkd. on brass cap T 32 S S 7 in N W R 10 W S 8 in N E S 17 in SE. and S 18 in S W. quadrants; and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Land, mesa or rolling mountainous, slopes and drains southerly. Soil, sand and black loam, well mixed with little pebbles, 16 ins. deep. Subsoil, clay and gravel hard-pan. Timber, cedar and pinon pine. Undergrowth, sage. A little grass in patches. Mesa land or rolling mountainous land covered with timber or brush, 80.00 chs.
	S.89°59'E. on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 2 lks. N. of cor. of secs. 8, 9, 16 and 17,
	Thence I run
	N.89°58'W. on a true line bet. secs. 8 and 17.
	Over mountainous country; through scattering cedar and pinon pine timber and dense sagebrush.
	Desc.
8.25	Bottom of hollow, 40 ft. below cor., course S.30°E.
	Asc.
12.20	Road from Milford to Parowan, bears N.10°W. and S.10°E.
28.00	Top of ridge, 300 ft. above hollow, bears NW. and SE.
	Desc.
37.00	Bottom of swale, 40 ft. below ridge, course SE.

Subdivision T. 32 S., R. 10 W.

Chains	
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 21 ins. in the ground, on solid rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap ¼ S 8 in N. half and S 17 in S half, and raised a mound of stone 2 ft. base, 1½ ft. high N. of cor.
43.00	Top of ridge, 90 ft. above swale, bears NW. and SE.
	Desc.
62.00	Bottom of hollow, 100 ft. below ridge, course S.30°E.
	Asc.
73.00	Top of ridge, 200 ft. above hollow, bears N.30°W. and S.30°E.
	Desc.
80.00	The cor. of secs. 7, 8, 17 and 18.
	Land, mountainous, slopes and drains southeasterly.
	Soil, sand and black loam mixed with cobble rock, 18 ins. deep.
	Subsoil, gravel and clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass in patches.
	Mountainous land or land covered with timber and brush, 80.00 chs.
	May 2, 1911.
	May 3, 1911: At 7h 57m a.m., l.m.t., I set off 38°03'N. on the lat. arc; 15°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
	S.89°59'W. on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
81.01	Intersect W. bdy. of Tp., 7 lks. N. of cor. of secs. 7, 12, 13 and 18, heretofore described.
	Thence I run

Subdivision T. 32 S., R. 10 W.

Chains	
	N.89°56'E. on a true line bet. secs. 7 and 18.
	Over rolling mountainous country; through scattering cedar and pinon pine timber and dense sagebrush.
	Desc.
5.00	Bottom of swale, 30 ft. below cor., course S.50°E.
	Asc.
15.60	Top of ridge, 75 ft. above swale, bears N.60°W. and S. 60°E.
	Desc.
34.00	Leave timber, bears N.10°E. and SW.
35.00	Bottom of hollow, 300 ft. below ridge, course SE.
	Asc.
41.01	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 and stone for ¼ sec. cor., mkd. on brass cap; ¼ S 7 in N. half and S 18 in S. half; and raised a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
59.00	Top of ridge, 100 ft. above hollow, bears N.20°W. and S.20°E.
	Desc.
78.40	Bottom of swale, 60 ft. below ridge, course S.
	Asc.
81.01	The cor. of secs. 7, 8, 17 and 18.
	Land, rolling mountainous, slopes and drains south-easterly.
	Soil, sandy loam, mixed with gravel and lava rock; 3rd rate, medium texture, 17 ins. deep.
	Subsoil, clay and gravel, hard-pan.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land or land covered with timber or brush, 81.01 chs.

Subdivision T. 32 S., R. 10 W.

Chains	
	N.0°03'W. bet. secs. 7 and 8.
	Over rolling mountainous country; through scattering cedar and pinon pine timber and dense sagebrush.
	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 raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
42.75	Top of ridge, 200 ft. above sec. cor., bears N.60°W. and S.60°E.
	Desc.
58.25	Bottom of swale, 80 ft. below ridge, course SE.
	Asc.
62.50	Old road, bears NW. and SE.
73.80	Top of ridge, 200 ft. above swale, 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. 5, 6, 7 and 8, mkd. on brass cap T 32 S S 6 in N W R 10 W S 5 in N E S 8 in S E. and S 7 in S W. quadrants; and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling mountainous, slopes and drains southeasterly.
	Soil, sandy loam, well mixed with cobble rock, 19 ins. deep.
	Subsoil, gravel and clay, hard-pan.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber or brush, 80.00 chs.
	May 3, 1911: At this cor. I set off 15°31'N. on the decl. arc.; and at 11h 57m a.m., l.m.t., observe the

Subdivision T. 32 S., R. 10 W.

Chains	
	sun on the meridian; the resulting lat. is 68°03'N. which is the proper lat. nearly.
	S.89°58'E. on a random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect the N. and S. line 4 lks. S. of the cor. of secs. 4, 5, 8 and 9.
	Thence I run
	West on a true line bet. secs. 5 and 8.
	Over rolling mountainous country; through scattering cedar and pinon pine timber and dense sagebrush.
	Desc.
2.50	Bottom of hollow, 20 ft. below cor., course SE.
	Asc.
27.50	Top of spur, 90 ft. above hollow, bears N.70°W. and S. 70°E.
	Desc.
37.60	Bottom of hollow, 60 ft. below spur, course S.70°E.
	Asc.
40.02	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 5 in N. half and S 8 in S. half; from which
	A cedar, 6 ins. in dia., bears N.40°W., 47 lks. dist., mkd. ¼ S 5 B T
	and raised a mound of stone 2 ft. base, 1½ ft. high N. of cor. No other trees within limits.
44.80	Top of ridge, 50 ft. above hollow, bears NW. and SE.
	Desc.
55.30	Bottom of hollow, 100 ft. below ridge, course SE.
	Asc.
62.90	Top of ridge, 100 ft. above hollow, bears NW. and SE.
	Desc.
69.10	Bottom of hollow, 150 ft. below ridge, course SE.
	Asc.

Chains	
80.04	The cor. of secs. 5, 6, 7 and 8.
	Land, rolling mountainous, slopes and drains south-easterly.
	Soil, sandy loam, mixed with gravel and lava rock, 2nd rate, medium texture, 16 ins. deep.
	Subsoil, clay mixed with lime and gravel, hard pan.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass for grazing.
	Mountainous land or land covered with timber or brush, 80.04 chs.
	S.89°56'W. on a random line bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
80.95	Intersect W. bdy. of Tp. at the cor. of secs. 1, 6, 7 and 12, heretofore described.
	Thence I run
	N.89°56'E. on a true line bet. secs. 6 and 7.
	Over steep mountainous country; through scattering cedar and pinon pine timber and dense sagebrush.
	Desc.
17.90	Bottom of hollow, 100 ft. below cor., course S.70°E.
	Asc.
32.10	Top of ridge, 350 ft. above hollow, bears NW. and SE.
	Desc.
40.95	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, surrounded by a mound of earth and stone, 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 N. of cor.
50.00	Old road, bears NW. and SE.
51.00	Bottom of hollow, 100 ft. below ridge, course SE.
	Asc.
76.00	Top of ridge, 200 ft. above hollow, bears NW. and SE.
	Desc.

Chains	
80.95	The cor. of secs. 5, 6, 7 and 8.
	Land, mountainous, slopes and drains southeasterly.
	Soil, sand and black loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous land or land covered with timber or brush 80.95 chs.
	N.0°03'W. on a random line bet. secs. 5 and 6.
40.00	Set temp. ¼ sec. cor.
85.69	Intersect N. bdy. of Tp. 7 lks. E. of cor. of secs. 5, 6, 31 and 32, heretofore described.
	Thence I run
	S.0°6'E. on a true line bet. secs. 5 and 6.
	Mountainous land, through scattering cedar and pinon pine timber and dense sagebrush.
	Asc.
0.50	Top of ridge, 5 ft. above cor., bears S.60°E. and W.
	Desc.
14.00	Bottom of hollow, 90 ft. below ridge, course SE.
	Asc.
20.70	Top of spur, 40 ft. above hollow, bears E. and W.
	Desc.
25.70	Bottom of hollow, 35 ft. below spur, course N.60°E.
	Asc.
32.20	Top of ridge, 50 ft. above hollow, bears E. and W.
	Desc.
40.50	Bottom of swale, 50 ft. below ridge, course E.
	Asc.
45.50	Top of ridge, 40 ft. above swale, bears N.60°W. and S. 60°E.
	Desc.
45.69	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in

Subdivision T. 32 S., R. 10 W.

Chains	
	the ground, on rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap, ¼ S 6 in W. half, and S 5 in E. half, from which
	A cedar, 8 ins. in dia., bears S.32°E. 31 lks. dist., mkd. ¼ S 5 B T
	A cedar, 6 ins. in dia., bears N.88°30'W., 58 lks. dist., mkd. ¼ S 6 B T
65.10	Bottom of swale, 75 ft. below ridge, course SE.
	Asc.
79.74	Top of ridge, 30 ft. above swale, bears NW. and SE.
	Desc.
80.50	Bottom of hollow, 35 ft. below ridge, course E.
	Asc.
85.69	The cor. of secs. 5, 6, 7 and 8.
	Land, mountainous, slopes and drains easterly.
	Soil, sand and black loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber or brush, 85.69 chs.

May 3, 1911.

Lenily Stewart

Instrumentman G.L.O.

GENERAL DESCRIPTION.

This township occupies a low range of mountains and foot hills extending to the south of the main Divide ridge, dividing Minersville valley from the desert south; and the mesa land between the foothills and the above mentioned desert. The mesa land being well cut up with small hollows and swales, which drain

GENERAL DESCRIPTION.

in a southerly direction, the terminus being Rush Lake. The mountains and foothills are generally rolling except in the extreme north west portion, which is very steep.

The northern and eastern portions are generally covered with a heavy growth of cedar and pinon pine timber, and as the timber becomes more scattering, there is usually a dense growth of sagebrush.

The timber at the present time has no commercial value except as fuel and posts.

The soil, is generally sand but in some places in the northern portion of the township there is a loam for the decomposition of volcanic rock.

There are large and small volcanic rock and cobble stones mixed with the soil throughout the township.

The sedimentary formation is red sandstone but is covered with an overflow of volcanic matter, from 100 to 150 ft. deep.

There is very little land in the township suitable for cultivation on account of the soil being so shallow, which covers a hard pan of gravel and clay almost forming a cement.

There is no water in the township.

I discovered no indications of minerals.

There are no settlers in the township.

Timothy Stewart

Instrumentman G.L.O.

May 3, 1911.

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[12]" 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 Survey
solemnly swear that, in pursuance of a contract received from _____
United States Surveyor General for _____, bearing date
_____ day of _____, 19 , I have well, faithfully, and truly, in m
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
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 i
foregoing field notes as having been surveyed by me, and under my direction; and I do further sole
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 Surv

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

The foregoing field notes of the survey of the subdivisional lines of Townshi
No.32 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, 19 10, having
critically examined, and the necessary corrections and explanations made, the said field notes, and
surveys they describe, are hereby approved.

Thomas Hall
United States Surveyor Gene

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 offic

_____
United States Surveyor Gene

6—151

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Filed Dec.11, 1911.
WSH.

4—679

"Z 7"
BOOK A-388

FIELD NOTES

OF THE SURVEY OF THE

EAST AND WEST BOUNDARIES

OF

TOWNSHIP 31 SOUTH, RANGE 10 WEST

AND

RETRACEMENT OF SIXTH STANDARD PARALLEL 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. ~~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 3, 1911.

Survey completed May 6, 1911.

6—151

E. Bdy. 6-14-52 Chains 11.51
W. " 6-15-32 Chains 7.82

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-388

INDEX DIAGRAM.

Township 31 South, *Range* 10 West

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

6—151

Survey commenced May 3, 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 latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, Utah, found correct, and was approved by the surveyor general 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 Tps. 31 and 32 S., Rs. 9 and 10 W., heretofore described, lat. 38°04'17" N., long. 112°59'30" W., I set off 38°04'N. on the lat arc; 15°35'N. on the Decl. arc; and at 3h 57m 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.

May 3, 1911.

May 4: At 4h 46m a.m.l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs. N. of my station.

At 7h 30m a.m.l.m.t., I lay off the azimuth of Polaris 1°28.8' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set May 3, on which the meridian falls, 30 ins. W. of the mark determined by the solar.

EAST BOUNDARY T. 31 S., R. 10 W.

Chains	
	At 7h 57m a.m.l.m.t., I set off 38°04'N. on the lat. arc; 15°47'N. on the decl. arc; and mark a point in the meridian determined with the solar by a cross on the stone already set 5 chs. N. of my station; this mark falls 21 ins. W. of the meridian established by the Polaris observation.
	The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively 16" E. and 11" W. 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 15m.a.m. l.m.t. is N. 16°04'W.; the angle thus determined gives the mag. decl. 16°04'E.
	From the cor. of Tps. 31 and 32 S., Rs. 9 and 10 w., I run
	North on a true line bet. secs. 31 and 36,
	Over rolling mountainous country, through scattering cedar and pinon pine timber and dense sagebrush. Desc.
9.00	Leave timber, bears E. and W.
28.50	Bottom of hollow, 100 ft. below cor., course S.30°E. Ascend.
30.20	Old road bears N. 30°W. and 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 36 in W. half, S 31 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
56.00	Enter heavy cedar and pinon pine timber, bears E. and W.
80.00	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, mkd. on brass cap
	T 31 S S 25 in NW.
	R 9 W S 30 in NE.

EAST BOUNDARY T. 31 S., R. 10 W.

Chains	
	S 31 in SE.; and
	R 10 W S 36 in SW. quadrants; from which
	A cedar 8 ins. dia. bears N.37° 30'E. 68 lks. dist. mkd. T 31 S R 9 W S 30 B T
	A cedar 8 ins. dia. bears S.10°E. 82 lks. dist. mkd. T 31 S R 9 W S 31 B T
	A cedar 5 ins. dia. bears S 53°30'W. 38 lks. dist. mkd. T 31 S R 10 W S 36 B T
	A cedar 8 ins. dia. bears N. 21°25'W. 75 lks. dist. mkd. T 31 S R 10 W S 25 B T
	Land, rolling, mountainous; slopes and drains southerly.
	Soil, sandy loam, 16 ins. deep, 1st rate.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber or sagebrush 80.00 chs.
	North on a true line bet. secs. 25 and 30,
	Over rolling mountainous country; through cedar and pinon pine timber and sagebrush. Asc.
33.00	Top of ridge, bears N. 20° E.and S. 20°W. 120 ft. above cor. Desc.
40.00	Set an iron post 3 ft. long, 1 in. dia., 19 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 25 on W. half, and S 30 on E. half; from which
	A cedar 14 ins. dia. bears S.41°E. 31 lks. dist. mkd. ¼ S 30 B T
	A cedar 8 ins. dia. bears S.70°W. 71 lks. dist. mkd. ¼ S 25 B T
42.00	Leave timber, bears NE. and SW.
51.90	Bottom of hollow, 200 ft. below ridge, course S.40°W. Ascend.

EAST BOUNDARY T. 31 S. R. 10 W.

Chains	
53.50	Old road bears N. 40°E. and S. 40°W.
80.00	Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 19, 24, 25, and 30, mkd. on brass cap T 31 S S 24 in NW. R 9 W S 19 in NE. S 30 in SE.; and R 10 W S 25 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling, mountainous, slopes SW.
	Soil, sandy loam, 12 ins. deep,
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land or land covered with timber 80.00 chs.
	North on a true line bet. secs. 19 and 24,
	Over rolling mountainous land through dense sagebrush.
	Asc.
27.50	Top of ridge, 100 ft. above cor., bears N. 70°W. and S. 70°E. Desc.
34.60	Bottom of swale, 150 ft. below ridge, course S.65°E.
	Asc.
40.00	Set an iron post 3 ft. long, 1 ins. 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 raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
45.00	Top of spur, 120 ft. above swale, bears NW. and SE.
	Desc.
60.90	Bottom of swale, 90 ft. below spur, course SE.
	Ascend.
66.00	Top of ridge, 100 ft. above swale, bears N. 25°W. and SE.

EAST BOUNDARY T. 31 S., R. 10 W.

Chains	
80.00	Set an iron post 3 ft. long, 3 ins. in dia., 20 ins. in the ground, to solid rock, surrounded by a mound of earth and stone, for cor. of secs. 13,18,19 and 24 mkd. on brass cap T 31 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 stones 2 ft. base, 1½ ft. high W. of cor. Land, rolling mountainous, slopes and drains SE. Soil, sandy loam 14 ins. deep, well mixed with small cobble rock, 2d rate. Subsoil, gravel. No timber. Undergrowth, sage. Good grass. Rolling mountainous land 80.00 chs.
	North between secs. 13 and 18, Over rolling mountainous land; through dense sagebrush. Desc.
9.00	Bottom of swale, 90 ft. below cor., course SE. Ascend.
34.00	Enter heavy cedar and pinon pine 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 13 in W. half, and S 18 in E. half; from which A cedar 12 ins. dia. bears N.5°30'E. 118 lks. dist. mkd. ¼ S 18 B T A cedar 12 ins. dia. bears N 4°30'W. 87 lks. dist. mkd. ¼ S 13 B T
80.00	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 31 S S 12 in NW.

EAST BOUNDARY T. 31 S., R. 10 W.

Chains	
	R 9 W S 7 in NE.
	S 18 in SE.; and
	R 10 W S 13 in SW. quadrants; from which
	A pinon pine, 8 ins. dia., bears NE. 118 lks. dist. mkd. T 31 S R 9 W S 7 B T
	A pinon pine, 6 ins. dia., bears S.53°E. 28 lks. dist., mkd. T 31 S R 9 W S 18 B T
	A cedar 12 ins. dia., bears S.73°20'W. 93 lks. dist., mkd. T 31 S R 10 W S 13 B T
	A cedar 10 ins. dia., bears N.46°40'W. 126 lks. dist., mkd. T 31 S R 10 W S 12 B T
	Land, mountainous slopes and drains SE.
	Soil, sandy loam 16 ins. deep, 2d rate.
	Subsoil, gravel and hard white clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land heavily timbered 80.00 chs.
	North bet. secs. 7 and 12,
	Over rough mountainous land; through heavy cedar and pinon pine timber and sagebrush. Asc.
4.00	Top of ridge, 70 ft. above corner, bears NW. and SE. Desc.
26.00	Bottom of hollow, 200 ft. below ridge, course SE. Asc.
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 12 in W half, and S 7 in E. half; from which
	A pinon pine, 7 ins. dia., bears N.87°E. 38 lks. dist., mkd. ¼ S 7 B T
	A pinon pine, 8 ins. in dia., bears S.62°W. 85 lks. dist., mkd. ¼ S 12 B T
48.00	Top of spur, 250 ft. above swale, bears N. 30°W and S. 30°E. Desc.

EAST BOUNDARY T. 31 S., R. 10 W.

Chains	
55.00	Bottom of hollow, 180 ft. below ridge, course S.20°E.
	Asc.
60.00	Leave heavy cedar and pinon pine timber, bears NW. and SE.
80.00	Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1,6,7 and 12, mkd. on brass cap
	T 31 S S 1 in NW.
	R 9 W S 6 in NE.
	S 7 in SE.; and
	R 10 W S 12 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, high mountainous, slopes and drains SE.
	Soil, sand and black loam, 12 ins. deep,
	Subsoil, gravel and clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous land or land heavily timbered 80.00 chs.
	North bet. secs. 1 and 6,
	Over high mountainous land; through dense sagebrush.
	Asc.
23.00	Top of divide ridge between Minersville and the desert, 100 ft. above cor., bears N. 80°W. and S. 80°E.
	Desc. abruptly.
24.00	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 ¼ S 1 in W. half, and S 6 in E. half, from which
	A cedar 14 ins. dia. bears N.41°E. 16 lks. dist. mkd. ¼ S 6 B T
	A cedar 10 ins. dia. bears S. 84°W. 37 lks. dist. mkd. ¼ S 1 B T

EAST BOUNDARY T. 31 S., R. 10 W.

Chains	
63.80	Bottom of hollow, 1000 ft. below divide, course NW.
	Asc.
69.00	Top of ridge, 100 ft. above hollow, bears NW. and SE.
	Desc.
94.52	200 ft. below ridge,
	Intersect 6th Standard Parallel South 11.51 chs. N. 89° 45'W. of the standard cor. of Tp. 30 S., Rs. 9 and 10 W., heretofore described.
	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for closing cor. of Tp. 31 S., Rs. 9 and 10W., mkd. on brass cap
	T 30 S in N.
	R 10 W S 36 in NW. quadrant
	R 9 W S 31 in NE. quadrant,
	C C T 31 S in S half,
	R 9 W S 6 in SE. quadrant,
	R 10 W S 1 in SW. quadrant; and raise a mound of stone 2 ft. base, 1½ ft. high S. of cor.
	Note: No trees are within limits, for bearing trees.
	Land, steep mountainous, sloping N.
	Soil, sand and black loam
	Subsoil, white clay and gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Steep mountainous land, covered with heavy timber or brush 94.52 chs.
	May 4, 1911. Quimby Stewart Instrumentman G.L.O.
	May 5, 1911: At 7h 57m a.m.l.m.t., I set off 38°10'N. on the lat. arc; 16°04'N. on the decl. arc; and determine a meridian with the solar at the standard cor. of Tp. 30 S., Rs. 9 and 10 W., heretofore described.

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH, R. 10W.

Chains	
	Thence I run
	West on a retracement line on S. side of sec. 36
	Over rough mountainous land; through heavy cedar and pinon pine timber and sage brush. Ascend.
22.00	Top of ridge, 100 ft. above cor., bears NW. and SE.
39.86	Fall 17 lks. S. of old ¼ sec. cor., which is a sandstone 15 x 12 x 5 ins., lying loose on the ground. I destroy all traces of the old corner, 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. ¼ S 36 in N. half of brass cap, and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
51.00	Bottom of hollow, 90 ft. below ridge, course NW.
	Leave heavy timber.
	Enter scattering timber bears NW. and SE.
71.00	Top of spur, 80 ft. above hollow, bears N. 20°W. and S. 20°E. Ascend.
79.10	Bottom of swale, 100 ft. below spur, course NW.
	Ascend.
80.00	Fall 35 lks. S. of old standard cor. of secs. 35 and 36, which is a volcanic stone 20 x 8 x 6 ins., firmly set in the ground, marked and witnessed as described by the surveyor general.
	After destroying all traces of the old corner, I re-establish cor. in same place as follows:
	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for standard cor. of secs. 35 and 36, mkd. on brass cap S C in N. half, T 30 SS 35 in NW., and R 10 W S 36 in NE. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	Land, mountainous, sloping and draining NW.
	Soil, clay and sand, well mixed with volcanic rock.
	Subsoil, clay.

Chains	
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass in patches.
	Mountainous land or land heavily timbered 80.00 chs.
	The course of this mile is therefore N. 89°45'W. 80.00 chs.
	West on a retracement line on S. side of sec. 35.
	Over mountainous land; through scattering cedar and pinon pine timber and sagebrush. Ascend.
8.00	Top of ridge, 100 ft. above cor., bears N.20°W. and S. 20°E. Descend.
37.20	Bottom of hollow, 400 ft. below ridge, course N. 15°W. Ascend.
40.00	Fall 16 lks. S. of old ¼ sec. cor., which is a volcanic stone 14 x 8 x 6 ins., lying on top of ground; I destroy all traces of old cor., and re-establish it in same place as follows:
	Set an iron post 3 ft. long, 1 in. in dia., 20 ins. in the ground to solid rock, surrounded by a mound of earth and stone for standard ¼ sec. cor., mkd. S C ¼ S 35 in N half, and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
48.00	Top of ridge, 150 ft. above hollow, bears N. 15°W. and S. 15°E. Descend.
54.00	Leave scattering timber, bears N. and S.
70.00	Foot of descent, bears N. and S.
	Enter valley 400 ft. below ridge, bearing N. and S.
80.00	Fall 33 lks. S. of old stand.cor. of secs. 34 and 35, which is a lava rock 26 x 12 x 12 ins. above ground, marked 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, 3 ins. dia., 24 ins. in the ground, for standard cor. of secs. 34 and 35, mkd. on

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH, R. 10 W.

Chains	
	brass cap S C in N. half, T 30 S S 34 in NW. and R 10 W S 35 in NE. quadrants; and raise a mound of stones 2 ft. base, 1½ ft. high N. of cor. The course of this mile is therefore N. 89°46'W. 80.00 chs. Land, mountainous, sloping northerly. Soil, sandy loam, well mixed with lava and volcanic rock. Subsoil, gravel. Timber, cedar and pinon pine. Undergrowth, sage. No grass. Mountainous land or land covered with timber 80.00 chs. May 5, 1911: At this cor. I set off 16°06'N. on the decl. arc; and at 11h 57m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°09'N., which is the proper lat. nearly.
	West on retracement on S. side of sec. 34, Over nearly level land; through dense sagebrush.
2.90	Road from Parowan to Milford bears N. 30°E. and S. 30°W.
15.00	Wash, 100 lks. wide, 2 ft. deep, course NW.
40.52	Intersect old stand. ¼ sec. cor., which is a sandstone 17 x 10 x 5 ins., set firmly in the ground. The marks are nearly invisible, so I destroy all trace of old cor., and re-establish it in same place as follows: Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for stand. ¼ sec. cor., mkd. on brass cap S C ¼ 34 in N. half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
75.00	Ascent bears N. 30°E. and S. 30°W.
81.04	Intersect the old stand. cor. of secs. 33 and 34, which is a sandstone 16 x 11 x 7 ins., firmly set in the ground marked and witnessed as described by the surveyor general. I destroy all trace of the old corner,

Chains	
	and re-establish it in the same place as follows:
	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for stand. cor. of secs. 33 and 34, mkd. on brass cap
	S C in N. half,
	T 30 S S 33 in NW.,
	R 10 W S 34 in NE. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	The course of this mile is therefore W. 81.04 chs.
	Land, nearly level, slopes gently to N.
	Soil, sandy loam well mixed with cobble stones.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Land nearly level or covered with sagebrush 81.04 chs.
	West on a retracement on S. side of sec. 33,
	Over rolling hills; through dense sagebrush. Ascend.
3.75	Top of ridge, 60 ft. above corner, bears N. 10°E. and S. 10°W. Descend.
11.25	Bottom of swale, 70 ft. below spur, course NW. Ascend.
17.90	Top of ridge, 60 ft. above swale, bears NW. and SE. Descend.
26.60	Wash 75 lks. wide, 2 ft. deep, course NW. Ascend.
40.32	Fall 5 lks. S. of old St. ¼ sec. cor., which is a sandstone 16 x 10 x 6 ins. above ground, marked and witnessed as described by the surveyor general. I destroy all traces of the old corner, 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 stand. ¼ sec. cor., mkd. on brass cap SC ¼ S 33 in N. half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH, R. 10 W.

Chains	
49.00	Top of ridge, 50 ft. above wash, bears N. 10°W. and S 10° E. Descend.
53.80	Old road, bears N. 10° E. and S. 10°W.
60.25	Wash 40 lks. wide, 2 ft. deep, course NW.
80.63	Fall 9 lks. S. of old stand. cor. of secs. 32 and 33, which is a sandstone 20 x 8 x 5 ins. lying loose on the ground. I destroy all trace of the old corner, and re-establish it in the same place as follows: Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for stand. cor. of secs. 32 and 33, mkd. on brass cap S C in N. half, T 30 S S 32 in NW., and R 10 W S 33 in NE. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	The course of this mile is therefore N. 89°56'W. 80.63 chs.
	Land, rolling, mountainous.
	Soil, sandy loam, well mixed with lava rock; 2d rate.
	Subsoil, gravel and clay.
	No timber.
	Undergrowth, sage. No grass.
	Mountainous land or land covered with sagebrush 80.63 chs.
	West on retracement on S. side of sec. 32,
	Over rolling mountainous land; through dense sage and rabbit brush.
10.70	Wash, 10 lks. wide, 2 ft. deep, course N.
23.30	Top of ridge, 100 ft. above cor. bears N. and S. Descend.
40.68	Fall 3 lks. S. of old St. ¼ sec. cor., which is a sandstone 18 x 10 x 5 ins., above ground, marked and witnessed as described by the surveyor general. I destroy all traces of the old cor., and re-establish it in

Chains	
	the same place as follows:
	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 SC ¼ S 32 in N. half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
41.14	Wash 5 lks. wide, 2 ft. deep, course N.
50.00	Top of ridge, 100 ft. above wash, bears N. and S.
	Desc.
56.75	Bottom of hollow, 100 ft. below ridge, course N. 20°E.
	Ascend.
77.95	Top of ridge, 100 ft. above hollow, bears N. 20°E. and S. 20°W.
81.16	Fall 7 lks. S. of cor. of secs. 31 and 32, which is a sandstone 17 x 10 x 8 ins. firmly set and mkd. and witnessed as described by the surveyor general. I destroy all traces of the old corner, and re-establish it in the same place as follows:
	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for stand. cor. of secs. 31 and 32, mkd. on brass cap S C in N. half, T 30 S S 31 in NW. and R 10 W S 32 in NE. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	The course of this mile is therefore N. 89°57'W. 81.16 chs.
	Land, rolling, mountainous.
	Soil, sandy loam, mixed with pebbles.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	No grass.
	Rolling mountainous land covered with brush 81.16 chs.
	West on a retracement on S. side of Sec. 31,

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH? R. 10 W.

Chains	
	Over rolling mountainous land; through dense sagebrush.
	Descend.
6.50	Bottom of swale, 100 ft. below corner, course N. 10°E.
	Ascend.
29.40	Top of ridge, 140 ft. above swale, bears NW. and SE.
	Descend.
40.25	Intersect old St. ¼ sec. cor., which is a sandstone 19 x 10 x 5 ins., lying on surface. I destroy all traces of old corner, 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 St. ¼ sec. cor., mkd. on brass cap SC ¼ S 31 in N. half, and raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
48.95	Bottom of hollow, 175 ft. below ridge, course N.
81.25	Intersect N. and S. line at the old stand. cor. of Tp. 30 S., Rs. 10 and 11 W., which is a red sandstone 20 x 15 x 6 ins., firmly set and mkd. and witnessed as described by the surveyor general. I destroy all traces of the old corner, and re-establish it in the same place as follows:
	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for stand. cor. of Tp. 30 S. Rs. 10 and 11 W., mkd. on brass cap
	S C T 30 S in N. half,
	R 11 W S 36 in NW., and
	R 10 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 mile is therefore west 81.25 chs.
	Land, rolling, mountainous.
	Soil, sandy loam, 12 ins. deep, Subsoil, gravel.
	No timber.
	Undergrowth, sage. No grass.
	Rolling mountainous land, covered with sagebrush 81.25 chs.

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH, R. 10 W.

Chains	
	May 5, 1911.
	Lumley Stewart
	Instrumentman G.L.O.

WEST BOUNDARY T. 31 S.R.10 W.

May 6, 1911: At 7h. 57m a.m.l.m.t., I set off 38°04'N. on the lat. arc; 16°21'N. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 31 and 32 S., Rs. 10 and 11 W., heretofore described.

Thence I run

North between secs. 31 and 36,

Over high mountainous country; through cedar and pinon pine timber and dense sagebrush.

Chains	
2.00	Top of spur, bears N.50°W. and S.50°E.
	Descend.
7.50	Foot of descent bears E. and W.
	Leave timber, bears E. and W.
	Enter flat.
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 ¼ 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 raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
49.00	Enter cedar timber, bears E. and W.
68.40	Old road bears N.70°W. and S.70°E.
80.00	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 25,30,31, and 36, mkd. on brass cap

T 31 S S 25 in NW.

R 10 W S 30 in NE.

S 31 in SE.; and

R 9 W S 36 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.

WEST BOUNDARY T. 31 S., R. 10 W.

Chains	
	Land, rolling. Soil, sandy loam, 18 ins. deep. Subsoil, gravel. Timber, cedar. Undergrowth, sage. A little grass. Rolling land, or land covered with timber or sagebrush. 80.00 chs.
	North between secs. 25 and 30, Over rolling land; through dense sagebrush. 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 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 raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
55.00	Asc. abruptly, bearing E. and W.
80.00	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 19,24,25, and 30, mkd. on brass cap T 30 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; and raise a mound of stones 2 ft. base, 1½ ft. high W. of cor. Land, rolling. Soil, black loam and clay. No timber. Undergrowth, sage. Very little grass. Mountainous land or rolling land covered with brush 80.00 chs.
	North bet. secs. 19 and 24,

WEST BOUNDARY T. 31 S. R. 10 W.

Chains	
	Over steep mountainous land; through sagebrush.
	Ascend.
5.75	Top of ridge, 60 ft. above corner, bears E. and W.
	Descend.
20.25	Bottom of swale, 175 ft. below ridge, course W.
	Ascend.
25.50	Top of spur, 100 ft. above swale, bears E. and 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 24 in W. half, S. 19 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
40.60	Bottom of swale, 100 ft. below ridge, course SW.
	Ascend.
46.00	Top of ridge, 100 ft. above swale, bears NE. and SW.
	Desc.
56.80	Bottom of hollow, 125 ft. below ridge, course W.
	Ascend.
75.80	Top of ridge, 300 ft. above hollow, bears E. and W.
	Descend.
80.00	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 13, 18,19, and 24, mkd. on brass cap
	T 31 S S 13 in NW.
	R 10 W S 18 in NE.
	S 19 in SE.; and
	R 11 W S 24 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, steep mountainous slopes and drains westerly.
	Soil, sand and black loam, 14 ins. deep, 2nd rate.
	Subsoil, clay and coarse sand.
	No timber.
	Undergrowth, sage.
	A little grass.
	Steep mountainous land 80.00 chs.

Chains	
	May 6, 1911. At this cor. I set off 16°24'N. on the decl. arc; and at 11h 57m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38°07'N., which is the proper lat. nearly.
	North bet. secs. 13 and 18,
	Over high steep mountainous country; through dense sage and scattering cedar and pinon pine timber. Desc.
29.10	Bottom of swale, 400 ft. below ridge, course S. 60°W. Ascend.
37.90	Top of ridge, 250 ft. above swale, bears N. 75°E. and S. 75°W. Desc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 20 ins. in the ground, to solid rock, surrounded by a mound of earth and stone, for ¼ sec. cor., mkd. ¼ S 13 in W. half, and S 18 in E. half; from which
	A cedar 5 ins. dia. bears N. 41°E. 40 lks. dist. mkd. ¼ S 18 B T
	A cedar 9 ins. dia. bears N. 82°30'W. 84 lks. dist. mkd. ¼ S 13 B T
40.50	Bottom of swale, 100 ft. below ridge, course N. 85°W. Ascend.
47.70	Top of ridge, 100 ft. above swale, bears E. and W. Desc.
70.00	Leave timber, bears E. and W.
76.40	Bottom of swale, 200 ft. below ridge, bears N. 65°W. Ascend.
80.00	Top of ridge, 200 ft. above swale, bears E. and W.
	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in ground, for cor. of secs. 7,12,13, and 18, mkd. on brass cap
	T 31 S S 12 in NW.
	R 10 W S 7 in NE.
	S 18 in SE.; and
	R 11 W S 13 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, steep mountainous, slopes westerly.
	Soil, black loam, well mixed with little pebbles.

Chains	
	Subsoil, lava rock formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass in patches.
	Steep mountainous land or land covered with timber
	80.00 chs.
	North bet. secs. 7 and 12,
	Over high mountainous country; through scattering cedar timber, and rabbit brush and dense sage. Desc.
5.30	Bottom of hollow, 75 ft. below cor., course W.
	Ascend.
14.45	Top of ridge, 150 ft. above hollow, bears E. and W.
	Desc.
39.00	Bottom of hollow, 200 ft. below ridge, course N.60°W.
	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 12 in W. half, and S 7 in E. half; from which
	A cedar 12 ins. dia. bears S. 28°E. 208 lks. dist. mkd. ¼ S 7 B T
	A cedar 10 ins. dia. bears S. 4°W. 115 lks. dist. mkd. ¼ S 12 B T
62.30	Top of ridge, 150 ft. above hollow, bears E. and W.
	Descend.
75.00	Bottom of hollow, 100 ft. below ridge, course NW.
	Ascend.
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. 1,6,7, and 12, mkd. on brass cap
	T 31 S S 1 in NW.
	R 10 W S 6 in NE.
	S 7 in SE.; and
	R 11 W S 12 in SW. quadrants; and

WEST BOUNDARY T. 31 S., R. 10 W.

Chains	
	raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Soil, red sand and gravel mixed with basalt, diorite, and trachyte rocks.
	Land, steep, mountainous, slopes and drains westerly.
	Subsoil, volcanic formation.
	Undergrowth, sage and rabbit brush.
	Little or no grass.
	Mountainous land covered with timber and brush 80.00 chs.
	North bet. secs. 1 and 6,
	Over high mountainous land through dense sagebrush.
	Ascend.
7.50	Top of ridge, 100 ft. above cor., bears NW. and SE.
	Desc.
19.30	Bottom of swale, 200 ft. below ridge, course N. 70°W.
	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 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.
49.40	Top of ridge, 200 ft. above hollow, bears N. 50°W. and S. 50°E. Desc.
95.32	500 ft. below top of ridge,
	Intersect Sixth Standard Parallel South 7.82 chs. N. 89° 48'W. of stand. cor. of Tp. 30 S., Rs. 10 and 11 W., heretofore described.
	Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for closing cor. of Tp. 31 S., Rs. 10 and 11 W., mkd. on brass cap.
	T 30 S R 10 W R 11 W S 31 S 36 in N. half,
	C C T 31 S in S. half,
	R 10 W S 6 in SE.; and
	R 11 W S 1 in SW. quadrants; and raise a mound of stone 2 ft. base 1½ ft. high S. of cor.

WEST BOUNDARY T. 31 S., R. 10 W.

Chains

Land, mountainous, sloping NW.

Soil, red sand and loam, 12 ins. deep.

Subsoil, volcanic and sandstone formation.

Timber, none.

Undergrowth, sage.

Mountainous land or land covered with brush 95.32 chs.

May 6, 1911.

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

Quimby Stewart

Instrumentman G.L.O.

BOUNDARIES OF T. 31 S., R. 10W.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Lines Designated	True Bearing	Dist.	Latitudes,		Departures.	
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
East Boundary	North	494.52	494.52	...	...	...
Sixth Stand. Par. S.:						
S. side sec. 36,	N.89°45'W.	68.49	.30	....	...	68.4
S. side sec. 35,	N.89°46'W.	80.00	.32	...	...	80.0
S. side sec. 34,	West	81.04	...	...	...	81.0
S. side sec. 33,	N.89°56'W.	80.63	.09	...	...	80.6
S. side sec. 32,	N.89°57'W.	81.16	.07	...	...	81.1
S. side sec. 31,	West	81.25	...	...	...	81.2
S. side sec. 36,	N.89°48'W.	7.82	.03	...	...	7.8
West Boundary	South	495.32		495.32	495.32	
South Boundary	East	480.90		...	480.90	
Convergency						.5
	Totals		495.33	495.32	480.90	480.9
			495.32			480.9
Errors in lat. and dep.			.01			.0

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

rking the lines and corners described in the foregoing field notes of the survey of .....

.....

wing 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

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 ....., 19 .....

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 _____ 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 transition see book "Z" T.[illegible] S., R.[illegible] 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__.

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914.

The foregoing field notes of the survey of the East and West Boundaries of Township No. 31 South, Range No. 10 West, and retracement of the Fifth Standard Parallel South, through Range No. 10 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.

_____
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

FILED DEC.11, 1911.
WSH.

4—679

"Z 8"
BOOK A-388

K.T.B.
MKW

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP 31 SOUTH, RANGE 10 WEST

Of the SALT LAKE BASE AND *Meridian,*

n the State of UTAH

EXECUTED BY

JOHN R. STEWART AND QUINBY STEWART

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

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

ongress dated ....., *191*....

Survey commenced May 8*, 1911.*

Survey completed May 21*, 1911.*

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INDEX DIAGRAM.

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31	55 32	41 33	28 34	15 35	1 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 t
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; th
we will report the true distances to all notable objects, and the true lengths of all lines that we assist
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey
.....

..... *Chainme*

..... *Chainme*

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 establishm
of corners, according to the instructions given us, to the best of our skill and ability, in the survey
.....

..... *Moundme*

..... *Moundme*

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 corn
and other duties, according to instructions given us, to the best of our skill and ability, in the survey
.....

..... *Axme*

..... *Axme*

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

SEAL

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

..... *Flagme*

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

SEAL

Chains	
	Survey commenced May 8, 1911, and executed with the instrument described in book "Z 7" of this survey.
	Believing from recent tests, made at the cor. of Tps. 31 and 32 S., Rs. 9 and 10 W., that my instrument is in adjustment, I omit the test at this time.
	May 8: At 7 h 56 m a.m.,l.m.t., I set off 38°04'N. on the lat.arc; 16°55'N. on the decl.arc; and determine a meridian with the solar at the cor.of secs.1,2,35, and 36, on S.bdy.of Tp., heretofore described.
	Thence I run
	N.0°01'W.bet.secs.35 and 36,
	Over rolling mountainous land, through dense sage.
	Asc.
14.00	Top of ridge, 100 ft. above cor., bears N.20° W. and S. 20° E. Desc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 20 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 35 in W.half, and S 36 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.
40.40	Road from Milford to Kane Springs, bears N.20° E. and S.20° W.
46.70	Bottom of hollow, 160 ft.below ridge, course S.20°E.
	Ascend.
52.50	Enter cedar timber, bears W. and S. 25° E.
77.00	Top of ridge, 300 ft. above hollow, bears E. 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.25,26,35, and 36, mkd. on brass cap
	T 31 S S 26 in NW.
	R 10 W S 25 in NE.
	S 36 in SE.; and
	S 35 in SW. quadrants; from which

SUBDIVISION T.31 S., R.10 W.

Chains	
	A cedar 7 ins.dia.bears N.25°30'E. 251 lks. dist. mkd.T 31 S R 10 W S 25 B T
	A cedar 8 ins.dia.bears S.18°40'E.39 lks. dist. mkd.T 31 S R 10 W S 36 B T
	A cedar 12 ins.dia. bears S.28°W. 19 lks.dist. mkd.T 31 S R 10 W S 35 B T
	A cedar 6 ins.dia.bears N.1° W. 147 lks. dist. mkd.T 31 S R 10 W S 26 B T
	Land,rolling, mountainous, sloping and draining southeasterly.
	Soil, sand and black loam, well mixed with little pebbles, 1 ft. deep, 2d rate.
	Subsoil, clay and gravel.
	Timber, cedar.
	Undergrowth, sage.
	Grass in patches.
	Mountainous land or land heavily timbered 80.00 chs.
	East on a random line bet. secs.25 and 36,
40.00	Set temp.¼ sec. cor.
80.00	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.secs.25 and 36,
	Over mountainous land; through heavy cedar and pinon pine timber and sagebrush.
	Asc.
6.75	Leave timber, bears N. and S.
	Enter dense sage.
9.00	Top of ridge, 100 ft.above cor., bears N. and S.
	Desc.
22.10	Old road bears N.25° W. and S.25° E.
23.10	Bottom of hollow, 200 ft.below ridge, course S.25° W.

SUBDIVISION T.31 S.,R.10 W.

Chains	
	Asc.
36.00	Enter scattering cedar and pinon pine 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 25 in N. half, and S 36 in S.half; from which
	A cedar 6 ins.dia.bears N.30° E. 87 lks.dist., mkd. ¼ S 25 B T
	A cedar 7 ins.dia.bears S.80°E. 35 lks.dist. mkd. ¼ S 36 B T
54.00	Top of ridge, 350 ft.above hollow, bears N.and S.10°W.
	Desc.
80.00	The cor. of secs.25,26,35,and 36.
	Land, mountainous, sloping and draining southeasterly.
	Soil, black loam, well mixed with gravel.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Grass in patches.
	Mountainous land or land covered with timber or brush 80.00 chs.
	N. 0°01'W. bet. secs. 25 and 26,
	Over rolling mountainous land; through dense sagebrush.
	Desc.
32.00	Bottom of swale, 100 ft.below cor., course 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. brass cap ¼ S 26 in W. half, and S 25 in E.half; and raise a mound of stone 2 ft.base, 1½ ft. high W. of cor.
47.00	Top of ridge, 150 ft. above swale, bears N.75° W. and S. 75° E. Desc.

SUBDIVISION T.31 S.,R.10 W.

Chains	
80.00	Set an iron post 3 ft.long, 2 ins.in dia., 19 ins.in the ground, to solid rock, surrounded by a mound of earth and stone for cor.of secs.23,24,25, and 26, mkd. on brass cap T 31 S S 23 in NW. R 10 W S 24 in NE. S 25 in SE.; and S 26 in SW. quadrants; and raise a mound of stone 2 ft.base, 1½ ft.high W. of cor. Land, rolling and mountainous. Soil, sand and black loam, well mixed with gravel. No timber. Undergrowth, dense sagebrush. Mountainous land, rolling, covered with dense sagebrush 80.00 chs.
	East on a random line between secs.24 and 25,
40.00	Set temp.¼ sec.cor.
80.00	Intersect E.bdy.of Tp. at the cor. of secs.19,24,25,and 30, heretofore described.
	Thence I run
	West on a true line bet.secs.24 and 25,
	Over rolling mountainous land; through dense sagebrush.
	Asc.
22.00	Top of ridge, 200 ft.above cor., bears N.30° W. and S. 30° E. Desc.
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 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.
50.00	Top of ridge, 200 ft. above swale, bears NW. and SE.

SUBDIVISION T.31 S.,R.10 W.

Chains	
69.00	Old road in swale, 100 ft. below ridge, course S.35°E. bears N.30°W.for 5 chs.; thence N.
80.00	The cor. of secs.23,24,25, and 26.
	Land, mountainous, sloping and draining SE.
	Soil, sandy loam 16 ins.deep, 2d rate.
	Subsoil, gravel.
	No timber. Undergrowth, sage.
	A little grass.
	Mountainous land, or land covered with dense sage 80.00 chs.
	N.0°01'W. bet.secs.23 and 24,
	Over rolling mountainous land; through dense sagebrush.
	Asc. gradually.
10.00	Top of Divide Ridge, 30 ft.above cor., bears E. and W.
	Desc. gradually to point.
26.60	Old road bears N.75°W. and S.75°E.
28.85	Spur, 60 ft. below ridge, bears N.70°W. and S.70°E.
	Desc. abruptly.
38.50	Bottom of hollow, 100 ft. below spur, course 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 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.
47.00	Top of ridge, 110 ft. above hollow, bears E. and W.
	Desc.
55.20	Bottom of hollow, 100 ft. below ridge, course W.
	Asc. abruptly.
63.60	Top of ridge, 120 ft. above hollow, bears NW. and SE.
	Desc.
74.60	Bottom of hollow, 135 ft. below ridge, course N.60°W.
	Asc.

Chains

77.50 Top of spur, 100 ft.above hollow, bears N.60° W. and S. 60° E. Desc.

80.00 Set an iron post 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor. of secs.13,14,23, and 24, mkd. on brass cap

T 31 S S 14 in NW.

R 10 W S 13 in NE.

S 24 in SE.; and

S 23 in SW.quadrants; and raise a mound of stone 2 ft.base, 1½ ft. high W. of cor.

Land, steep, mountainous; sloping and draining NW.

Soil, sand and white clay, with lava rock on surface.

Subsoil, clay. No timber.

Undergrowth, sage. No grass.

Steep mountainous land 80.00 chs.

May 8, 1911.

Dudley Stewart

Instrumentman G.L.O.

Survey commenced May 9, 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 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 on March 29, 1911.

I examine the adjustments of the transit, correct the level and collimation errors; then to test the solar appatatus by comparing its indications resulting

SUBDIVISION T.31 S., R.10 W.

Chains

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.13,14,23, and 24, lat.38° 06' 53"N.; long.112° 52' 56" W., I set off 38° 07'N. on the lat. arc; 17° 16'N. on the decl.arc; and at 3 h 56 m p.m., l.m.t., determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5.00 chs. N. of the cor.

May 9, 1911.

May 10. At 4 h 23 m a.m.,l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined by a tack in a wooden plug 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°07'N. on the lat. arc; 17°27'N. on the decl.arc. and mark a point in the meridian determined with the solar by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.35 ins. E. of the meridian established by Polaris observation.

At 8 h 10 m a.m.,l.m.t., I lay off the azimuth of Polaris 1° 28.9' to the west, and mark the meridian thus determined by cutting a groove in the stone set May 9 on which the meridian falls 0.34 ins. E. of the meridian determined by the solar.

The solar apparatus by a.m. and p.m. observations defines positions for meridians, respectively about 0'18"E. and 0'18"W. 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 15m a.m. is N.16°04'W.; the angle thus determined gives the

SUBDIVISION T.31 S., R.10 W.

Chains	
	mag.decl.16°04'E.
	From the cor. of secs. 13,14,23, and 24, I run
	East on a random line bet. secs. 13 and 24,
40.00	Set temp.¼ sec. cor.
79.96	Intersect E.bdy.of Tp., 7 lks.S. of the cor. of secs. 13,18,19, and 24, heretofore described.
	Thence I run
	S. 89°57'W. on a true line bet secs. ~~14~~ 13 and ~~23~~ 24,
	Over rolling mountainous land; through dense sagebrush.
	Asc.
6.50	Top of ridge, 80 ft. above cor., bears N. and S.
	Desc.
10.50	Bottom of swale, 60 ft. below ridge, course S.
	Asc.
23.20	Top of Divide Ridge, 80 ft. above hollow, bears N.20°W. and S.20°E. Desc. abruptly.
24.00	Enter cedar timber, bears N.20°W. and S20°E.
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 13 in N. and S 24 in S. half; from which
	A cedar 10 ins.dia., bears N.25° E. 155 lks.dist., mkd. ¼ S 13 B T
	A cedar 7 ins.dia. bears S.87° W. 141 lks. dist., mkd. ¼ S 24 B T
79.96	The cor. of secs. 13,14,23, and 24.
	Land,mountainous E.23.20 chs. slopes southeasterly.
	W.56.76 chs. slopes westerly.
	Soil, sandy loam, well mixed with small pebbles; 2d rate.
	Subsoil, gravel.
	Timber, cedar. Undergrowth, sage.
	No grass.
	Mountainous land, or land covered with timber or brush 79.96 chs.

SUBDIVISION T.31 S., R.10 W.

Chains	
	N. 0°01'W. bet.secs.13 and 14,
	Over mountainous land; through cedar and pinon pine timber and dense sagebrush. Desc.
3.50	Bottom of hollow, 40 ft. below cor., course W.
12.80	Top of ridge, 150 ft. above hollow, bears E. and W. Desc.
17.50	Bottom of hollow, 100 ft. below ridge, course SW. Asc.
33.90	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 14 in W. half, and S 13 in E. half; from which
	A cedar 12 ins. dia. bears N.24°E. 20 lks. dist. mkd. ¼ S 13 B T
	A cedar 12 ins. dia. bears N.88°W. 30 lks. dist. mkd. ¼ S 14 B T
50.50	Bottom of hollow, 140 ft. below ridge, course SW. Asc.
62.80	Top of ridge, 150 ft. above hollow, bears NE. and SW. Desc. to point on same ridge.
72.30	Point bears NW. and SE.
78.00	Bottom of hollow, 200 ft. below ridge, course N.60° W. Asc.
80.00	Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs.11,12,13, and 14, mkd. on brass cap
	T 31 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 pinon pine 4 ins.dia., bears N.68° E. 86 lks. dist., mkd. T 31 S R 10 W S 12 B T

SUBDIVISION T.31 S., R.10 W.

Chains	
	A pinon pine, 12 ins. dia. bears S.82° E. 55 lks. dist., mkd. T 31 S R 10 W S 13 B T
	A pinon pine, 10 ins. dia. bears S.58° W.69 lks. dist., mkd. T 31 S R 10 W S 14 B T
	A pinon pine, 4 ins. dia. bears N. 56° W. 45 lks. dist., mkd. T 31 S R 10 W S 11 B T
	Land, mountainous, with smooth slopes.
	Soil, black loam, well mixed with lava rock.
	Subsoil, volcanic formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	No grass.
	Mountainous land, or land covered with timber or sage 80.00 chs.
	N. 89°57'E. on a random line bet. secs. 12 and 13,
40.00	Set temp. ¼ sec. cor.
79.98	Intersect E. bdy. of Tp. 7 lks. N. of the cor. of secs. 7, 12, 13 and 18, heretofore described. Thence I run West on a true line bet. secs. 12 and 13,
	Over high mountainous land; through heavy cedar and pinon pine timber and dense sagebrush. Asc.
6.10	Top of Divide Ridge, 90 ft. above cor., bears N.10° E. and S.10° W. Desc. abruptly.
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 12 in N. half, and S 13 in S. half; from which
	A pinon pine, 7 ins. dia., bears N.18° W. 61 lks. dist., mkd. ¼ S 12 B T
	A pinon pine, 8 ins. dia., bears S.73° W. 12 lks.

SUBDIVISION T.31 S., R.10 W.

Chains	
	dist., mkd. ¼ S 13 B T
79.98	600 ft. below ridge,
	The cor. of secs.11,12,13, and 14.
	Land, mountainous, sloping and draining westerly.
	Soil, black loam, 14 ins. deep, 2d rate.
	Subsoil, volcanic formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass in patches.
	Mountainous land, heavily timbered 79.98 chs.
	N. 0° 01'W. bet. secs. 11 and 12,
	Over mountainous land; through scattering timber and sagebrush. Asc. abruptly.
28.30	Top of ridge, 400 ft. above cor. bears N. 70° W. and S. 70° E.
	Enter heavy cedar and pinon pine timber, bears N. 70° W. and S. 70° E.
34.00	Desc. abruptly from ridge, bears N.50° W. and S50° 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 11 in W. half, and S 12 in E. half; from which
	A cedar 8 ins.dia. bears N.78° W. 39 lks. dist., mkd. ¼ S 11 B T
	A cedar 5 ins.dia. bears S 74° E. 22 lks. dist., mkd. ¼ S 12 B T
49.60	Bottom of hollow, 300 ft. below ridge, course west. Asc.
50.00	Leave timber, bears E. and W.
64.00	Top of ridge, 450 ft. above hollow, bears N.70° W. and S.70° E. Desc.
65.00	Enter heavy timber, bears E. and W.
80.00	200 ft. below ridge.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Set an iron post 3 ft. long, 2 ins. 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 10 W S 1 in NE.
	S 12 in SE.; and
	S 11 in SW. quadrants; from which
	A pinon pine 10 ins.dia.bears N.40° E. 61 lks.dist. mkd. T 31 S R 10 W S 1 B T
	A cedar 10 ins.dia.bears S.64° E. 16 lks.dist. mkd. T 31 S R 10 W S 12 B T
	A pinon pine, 8 ins.dia.bears S.8° W 68 lks.dist. mkd. T 31 S R 10 W S 11 B T
	A pinon pine, 7 ins.dia.bears N.23° W. 89 lks.dist. mkd. T 31 S R 10 W S 2 B T
	Land, mountainous.
	Soil, sandy loam.
	Subsoil, volcanic formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land heavily timbered 80.00 chs.
	May 10, 1911
	May 11, 1911: During a.m. hours the sky is overcast, solar observations are impossible.
	East on a random line bet. secs. 1 and 12,
40.00	Set temp. ¼ Sec. cor.
79.94	Intersect E.bdy.of Tp. 9 lks. S. of cor. of secs.1,6,7, and 12, heretofore described. Thence I run
	S. 89°56'W. on a true line bet. secs. 1 and 12.
	Over high mountainous country; through cedar and pinon pine timber and dense sagebrush. Asc.

SUBDIVISION T.31 S., R.10 W.

Chains	
17.00	Enter heavy cedar and pinon pine timber, bears N.and S.
19.00	Top of Divide Ridge, 200 ft. above cor., bears N.25° E. and S.25° W.
	Desc.
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 1 in N. half, and S 12 in S. half; from which
	A cedar 16 ins. dia. bears N.20° E. 17 lks. dist. mkd. ¼ S 1 B T
	A pinon pine, 8 ins. dia. bears S.8° W. 68 lks. dist., mkd. ¼ S 12 B T
79.94	The cor. of secs.1,2,11, and 12.
	Land, mountainous, sloping westerly.
	Soil, black loam, well mixed with lava rock; 3d rate, 12 ins. deep.
	Subsoil, volcanic formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass in patches.
	Mountainous land, or land covered with timber 79.94 chs.

N. 0° 01' W. bet. secs. 1 and 2,

	Over mountainous land; through cedar and pinon pine timber and dense sagebrush. Desc.
2.40	Bottom of hollow, 40 ft. below cor., course S. 0° W.
	Asc.
16.00	Top of ridge, 200 ft. above hollow, 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 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.
46.80	Bottom of hollow, 350 ft. below ridge, course N.85° W.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Asc.
53.90	Top of ridge, 200 ft. above hollow, bears E. and W.
	Desc.
95.10	Intersect Sixth Standard Parallel South 11.40 chs. N.89° 46'W. of the St.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 10 W S 35 S 36 in N. half, R 10 W S 1 in SE.; and T 31 S S 2 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high S of cor.
	Land, mountainous, sloping northwesterly.
	Soil, black loam, 12 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	No grass.
	Mountainous land, or land covered with timber and brush 95.10 chs.
	May 11, 1911: At this cor. I set off 17°45'N. on the lat. arc; and at 11h 56m a.m.,l.m.t., observe the sun on the meridian; the resulting lat. is 38°09'N., which is the proper lat. nearly.

	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,
	Over high mountainous land; through cedar and pinon pine timber and dense sage. Asc.
3.00	Ridge bears NE. and SW. Desc.
7.50	Leave timber, bears NE. and SW.
39.50	Bottom of swale, 350 ft. below cor., course W. Asc.

SUBDIVISION T.31 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. ¼ S 34 in W. half, and S 35 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 base, 1½ ft. high W. of cor.
46.50	Top of spur, 40 ft. above swale, bears E. and W.
	Desc.
53.10	Bottom of swale, 50 ft. below spur, course S.60° E.
	Asc.
79.00	Top of ridge, bears NW. and SE., 400 ft. above swale.
	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 10 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, rolling, mountainous, sloping and draining SE. in N. half, and SW. in S. half.
	Soil, sandy loam 2 ft. deep. Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land, or land covered with timber 80.00 chs.
	East on a random line bet. secs. 26 and 35,
40.00	Set temp. ¼ sec. cor.
79.92	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 mountainous land; through cedar and pinon pine

SUBDIVISION T.31 S., R.10 W.

Chains	
	timber and sagebrush.
	Desc.
12.00	Leave timber, bears N.20° E. and S.
21.60	Bottom of swale, 140 ft. below cor., course S.25° E.
22.40	Road from Milford to Kane Springs bears N.60° W. and S.25° E.
23.00	Ascent bears N.25° W. and S.25° E.
35.60	Top of ridge, 120 ft. above swale, bears N.30° W. and S. 30° E. 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 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.
41.90	Bottom of swale, 160 ft. below ridge, course SE.
	Asc.
48.90	Road from Milford to Kane Springs bears N.75° E. and S. 75° W.
52.50	Top of spur, 100 ft. above swale, bears N. and S.
	Desc.
58.40	Road, from Milford to Kane Springs, bears N.80° W. and S.80° E.
67.10	Bottom of swale, 60 ft. below spur, course SE.
	Asc.
79.92	The cor. of secs.26,27,34, and 35.
	Land, mountainous, sloping and draining SE.
	Soil, sand and black loam, well mixed with little pebbles; 2d rate.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass in patches.
	Mountainous land, covered with sagebrush or timber
	79.92 chs.

May 11, 1911.

SUBDIVISION T.31 S., R.10 W.

Chains	
	May 12, 1911: At 7h 56m a.m.,l.m.t., I set off 38° 05' N. on the lat.arc; 17° 58' N. on the decl.arc; and determine a meridian with the solar at the cor. of secs.26,27,34, and 35. Thence I run
	N. 0° 01' W. bet. secs.26 and 27,
	Over rolling mountainous land; through sagebrush. Asc.
3.00	Ridge, bears NE. and SW. Desc.
15.60	Road to Kane Springs bears N. 80° W. and S. 80° E.
21.25	Road in swale, 100 ft. below cor.; course NE. Road from Parewan to Milford 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 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.
45.75	Bottom of hollow; course E. Asc.
78.00	Top of ridge, 200 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.22,23,26, and 27, mkd. on brass cap,
	T 31 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.
	Land, mountainous.
	Soil, sand and clay.
	Subsoil, coarse sand and gravel.
	No timber.
	Undergrowth, sage.
	A little grass in patches.
	Mountainous land, or land covered with dense brush 80.00 chs.

SUBDIVISION T.31 S., R.10 W.

Chains	
	East on a random line bet. secs. 23 and 26,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	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 dense sagebrush.
	Asc.
15.00	Top of Divide Ridge, 75 ft. above cor.,bears N.and S.
	Desc.
26.75	Bottom of hollow, 200 ft. below ridge, course N.
	Enter scattering cedar timber. Asc.
36.05	Top of ridge, 130 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 $\frac{1}{4}$ sec.cor., mkd. on brass cap $\frac{1}{4}$ S 23 in N. half, and S 26 in S. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
58.50	Road from Parowan to Milford, in bottom of hollow, 300 ft. below ridge, course N. 30° E. and bears S. 30° W.
	Asc.
78.30	Top of ridge, 260 ft. above hollow, bears N. 30° E. and S. 30° W.
	Desc.
80.04	The cor. of secs.22,23,26, and 27,
	Land mountainous.
	Soil, sand and black loam, well mixed with small pebbles.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	A little grass.
	Mountainous land, or land covered with dense sage and timber 80.02 chs.

SUBDIVISION T.31 S., R.10 W.

Chains	
	N. 0° 01' W. bet. secs. 22 and 23,
	Over mountainous land; through dense sagebrush. Desc.
30.00	Bottom of hollow, 200 ft. below cor., course N. 15° E.
	Asc. abruptly.
36.50	Top of ridge, 400 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 22 in W. half, and S 23 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
50.00	Bottom of hollow, 200 ft. below ridge, course NE.
	Asc.
56.00	Top of ridge, 150 ft. above hollow, bears E. and W.
	Desc.
59.50	Bottom of hollow, 150 ft. below ridge, course E.
	Asc.
64.00	Top of spur, 100 ft. above hollow, bears E. and W.
	Desc.
67.50	Bottom of ravine, 100 ft. below spur, course E.
	Asc.
77.00	Top of point, 100 ft. above ravine, bears NE. and S.60°W.
	Desc.
80.00	Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs.14,15,22, and 23, mkd. on brass cap
	T 31 S S 15 in NW.
	R 10 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, sloping and draining easterly.
	Soil, black loam, 8 ins. to 20 ins. deep.
	Subsoil, gravel.
	No timber.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Undergrowth, sage.
	Very little grass.
	Mountainous land, or land covered with sage 80.00 chs.
	S.89°58'E. on a random line bet.secs.14 and 23,
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line 4 lks. S. of cor. of secs.13, 14,23, and 24. Thence I run
	West on a true line bet. secs.14 and 23,
	Over steep mountainous land; through dense sagebrush.
	Desc.
12.85	Bottom of swale, 180 ft. below cor., course N.70° W.
	Asc.
31.90	Top of ridge, 120 ft. above swale, bears NW. and SE.
	Desc.
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 14 in N. half, and S 23 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
41.50	Enter hollow, 200 ft. below ridge, course N.
42.20	Road from Parowan to Milford bears N. and S.
42.80	Leave hollow, bears N. and S.
	Asc.
50.25	Top of ridge, 180 ft. above hollow, bears N. and S.
55.20	Bottom of hollow, 170 ft. below ridge, course N.20° E.
77.50	Top of ridge, 300 ft. above hollow, bears N.30° E. and S.30° W. Desc.
80.00	The cor. of secs.14,15,22, and 23.
	Land, steep mountainous, draining northerly.
	Soil, sandy loam and clay.
	Subsoil, clay and shale.
	No timber.
	Undergrowth, sage.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Mountainous land covered with dense sage 80.00 chs.
	N. 0° 01' W. bet. secs. 14 and 15,
	Over steep mountainous country; through dense sagebrush.
	Desc.
9.40	Bottom of swale, 120 ft. below cor., course NE.
	Enter cedar and pinon pine timber, bears NE. and SW.
	Asc.
15.00	Top of spur, 100 ft. above swale, bears NE. and SW.
	Desc.
21.25	Bottom of swale, 90 ft. below spur, course N.65° 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 15 in W. half, and S 14 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
65.00	Top of point 400 ft. above swale, bears N. 65° E. and S. 65° W. Desc.
75.60	Bottom of swale, 370 ft. below point, course N.60° E.
	Asc.
80.00	Set an iron post 3 ft. long, 2 ins. 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 10 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, steep mountainous, sloping and draining NE.
	Soil, black loam and gravel mixed.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Good grass for grazing.
	Mountainous land, or land covered with timber and brush 80.00 chs.
	May 12, 1911.
	May 13, 1911: At 7h 56m a.m.,l.m.t., I set off 38°08'N. on the lat.arc; 18°13'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.
80.02	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 scattering cedar and pinon pine timber and sagebrush.
	Asc.
16.90	Top of ridge, 200 ft. above cor. bears N.20° E. and S. 20° W. Desc.
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 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.
61.50	Foot of descent; enter canon bottom, 300 ft. below ridge, bears N. and S., drains N.
64.60	Road from Milford to Parowan bears N. and S.
65.40	Asc. Leave canon, bears N. and S.
72.00	Top of ridge, 150 ft. above canon, bears NE. and SW. Desc.
76.00	Bottom of hollow, 140 ft. below spur, course NE. Asc.
80.02	The cor. of secs.10,11,14, and 15.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Land, mountainous.
	Soil, sandy loam, covered with volcanic rock.
	Subsoil, volcanic formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage. A little grass in patches.
	Mountainous land, covered with timber and brush 80.02 chs.
	N. 0° 01' W. bet. secs. 10 and 11,
	Over steep mountainous land; through scattering cedar and pinon pine timber and dense sagebrush. Asc.
5.75	Top of spur, 150 ft. above cor., bears E. and W. Desc.
25.30	Bottom of swale, 180 ft. below spur, course S.80°E. Asc.
29.00	Top of spur, 120 ft. above swale, bears E. and W. Desc.
39.00	Foot of descent; enter flat in mouth of canon, 125 ft. below spur, 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 W. half, and S 11 in E. half; from which
	A cedar 10 ins. dia. bears N.7°30°E. 313 lks. dist. mkd. ¼ S 11 B T
	A cedar 9 ins. dia. bears S.60° W. 43 lks. dist. mkd. ¼ S 10 B T
62.50	Old road bears N.70° W. and S70° E.
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 31 S S 3 in NW.
	R 10 W S 2 in NE.
	S 11 in SE.; and
	S 10 in SW. quadrants; from which
	A cedar 6 ins. dia. bears N.52° E. 115 lks. dist. mkd. T 31 S R 10 W S 2 B T

SUBDIVISION T.31 S., R.10 W.

Chains	
	A cedar 10 ins.dia., bears S.28° E. 125 lks.dist. mkd. T 31 S R 10 W S 11 B T
	A cedar 8 ins.dia. bears S.34° W.62 lks.dist. mkd. T 31 S R 10 W S 10 B T
	A cedar 8 ins.dia. bears N.15° W. 84 lks. dist. mkd. T 31 S R 10 W S 3 B T
	Land, steep, mountainous, sloping easterly.
	Soil, sandy loam, well mixed with lava and cobble rock.
	Subsoil, gravel.
	Timber, cedar and pinon pine. Undergrowth, sage.
	Very little grass.
	Mountainous land, or land covered with timber and brush 80.00 chs.
	May 13, 1911: At this cor. I set off 18° 16'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°09'N. which is the proper lat. nearly.
	S. 89°59'E. on a random line bet.secs.2 and 11,
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N.and S.line 2 lks. S. of cor. of secs.1,2, 11, and 12. Thence I run
	West on a true line bet.secs.2 and 11,
	Over high mountainous land; through heavy cedar and pinon pine timber and sage and buck brush. Asc.
21.00	Top of ridge, 150 ft. above cor., bears N.70°W. and S. 70°E. Leave heavy timber; Desc. through scattering timber bearing N.70°W. and S.70°E.
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 2 in N. half, and S 11 in S. half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
76.00	Foot of descent, 400 ft. below ridge, bears N. and S. Enter flat.
76.20	Road from Milford to Parowan, bears N. and S.

SUBDIVISION T.31 S., R.10 W.

Chains	
79.10	Wash from canon 40 lks. wide, 4 ft. deep, course N.5°W.
80.06	The cor. of secs. 2, 3, 10, and 11.
	Land, mountainous, sloping westerly.
	Soil, black loam, mixed with lava rock.
	Subsoil, volcanic and gravel.
	Timber, cedar and pinon pine. Undergrowth, sage.
	No grass.
	Mountainous land, or land covered with timber or brush 80.06 chs.
	N. 0° 01' W. bet. secs. 2 and 3,
	Over flat land; through scattering cedar and pinon pine timber and dense sagebrush.
1.75	Wash, 40 lks. wide, 4 ft. deep, course N.15°W.
18.00	Leave timber, bears E. and W.
20.00	Road from Milford to Parowan bears N.5°W. and S.5°E.
40.00	Point in same road, bears N.5°E. and S.5°W., impossible to perpetuate corner at this point; therefore at
40.91	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness ¼ sec.cor. mkd. W C ¼ S 3 in W. half, and S 2 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
41.50	Same road bears N.5°W. and S.5°E.
51.21	Same road bears N.15°E. and S.15°W.
95.56	Intersect Sixth Standard Parallel South, 11.38 chs. West of the standard cor. of secs. 34 and 35, heretofore described.
	Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 2 and 3, mkd. on brass cap
	C C T 30 S R 10 W S 34 S 35 in N. half,
	S 2 in SE.; and
	S 3 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high S. of cor.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Land, flat, gentle slope to N.
	Soil, sandy loam and gravel, 12 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Level land, or land covered with timber or brush 95.56 chs.
	May 13, 1911.
	John R Stewart
	Instrumentman G.L.O.
	May 12, 1911: At 7h 56m a.m.,l.m.t., I set off 38°04'N. on the lat.arc; 17°58'N. on the decl.arc; and determine a meridian with the solar at the cor. of secs.3, 4,33, and 34 on S bdy. of Tp., heretofore described.
	Thence I run
	N. 0°02'W. bet. secs. 33 and 34,
	Over rolling mountainous land; through dense sagebrush.
	Ascend.
24.00	Enter 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 ¼ S 33 in W. half and S 34 in E. half; from which
	A cedar 7 ins.dia.bears N.57°E. 64 lks. dist. mkd. ¼ S 34 B T
	A cedar 8 ins.dia.bears N.47°30'W. 107 lks.dist. mkd. ¼ S 33 B T
40.20	Top of ridge, 180 ft. above sec. cor., bears N.50°E. and S.50°W. Desc. .
63.65	Bottom of swale, 100 ft. below ridge, course S.80°W. Asc.
64.30	Road to Horse Valley bears N.80° 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. 27,28,33, and 34, mkd.on

SUBDIVISION T.31.S., R.10 W.

Chains	
	brass cap
	T 31 S S 28 in NW.
	R 10 W S 27 in NE.
	S 34 in S E.; and
	S 33 in S W. quadrants; from which
	A cedar 10 ins.dia.bears N.26°E. 104 lks. dist. mkd. T 31 S R 10 W S 27 B T
	A cedar 7 ins.dia.bears S.17°E. 119 lks. dist. mkd. T 31 S R 10 W S 34 B T
	A cedar 5 ins.dia.bears S.17°15'W. 118 lks.dist. mkd. T 31 S R 10 W S 33 B T
	A cedar 6 ins.dia.bears N.32°30'W. 255 lks.dist. mkd. T 31 S R 10 W S 28 B T
	Land, mountainous; draining easterly.
	Soil, sandy loam, 8 ins. to 16 ins. deep.
	Subsoil, gravel and coarse sand.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	No grass.
	Rolling mountainous land, covered with cedar and pinon pine timber or sagebrush 80.00 chs.
	East on a random line bet. secs. 27 and 34,
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line 7 lks. N. of the cor. of secs. 26,27,34, and 35. Thence I run
	N.89°57'W. on true line bet.secs. 27 and 34,
	Over rolling mountainous land; through cedar and pinon pine timber and dense sage.
2.20	Top of Divide Ridge, bears NE., SE., and SW.
	Desc.
16.20	Road between Parowan and Milford bears N.20° E. and S.

Chains	
	20° W.
	Swale 200 ft. below ridge, course N.20° E.
	Asc.
25.70	Road to Horse Valley, bears N.50° E. and S.50° W.
37.30	Top of ridge, 250 ft. above swale, bears N.20° W. and S. 20° E. 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 27 in N. and S 34 in S. half; from which
	A cedar 7 ins.dia.bears N.7° E. 193 lks. dist. mkd. ¼ S 27 B T
	A cedar 12 ins.dia.bears S.45° W. 518 lks. dist. mkd. ¼ S 34 B T
54.44	Bottom of swale, 100 ft. below ridge, course N.15° W.
	Ascend.
71.00	Top of ridge, 90 ft. above swale, bears NW. and S.5° E.
	Desc.
80.06	The cor. of secs. 27,28,33, and 34.
	Land, rolling, mountainous.
	Soil, sandy loam, 12 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Rolling mountainous land, covered with timber or brush 80.06 chs.
	May 13, 1911: At the noon hour the sky is overcast, making solar observations impossible.

N. 0° 02' W. bet secs. 27 and 28

Over rolling mountainous land; through cedar and pinon pine timber and dense sagebrush. Asc.

SUBDIVISION T.31 S., R.10 W.

Chains	
8.00	Top of ridge, 120 ft. above cor., bears N.60° W. and S. 60° E. Desc.
18.60	Old 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 28 in W. half, and S 27 in E. half; from which A cedar 18 ins.dia.bears S.36° E. 16 lks.dist. mkd. ¼ S 27 B T A cedar 10 ins.dia.bears N82°W. 70 lks.dist. mkd. ¼ S 28 B T
41.00	Bottom of swale, 100 ft. below ridge, course S.80° E. Asc.
69.00	Top of ridge, 100 ft. above swale, bears N.5° E. and S. 5° W. Desc.
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 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, sloping southeasterly. Soil, sand and black loam, 6 to 18 ins. deep, mixed with pebbles. Subsoil, gravel. Timber, cedar and pinon pine. Undergrowth, sage. Grass in patches. Rolling mountainous land or land covered with timber and brush 80.00 chs.

S.89°57'E. on a random line bet.secs.22 and 27,

SUBDIVISION T.31 S., R.10 W.

Chains	
40.00	Set. temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line 2 lks. S. 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 sagebrush.
	Desc.
9.30	Bottom of hollow, 200 ft. below cor., course N.30° E.
	Asc.
22.20	Top of ridge, 200 ft. above hollow, bears NE. and SW.
	Desc.
39.20	Bottom of hollow, 200 ft. below ridge, course N20° E.
	Asc.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 20 ins. in the ground, to solid rock, surrounded by a mound of earth and stone, for $\frac{1}{4}$ sec.cor., mkd. on brass cap $\frac{1}{4}$ S 22 in N. half, and S 27 in S. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
51.50	Top of ridge, 220 ft. above hollow, bears N.40° E. and S 40° W. Desc.
63.00	Bottom of hollow, 160 ft. below ridge, course S.10° W.
	Asc.
77.00	Top of ridge, 120 ft. above hollow, bears N. and S.
	Desc.
80.00	The cor. of secs.21,22,27, and 28.
	Land, mountainous, sloping and draining southeasterly.
	Soil, sandy loam, mixed with pebbles.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Mountainous land, or land covered with brush 80.00 chs.

N.0° 02'W. bet. secs. 21 and 22,

SUBDIVISION T.31 S., R.10 W.

Chains	
	Over mountainous land; through dense sagebrush and cedar timber. Desc.
7.20	Top of ridge, 40 ft. above cor., bears N.20° W. and S. 20° E. Desc.
23.75	Bottom of hollow, 115 ft. below ridge, course S.70° 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 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.
40.10	Top of point, 40 ft. above hollow, bears NW. and SE. Desc.
42.00	Bottom of hollow, 40 ft. below point, course SE. Asc.
62.00	Top of ridge, 150 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.15,16,21, and 22, mkd. on brass cap T 31 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 cedar 4 ins.dia., bears N.49°E. 230 lks.dist. mkd. T 31 S R 10 W S 15 B T A cedar 36 ins.dia. bears S.23°E. 155 lks.dist. mkd. T.31 S R 10 W S 22 B T A cedar 8 ins.dia. bears S 87°W. 225 lks.dist. mkd. T 31 S R 10 W S 21 B T A cedar 4 ins.dia. bears N.4°W. 73 lks.dist. mkd. T 31 S R 10 W S 16 B T
	Land, mountainous, draining SE.
	Soil, black loam and clay, 12 ins. deep.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Subsoil, clay and gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land, covered with timber and brush 80.00 chs.
	May 12, 1911.
	May 13, 1911: At 7h 56m a.m.,l.m.t., I set off 38° 07'N. on the lat.arc; 18°13'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.
80.02	Intersect N. and S. line 7 lks. S. of cor. of secs.14, 15,22, and 23. Thence I run
	S. 89°59'W. on a true line bet.secs.15 and 22,
	Over rolling mountainous land; through dense sage and cedar timber. Desc.
15.00	Bottom of hollow, 150 ft. below cor., course NE. Asc.
39.60	Top of ridge, 180 ft. above hollow, bears N. and S. Desc.
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.20°W. 5 lks.dist. mkd. ¼ S 15 B T
	A cedar 8 ins.dia. bears S.50°W. 7 lks.dist. mkd. ¼ S 22 B T
50.25	Bottom of hollow, 100 ft. below ridge, course SE. Ascend.
74.25	Top of spur, 200 ft. above hollow, bears N. and S.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Desc.
80.02	The cor. of secs.15,16,21, and 22.
	Land, mountainous.
	Soil, sand and black loam, 12 ins.deep.
	Subsoil, gravel and coarse sand.
	Timber, cedar.
	Undergrowth, sage.
	A little grass.
	Mountainous land covered with timber or sage 80.02 chs.
	N. 0°02'W. bet.secs.15 and 16.
	Over steep mountainous land; through cedar and pinon pine timber and dense sagebrush. Desc.
13.75	Bottom of swale, 60 ft. below cor., course E.
	Asc.
23.50	Top of ridge, 100 ft. above swale, bears N.80°W. and S.80°E.
33.25	Bottom of hollow, 100 ft. below ridge, course 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 16 in W. half, and S 15 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
46.50	Top of ridge, 100 ft. above hollow, bears NW. and SE.
	Desc.
50.50	Foot of descent; enter broad bottom swale, bearing NW. and SE., 100 ft. below ridge.
70.00	Asc. bears E. and W.
78.00	Top of ridge 200 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.9,10,15,and 16, mkd. on brass cap

SUBDIVISION T.31 S., R.10 W.

Chains	
	T 31 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. bears N.62°W. 204 lks. dist., mkd. T.31 S R 10 W S 9 B T
	No other trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, mountainous.
	Soil, sandy, well mixed with lava rock.
	Subsoil, volcanic formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land, or land covered with timber and brush 80.00 chs.
	May 13, 1911° At this cor. I set off 18°16'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°08'N., which is the proper lat. nearly.
	N. 89°59'E. on a random line bet.secs.10 and 15,
40.00	Set temp. ¼ sec.cor.
80.10	Intersect N. and S. line 2 lks. N. of cor. of secs.10, 11,14, and 15. Thence I run
	West on a true line bet. secs.10 and 15,
	Over high mountainous land; through cedar timber and sagebrush. Asc.
15.00	Top of spur, 140 ft. above cor., bears N.60°W. and S. 60°E. Desc.
20.00	Bottom of hollow, 150 ft. below spur, course S.60°E. Asc.
40.05	Set an iron post 3 ft. long, 1 in.in dia., 26 ins.in the

SUBDIVISION T.31 S., R.10 W.

Chains	
	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 8 ins.dia. bears NE. 20 lks.dist. mkd. ¼ S 10 B T
	A cedar 6 ins.dia. bears S.54°W. 64 lks.dist. mkd. ¼ S 15 B T
71.90	Top of ridge, 350 ft. above swale, bears N. and S.
	Desc.
80.10	The cor. of secs.9,10,15, and 16.
	Land, mountainous, sloping and draining easterly.
	Soil, sand and black loam.
	Subsoil, coarse sand and gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber or brush 80.10 chs.
	N. 0°02'W. bet.secs.9 and 10,
	Over rough mountainous land; through dense sage and cedar and pinon pine timber. Desc.
5.00	Head of hollow, 100 ft. below cor., course NW.
	Asc.
11.25	Top of point, 50 ft. above swale, bears NW. and SE.
	Desc.
24.25	Bottom of swale, 50 ft. below point, course NW.
	Asc.
27.30	Top of ridge, 200 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 9 in W. half, and S 10 in E. half; from which

SUBDIVISION T.31 S., R.10 W.

Chains	
	A cedar 10 ins.dia. bears NE.63 lks.dist., mkd. ¼ S 10 B T
	A cedar 8 ins.dia. bears N.86°W. 72 lks.dist. mkd. ¼ S 9 B T
50.00	Foot of descent, 400 ft. below ridge, bears E. and W.
	Leave 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 31 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, mountainous, sloping and draining northwesterly.
	Soil, sand and black loam.
	Subsoil, gravel and black loam.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber or sage 80.60 chs.
	East on a random line bet.secs.3 and 10.
40.00	Set temp. ¼ sec.cor.
80.16	Intersect N. and S. line 5 lks. S. of 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 bench land; through cedar timber and sagebrush.
9.20	Old road bears N.60°W. and S.60°E.
10.00	Asc. bears N.60° W. and S.
24.00	Top of spur, 100 ft. above cor., bears N. and S.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Descend to flat. Leave timber, bearing N. and S.
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 3 in N. half, and S 10 in S. half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
41.60	Wash, 10 lks. wide, 1 ft. deep, course N.12°W.
80.16	The cor. of secs.3,4,9, and 10.
	Land, rolling, sloping and draining N.
	Soil, sandy loam, 12 to 16 ins.deep, 2d rate.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	No grass.
	Rolling land, or land covered with timber and brush 80.16 chs.
	May 13, 1911.

	May 16, 1911: At 7h 56m a.m., l.m.t., I set off 38°09' N. on the lat.arc; 18°57'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 bench land; through scattering cedar timber and dense sage.
8.25	Old road, bears E. and W.
35.00	Wash, 15 lks.wide, 4 ft.deep, course N.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 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.
44.00	Wash, 10 lks.wide, 2 ft.deep, course N.10°E.
50.75	Wash, 15 lks.wide, 1 ft.deep, course NE.
69.70	Wash, 17 lks.wide, 1 ft.deep, course NE.

SUBDIVISION T.31 S., R.10 W.

Chains	
75.00	Wash, 30 lks.wide, 2 ft.deep, course N.60°W. Asc.
84.00	Top of ridge, 90 ft. above wash, bears N.60°W. and S. 60°E. Desc.
93.00	Bottom of draw, 60 ft. below ridge, course NW. Asc.
95.58	Intersect Sixth Standard Parallel South, 10.95 chs.N. 89°56'W. of St. cor. of secs.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 30 S R 10 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, nearly level, sloping and draining N.
	Soil, sandy loam, mixed with gravel.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Nearly level land covered with timber or brush 95.58 chs.
	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 rolling mountainous country; through heavy cedar timber and dense sagebrush. Asc.
2.00	Top of ridge, 20 ft. above cor., bears E. and W. Desc.
16.00	Leave timber, bears N.30°E. and S.30°W.
21.00	Foot of descent, bears N.30°E. and S.30°W.

SUBDIVISION T.31 S., R.10 W.

Chains	
29.90	Wash in swale, 20 lks.wide, 2 ft.deep, course S.30°W. Asc.
33.10	Road to Horse Valley, 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 $\frac{1}{4}$ sec.cor., mkd. on brass cap $\frac{1}{4}$ S 32 in W. half, and S 33 in E. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ 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.28,29,32, and 33, mkd. on brass cap T 31 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, $1\frac{1}{2}$ ft. high W. of cor.
	Land, rolling, mountainous, slopes and drains south-westerly.
	Soil, sand and black loam, well mixed with cobble rock.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	A little grass.
	Mountainous land, or land covered with timber or brush 80.00 chs.
	May 6, 1911: At this cor. I set off 18°59'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°05'N., which is the proper lat. nearly.

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

40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.98	Intersect N. and S. line at the cor. of secs.27,28,33, and 34. Thence I run

SUBDIVISION T.31 S., R.10 W.

Chains	
	West on a true line bet. secs.28 and 33,
	Over rolling mountainous land; through cedar and pinon pine timber and sagebrush. Desc.
10.25	Bottom of swale, 100 ft. below cor., course S.40°E.
	Asc.
25.00	Leave timber, bears N. and S.
	Enter dense sagebrush.
26.00	Top of spur, 100 ft. above swale, bears NW. and SE.
38.75	Bottom of swale, 100 ft. below ridge, course SW.
	Asc.
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 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.
42.60	Top of spur, 90 ft. above swale, bears N.30°W. and S. 30°E. Desc.
47.80	Bottom of swale, 90 ft. below spur, course S.20°E.
	Asc.
55.50	Top of ridge, 110 ft. above swale, bears N.10°W. and S. 10°E.
74.00	Bottom of swale, 150 ft. below ridge, course S 10°W.
	Asc.
79.98	The cor. of secs.28,29,32, and 33.
	Land, rolling, mountainous, sloping and draining southerly.
	Soil, sandy loam, mixed with cobble rock.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass in patches.
	Rolling mountainous land, covered with timber or dense brush 79.98 chs.

SUBDIVISION T.31 S., R.10 W.

Chains	
	N. 0°03'W. bet.secs.28 and 29,
	Over rolling mountainous land; through dense sagebrush.
	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 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.
66.80	Top of ridge, 200 ft. above sec.cor., bears NW. and SE.
	Desc.
74.00	Bottom of swale, 80 ft. below ridge, course SE.
	Asc.
80.00	Set an iron post 3 ft. long, 1 in.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 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, rolling, mountainous, sloping S. and southeasterly.
	Soil, sandy loam, 18 ins.deep, 2d rate.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	Rolling mountainous land, or land covered with dense sagebrush 80.00 chs.
	May 16, 1911.

May 17, 1911: At 7h 56m a.m.,l.m.t., I set off 38°06'N. on the lat.arc; 19°11'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

SUBDIVISION-T.31 S., R.10 W.

Chains	
	East on a random line bet.secs.21 and 28,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.00	Intersect N. and S. line at the cor. of secs.21,22,27, and 28. Thence I run
	West on a true line bet.secs.21 and 28,
	Over rolling mountainous land; through dense sagebrush.
	Desc. abruptly.
10.25	Bottom of hollow, 140 ft. below cor., course S.5°E.
	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 21 in N. half, and S 28 in S. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
40.75	Top of ridge, 200 ft. above hollow, bears N. and S.
	Desc.
48.20	Bottom of hollow, 140 ft. below ridge, course S.20°E.
	Asc.
75.00	Top of ridge, 160 ft. above hollow, bears N. and SE.
	Desc.
80.00	The cor. of secs.20,21,28, and 29.
	Land, mountainous, sloping and draining southerly.
	Soil, sand and black loam, 16 ins.deep, 2d rate; medium texture.
	Subsoil, gravel.
	Undergrowth, sage.
	Mountainous land, covered with brush 80.00 chs.
	N. 0°03'W. bet.secs.20 and 21,
	Over mountainous land; through cedar and pinon pine timber and dense sagebrush. Asc.
15.00	Top of ridge, 100 ft. above cor., bears NW. and SE.
	Desc.
28.75	Bottom of draw, 90 ft. below ridge, course E.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Asc.
39.90	Top of spur, 70 ft. above draw, bears N.60°W. and S.60° E. Desc.
40.00	Set an iron post 3 ft. long, 1 in.in dia., 16 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 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.
48.30	Bottom of swale, 100 ft. below spur, course S.55°E.
	Asc.
50.00	Top of spur, 40 ft. above swale, bears NW and SE.
	Desc.
53.00	Bottom of hollow, 50 ft. below spur, course SE.
	Asc.
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 10 W S 16 in NE. S 21 in SE.; and S 20 in SW. quadrants; from which A pinon pine, 10 ins.dia. bears N.47°E. 86 lks. dist., mkd. T 31 S R 10 W S 16 B T A cedar, 8 ins.dia. bears S.32°30'E. 57 lks.dist. mkd. T 31 S R 10 W S 21 B T A cedar, 6 ins.dia. bears S.28°30'W. 165 lks. dist., mkd. T 31 S R 10 W S 20 B T A cedar 8 ins.dia. bears N.45°15'W. 215 lks.dist. mkd. T 31 S R 10 W S 17 B T
	Land, mountainous, sloping SE.
	Soil, black loam, well mixed with cobble rock; 2d rate.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.

SUBDIVISION T.31 S., R.10 W.

Chains	
	A little grass.
	Mountainous land, covered with timber and brush 80.00 chs.
	May 17, 1911: At this cor. I set off 19°13'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°07'N.,which is the proper lat. nearly.
	East on a random line bet. secs. 16 and 21,
40.00	Set temp. ¼ sec.cor.
80.06	Intersect N. and S. line 3 lks. S. of cor. of secs.15, 16,21, and 22. Thence I run
	S. 89°59'W. on a true line bet.secs.16 and 21,
	Over high,steep,mountainous land; through cedar timber and dense sagebrush.
	Desc.
18.00	Bottom of draw, 200 ft. below cor., course NE.
	Asc. abruptly.
39.00	Top of ridge, 300 ft. above draw, bears N.50°W. and S. 50°E. Desc.
40.03	Set an iron post 3 ft. long, 1 in.in dia., 14 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 16 in N. half, and S 21 in S. half; from which
	A cedar 8 ins.dia. bears N.35°E. 20 lks.dist., mkd. ¼ S 16 B T
	A cedar 8 ins.dia. bears S.42°E. 31 lks.dist., mkd. ¼ S 21 B T
41.00	Enter heavy timber, bears N. and S.
44.50	Bottom of swale, 90 ft. below ridge, course SE. Asc.
56.00	Top of ridge, 70 ft. above swale, bears NW. and SE.
	Desc.
70.00	Bottom of swale, 150 ft. below ridge, course SE.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Asc.
76.50	Top of ridge, 200 ft. above swale, bears N.40°W. and S. 40°E. Desc.
80.06	The cor. of secs.16,17,20, and 21.
	Land, steep, mountainous, sloping SE.
	Soil, clay and black loam, 14 ins. deep.
	Subsoil, clay and volcanic formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Steep mountainous land, covered with timber and sage-brush 80.06 chs.
	N. 0°03'W. bet.secs.16 and 17,
	Over high, steep, mountainous country; through cedar and pinon pine timber and scattering sage and buck brush. Asc.
5.50	Top of ridge, 100 ft. above cor., bears NW. and SE.
	Continue over rolling top of high mountain.
34.40	Desc. abruptly, 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 17 in W. half, and S 16 in E. half; from which
	A cedar 12 ins.dia. bears N.45°E. 24 lks.dist. mkd. ¼ S 16 B T
	A cedar 10 ins.dia. bears N.50°W. 238 lks. dist. mkd. ¼ S 17 B T
45.00	Bottom of swale, 300 ft. below ridge, course NW.
	Asc.
58.70	Top of ridge, 140 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.8,9,16, and 17, mkd. on

Chains	
	brass cap T 31 S S 8 in NW. R 10 W S 9 in NE. S 16 in SE.; and S 17 in SW. quadrants; from which A cedar 8 ins.dia. bears N.65°E. 103 lks. dist. mkd. T 31 S R 10 W S 9 B T A cedar 8 ins.dia. bears S.75°20'E. 143 lks.dist. mkd. T 31 S R 10 W S 16 B T A cedar 12 ins.dia. bears S.43°30'E. 73 lks.dist. mkd. T 31 S R 10 W S 17 B T A pinon pine, 10 ins.dia. bears N.62°W. 64 lks. dist., mkd. T 31 S R 10 W S 8 B T Land, high, mountainous. Soil, sandy loam, 8 to 20 ins. deep, well mixed with lava rock. Subsoil, volcanic formation. Timber, cedar and pinon pine. Undergrowth, sage and buck brush. Good grass for grazing. Mountainous land, heavily timbered 80.00 chs. May 17, 1911.
	May 18, 1911: At 7h 56m a.m.,l.m.t., I set off 38°08' N. on the lat.arc; 19°25'N. on the decl.arc; and determine a meridian with the solar at the cor of secs. 8,9,16, and 17. Thence I run N. 89°59'E. on a random line bet.secs.9 and 16,
40.00	Set temp. ¼ sec.cor.
79.90	Intersect N. and S. line at the cor. of secs.9,10,15, and 16. Thence I run S. 89°59'W. on a true line bet.secs.9 and 16,
	Over high mountainous country; through cedar and pinon

SUBDIVISION T.31 S., R.10 W.

Chains	
	pine timber and dense sagebrush. Asc.
9.30	Top of ridge, 100 ft. above cor., bears N.30°W. and S 30°E. Desc.
15.00	Head of hollow, 150 ft. below ridge, course N.15°W. Asc.
20.60	Top of ridge, 140 ft. above hollow, bears N. and S. Desc.
24.00	Head of hollow, 100 ft. below ridge, course N.65°W. Asc.
28.00	Top of point, 80 ft. above hollow, bears N.70°W. and S. 70°E. 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 9 in N. half, and S 16 in S. half; from which A pinon pine, 9 ins.dia. bears N.68°W. 95 lks. dist., mkd. ¼ S 9 B T A cedar, 5 ins.dia. bears S.59°E. 192 lks.dist. mkd. ¼ S 16 B T
45.00	Bottom of swale, 120 ft. below point, course NW. Ascend.
75.00	Top of ridge, 100 ft. above swale, bears N.30°W. and S. 40°E. Desc.
79.90	The cor. of secs.8,9,16, and 17.
	Land, steep, mountainous, sloping and draining northerly.
	Soil, sand and black loam, 14 to 20 ins. deep.
	Subsoil, volcanic formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land, covered with timber 79.90 chs.

N. 0°03'W. bet.secs.8 and 9,

SUBDIVISION T.31 S., R.10 W.

Chains

Over steep mountainous land; through heavy cedar and pinon pine timber and sagebrush. Desc.

19.00 Bottom of hollow, 200 ft. below cor., course NE.

Asc.

28.00 Top of ridge, 80 ft. above hollow, bears N.40°E. and S.40°W.

Desc.

35.00 Bottom of swale, 120 ft. below ridge, course N.20°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 8 in W. half and S 9 in E. half; from which

A cedar 9 ins.dia. bears N.10°E. 63 lks.dist. mkd. ¼ S 9 B T

A cedar 10 ins.dia. bears S.60°W. 101 lks.dist. mkd. ¼ S 8 B T

43.80 Top of knoll on point, 130 ft. above swale, bears N.40° E. and S.35°W. Desc.

51.50 Bottom of hollow, 140 ft. below knoll, course NE.

Asc.

58.70 Top of ridge, 60 ft. above hollow, bears NE. and SW.

Desc. gradually.

67.60 Willow Spring, bears E.3.00 chs. from line; cold, clear water, about ½ second ft.

74.45 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.4,5,8,and 9, mkd. on brass cap

T 31 S S 5 in NW.

R 10 W S 4 in NE.

S 9 in SE.; and

S 8 in SW. quadrants; from which

A cedar 14 ins.dia. bears N.13°E. 19 lks.dist., mkd. T 31 S R 10 W S 4 B T

A cedar, 10 ins.dia. bears S.17°E. 62 lks.dist.

SUBDIVISION T.31 S., R.10 W.

Chains	
	mkd. T 31 S R 10 W S 9 B T
	A cedar 18 ins.dia.bears S.27°W. 48 lks.dist.
	mkd. T 31 S R 10 W S 8 B T
	A pinon pine, 8 ins.dia.bears N.20°W. 80 lks. dist., mkd. T 31 S R 10 W S 5 B T
	Land, mountainous, sloping NE.
	Soil, sand and white clay, 12 ins.deep.
	Subsoil, clay and gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land covered with timber and brush 80.00 chs.
	May 18,1911: At this cor. I set off 19°25'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°08'N., which is the proper lat. nearly.
	N.89°59'E. on a random line bet.secs.4 and 9,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.80	Intersect N. and S. line 11 lks. N. of 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 rolling mountainous land; through cedar and pinon pine timber and dense sagebrush. Asc. gradually.
30.20	Top of point 160 ft. above cor., bears N.20°E. and S. 20°W. Desc. gradually.
39.90	Set an iron post 3 ft. long, 1 in.in dia., 26 ins.in the ground, to solid rock, surrounded by a mound of earth and stone, for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 4 in N. half, and S 9 in S. half; from which
	A cedar 8 ins.dia. bears N.9°W. 85 lks.dist. mkd.

SUBDIVISION T.31 S., R.10 W.

Chains	
	¼ S 4 B T
	A cedar 16 ins.dia.bears S.88°W. 180 lks.dist. mkd. ¼ S 9 B T
57.80	Wash, 40 lks.wide, 2 ft.deep, course N.
	Asc. gradually.
63.20	Top of ridge, 60 ft. above wash, bears N. and S. Desc.
66.30	Stream from Willow Spring, 1 lk. wide, 3 ins.deep, in bottom of swale, 50 ft. below ridge, course N.
	Asc.
77.70	Old road, bears N. and S.
79.80	The cor. of secs.4,5,8, and 9.
	Land, rolling, mountainous, sloping and draining N.
	Soil, sand and gravel mixture, 10 ins.deep.
	Subsoil, coarse sand and gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass for grazing.
	Rolling mountainous land covered with timber and sagebrush 79.80 chs.
	N. 0°03'W. bet.secs.4 and 5,
	Over rolling mountainous land; through scattering cedar and pinon pine timber and dense sagebrush. 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 5 in W. half, and S 4 in E. half; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
44.75	Top of spur, 70 ft. above cor., bears N.30°E. and S.20° W. Desc.
48.00	Bottom of hollow, 40 ft. below spur, course NW.
	Asc.
51.50	Top of ridge, 60 ft. above hollow, bears NW. and SE.
	Desc.

SUBDIVISION T.31 S., R.10 W.

Chains

95.60 Intersect Sixth Standard Parallel South 10.02 chs.N.89° 57'W. of St. 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 10 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, rolling, mountainous, sloping and draining northerly.

Soil, sandy loam; 3d rate.

Subsoil, gravel and clay hardpan.

Timber, cedar and pinon pine.

Undergrowth, sage.

A little grass.

Mountainous land, or land covered with timber or brush 95.60 chs.

May 18, 1911.

Lumley Stewart

Instrumentman G.L.O.

May 16, 1911: At 7h 56m a.m., l.m.t., I set off 38°04' N. on the lat.arc; 18°57'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 rolling mountainous land; through cedar and pinon pine timber and dense sagebrush. Desc.

15.00 Leave timber, bears E. and W.

18.00 Foot of descent, bears E. and W., 100 ft. below cor.

SUBDIVISION T.31 S., R.10 W.

Chains

Enter rolling ground.

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

45.50 Road to Horse Valley bears NE. and SW.

65.00 Asc. abruptly, bearing E. and W.

80.00 Set an iron post 3 ft. long, 2 ins.in dia., 24 ins.in the ground, for cor. of secs.29,30,31, and 32, mkd. on brass cap

T 31 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.

Land, rolling, sloping southeasterly.

Soil, sandy loam, mixed with cobble rock.

Subsoil, gravel.

Timber, cedar and pinon pine.

Undergrowth, sage.

A little grass.

Rolling, mountainous land, or land covered with timber or brush 80.00 chs.

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

40.00 Set temp. ¼ sec.cor.

79.96 Intersect N. and S. line at the cor. of secs.28,29,32, and 33. Thence I run

West on a true line bet.secs.29 and 32,

Over rolling mountainous land; through dense sagebrush.

Asc.

18.60 Top of ridge, 70 ft. above cor., bears N.30°W. and S. 30°W. Desc.

SUBDIVISION T.31 S., R.10 W.

Chains	
19.10	Bottom of swale, 50 ft. below ridge, course S.10°E.
	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 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.
47.10	Road in bottom of swale, bears N. and S., course of swale S.10°E. Asc.
53.40	Top of ridge, 70 ft. above swale, bears N. and S. Desc.
59.00	Bottom of swale, 40 ft. below ridge, course S.40°E.
	Asc.
62.00	Top of ridge, 40 ft. above swale, bears N.30°W. and S. 30°E.
	Desc.
78.00	Bottom of swale, 50 ft. below ridge, course S.20°E.
	Asc.
79.96	The cor. of secs.29,30,31, and 32.
	Land, rolling, mountainous; sloping and draining southerly.
	Soil, sandy loam, mixed with cobble rock.
	Subsoil, gravel.
	Undergrowth, sage.
	Rolling mountainous land, or land covered with brush 79.96 chs.

West on a random line bet.secs.30 and 31.

40.00	Set temp. ¼ sec.cor.
80.82	Intersect W.bdy. of Tp. 3 lks. S. of cor. of secs. 25, 30, 31, and 36, heretofore described. Thence I run S.89°59'E. on a true line bet.secs.30 and 31,

SUBDIVISION T.31 S., R.10 W.

Chains

Over rolling mountainous land; through dense sagebrush.

Asc.

15.00 Top of ridge, 90 ft. above cor., bears N. and S.

Desc.

23.40 Bottom of swale, 70 ft. below ridge, course S.

Asc.

40.82 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; dig pits 18 x 18 x 18 ins. E. and W. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

65.00 Top of ridge, 60 ft. above swale, bears N. and S.

Desc.

80.82 The cor. of secs.29,30,31, and 32.

Land, rolling, mountainous, sloping S.

Soil, sandy loam, mixed with gravel.

Subsoil, gravel.

No timber.

Undergrowth, sage.

A little grass.

Rolling mountainous land, covered with dense brush 80.82 chs.

N. 0°03'W. bet.secs.29 and 30.

Over rolling mountainous land; through dense sagebrush.

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 W. half, and S 29 in E. half; dig pits 18 x 18 x 18 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

54.90 Old road, bears N.60°E. and S.60°W.

SUBDIVISION T.31 S., R.10 W.

Chains	
75.00	Enter scattering cedar timber, bears N. and S.
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 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.
	Land, rolling, sloping southerly.
	Soil, sand and gravel, mixed with black volcanic rock.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	Rolling land, or land covered with timber or sagebrush 80.00 chs.
	East on a random line bet.secs.20 and 29.
40.00	Set temp. ¼ sec.cor.
80.04	Intersect N. and S. line at the cor. of secs.20,21,28, and 29. Thence I run
	West on a true line bet.secs.20 and 29,
	Over mountainous land; through cedar and pinon pine timber and dense sagebrush. Desc.
3.00	Bottom of swale, 30 ft. below cor., course S.20°E.
	Asc.
11.00	Top of ridge, 90 ft. above swale, bears N.20°W. and S.
	Desc.
15.70	Bottom of hollow, 100 ft. below ridge, course S.
	Asc.
38.30	Top of ridge, 120 ft. above hollow, bears N. and S.
	Desc.
40.02	Set an iron post 3 ft. long, 1 in.in dia., 12 ins.in the

Chains

ground to solid rock, surrounded by a mound of earth and stone for ¼ sec.cor., mkd.on brass cap ¼ S 30 in N. half, and S 29 in S. half; from which

A cedar 8 ins.dia.bears N.84°30'W. 180 lks.dist. mkd. ¼ S 30 B T

A cedar 24 ins.in dia., bears S.7°W. 180 lks. dist., mkd. ¼ S 29 B T

43.70 Bottom of swale, 60 ft. below ridge, course S. Asc.

53.50 Top of spur, 50 ft. above swale, bears N. and S. Desc.

58.30 Bottom of hollow, 100 ft. below spur, course S.10°E. Road bears N.10°W. and S.10°E. Asc.

71,70 Top of ridge, 90 ft. above hollow, bears NE. and S.30°W. Desc.

77.00 Bottom of swale, 60 ft. below ridge, course S.10°E. Asc.

80.04 The cor. of secs.19,20,29, and 30.

Land, mountainous, sloping southerly.

Soil, white clay and gravel.

Subsoil, dark clay.

Timber, cedar and pinon pine.

Undergrowth, sage.

A little grass in patches.

Mountainous land, or land covered with timber and sagebrush 80.04 chs.

N. 89°59'W. on a random line bet.secs.19 and 30,

40.00 Set temp. ¼ sec.cor.

80.77 Intersect W. bdy of Tp. 5 lks. S. of the cor. of secs. 19,24,25, and 30, heretofore described. Thence I run

S. 89°57'E. on a true line bet.secs.19 and 30,

Over rolling mountainous land; through cedar timber and dense sagebrush. Asc.

SUBDIVISION T.31 S., R.10 W.

Chains	
5.60	Top of ridge, 60 ft. above cor., bears N.20°W. and S. 20°E. Desc.
13.75	Bottom of hollow, 100 ft. below ridge, course S. Asc.
16.20	Top of spur, 60 ft. above hollow, bears N.10°W. and S. 10°E. Desc.
22.50	Bottom of hollow, 60 ft. below spur, course S.20°W. Asc.
30.00	Top of spur, 70 ft. above hollow, bears N.15°E. and S. 15°W. Desc.
37.60	Bottom of hollow, 80 ft. below spur, course S.15°W. Asc.
40.77	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.
51.30	Top of ridge, 125 ft. above hollow, bears N.25°E. and S.25°W. Asc.
73.10	Bottom of hollow, 150 ft. below ridge, course S.5°W. Asc.
78.30	Top of ridge, 150 ft. above hollow, bears N. and S. Desc.
80.77	The cor. of secs.19,20,29, and 30.
	Land, mountainous, sloping and draining southerly.
	Soil, white clay and gravel; 3d rate.
	Subsoil, clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous land or land covered with timber and sage-brush 80.77 chs.

May 16, 1911.

John R. Stewart

Instrumentman G.L.O.

SUBDIVISION T.31 S., R.10 W.

Chains	
	May 19, 1911: At 7h 50m a.m.,l.m.t., I set off 35°08'N. on the lat.arc; 10°38'N. on the decl.arc; and determine a meridian with the solar at the cor. of secs.19, 20,30, and 29. Thence I run
	N. 0°03'W. bet.secs.19 and 20,
	Over mountainous land; through cedar timber and dense sagebrush. Asc.
9.00	Top of ridge, 120 ft. above cor., bears N.60°W. and S. 60°E. Desc.
16.00	Bottom of swale, 175 ft. below ridge, course S.80°E. Asc.
35.00	Top of spur, 130 ft. above bottom of swale, bears N.60° W. and S.60°E. Desc.
40.00	Set an iron post 3 ft. long, 1 in.in dia., 20 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 19 in W. half, and S 20 in E. half; from which
	A cedar 8 ins.dia. bears N.40° E. 7 lks.dist., mkd. ¼ S 20 B T
	A cedar 10 ins.dia. bears N.70°W. 43 lks.dist., mkd. ¼ S 19 B T
42.50	Bottom of swale, 100 ft. below spur, course SE. Asc.
71.80	Top of ridge, 700 ft. above swale, bears N.20°W. and S. 70°E.
80.00	Set an iron post 3 ft. long, 3 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 10 W S 17 in NE.
	S 20 in SE; and
	S 19 in SW. quadrants; from which
	A pinon pine 5 ins.dia. bears N.31°E. 47 lks. dist., mkd. T 31 S R 10 W S 17 B T

SUBDIVISION T.31 S., R.10 W.

Chains	
	A pinon pine, 8 ins.dia., bears S.28°E. 45 lks. dist., mkd. T 31 S R 10 W S 20 B T
	A pinon pine, 10 ins.dia. bears S.5°W. 59 lks. dist., mkd. T 31 S R 10 W S 19 B T
	A pinon pine, 5 ins.dia. bears N.1°30'W. 61 lks. dist., mkd. T 31 S R 10 W S 18 B T
	Land, mountainous, sloping southeasterly.
	Soil, clay and gravel mixture.
	Subsoil, white clay.
	Timber, cedar and pinon pine.
	Undergrowth, short sage.
	Good grass for grazing.
	High mountainous land, covered with timber and brush
	80.00 chs.
	East on a random line bet.secs.17 and 20,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.94	Intersect N. and S. line 2 lks. N. of 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,
18.70	Bottom of swale, 160 ft. below cor., course S.
	Asc.
25.30	Top of ridge, 200 ft. above swale, bears N. and S.
	Desc.
39.97	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 17 in N. half, and S 20 in S. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
47.50	Bottom of swale, 160 ft. below ridge, course S.5°E.
	Asc.
76.50	Top of ridge, 210 ft. above swale, bears N. and S.
	Desc.

SUBDIVISION T.31 S., R.10 W.

Chains

79.94 The cor. of secs.17,18,19, and 20.

Land, high mountainous sloping and draining southerly.

Soil, red sand and clay, well mixed with black volcanic rock.

Subsoil, clay and volcanic formation.

Timber, cedar and pinon pine.

Undergrowth, short sage.

Good grass in patches.

Mountainous land, or land covered with timber 79.94 chs.

May 19, 1911: At this cor. I set off 19°40°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°07'N.,which is the proper lat. nearly.

N. 89°57'W. on a random line bet.secs.18 and 19,

40.00 Set temp. ¼ sec.cor.

80.68 Intersect W.bdy. of Tp. 5 lks. S. of cor. of secs.13, 18,19, and 24, heretofore described.

Thence I run

S. 89°59'E. on a true line bet.secs.18 and 19,

Over high mountainous land; through cedar and pinon pine timber and sage and greasewood brush.

Asc. gradually.

30.00 Top of point, 100 ft. above cor., bears N.20°W. and S. 20°E. Desc.

30.00 Bottom of swale, 150 ft. below point, course N.30°W.

Asc.

40.00 Top of point 160 ft. above swale, bears N.20°W. and S. 20°E. Desc.

40.69 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.63°30'W. 155 lks.dist.

SUBDIVISION T. 31 S., R.10 W.

Chains	
	mkd. ¼ S 18 B T
	A cedar, 8 ins.dia. bears S.57°W. 60 lks. dist., mkd. ¼ S 19 B T
42.80	Bottom of swale, 120 ft. below point, course N.30°W. Asc.
50.00	Top of ridge, 160 ft. above swale, bears NW. and SE. Desc.
59.00	Bottom of swale, 90 ft. below ridge, course N.5°W. Asc.
72.00	Top of ridge, 140 ft. above swale, bears NW. and SE. Desc.
76.10	Bottom of draw, 100 ft. below ridge, course NW. Asc.
80.68	The cor. of secs.17,18,19, and 20.
	Land, steep mountainous, sloping NW.
	Soil, red sand and gravel, mixed with volcanic rock; 3d rate.
	Subsoil, gravel and volcanic formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage and greasewood.
	A little grass in patches.
	Steep mountainous land or land covered with timber and brush 80.68 chs.
	N. 0°03'W. bet. secs. 17 and 18,
	Over high steep mountainous land; through cedar and pinon pine timber and sage and greasewood brush.
8.00	Top of point 160 ft. above cor., bears N.50°W. and S. 50°E. Desc.
15.00	Bottom of draw, 150 ft. below point, course N.60°W. Asc.
26.05	Top of ridge, 200 ft. above draw, bears E. and N. 80°W. Desc.

SUBDIVISION T.31 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 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.
42.50	Bottom of hollow, 300 ft. below ridge, course N.60°W.
	Asc.
53.30	Top of ridge, 320 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.7,8,17, and 18, mkd.on brass cap
	T 31 S S 7 in NW.
	R 10 W S 8 in NE.
	S 17 in SE.; and
	S 18 in SW. quadrants; from which
	A cedar 5 ins.dia. bears N.47°E. 43 lks. dist. mkd. T 31 S R 10 W S 8 B T
	A cedar 8 ins.dia. bears S.23°E. 149 lks. dist. mkd. T 31 S R 10 W S 17 B T
	A cedar 4 ins.dia. bears S.55°W. 125 lks. dist. mkd. T 31 S R 10 W S 18 B T
	A cedar 5 ins.dia. bears N.19°W. 73 lks. dist. mkd. T 31 S R 10 W S 7 B T
	Land, steep, mountainous, sloping northwesterly.
	Soil, red sand and gravel; 3d rate.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage and greasewood.
	A little grass.
	Steep mountainous land, covered with timber and brush
	80.00 chs.

S. 89°59'E. on a random line bet. secs.8 and 17,

SUBDIVISION T.31 S., R.10 W.

Chains	
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.96	Intersect N. and S. line, 4 lks. S. of cor. of secs.8, 9,16, and 17. Thence I run S. 89°59'W. on a true line bet.secs.8 and 17, Over steep mountainous land; through cedar and pinon pine timber and dense sagebrush. Desc.
5.20	Bottom of swale, 90 ft. below cor., course N.40°E. Asc. abruptly.
10.80	Top of ridge, 100 ft. above swale, bears N. and S. Desc.
17.00	Bottom of hollow, 140 ft. below ridge, course N.5°W. Asc.
27.30	Top of ridge, 130 ft. above hollow, bears N. and S. Desc.
39.98	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 8 in N. half, and S 17 in S. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
43.90	Bottom of swale, 120 ft. below ridge, course NE. Asc.
47.30	Top of ridge, 90 ft. above swale, bears N. and S. Desc.
51.50	Head of hollow, 60 ft. below ridge, course N. Asc.
55.00	Top of point 60 ft. above hollow, bears N. and S. Desc.
72.00	Bottom of swale, 100 ft. below point, course N. 20°W. Asc.
75.20	Top of ridge, 85 ft. above swale, bears N.5°W. and S. 5°E. Desc.
79.00	Bottom of swale, 70 ft. below ridge, course N.20°W. Asc.
79.96	The cor. of secs.7,8,17, and 18. Land, steep, mountainous, sloping and draining northerly.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Soil, clay and gravel; 3d rate.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Steep mountainous land, covered with timber and brush
	79.96 chs.
	May 19, 1911.
	May 20, 1911: At 7h 56m a.m.,l.m.t., I set off 38°08' N. on the lat.arc; 19°51'N. on the decl.arc; and determine a meridian with the solar at the cor. of secs. 7,8,17, and 18.
	Thence I run
	N. 89°59'W. on a random line bet.secs.7 and 18,
40.00	Set temp. ¼ sec.cor.
80.63	Intersect W.bdy. of Tp. 16 lks. S. of the cor. of secs. 7,12,13, and 18, heretofore described. Thence I run
	S. 89°52'E. on a true line bet.secs.7 and 18,
	Over steep mountainous land; through cedar timber and sage and rabbit brush. Ascend to top of ridge.
8.90	Top of ridge, 60 ft. above cor., bears N.10°W. and S. 10°E. Desc.
13.50	Bottom of hollow, 100 ft. below ridge, course N. Asc.
27.10	Top of ridge, 175 ft. above hollow, bears NW. and SE. Desc.
37.40	Bottom of hollow, 120 ft. below ridge, course N. Asc.
40.63	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 20 ins.dia. bears N.48°W. 121 lks.dist.

SUBDIVISION T.31 S., R.10 W.

Chains	
	mkd. ¼ S 7 B T
	A cedar 4 ins.dia. bears S.59°E. 26 lks. dist. mkd. ¼ S 18 B T
46.10	Top of spur, 60 ft. above hollow, bears N. and S.
	Desc.
50.20	Bottom of hollow, 80 ft. below spur, course N.5°W.
	Desc.
67.50	Top of ridge, 60 ft. above hollow, bears NW. and SE.
	Desc.
80.63	The cor. of secs.7,8,17, and 18.
	Land, steep mountainous, slopes and drains northwesterly.
	Soil, red sand and gravel, mixed with volcanic rock.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage and rabbit brush.
	Good grass in patches.
	Mountainous land covered with timber and brush 80.63 chs.
	N. 0°03'W. bet.secs.7 and 8,
	Over mountainous land; through cedar timber and sage-brush.
	Desc.
1.90	Bottom of swale, 15 ft. below cor., course N.20°W.
	Asc.
9.25	Top of ridge, 100 ft. above swale, bears N.12°W. and S. 12°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 7 in W. half, and S 8 in E. half; from which
	A cedar 8 ins.dia. bears S.76°E. 151 lks.dist. mkd. ¼ S 8 B T
	A cedar 8 ins.dia. bears N.34°30'W. 184 lks.dist. mkd. ¼ S 7 B T

Chains	
70.00	Bottom of swale, 140 ft. below ridge, course NE.
	Asc.
80.00	Set an iron post 3 ft. long, 2 ins.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 10 W S 5 in NE.
	S 8 in SE.; and
	S 7 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, mountainous; draining northerly.
	Soil, red sand and gravel.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage and rabbit brush.
	A little grass.
	Mountainous land, covered with timber and sagebrush 80.00 chs.
	May 20, 1911: At this cor. I set off 19°52'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°09'N.,which is the proper lat. nearly.
	N. 89°59'E. on a random line bet.secs.5 and 8,
40.00	Set temp. ¼ sec.cor.
79,88	Intersect N. and S. line 4 lks. S. of cor. of secs.4, 5,8, and 9. Thence I run
	S. 89°57'W. on a true line bet.secs.5 and 8,
	Over mountainous land; through cedar timber and sagebrush. Asc.
7.45	Top of ridge, 80 ft. above cor., bears N. and S.
13.00	Foot of descent, 60 ft. below ridge, bears N.10°W. and S.10°E.
14.00	Wash, 30 lks. wide, 2 ft. deep, course N.10°W.

SUBDIVISION T. 31 S., R.10 W.

Chains	
31.70	Ascent bears N. and S.
35.00	Top of ridge, 100 ft. above wash, bears N. and S.
	Desc.
39.75	Bottom of hollow, 100 ft. below ridge, course N.
	Asc.
35.00	Top of ridge, 70 ft. above hollow, bears N. and S.
	Desc.
39.94	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 5 in N. half, and S 8 in S. half; from which
	A cedar 5 ins.dia. bears N.72°E. 27 lks.dist., mkd. ¼ S 5 B T
	A cedar 5 ins.dia. bears S.83°E. 31 lks.dist., mkd. ¼ S 8 B T
72.00	Bottom of hollow, 100 ft. below ridge, course N.3°E.
	Asc.
79.88	The cor. of secs. 5,6,7, and 8.
	Land, rolling, mountainous, sloping and draining northerly.
	Soil, sandy loam with cobble rock on surface.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	Fair grass for grazing.
	Mountainous land covered with timber and brush 79.88 chs.

N. 89°52'W. on a random line bet.secs.6 and 7,

40.00	Set temp. ¼ sec.cor.
80.42	Intersect W.bdy. of Tp. 1 lk. S. of the cor. of secs. 1,6,7, and 12, heretofore described. Thence I run
	S. 89°52'E. on a true line bet.secs.6 and 7,

SUBDIVISION T.31 S., R.10 W.

Chains	
	Over mountainous land; through cedar timber and dense sagebrush. Asc.
5.50	Top of ridge, 100 ft. above cor., bears N.10°W. and S. 10°E. Desc.
13.00	Bottom of swale, 130 ft. below ridge, course N.30°W. Asc.
30.20	Top of ridge, 140 ft. above swale, bears N.30°W. and S.10°E. Desc.
40.00	Bottom of hollow, 130 ft. below ridge, course N.20°E. Asc.
40.42	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 24 ins. dia. bears N.53°E. 334 lks. dist., mkd. ¼ S 6 B T A cedar 10 ins. dia. bears S.35°W. 42 lks. dist. mkd. ¼ S 7 B T
45.50	Top of point, 80 ft. above hollow, bears NW. and SE. Desc.
56.00	Bottom of hollow, 90 ft. below point, course N.30°W. Asc.
62.00	Top of ridge, 100 ft. above point, bears N. and S. Desc.
67.30	Bottom of hollow, 90 ft. below ridge, course N.3°W. Asc.
78.20	Top of ridge, 120 ft. above hollow, bears N. and S. Desc.
80.42	The cor. of secs. 5, 6, 7, and 8. Land, mountainous, draining northerly. Soil, red sand and gravel. Subsoil, gravel. Timber, cedar. Undergrowth, sagebrush. A little grass in patches.

SUBDIVISION T.31 S., R.10 W.

Chains	
	Mountainous land or land covered with timber and brush 80.42 chs.
	N. 0°03'W. bet. secs. 5 and 6,
	Over rolling mountainous land; through scattering cedar and sagebrush. Desc. gradually.
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 6 in W. half, and S 5 in E. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
47.00	Bottom of hollow, 100 ft. below sec.cor., course N.30° W. Asc.
60.75	Top of point, 70 ft. above hollow, bears N.10°W. and S. 10°E. Desc.
72.80	Bottom of hollow, 70 ft. below point, course N.30°E. Asc. gradually.
95.57	Intersect Sixth Standard Parallel South 8.70 chs. W. of the St. 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 10 W S 31 S 32 in N. half
	S 5 in SE.; and
	S 6 in SW. quadrants; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high S. of cor.
	Land, rolling, mountainous, sloping and draining northerly.
	Soil, red sand and gravel.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	A little grass in patches.
	Mountainous land, or land covered with timber and

SUBDIVISION T.31 S., R.10 W.

Chains

brush 95.59 chs.

May 20, 1911.

Lumby Stewart

Instrumentmen G.L.O.

GENERAL DESCRIPTION.

This township occupies a range of mountains between Minersville Valley on the north and the desert on the south. The mountains are generally steep, and some are almost rugged. They are covered with a growth of cedar and pinon pine timber in most places throughout the township; also a growth of sagebrush, which, as a rule is not so dense, except in places where the timber has not a heavy growth. The timber, at the present time, has no commercial value except for fuel or fence posts.

The sedimentary formation of the township is red sandstone, but it is covered with volcanic overflow, from 400 to 700 ft., and the sandstone crops out only in the deep canons and hollows.

The soil is generally a sandy loam, usually mixed with volcanic rock or cobble stones. The subsoil is gravel, except in a few places in the northwestern portion of the township, where it is white clay.

There is no land suitable for cultivation in the township; and would only be of value for winter and spring grazing, as the only water in the township, other than that accumulated by the precipitation, is Willow Spring in the NW.$\frac{1}{4}$ of Sec.9, which flows about $\frac{1}{2}$ second ft.

We found no trace of mineral in the township. There are no settlers in the township.

John R Stewart

Lumby Stewart

Instrumentmen 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:

....., *Chainman.*

For lists of names and final oaths of assistants see book ....., *Chainman.*

"Z[12]" 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

ose parts or portions of the .....

.....

.....

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

..... meridian, ... of ....., which are represented

the foregoing field notes as having been surveyed by him and under his direction; and that said survey

s been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

rner monuments established, according to the instructions furnished by the United States Surveyor

eneral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

6—151

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 o proper person, and in strict conformity with the instructions furnished by the United States Surve General for _____, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of _____

For final oath of transitmen see book "Z12" 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 solemn swear that all the corners of said survey have been established and perpetuated in strict accordance wi 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 th 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, 19

The foregoing field notes of the survey of the subdivisional lines of Township No.31 South, Range No. 10 West of the Salt Lake Base and Meridian, Utah,

executed by John R.Stewart and Quinby Stewart under his contract No. their special instructions, dated August 6, 1910 xxx, having be critically examined, and the necessary corrections and explanations made, the said field notes, and t 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

6—151

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Page

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Page

Courses and dist. MFY. WSH.
Obs.,fallings,cors.,EB.

4—679

"Z 9"
BOOK A-388

MSB.

FIELD NOTES

OF THE SURVEY OF THE

RETRACEMENT

SIXTH STANDARD PARALLEL SOUTH

THROUGH

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. ~~Surveyor-s~~ 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*....

Retracement ~~Survey~~ *commenced* May 16, *1911*

Retracement ~~Survey~~ *completed* May 18, *1911*.

6—151

NAMES AND DUTIES OF ASSISTANTS.

Isaac R.Hayes,	Chainman.
J.Clarence Clark,	Chainman.
Edgar S.Hurst,	Moundman.
Virgil Decker,	Axman.

BOOK A-388

INDEX DIAGRAM.

Township 31 South, *Range* 11 West

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BOOK A-388

INDEX DIAGRAM.

Township 31 South, *Range* 11 West

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Meanders Page .....

6—151

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~~ Retracement 6th Standard Parallel South, through Range 11 West, S.L.B.& M. Utah.

Isaac R. Hayes, Chainman.

J. Clarence Clark, Chainman.

Subscribed and sworn to before me this 16th day of May, 19 11.

SEAL

John R. Stewart

U.S. Transitman

~~WE~~, I Edgar S. Hurst ~~and~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of ~~moundman~~ 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~~ Retracement 6th Standard Parallel South, through 11 West, S.L.B.& M. Utah.

Edgar S. Hurst, Moundman.

, Moundman.

Subscribed and sworn to before me this 16th day of may, 19 11.

SEAL

John R. Stewart

U.S. Transitman

~~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~~ Retracement 6th Standard Parallel South, through Range 11 West, S.L.B.& M. Utah.

Virgil Decker, Axman.

, Axman.

Subscribed and sworn to before me this 16th day of May, 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

6—1'1

Retracement 6th Standard Parellel South, Range 11 W.

Survey commenced May 16, 1911: and executed with W and L.B. 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 merid an 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 observation; I proceed as follows:

At the standard cor. of Tps.30 S., Rs.10 and 11 W., heretofore described. latitude 38°09'30" north, longitude 112°59' 30" west, I set off 38°09'30" N., on the lat. arc; 19°02' N., on the decl. arc; and at 3 h 56 m a.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.

May 16, 1911.

May 17, 1911: At 3 h 54 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, 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 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 established by the solar.

At 7 h 56 m.am.m.l.m.t., I set off 38°09'30" N., on the lat. arc; 19°11' N., on the decl. arc; and mark the meridian deter-

Chains

mined by the solar by a cross on the stone already
5.00 chs. N. of the cor.; this mark falls 0.27 ins. east
the meridian established by Polaris observation.
The solar apparatus, by p.m. and a.m. observations defines
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
the instrument are satisfactory.
The magnetic bearing of the meridian at 8 h 30 m a.m. is
N. 15°55'W., the angle thus determined gives the mag. decl.
15°55'E.

From the standard cor. of Tps. 30 S., Rs. 10 and 11 W.
I run
West, on a retracement line along south side sec. 36.
Over rolling mountainous land; through dense sage brush.
Asc.
11.80 Top of ridge, 40 ft. above cor., bears N. 20°W. and S. 20°
E.
Desc.
31.00 Road, bears N. 20°W. and S. 20°E.
32.10 Bottom of hollow, 40 ft. below ridge, course N. 20°W.
Asc.
40.74 Fall 14 lks. S. of the Standard ¼ sec. cor. on S. side sec. 36
which is red sandstone, 5x8x4 ins. above ground, firmly set,
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 Standard ¼ sec. cor. mkd. on brass cap ¼ S 36 in
N. half; and raise a mound of stone, 2 ft. base, 1½ ft. high,
N. of cor.
43.70 Bottom of swale, 50 ft. below ridge, course N. 75°E.
Asc. gradually.
80.46 Fall 28 lks. S. of the standard cor. of secs. 35 and 36, which

Retracement 6th Standard Parallel South, through range 11 W.

Chains

is a gray sandstone, 4x8x8 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 standard cor. of secs. 35 and 36, mkd. on brass cap

T 30 S R 11 W. in N. half,

[illegible] S 35 in NW.; and

[illegible] S 36 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°48'W., 80.46 chs.

Land, mountainous with smooth and gradual slopes.

Soil, gravelly; 3rd rate.

No Timber,

Undergrowth, sage brush.

No grass.

Mountainous land, or land covered with dense undergrowth, 80.46 chs.

May 17, 1911: At this cor. I set off 19°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°09'N., which is the proper lat. nearly.

West, on a retracement line along the south side of sec. 35.

Over rolling mountainous land; through dense undergrowth.

Asc.

4.60 Top of ridge, 150 ft. above cor., bears N. and S.

Desc.

35.40 Foot of steep descent, 200 ft. below ridge, bears N. 30°E. and S. 30°W.

Desc. gradually.

35.60 Wash, 30 lks. wide, 3 ft. deep, course N. 30°E.

Retracement 6th Standard Parallel South, through Range 11 W.

Chains

40.47 Fall 16 lks.S.of the Standard ¼ sec.cor.,on S.side sec.35, which is a sandstone,13x10x8 ins.,above ground,loosely set and mkd.and witnessed as described by the surveyor general I re-established 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 standard ¼ sec.cor..mkd.on brass cap ¼ S 35 in N half;and raise a mound of stone,2 ft.base,1½ ft. high,N.of cor.

52.00 Road,bears N.and S.

53.10 Wash,20 lks.wide,2 ft.deep.course N.

77.40 Wash,30 lks.wide,1 ft.deep,course N.20°W.

81.04 Fall 21 lks.S.of the standard cor.of secs.34 and 35, which is a sandstone,12x12x6 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 standard cor.of secs. 34 and 35,mkd.on brass cap

T 30 S Rell W in.N half.

S 34 in NW.

S35 in NE.quadrants;and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.

The course of the east half of this mile is therefore N.89°46'W.,40.47 chs.;and the west half is N.89°56'W., 40.57 chs.

Land,mountainous.

Soil,gravelly and clay loam;2ft. deep.2nd rate.

No timber.

Undergrowth,sage brush.

No grass .

Mountainous land,or land covered with dense undergrowth, 81.04 chs.

Retracement 6th Standard Parallel South, through Range 11 W.

Chains	
	West, on a retracement line along south bdy. sec. 34.
	Over rolling mountainous land; through dense sage brush.
	Asc.
3.30	Top of knoll, 40 ft. high.
	Desc.
19.60	Bottom of hollow, 60 ft. below knoll, course N.5°W.
	Asc.
40.41	Fall 3 lks. S. of the standard ¼ sec. cor. on S. side of secs. 34, which is a stone 8x8x6 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 ins. in dia., 26 ins. in the ground, for standard ¼ sec. cor. mkd. on brass cap ¼ S. 34 in N half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
42.00	Top of ridge, 180 ft. above hollow, bears N.10°W. and S.10°E.
	Desc.
60.00	Bottom of hollow, 160 ft. below ridge, course N.15°W.
	Continued gradual descent.
69.40	Old road, bears N.16°W. and S.60°E.
80;80	Fall 7 lks. S. of the standard cor. of secs. 33 and 34, mkd. which is a sandstone, 10x8x6 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 standard cor. of secs. 33 and 34. mkd. on brass cap
	T 30 S R 11 W in N half.
	B 33 in NW.; and
	S 34 in NE quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	The course of this mile is therefore N.89°57'W., 80.80 chs.
	Land; mountsinous.

Chains

Soil, sandy and gravelly; 3rd rate.

No timber.

Undergrowth, sage brush

No grass.

Mountainous land, or land covered with dense undergrowth,

80.80 chs.

May 17, 1911.

May 18, 1911: At 7 h 56 m a.m., l.m.t., I set off 38°09'30"N., on the lat. arc; 19°24'30"N., on the decl. arc; and determine a meridian with the solar, at the standard cor. of secs. 33 and 34.

Thence I run

West, on a retracement line along S. side sec. 33

Over rolling mountainous land; through dense sage brush.

Desc.

14.60 Wash, 20 lks. wide, 3 ft. deep, course N. 30°W.

Asc.

19.30 Wash, 30 lks. wide, 2 ins. deep, course N.

22.00 Road, bears N. and S.

39.30 Top of spur, 200 ft. above wash, bears NW and SE.

Desc.

40.53 Fall 8 lks. N. of the old standard ¼ sec. cor., which is a red sandstone, 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 standard ¼ sec. cor. mkd. on brass cap ½ S 33 in N half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

45.30 Bottom of hollow, 160 ft. below ridge, course N. 15°W.

Asc.

73.40 Top of ridge, 450 ft. above hollow, bears N. 20°W. and S. 20°E.

Retracement 6th Standard Parallel South, through Range 11 W.

Chains	
	Desc.
80.83	Fall 7 lks. S. of the standard cor. of secs. 32 and 33, which is a stone 10x10x6 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 standard cor. of secs. 32 and 33, mkd. on brass cap
	T 30 S R 11 W in N half.
	S 32 in NW.;
	S 33 in NE. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	The course of the east half of this mile is therefore S. 89° 53' W., 40.53 chs.; and the west half is N. 89° 47' W., 40.30 chs.
	Land, mountainous.
	Soil, sandy and gravelly. 3rd rate.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.83 chs.
	May 18, 1911: At the noon hour the sky is overcast and solar observations are impossible.
	West, on a retracement line along the south side of sec. 32
	Over rolling mountainous land; through dense sage brush.
	Desc.
20.00	Bottom of hollow, 300 ft. below cor., course N.
	Asc.
40.00	Top of ridge, 250 ft. above hollow, bears NW and SE.
	Desc.
40.60	Fall 12 lks. S. of the standard ¼ sec. cor., which is a sandstone, 10x12x10 ins., above ground, firmly set, and mkd.

Retracement 6th Standard Parallel South, through Range 11 W.

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 standard ¼ sec. cor. on S side of sec. 32, mkd. on brass cap ¼ S 32 in N half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
47.75	Bottom of hollow, 60 ft. below ridge, course SE.
	Asc.
60.00	Top of spur, 60 ft. above hollow, bears N. and S.
	Desc.
72.00	Bottom of hollow, 100 ft. below spur, course S.
	Asc.
76.10	Top of spur, 70 ft. above hollow, bears N. and S.
	Desc.
81.20	Fall 23 lks. S. of the standard cor. of secs. 31 and 32, which is a stone 15x16x4 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 standard cor. of secs. 31 and 32, mkd. on brass cap T 30 S R 11 W in N half. S 31 in NW.; and S 32 in NE. quadrants; dig pits, 24x18x12 crosswise on each line, E. and W., 3 ft. and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
	Land, mountainous.
	Soil, sandy and gravelly and rocky; 2nd and 4th rate.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 81.20 chs.
	The course of this mile is, therefore, N. 89° 50' W., and distance 81.20 chs.

Retracement 6th Standard Parallel South, through Range 11 W.

Chains	
	West on a retracement line along south side sec. 31.
	Over mountainous land; through dense sagebrush.
	Desc.
6.70	Bottom of hollow, 25 ft. below cor., course S.
	Asc.
18.50	Top of spur, 75 ft. above hollow, bears N. and S.
	Desc.
29.40	Bottom of hollow, 70 ft. below ridge, course S.
	Asc.
40.36	Fall 12 lks. S. of the old standard ¼ sec. cor., which is a sandstone, 10 x 10 x 4 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 standard ¼ sec. cor., mkd. on brass cap ¼ S 31 in N. half; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
44.50	Top of ridge, 75 ft. above hollow, bears N. and S.
	Desc.
56.00	Bottom of hollow, 90 ft. below ridge, course S.
	Asc.
73.55	Top of ridge, 50 ft. above hollow, bears NE. and SW.
	Desc.
78.50	Fall 101 lks. S. of the Standard cor. of Tps. 30 S., Rs. 11 and 12 W. 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.
	The course of the east half of this mile is N.89°50'W. 40.36 chs.; and the west half is N.88°40'W., 38.14 chs.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	No timber.
	Undergrowth, sagebrush.
	Good grass for grazing.

Chains

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

May 18, 1911.

Boundaries of T. 31 S., R. 11 W.

Line designated	Course	dist. chs.	Latitudes N. chs.	Latitudes S. chs.	Departu E. chs.	
W.bdy.T.31 S.,R.11 W.	North	497.35	497.35			
N.bdy.T.31 S.,R.11 W.	East	4.19			4.19	
N.bdy.T.31 S.,R.11 W.	S.88°40'E.	38.14		.88	38.14	
N.bdy.T.31 S.,R.11 W.	S.89°50'E.	40.36		.12	40.36	
N.bdy.T.31 S.,R.11 W.	S.89°50'E.	81.20		.23	81.20	
N.bdy.T.31 S.,R.11 W.	S.89°47'E.	40.30		.15	40.30	
N.bdy.T.31 S.,R.11 W.	N.89°53'E.	40.53	.08		40.53	
N.bdy.T.31 S.,R.11 W.	S.89°57'E.	80.80		.07	80.80	
N.bdy.T.31 S.,R.11 W.	S.89°56'E.	40.57		.05	40.57	
N.bdy.T.31 S.,R.11 W.	S.89°46'E.	40.47		.16	40.47	
N.bdy.T.31 S.,R.11 W.	S.89°48'E.	72.64		.25	72.64	
E.bdy. T.31 S.,R.11 W.	South	495.32		495.32		
S.bdy.T.31 S.,R.11 W.	West	479.89				479
Convergency					.57	
			497.43	497.23	479.77	479
Error in lat.			497.23			479
			.20			
Error in dep.						

May 18, 1911.

John R. Stewart

U.S.Transitman.

FINAL OATHS OF DEPUTY SURVEYOR 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~~ Retracement 6th Standard Parallel South, through range 11 West, S.L.B.& M., Utah, showing the respective capacities in which they acted:

Isaac R. Hayes, *Chainman.*

J. Clarence Clark, *Chainman.*

Edgar S. Hurst, *Moundman.*

, *Moundman.*

Virgil Decker, *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 Retracement 6th Standard Parallel South, through Range 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 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.*

Edgar S. Hurst, *Moundman.*

, *Moundman.*

Virgil Decker, *Axman.*

, *Axman.*

, *Flagman.*

Subscribed and sworn to before me this 19th day of May, 19 11.

SEAL

John R. Stewart
U.S. Transitman

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John R. Stewart, United States ~~Deputy Surveyor~~, do solemnly swear that, in pursuance of ~~a contract~~ assignment 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 Retracement 6th Standard Parallel South through Ranges 7 and 11 West, and resurvey 6th Standard Parallel South through Range 8 West

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes in books K.P. and Z9 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, 1914.

The foregoing field notes of the ~~survey of~~ retracement of the Sixth Standard Parallel South, through 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, 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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k.F.A.S. Filed Dec.11, 1911.

4—679

BOOK A-388

Z 12

E.W.
E.R.
J.W.E.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO.31 SOUTH,

RANGE NO.9 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, *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, *1910., pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced May 22, *1911*

Survey completed June 7, *1911.*

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INDEX DIAGRAM.

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

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30	29	28	27	26	25
31	32	33	34	35	36

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Subdivision T. 31 S., R. 9 W.

Chains

Survey commenced May 22, 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 each other, reading to single minutes of arc; which is also the least count of the lat. and decl. arcs.

The instrument was examined, tested on the 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 levels and collimation errors; then to test the solar apparatus by comparing its indications resulting from a.m. and p.m. observations on the sun by the solar with meridian established by polaris observation; I proceed as follows:

At the cor. of sections 1,2,35 and 36 on the south boundary of T.31 S., R. 9 W., heretofore described, latitude 38°04'17"N. longitude 112°47'0"W., I set off 38°04'N. on the latitude arc; 20°20'N. on the decl. arc; and at 3h 56m p.m.l.m.t., determine a meridian with the solar, and mark a point in the line thus determined by a tack driven in a wooden stake set firmly in the ground 5.00 chs. N. of cor.

May 23, 1911: At 3h 32m 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 5.00 chs. N. of cor. of secs. 1,2,35 and 36 on S. bdy.

At 7h 0m a.m.l.m.t., I lay off the azimuth of polaris 1°29.4' to the west and mark the line thus determined by setting a pin in the wooden plug already set 5.00 chs. N. of the cor., this mark falls 0.3 ins. E. of the line marked by solar

Chains	
	At 7 h 26 m a.m.l.m.t., I set off 38°04'N. on the lat. arc; 20°28'N. on the decl. arc. and determine a meridian with the solar, and mark a point thereof by a nail driven in the wooden plug already set 5.00 chs. N. of cor., this mark falls 0.27 ins. east of line established by polaris observation.
	The solar apparatus by p.m. and a.m. observations, determines positions for meridians respectively about 16" and 14" west and east of meridian establsihed by polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the meridian at 8h 10m a.m. is N.16°21'W. The angle thus determined gives the magnetic decl. 16°21'E.
	May 23, 1911: At 7h 56m a.m.l.m.t., I set off 38°04'N. on the lat. arc; 20°27'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2,35 and 36 on S. bdy. of Tp.
	Thence I run
	N.0°01'W. bet. secs. 35 and 36.
	Over mountainous country; through cedar and pinon pine timber and sage and greasewood brush.
	Asc.
26.00	Top of ridge 300 ft. above cor., brs. N.75°E. and S. 75°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 35 in W. and S 36 in E. halves, from which a
	Pinon pine, 4 ins.in dia.,brs. S.70°E., 137 lks. dist., mkd. ¼ S 36 B T
	A pinon pine, 5 ins. dia., brs. S.58°W. 72 lks. dist., mkd. ¼ S 35 B T
49.40	Bottom of hollow, 180 ft. below ridge, course W.

Chains	
	Asc.
75.00	Top of ridge, 100 ft. above hollow, brs. 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. 25, 26,35 and 36, mkd. on brass cap
	T 31 S S 26 in NW.
	R 9 W S 25 in NE.
	S 36 in SE. and
	S 35 in SW. quadrants, from which
	A pinon pine, 4 ins. in dia., brs. N.15°30'E., 84 lks. dist., mkd. T 31 S R 9 W S 25 B T
	A cedar, 6 ins. dia., brs. S.65°30'E., 120 lks. dist., mkd. T 31 S R 9 W S 36 B T
	A cedar, 10 ins. in dia., brs. S.78°30'W. 210 lks. dist., mkd. T 31 S R 9 W S 35 B T
	A cedar, 8 ins. in dia., brs. N.9°30'W., 244 lks. dist., mkd. T. 31 S R 9 W S 26 B T
	Land, mountainous.
	Soil, red sand and gravel, 3rd rate.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber and brush 80.00 chs.
	East on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect E. bdy. of Tp. 13 lks. N. of the cor. of secs. 25,30,31 and 36, heretofore described.
	Thence I run
	N.89°54'W. on a true line bet. secs. 25 and 36.
	Over mountainous country; through cedar and pinon pine timber and sagebrush.
	Asc.

Chains	
14.50	Top of spur, 70 ft. above cor. brs. N. and S.
	Desc.
20.40	Bottom of swale, 90 ft. below spur, course S.10°E.
	Asc.
31.50	Top of ridge, 100 ft. above swale, brs. N. and S.
	Desc.
35.30	Bottom of swale, 60 ft. below ridge, course SW.
	Asc.
40.04	Set an iron post 3 ft. long, 1 in. in dia., 20 ins. in the ground on solid rock surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap ¼ S 25 in N. and S. 36 in S. halves, from which
	A pinon pine, 5 ins. in dia., brs. N.9°E., 28 lks. dist., mkd. ¼ S 25 B T
	A cedar 4 ins. in dia., brs. S.6°E., 40 lks. dist., mkd. ¼ S 36 B T
45.00	Top of ridge, 70 ft. above swale, brs. N.25°E. and S. 25°W.
	Desc.
51.00	Bottom of hollow, 150 ft. below ridge, course SW.
	Asc.
70.00	Top of ridge, 140 ft. above hollow, brs. NE. and SW.
	Desc.
80.08	The cor. of secs. 25,26,35 and 36.
	Land, mountainous, slopes southerly.
	Soil, red sand and gravel well mixed with volcanic rock on ridges, 3rd rate.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage and greasewood.
	Good grass for grazing purposes.
	Mountainous land covered with timber and brush, 80.08 chs.
	May 23, 1911: At this cor. I set off 20°29'N. on the decl. arc. and at 11h 56m a.m.l.m.t., observe the sun

Subdivision T. 31 S., R. 9 W.

Chains	
	on the meridian, the resulting lat. is 38°05'N. which is the proper lat. nearly.
	N.0°01'W. bet. secs. 25 and 26.
	Over mountainous country; through cedar and pinon pine timber and dense sage brush.
	Desc.
2.00	Bottom of hollow, 30 ft. below cor., course SW.
	Asc.
26.50	Top of spur, 90 ft. above hollow, brs. NW. and SE.
	Desc.
36.50	Bottom of hollow, 75 ft. below spur, course S.40°E.
	Asc. top 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 26 in W. and S 25 in E. halves, from which
	A pinon pine, 8 ins.in dia.,brs. N.80°E., 170 lks. dist.,mkd. ¼ S 25 B T
	A pinon pine,6 ins. in dia.,brs. S.1°W., 438 lks. dist.,mkd. ¼ S 26 B T
	Along top of ridge.
80.00	On top of ridge, 160 ft. above hollow.
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 23,24,25 and 26, mkd. on brass cap
	T 31 S S 23 in NW.
	R 9 W S 24 in NE.
	S 25 in SE. and
	S 26 in SW.quadrants, from which
	Ledge, 10 ft. high, brs. N.85°E., 13 lks. dist., mkd. X B O
	Pinon pine, 12 ins. in dia., brs. S.65°E., 90 lks. dist., mkd. T 31 S R 9 W S 25 B T
	Pinon pine, 8 ins. in dia.,brs. S.36°W., 10 lks. dist.,mkd. T 31 S R 9 W S 26 B T

Subdivision of T. 31 S., R. 9 W.

Chains	
	Cedar, 7 ins. in dia., brs. N.35°W., 113 lks. dist., mkd. T 31 S R 9 W S 23 B T
	Land, mountainous slopes and drains southerly.
	Soil, red sand and gravel, mixed with volcanic rock, 3rd rate.
	Subsoil, gravel and volcanic formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Very little grass.
	Mountainous land covered with timber and brush 80.00 chs.
	S.89°54'E. on a random line bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect the cor. of secs. 19,24,25 and 30 on E. bdy. of Tp., heretofore described.
	Thence I run
	West on a true line bet. secs. 24 and 25.
	Over mountainous country; through cedar timber and dense sage brush.
	Desc.
9.00	Bottom of hollow, 50 ft. below cor., course NW.
	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 24 in N. and S 25 in S. halves and raised a mound of stone 2 ft. base, 1½ ft. high N. of cor.
55.00	Top of ridge 200 ft. above hollow, brs. N.65°W. and S.65° E.
	Descend.
69.00	Bottom of draw, 100 ft. below ridge, course S.
	Asc.
80.02	The cor. of secs. 23,24,25 and 26.
	Land, mountainous, slopes southerly.
	Soil, sandy loam, well mixed with pebbles.

Chains	
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	Good grass in patches.
	Mountainous land or land covered with timber or brush, 80.02 chs.
	May 23, 1911.
	May 24, 1911: At 7h 57m a.m.l.m.t., I set off 38°06'N. on the lat. arc; 20°39'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23,24,25 and 26.
	Thence I run
	N.0°01'W. bet. secs. 23 and 24.
	Over mountainous country; through dense sage brush.
	Asc. top of ridge, brs. N. and S.
5.00	Top of divide ridge, 60 ft. above cor. brs. N.80°W. and S.80°E.
9.00	Desc., brs. N.80°W. and S.80°E.
31.00	Bottom of swale, 60 ft. below ridge, course N.30°E.
	Asc. to flat point.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, mkd. on brass cap ¼ S 23 in W. and S 24 in E. halves, and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
54.10	Bottom of hollow, course NW.
	Asc.
61.00	Top of ridge, 90 ft. above hollow, brs. N.70°W. and S. 70°E.
	Desc.
69.00	Bottom of hollow, 100 ft. below point, course W.
	Asc.
78.50	Top of ridge, 100 ft. above hollow, brs. 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. 13,14,23 and 24, mkd. on brass cap

Chains

T 31 S S 14 in NW.

R 9 W S 13 in NE.

S 24 in SE. and

S 23 in SW.quadrants, and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.

Land, mountainous, slopes northwesterly.

Soil, black loam, 2 ft. deep, 2nd rate.

Subsoil, gravel.

No timber.

Undergrowth, sage.

Good grass for grazing.

Mountainous land covered with brush 80.00 chs.

East, on a random line bet. secs. 13 and 24.

40.00 Set temp. ¼ sec. cor.

79.92 Intersect E. bdy. of Tp. 5 lks. N. of 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 country; through dense tall sage brush.

Asc.

35.00 Top of asc. 100 ft. above cor. brs. N.10°W. and S.10°E.

38.00 Desc. from ridge, brs. N. and S.

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 13 in N. and S 24 in S halves, and raised a mound of stone 2 ft. base, 1½ ft. high N. of cor.

79.92 The cor. of secs. 13,14,23 and 24.

Land, mountainous.

Soil, black loam well mixed with little pebbles.

Subsoil, gravel.

No timber.

Undergrowth, sage.

Good grass.

Mountainous land covered with dense sage brush 79.92 chs.

Chains	
	May 24, 1911: At this cor. I set off 20°41'N. on the decl. arc., and at 11h 57m a.m.l.m.t., observe the sun on the meridian, the resulting lat. is 38°07'N. which is the proper lat. nearly.
	N.0°01'W. bet. secs. 13 and 14.
	Over rolling mountainous land, covered with dense tall sage brush.
	Desc.
4.00	Bottom of hollow, 60 ft. below cor. course W.
	Asc.
9.50	Top of ridge, 80 ft. above hollow, brs. 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 14 in W. and S 13 in E. halves and dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. from post, 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. 11,12,13 and 14, mkd. on brass cap T 31 S S 11 in NW. R 9 W S 12 in NE. S 13 in SE. and S 14 in SW.quadrants, and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling mountainous.
	Soil, red sand and gravel, 24 ins. deep, 1st rate.
	Subsoil, gravel.
	Undergrowth, sage.
	Good grass for grazing.
	Rolling mountainous land covered with brush, 80.00 chs.
	S.89°58'E. on a random line bet. secs. 12 and 13.

Chains	
40.00	Set temp. ¼ sec. cor.
79.90	Intersect E. bdy. of Tp. 2 lks. S. of cor. of secs. 7, 12,13 and 18 heretofore described.
	Thence I run
	N.89°59'W. on a true line bet. secs. 12 and 13.
	Over rolling mountainous land, through dense tall sage brush.
	Desc.
3.00	Bottom of hollow, 20 ft. below cor. course NE.
	Asc.
15.00	Top of ridge, 200 ft. above hollow, brs. NE. and S.35°W.
	Desc.
30.00	Bottom of hollow 210 ft. below ridge, course N.10°E. for 8 chs., thence NE.
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 12 in N. and S 13 in S. halves, and dig pits 18 x 18 x 12 ins. W. and E. of post 3 ft. dist., and raised a mound of earth 3 ft. base, 1½ ft. high N. of cor.
50.00	Top of ridge, 100 ft. above hollow, brs. N. and S.
	Desc.
79.90	The cor. of secs. 11, 12, 13 and 14.
	Land, mountainous, slopes N. easterly.
	Soil, red sandy loam well mixed with little pebbles.
	Subsoil, gravel.
	Undergrowth, dense sage.
	Good grass.
	Mountainous land covered with dense brush 79.90 chs.
	N.0°01'W. bet. secs. 11 and 12,
	Over rolling mountainous land, through dense sage brush.
	Desc.
7.00	Bottom of hollow 30 ft. below cor., course N.35°E.
	Asc.
20.00	Top of ridge, 130 ft. above hollow, brs. N.35°E. and S.

Subdivision T. 31 S., R. 9 W.

Chains	
	35°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 11 in W. and S. 12 in E. halves, and dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist., and raised 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. 1,2,11 and 12, mkd. on brass cap T 31 S S 2 in NW. R 9 W S 1 in NE. S 12 in SE. and S 11 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.
	Soil, red sand and gravel, 16 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Mountainous land covered with sage brush 80.00 chs.
	May 24, 1911.
	May 25, 1911: At 7 h 57 m a.m.l.m.t., I set off 38°09' N. on the lat. arc; 20°50'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
	S.89°59'E. on a random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
79.86	Intersect E. bdy. of Tp. 2 lks. S. of the cor. of secs. 1, 6, 7, and 12, heretofore described.
	Thence I run
	West on a true line bet. secs. 1 and 12.

Subdivision T. 31 S., R. 9 W.

Chains	
	Over rolling mountainous land, through dense sage brush along ridge.
	Asc. gently.
18.00	Top of ridge, 100 ft. above cor., brs. NW. and SE.
	Desc. from ridge.
26.00	Head of hollow, 80 ft. below ridge, course N.65°W.
	Asc. gradually.
39.93	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 1 in N. and S 12 in S. halves, and dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
79.86	The cor. of secs. 1, 2, 11 and 12.
	Land, mountainous.
	Soil, red sandy loam, mixed with little pebbles.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	Mountainous land covered with brush 79.86 chs.

	N.0°01'W. on a true line bet. secs. 1 and 2,
	Over mountainous land, through dense sage brush.
	Desc.
4.00	Bottom of hollow, 40 ft. below cor., course W.
	Asc.
17.00	Top of ridge, 200 ft. above hollow, brs. NE. and SW.
	Desc.
37.50	Bottom of hollow, 175 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 2 in W. and S 1 in E. halves, and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
58.00	Top of ridge, 125 ft. above hollow, brs. N.85°E. and S. 85°W.

Chains	
	Desc.
67.50	Bottom of hollow, 100 ft. below ridge, course W.
	Asc.
93.25	Intersect 6th Standard Parallel South 15.12 chs. west of 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 9 W S 35 S 36 in N. half,
	R 9 W S 1 in SE. and
	T 31 S S 2 in SW. quadrants, from which
	A pinon pine, 10 ins. in dia., brs. S.31°E. 18 lks. dist., mkd. T 31 S R 9 W S 1 B T
	A pinon pine, 10 ins. in dia., brs. S.41°W. 28 lks. dist., mkd. T 31 S R 9 W S 2 B T
	Land, mountainous, slopes and drains southwesterly.
	Soil, red sand and gravel covered with boulders.
	Subsoil, gravel and volcanic formation.
	Timber, cedar and pinon pine.
	Undergrowth, dense sage.
	Good grass.
	Mountainous land covered with timber or sage 93.25 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., observe the sun on the meridian, the resulting lat. is 38°10'N. which is the proper lat. nearly.
	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.
	Over mountainous land, through scattering cedar and pinon pine timber and sage brush.
	Desc.
10.00	Bottom of hollow, 100 ft. below cor., course N.10°W.
	Desc. gradually.

Subdivision T. 31 S., R. 9 W.

Chains	
18.00	Bottom of hollow, course NW.
	Asc.
35.00	Top of ridge, 130 ft. above hollow, brs. N.70°W. and S. 70°E.
	Desc.
	Enter heavy timber, brs. 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 34 in W. and S 35 in E. halves, from which a
	Cedar, 10 ins. in dia., brs. N.85°E.
	36 lks. dist., marked ¼ S 35 B T
	Cedar, 10 ins. in dia., brs. N.65°W.,
	10 lks. dist., mkd. ¼ S 34 B T
66.00	Leave heavy timber, brs. E. and W.
	Enter scattering timber.
70.50	Bottom of hollow, 140 ft. below ridge, course W.
	Asc.
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 9 W S 26 in NE.
	S 35 in SE. and
	S 34 in SW. quadrants, from which
	A cedar 6 ins. in dia., brs. N.22°E.
	173 lks. dist., mkd. T 31 S R 9 W S 26 B T
	Cedar, 10 ins. in dia., brs. N.22°30'W.,
	152 lks. dist., mkd. T 31 S R 9 W S 27 B T
	Dig pits 18 x 18 x 12 ins. in secs. 34 and 35, 5½ ft. from post, and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
	Land, mountainous slopes westerly.
	Soil, red sand and gravel, 26 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon.
	Undergrowth, sage.

Chains	
	A little grass.
	Mountainous land or land covered with timber and brush 80.00 chs.
	East on a random line bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line 9 lks. S. of cor. of secs. 25, 26, 35 and 36.
	Thence I run
	S.89°56'W. on a true line bet. secs. 26 and 35.
	Over mountainous land, through cedar and pinon pine timber and dense sage brush.
	Desc.
2.72	Bottom of hollow, 30 ft. below cor. course S.30°W.
	Asc.
8.25	Top of point, 100 ft. above hollow, brs. N.30°E. and S.30°W.
	Desc.
18.00	Bottom of swale, 90 ft. below point, course S.
	Asc.
31.55	Top of ridge, 100 ft. above swale, brs. NE. and SW.
	Desc.
38.00	Bottom of hollow, 70 ft. below ridge, course S.5°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 26 in N. and S 35 in S. halves, from which a
	Cedar, 6 ins. in dia., brs. N.55°E., 60 lks. dist., mkd. ¼ S 26 B T
	A pinon pine, 5 ins. in dia., brs. S.25°E., 48 lks. dist., mkd. ¼ S 35 B T
41.25	Top of ridge, 90 ft. above hollow, brs. N.15°W. and S.15°E.
	Desc.

Chains	
75.00	Bottom of hollow, 100 ft. below ridge, course S.40°E.
79.96	The cor. of secs. 26, 27, 34 and 35.
	Mountainous land, slopes and drains southerly.
	Soil, red sand and gravel, 26 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber and brush 79.96 chs.
	May 25, 1911.
	May 26, 1911: At 7h 57m a.m.l.m.t., I set off 38°05'N. on the lat. arc; 21°01'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 26, 27, 34 and 35.
	Thence I run
	N.0°01'W. bet. secs. 26 and 27.
	Over mountainous country, through cedar and pinon pine timber and dense sage brush.
	Asc.
36.90	Top of ridge, 200 ft. above cor., brs. NE. and SW.
	Desc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 17 ins. in the ground on solid rock, surrounded by a mound of earth and stone for ¼ sec. cor., mkd. on brass cap ¼ S 27 in W. and S 26 in E. halves and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
43.80	Bottom of hollow, 60 ft. below ridge, course SW.
	Asc.
57.80	Top of ridge, 130 ft. above hollow, brs. N.80°E. and S. 80°W.
	Desc.
64.00	Bottom of swale, 100 ft. below ridge, course W.
	Asc.

Subdivision T. 31 S., R. 9 W.

Chains	
73.00	Top of ridge, 160 ft. above swale, brs. 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. 22,23,26 and 27, mkd. on brass cap T 31 S S 22 in NW. R 9 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.
	Land, mountainous, slopes and drains westerly.
	Soil, sandy loam well mixed with cobble rock.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land covered with timber or brush 80.00 chs.
	N.89°56'E. on a random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line 16 lks. N. of cor. of secs. 23, 24,25 and 26.
	Thence I run, on true line
	N.89°57'W. bet. secs. 23 and 26.
	Over mountainous country; through cedar and pinon pine timber and sage brush.
	Desc. from top of ridge.
4.00	Bottom of swale, 70 ft. below cor., course S.
	Asc.
9.00	Top of spur, 100 ft. above swale, brs. N. and S.
	Desc.
20.00	Bottom of swale, 140 ft. below spur, course S.
	Asc.
31.70	Top of ridge, 170 ft. above swale, brs. N.10°W. and S. 10°E.

Subdivision T. 31 S., R. 9 W.

Chains	
	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 ½ S 23 in N. and S 26 in S. halves, from which a Cedar, 8 ins. in dia.,brs. N.48°W., 15 lks. dist.,mkd. ¼ S 23 B T Pinon pine, 16 ins. in dia.,brs. S.56°E., 112 lks. dist., mkd. ¼ S 26 B T
50.00	Bottom of swale, 100 ft. below ridge, course S.20°E.
	Asc.
68.25	Top of ridge, 200 ft. above hollow, brs. NW. and SE.
	Desc.
78.40	Bottom of swale, 60 ft. below ridge, course N.75°W.
	Asc.
80.04	The cor. of secs. 22,23,26 and 27.
	Land,mountainous.
	Soil, red sand and loam mixed with little pebbles.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass.
	Mountainous land covered with timber or brush 80.04 chs.
	N,0°01'W. bet. secs. 22 and 23.
	Over rolling mountainous country, through scattering cedar and pinon pine timber and sage brush.
	Desc.
.90	Bottom of swale, 10 ft. below cor., course N.75°W.
	Asc.
7.30	Top of ridge, 100 ft. above swale, brs. N.60°W. and S. 60°E.
	Desc.
25.50	Old road, brs. NW. and SE.
27.20	Bottom of hollow, 200 ft. below ridge, course NW.
	Asc.

Chains	
37.70	Top of ridge, 200 ft. above hollow, brs. E. and 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 22 in W. and S 23 in E. halves and dig pits 18 x 18 x 12 ins, N. and S. of post, 3 ft. dist., and raised a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
42.65	Bottom of hollow, 160 ft. below ridge, course N.80°W.
	Asc.
52.90	Top of ridge, 180 ft. above hollow, brs. N.70°W. and S.70°E.
	Desc.
59.80	Bottom of swale, 100 ft. below ridge, course N.75°W.
	Asc.
75.00	Top of ridge, 110 ft. above swale, brs. 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 31 S S 15 in NW. R 9 W S 14 in NE. S 23 in SE. and S 22 in SW. quadrants, and raise a mound ofstone 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and mountainous.
	Soil, red sand and gravel 10 ins. deep.
	Subsoil, sandy and rocky.
	Timber, scattering cedars and pine.
	Undergrowth, sage brush.
	Mountainous land covered with timber or brush 80.00 chs.
	May 26, 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., observe the sun on the meridian, the resulting lat. is 38°07'N. which is the proper lat. nearly.

Chains	
	S.89°57'E. on a random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect 7 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 dense sage brush.
	Descend.
24.00	Bottom of hollow, 120 ft. below cor., course NW.
	Asc.
25.50	Old road, brs. N.30°W. and S.30°E.
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 14 in N. and S 23 in S. halves, and 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.
53.50	Top of point, 100 ft. above swale, brs. N.30°E. and S. 30°W.
	Desc.
57.50	Bottom of swale, 70 ft. below point, course N.40°E.
	Asc.
68.00	Top of divide ridge, 200 ft. above swale, brs. N.10°E. and S.10°W.
80.10	The cor. of secs. 14,15,22 and 23.
	Land, mountainous slopes northerly.
	Soil, red sand and gravel, 14 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Mountainous land covered with brush 80.10 chs.

N.0°01'W. bet. secs. 14 and 15.

Over high rolling mountainous country, through dense sage brush.

Desc.

Subdivision T. 31 S., R. 9 W.

Chains	
21.50	Bottom of hollow, 120 ft. below cor., course S.75°W.
	Asc.
35.00	Top of ridge, 150 ft. above hollow, brs. 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. and S. 14 in E. halves, and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
41.40	Bottom of swale, 100 ft. below ridge, course NW.
	Asc.
53.50	Top of divide ridge, 200 ft. above swale, brs. 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, 10, 14 and 15, mkd. on brass cap
	T 31 S S 10 in NW.
	R 9 W S 11 in NE.
	S 14 in SE. and
	S 15 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, mountainous, slopes SW. and NE.
	Soil, sandy loam well mixed with little pebbles 12 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	Mountainous land or land covered with brush 80.00 chs.
	East on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.14	Intersect N. and S. line 2 lks. S. of cor. of secs. 11, 12, 13 and 14.
	Thence I run
	S.89°59'W. on a true line bet. secs. 11 and 14.

Chains	
	Over rolling mountainous land, through dense sage brush.
	Desc.
3.20	Bottom of hollow, 20 ft. below cor., course N.
	Asc.
15.00	Top of ridge, 100 ft. above hollow, brs. NE. and SW.
	Desc.
24.00	Bottom of hollow, 100 ft. below ridge, course NE.
39.90	Top of ridge, 100 ft. above hollow, brs. N.20°E. and S.20°W.
	Desc.
40.07	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. and S 14 in S. halves, and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
45.00	Bottom of swale, 50 ft. below ridge, course N.10°E.
	Asc.
51.00	Top of ridge, 40 ft. above swale, brs. N.10°E, and S.10°W.
	Desc.
65.00	Bottom of swale, 80 ft. below ridge, course N.10°E.
	Asc.
70.00	Top of spur, 90 ft. above swale, brs. N. and S.
80.14	The cor. of secs. 10, 11, 14 and 15.
	Land, mountainous, slopes northerly.
	Soil, red sandy loam about 15 ins. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Mountainous land covered with dense sage brush. 80.14 chs.
	May 26, 1911.

May 27, 1911: At 7 h 57 m a.m.l.mt., I set off 38°08'N.

Chains	
	on the lat. arc; 21°12'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°01'W. bet. secs. 10 and 11.
	Over mountainous country; through dense sage brush.
	Desc.
11.10	Bottom of swale, 30 ft. below cor., course N.20°E.
26.00	Top of ridge, 130 ft. above swale, brs. 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 10 on W. and S 11 in E. halves and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
68.80	Bottom of swale, 130 ft. below ridge, course S.85°E.
	Asc.
77.00	Top of ridge, 140 ft. above swale, brs. E. and W.
	Desc.
	Enter heavy cedar timber.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 2,3,10 and 11, mkd. on brass cap T 31 S S 3 in NW. R 9 W S 2 in NE. S 11 in SE. and S 10 in SW.quadrants, from which a Cedar, 5 ins. in dia.,brs. N.81°E., 126 lks. dist.,mkd. T 31 S R 9 W S 2 B T Cedar,5 ins. in dia., brs. S.22°E., 147 lks. dist., mkd. T 31 S R 9 W S 11 B T Cedar, 6 ins. in dia., brs. S.22°30'W., 130 lks. dist., mkd. T 31 S R 9 W S 10 B T Cedar, 12 ins. in dia.,brs. N.60°W., 150 lks. dist., mkd. T 31 S R 9 W S 3 B T
	Land, mountainous, slopes and drains easterly.
	Soil, red sand mixed with gravel.
	Subsoil, gravel.

Chains	
	Timber, cedar.
	Undergrowth, sage.
	Good grass.
	Mountainous land or land covered with brush, 80.00 chs.
	N.89°59'E. on a random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
80.18	Intersect N. and S. line, 9 lks. N. of cor. of secs. 1, 2,11 and 12.
	Thence I run
	N.89°57'W. on a true line bet. secs. 2 and 11.
	Over mountainous country; through dense sage brush.
	Desc.
10.00	Bottom of hollow, 100 ft. below cor., course N.10°E.
	Asc.
16.00	Top of ridge, 150 ft. above hollow, brs. N.5°W. and S. 5°E.
	Desc.
38.00	Bottom of hollow, 200 ft. below ridge, course N.
	Asc.
40.09	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. and S 11 in S. halves, and raised a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
42.20	Top of ridge, 100 ft. above hollow, brs. N.30°E. and S. 30°W.
	Desc.
54.10	Bottom of hollow, 120 ft. below ridge, course NE.
	Asc.
80.18	The cor. of secs. 2,3,10 and 11.
	Land, mountainous, slopes northerly.
	Soil, sand and black loam, well mixed with lava rock, 18 ins. deep.
	Subsoil, gravel.
	No timber.

Subdivision T. 31 S., R. 9 W.

Chains	
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous land or land covered with brush, 80.18 chs.
	N.0°01'W. bet. secs. 2 and 3.
	Over mountainous country; through cedar and pinon pine timber and sage brush.
	Desc.
27.00	Bottom of canon, 400 ft. below cor., course W.
	Asc.
36.00	Enter heavy timber, brs. E. and W.
36.20	Top of ridge, 300 ft. above canon, brs. 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 3 in W. and S 2 in E. halves, from which a
	Cedar, 4 ins. in dia., brs. N.12°E., 87 lks. dist., mkd. ¼ S 2 B T
	Pinon pine, 5 ins. in dia., brs. S.2°W., 32 lks. dist., mkd. ¼ S 3 B T
74.50	Bottom of hollow, 290 ft. below ridge, course SW.
	Asc.
85.00	Top of spur, 200 ft. above hollow, brs. NE. and SW.
	Desc.
93.45	Intersect 6th Standard Parallel South, 15.10 chs. W. of 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 9 W S 34 S 35 in N.half R 9 W S 2 in SE. and T 31 S S 3 in SW. quadrants, from which a
	Cedar, 8 ins. in dia., brs. S.5°E., 77 lks. dist., mkd. T 31 S R 9 W S 2 B T
	Cedar, 14 ins. in dia., brs. S.56°W., 67 lks. dist., mkd. T 31 S R 9 W S 3 B T

Subdivision T. 31 S. R. 9 W.

Chains	
	Land, mountainous, steep slopes and deep hollow; slopes westerly.
	Soil, red sand, well mixed with lava rock, 12 to 16 ins. deep.
	Subsoil, gravel and lava formation.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous land or land covered with timber and brush 93.45 chs.
	At this cor. I set off 21°13'N. on the decl. arc; and at 11h 57m a.m.,l.m.t., observe the sun on the meridian, the resulting lat. is 38°10'N. which is the proper lat. nearly.
	May 27, 1911.
	From the cor. of secs. 3,4,33 and 34, on S. bdy. of Tp. heretofore described, I run
	N.0°02'W., bet. secs. 33 and 34.
	Over mountainous country; through heavy cedar and pinon pine timber and dense sage brush.
	Asc.
7.50	Top of ridge, 100 ft. above cor. brs. N.80°E. and S.80° W.
	Desc.
29.00	Bottom of hollow, 200 ft. below ridge, course S.80°W.
	Asc.
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 and stone for ¼ sec. cor., mkd. on brass cap ¼ S 33 in W. and S 34 in E. halves, from which a
	Cedar, 12 ins. in dia., brs. N.47°E., 44 lks. dist., mkd. ¼ S 34 B T
	Cedar, 8 ins. in dia.,brs. N.18°W., 11 lks. dist., mkd. ¼ S 33 B T

Chains	
41.40	Leave heavy timber.
	Top of ridge brs. N.80°E. and S.80°W.
	Desc.
	Enter scattering timber, brs. N.80°E. and W.
76.00	Bottom of hollow, 250 ft. below ridge, course W.
	Asc.
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 9 W S 27 in NE. S 34 in SE. and S 33 in SW.quadrants, and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, mountainous, slopes westerly.
	Soil, sandy loam, 20 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass in patches.
	Mountainous land or land covered with timber or brush 80.00 chs.
	East, on a random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
79.88	Intersect N. and S. line 14 lks. S. of cor. of secs. 26, 27,34 and 35.
	Thence I run
	S.89°54'W. on a true line bet. secs. 27 and 34.
	Over mountainous country; through cedar and pinon pine timber and dense sage brush.
	Asc.
5.00	Top of point, 40 ft. above cor., brs. N.80°W. and S.80°E.
20.00	Bottom of hollow, 50 ft. below point, course S.80°E.

Chains	
	Asc.
39.94	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 27 in N. and S 34 in S. halves, and raised a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
45.75	Top of point 70 ft. above hollow, brs. N. and S.
	Desc.
65.60	Bottom of hollow, 100 ft. below point, course S.10°W.
	Asc.
70.00	Top of point, 60 ft. above hollow, brs. N. and S.
	Desc.
79.88	The cor. of secs. 27, 28, 33 and 34.
	Land, mountainous, slopes and drains southerly.
	Soil, red sand and gravel, 14 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Mountainous land or land covered with timber or brush, 79.88 chs.
	May 27, 1911.

May 29, 1911: At 7 h 57 m a.m., l.m.t., I set off 38° 05'N. on the lat. arc; 21°31'N. on the decl. arc; and determine a meridian at the cor. of secs. 27,28,33 and 34.

Thence I run

N.0°02'W. bet. secs. 27 and 28.

Over mountainous country; through cedar and pinon pine timber and dense sage brush.

	Asc.
18.50	Top of ridge 200 ft. above cor., brs. N.75°E. and S.75° W.
	Desc.
30.00	Bottom of swale, 150 ft. below ridge, course S.80°W.
	Asc.

Subdivision T. 31 S., R. 9 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 W. and S 27 in E. halves, and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
42.00	Top of ridge, 300 ft. above swale, brs. N.75°E. and S. 75°W.
	Desc.
60.30	Bottom of hollow, 300 ft. below ridge, course S.80°W.
	Asc.
64.00	Top of point, 100 ft. above hollow, brs. N.80°E. and S. 80°W.
	Desc.
69.70	Bottom of swale, 50 ft. below point, course S.50°W.
	Asc.
79.00	Top of ridge, 180 ft. above swale, brs. 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. 21,22,26 and 27, mkd. on brass cap
	T 31 S S 21 in NW.
	R 9 W S 22 in NE.
	S 27 in SE. and
	S 28 in SW.quadrants, from which a
	Cedar, 10 ins. in dia., brs. N.70°30'E.,
	206 lks. dist., mkd. T 31 S R 9 W S 22 B T
	Cedar, 8 ins. in dia.,brs. S.21°E.,
	130 lks. dist., mkd. T 31 S R 9 W S 27 B T
	Cedar, 10 ins. in dia., brs. S.22°W.,
	170 lks. dist., mkd. T 31 S R 9 W S 28 B T
	Cedar, 5 ins. in dia., brs. N.50°W.,
	213 lks. dist., mkd. T 31 S R 9 W S 21 B T
	Land, mountainous, slopes westerly.
	Soil, red sand and gravel, 16 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.

Chains	
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber or brush 80.00 chs.
	N.89°54'E. on a random line bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.,
79.98	Intersect N. and S. line, 11 lks. N. of cor. of secs. 22, 23, 26 and 27.
	Thence I run on true line
	S.89°59'W. bet. secs. 22 and 27.
	Over rolling mountainous country; through scattering cedar timber and dense sage brush.
	Asc. gradually.
27.00	Top of ridge, 200 ft. above cor., brs. N.80°W. and S.80°E.
	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 22 in N. and S 27 in S. halves and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
76.00	Top of same ridge, as at 27 chs., brs. N.80°E. and S.80° W.
79.98	The cor. of secs. 21,22,27 and 28.
	Land, mountainous, slopes westerly.
	Soil, red sand and gravel, 20 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land covered with timber or brush 79.98 chs.
	May 29, 1911: At this cor. I set off 21°33'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°06'N. which is the proper lat. nearly.

Subdivision T. 31 S., R. 9 W.

Chains	
	N.0°02'W. bet. secs. 21 and 22.
	Over rolling mountainous country, through heavy cedar and pinon pine timber and dense sagebrush.
	Desc.
8.00	Bottom of swale, 100 ft. below cor., course S.75°W,
	Asc.
15.00	Top of spur, 100 ft. above swale, brs. N.80°E. and S.80° W.
	Desc.
25.10	Old road, bears E. and W.
26.20	Bottom of hollow, 125 ft. below spur, course S.65°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 21 in W. and S 22 in E. halves, from which a Cedar, 7 ins. in dia., brs. N. 67°E., 45 lks. dist., mkd. ¼ S 22 B T Cedar, 7 ins. in dia., brs. N.68°W., 103 lks. dist.,mkd. ¼ S 21 B T
45.00	Top of ridge, 100 ft. above hollow, brs. N.50°E. and S.50°W.
	Desc.
70.00	Bottom of hollow, 180 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. R 9 W S 15 in NE. S 22 in SE., and S 21 in SW. quadrants, from which a Cedar, 7 ins. in dia., brs. N.38°E., 4 lks. dist., mkd. T 31 S R 9 W S 15 B T Cedar, 10 ins. in dia., brs. S.25°45'E. 20 lks. dist., mkd. T 31 S R 9 W S 22 B T Cedar, 6 ins. in dia., brs. S.56°30'W., 55

Chains	
	lks. dist., mkd. T 31 S R 9 W S 21 B T
	Cedar, 8 ins. in dia., brs. N.74°W., 69
	lks. dist., mkd. T 31 S R 9 W S 15 B T
	Land, mountainous.
	Soil, red sand 14 ins. deep.
	Subsoil, gravel.
	Undergrowth, sage.
	Timber, cedar and pinon pine.
	A little grass.
	Mountainous land or land covered with timber and sage brush 80.00 chs.
	N.89°59'E. on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
79.92	Intersect N. and S. line 4 lks. N. of the cor. of secs. 14, 15, 22 and 23.
	Thence I run
	N.89°59'W. on a true line bet. secs. 15 and 22.
	Over high mountainous country; through dense sage brush.
	Desc.
35.00	Enter heavy cedar timber, brs. N. and S.
	Leave sage brush.
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 ¼ S 15 in N. and S 22 in S. halves, from which a
	Cedar, 10 ins. in dia., brs. N.32°W.,
	33 lks. dist.,mkd. ¼ S 15 B T
	Cedar, 8 ins. in dia.,brs. S.50°E.
	52 lks. dist., mkd. ¼ S 22 B T
68.75	Bottom of hollow, course S.40°W., 100 ft. below sec. cor.
	Asc.
79.92	The cor. of secs. 15, 16, 21 and 22.
	Land, mountainous, slopes westerly.
	Soil, sand and black loam, 14 ins. deep.
	Subsoil, gravel.

Chains

Timber, cedar and pinon pine.

Undergrowth, sage.

A little grass.

Mountainous land or land covered with timber and brush, 79.92 chs.

May 29, 1911.

May 31, 1911: At 7 h 57 m a.m., l.m.t., I set off 36° 07'N. on the lat. arc; 21°50'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 15, 16, 21 and 22.

Thence I run

N.0°02'W. bet. secs. 15 and 16.

Over rolling mountainous country; through heavy cedar and pinon pine timber and sage brush.

Asc.

4.00 Top of ridge, 40 ft. above cor., brs. N. 75°E. and S. 75°W.

Desc.

24.00 Bottom of hollow, 100 ft. below ridge, course S.75°W.

Asc.

33.00 Top of ridge, 200 ft. above hollow, brs. N.75°E. and 75°W.

Leave heavy timber, brs. 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 16 in W. and S. 16 in E. halves, and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

54.10 Bottom of swale 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. 9, 10, 15 and 16, marked on brass cap

T 31 S S 9 in NW.

R 9 W S 10 in NE.

Chains	
	S 15 in SE. and
	S 16 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, mountainous, slopes and drains westerly.
	Soil, red sand and gravel, 20 ins. deep.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	A little grass.
	Mountainous land covered with timber and brush, 80.00 chs.
	S.89°59'E. on a random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 2 lks. S. of the cor. of secs. 10, 11, 14 and 15.
	Thence I run
	West, on a true line bet. secs. 10 and 15.
	Over mountainous country; through dense sage brush.
	Desc.
1.50	Bottom of swale, 30 ft. below cor., course N.
	Asc.
22.00	Top of divide ridge, 200 ft. above swale, brs. N. and S.
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 10 in N. and S 15 in S. halves, and dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist., and raised a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
45.80	Bottom of hollow, 200 ft. below ridge, course SW.
	Asc.
79.90	The cor. of secs. 9, 10, 15 and 16.
	Land, mountainous, slopes E. and W.
	Soil, sandy and black loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, none.

Subdivision T. 31 S., R. 9 W.

Chains	
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous land or land covered with dense brush 79.90 chs.
	May 31, 1911: At this cor. I set off 21°51'N. on the decl. arc. and at 11 h 57 m a.m., l.m.t., 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 rolling mountainous country; 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 9 in W. and S 10 in E. halves, and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
55.00	Top of divide ridge 300 ft. above cor., brs. NW. and SE.
	Desc.
77.10	Bottom of swale, 200 ft. below ridge, course E.
	Enter heavy cedar and pinon pine timber, brs. 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.31 S S 4 in NW.
	R 9 W S 3 in NE.
	S 10 in SE. and
	S 9 in SW. quadrants, from which
	A pinon pine, 9 ins. in dia., brs. N.23°E.,
	86 lks. dist., mkd. T 31 S R 9 W S 3 B T
	A cedar, 7 ins. in dia., brs. S.62°E.,
	68 lks. dist., mkd. T 31 S R 9 W S 10 B T
	A pinon pine, 10 ins. in dia., brs. S.82°W.,
	45 lks. dist., mkd. T 31 S R 9 W S 9 B T
	A pinon pine, 14 ins. in dia., brs. N.65°W.,
	56 lks. dist., mkd. T 31 S R 9 W S 4 B T

Subdivision T. 31 S., R. 9 W.

Chains	
	Land, mountainous.
	Soil, sand and black loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber and brush
	80.00 chs.
	East on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the cor. of secs. 2,3,10 and 11.
	Thence I run
	West on a true line bet. secs. 3 and 10.
	Over mountainous country; through heavy cedar and pine
	timber and sage brush. Asc.
30.00	Top of ridge, 200 ft. above cor., brs. 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 3 in
	N. and S 10 in S. halves, from which a
	Cedar, 7 ins. in dia., brs. N.89°W.,
	70 lks. dist., mkd. ¼ S 3 B T
	Cedar, 6 ins. in dia., brs. S.89°E.,
	145 lks. dist., mkd. ¼ S 10 B T
64.75	Bottom of hollow, 500 ft. below ridge, course N.
	Asc.
80.00	The cor. of secs. 3,4,9 and 10.
	Land, mountainous slopes and drains northerly.
	Soil, sandy loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass in patches.
	Mountainous land or land covered with timber and brush,

Chains	
	80.00 chs.
	N.0°02'W. bet. secs. 3 and 4.
	Over mountainous country; through heavy cedar and pinon pine timber, and 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 4 in W. and S 3 in E. halves, from which a Cedar, 5 ins. in dia., brs. N.14°E., 13 lks. dist., mkd. ¼ S 3 B T Cedar, 8 in. in dia., brs. S.81°W., 37 lks. dist., mkd. ¼ S 4 B T
44.30	Top of point, 200 ft. above sec. cor., brs. NW. and SE.
	Desc.
82.50	Bottom of canon, 500 ft. below point, course NW.
	Asc.
92.03	Intersect 6th Standard Parallel South, 15.97 chs. N. 89°07'W. of the cor. of secs. 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 30 S R 9 W S 33 S 34 in N half, S 3 in SE. and S 4 in SW. quadrants, from which A cedar, 12 ins. in dia., brs. S.40°E., 69 lks. dist., mkd. T 31 S R 9 W S 3 B T A cedar, 10 ins. in dia., brs. S.60°W., 85 lks. dist., mkd. T 31 S R 9 W S 4 B T
	Land, mountainous slopes NW. and SE.
	Soil, red sand and black loam.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Mountainous land or land covered with brush or timber

Chains	
	92.03 chs.
	May 31, 1911.
	June 1, 1911: At 7 h 57 m a.m.l.m.t., I set off 38°04' N. on the lat. arc; 21°59'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33, on S. bdy. of Tp., heretofore described.
	Thence I run
	N.0°03'W. bet. secs. 32 and 33.
	Over rolling mountainous country; through cedar and pinon pine timber and dense sage brush.
	Desc.
2.00	Old road, brs. NE. and SW.
12.35	Head of hollow, 40 ft. below cor., course N.80°E.
	Asc.
36.30	Top of ridge, 100 ft. above hollow, brs. 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 32 in W. and S. 33 in E. halves, from which a Cedar, 6 ins. in dia., brs. S.74°E., 157 lks. dist., mkd. ¼ S 33 B T and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	No other trees within limits.
60.10	Bottom of hollow, 100 ft. below, course SW.
	Asc.
75.00	Top of ridge, 70 ft. above hollow, brs. N.35°E. and S. 35°W.
	Desc.
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 T 31 S S 29 in NW. R 9 W S 28 in NE.

Subdivision T. 31 S., R. 9 W.

Chains	
	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, rolling mountainous, slopes E. and W.
	Soil, sandy loam, 2 ft. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass in patches.
	Mountainous land or land covered with timber or brush, 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, 9 lks. S. of 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 rolling mountainous country; through dense sage brush.
	Asc.
19.70	Top of ridge, 130 ft. above cor., brs. NE. and SW.
	Desc.
38.00	Old road, brs. N.2°W. and S.2°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 N. and S 33 in S. halves, and dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist., and raised a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
60.10	Bottom of hollow, 150 ft. below ridge, course SW.
	Asc.
78.00	Top of ridge, 100 ft. above swale, brs. N.35°E. and S. 35°W.
	Desc.
80.00	The cor. of secs. 28, 29, 32 and 33.
	Land, mountainous, slopes and drains southwesterly.

Chains	
	Soil, sand and loam, 14 ins. deep.
	Subsoil, gravel.
	Timber, none.
	Undergrowth, sage.
	Mountainous land or land covered with sage brush 80.00 chs.
	At noon the sky is overcast making solar observations impossible.
	June 1, 1911.
	N.0°03'W. bet. secs. 28 and 29.
	Over rolling mountainous country; through dense sagebrush.
	Desc.
11.00	Bottom of swale, 50 ft. below cor., course SW.
	Asc.
14.00	Top of spur, 40 ft. above swale, brs. NE. and SW.
	Desc.
21.00	Bottom of hollow, 50 ft. below spur, course S.30°W.
	Asc.
35.00	Top of ridge, 100 ft. above hollow, brs. 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 29 in W. and S 28 in E. halves, and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
59.25	Bottom of hollow, 120 ft. below ridge, course SW.
	Asc.
75.00	Top of ridge, 140 ft. above hollow, brs. 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 31 S S 20 in NW.
	R 9 W S 21 in NE.
	S 28 in SE. and
	S 29 in SW. quadrants, and raise a mound

Chains	
	of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, rolling mountainous, slopes and drains southwesterly.
	Soil, sandy loam well mixed with little pebbles, 2 ft. deep.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with dense sage brush 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 9 lks. N. of the cor. of secs. 21, 22, 27 and 28.
	Thence I run
	West, on a true line bet. secs. 21 and 28.
	Over rolling mountainous country; through cedar and pinon pine timber, and dense sage brush.
	Desc.
36.00	Old road, brs. NE. and S.30°W.
36.70	Bottom of swale, 140 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. and S. 28 in S. halves, from which a
	Cedar, 6 ins. in dia., brs. N.60'W., 107 lks. dist., mkd. ¼ S 21 B T
	Cedar, 9 ins. in dia., brs. S.40°E., 19 lks. dist., mkd. ¼ S 28 B T
49.60	Top of ridge, 100 ft. above hollow, brs. N.35°E. and S. 35°W.
	Desc.
59.00	Bottom of hollow, 80 ft. below ridge, course SW.
	Asc.

Chains

76.00 Top of ridge, brs. NE. and SW., 120 ft. above hollow.

Desc.

80.04 The cor. of secs. 20, 21, 28 and 29.

Land, rolling mountainous, slopes and drains SW.

Soil, red sand and gravel, 17 ins. deep.

Subsoil, gravel.

Timber, cedar and pinon pine.

Undergrowth, sage.

A little grass.

Mountainous land or land covered with timber or sage brush 80.04 chs.

June 1, 1911.

June 2, 1911: At 8 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. 20, 21, 28 and 29.

Thence I run

N.0°03'W. bet. secs. 20 and 21.

Over rolling mountainous country; through cedar timber and dense sage brush.

Desc.

8.55 Bottom of swale, 90 ft. below cor., course SW.

Asc.

20.00 Top of ridge, 120 ft. above swale, brs. 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. and S 21 in E. halves, from which a

Cedar, 6 ins. in dia., brs. N.56°E.

42 lks. dist., mkd. ¼ S 20 B T

Cedar, 4 ins. in dia., brs. S.60°W.,

31 lks. dist., mkd. ¼ S 20 B T

45.60 Bottom of hollow, 125 ft. below ridge, course W.

Asc.

57.50 Top of ridge, 125 ft. above hollow, brs. E. and W.

Chains	
	Desc.
74.00	Bottom of hollow, 120 ft. below ridge, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 16,17,20 and 21, mkd. on brass cap
	T 31 S S 17 in NW.
	R 9 W S 16 in NE.
	S 21 in SE. and
	S 20 in SW. quadrants, from which a
	Cedar, 6 ins. in dia., brs. N.20°E., 145 lks. dist., mkd. T 31 S R 9 W S 16 B T
	Cedar, 6 ins. in dia., brs. S.76°E., 65 lks. dist., mkd. T 31 S R 9 W S 21 B T
	Cedar, 14 ins. in dia., brs. S.61°W., 22 lks. dist., mkd. T 31 S R 9 W S 20 B T
	Cedar, 7 ins. in dia., brs. N.73°W., 205 lks. dist., mkd. T 31 S R 9 W S 17 B T
	Land, mountainous, slopes southwesterly.
	Soil, sandy loam well mixed with pebbles.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber or brush 80.00 chs.
	East on a random line bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line, 3 lks. S. of cor. of secs. 15, 16, 21 and 22.
	Thence I run
	S.89°59'W. on a true line bet. secs. 16 and 21.
	Over rolling mountainous country; through heavy cedar and pinon pine timber and sage brush.
	Asc.

Chains	
12.00	Top of ridge, 90 ft. above cor., bears N.70°E. and SW.
	Old road, brs. N.10°W. and S.10°E.
	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 16 in N. and S 21 in S. halves, from which a
	Cedar, 6 ins. in dia., brs. N.44°W., 61 lks. dist., mkd. ¼ S 16 B T
	Cedar, 6 ins. in dia., brs. S.13°W., 53 lks. dist., mkd. ¼ S 21 B T
40.90	Bottom of hollow, 160 ft. below ridge, course SW.
	Asc.
57.50	Top of ridge, 140 ft. above hollow, brs. NE. and SW.
	Desc.
73.90	Bottom of swale, 100 ft. below ridge, course SW.
	Asc.
79.98	The cor. of secs. 16, 17, 20 and 21.
	Land, mountainous, slopes southwesterly.
	Soil, sandy loam, 12 ins. deep.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber or sage 79.98 chs.
	June 2, 1911; At this cor. I set off 38°07'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 22°08' N., which is the proper lat. nearly.

	N.0°03'W. bet. secs. 16 and 17.
	Over rolling mountainous country; through cedar timber and sage brush.
	Asc.
5.00	Top of ridge, 75 ft. above cor., brs. NE. and SW.

Subdivision T. 31 S., R. 9 W.

Chains	
	Desc.
11.50	Bottom of swale, 80 ft. below ridge, course SW.
	Asc.
19.00	Leave timber, brs. NW. and SE.
38.20	Top of ridge, 180 ft. above swale, brs. 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 17 in W. and S 16 in E. halves and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
65.00	Bottom of hollow, 200 ft. below ridge, course S.60°W.
	Asc.
67.00	Enter cedar timber, brs. NE. and SW.
73.50	Top of point, 115 ft. above hollow, brs. 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 9 W S 9 in NE. S 16 in SE. and S 17 in SW. quadrants, from which a Cedar, 10 ins. in dia., brs. N.48°E., 157 lks. dist., mkd. T 31 S R 9 W S 9 B T Cedar, 8 ins. in dia., brs. S.11°E., 108 lks. dist., mkd. T 31 S R 9 W S 16 B T Cedar, 10 ins. in dia., brs. S.2°W., 202 lks. dist., mkd. T 31 S R 9 W S 17 B T Cedar, 5 ins. in dia., brs. N.60°W., 300 lks. dist., mkd. T 31 S R 9 W S 8 B T
	Land, rolling mountainous slopes SW.
	Soil, sandy loam well mixed with cobble rock.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	A little grass.

Chains

Mountainous land or land covered with timber or brush, 80.00 chs.

N.89°59'E. on a random line bet. secs. 9 and 16.

40.00 Set temp. ¼ sec. cor.

79.94 Intersect N. and S. line, 7 lks. S. of 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 mountainous country; through dense sage brush.

Desc. gradually.

23.50 Road in bottom of hollow, 130 ft. below cor., course S. and brs. N.20°W.

Asc.

39.20 Top of ridge, 225 ft. above hollow, brs. N.20°E. and S. 20°W.

Desc.

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 9 in N. and S 16 in S. halves, and raised a mound of stone 2 ft. base, 1½ ft. high N. of cor.

60.00 Bottom of swale, 200 ft. below ridge, course SW.

Asc.

67.20 Enter cedar timber, brs. NE. and SW.

72.40 Top of spur 125 ft. above swale, brs. NE. and SW.

Desc.

79.94 The cor. of secs. 8, 9, 16 and 17.

Land, mountainous, slopes southerly.

Soil, sandy loam, 14 ins. deep.

Subsoil, gravel.

Timber, cedar.

Undergrowth, sage.

A little grass.

Mountainous land covered with timber or brush 79.94 chs.

June 2, 1911.

Subdivision T. 31 S., R. 9 W.

Chains	
	June 3, 1911: At 6 h 58 m a.m., l.m.t., I set off 38° 08'N. on the lat. arc; 22°15'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 high rolling mountainous country; through dense sage brush.
	Asc.
18.00	Top of ridge, 200 ft. above cor., brs. NW. and SE.
	Desc.
35.50	Bottom of swale, 190 ft. below ridge, 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 8 in W. and S 9 in E. halves, and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
46.70	Top of ridge, 180 ft. above swale, brs. NW. and SE.
	Desc.
66.10	Old road, in bottom of swale, 150 ft. below ridge, course SE. and brs. NW.
	Asc.
80.00	Set an iron post, 3 ft. long, 1 in. 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 9 W S 4 in NE. S 9 in SE. and S 8 in SW, quadrants, and dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. from post, and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, mountainous, slopes and drains southeasterly.
	Soil, sand and black loam, 12 to 18 ins. deep.
	Subsoil, gravel and clay.
	Timber, none.
	Undergrowth, sage.

Chains	
	Good grass for grazing.
	Mountainous land covered with sage brush 80.00 chs.
	June 3, 1911: At noon the sky is overcast, making solar observations impossible.
	N.89°56'E. on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
79.93	Intersect N. and S. line, 4 lks. S. of 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 country; through cedar timber and sage brush.
	Asc.
14.00	Leave timber, brs. N. and S.
30.00	Top of ridge, 290 ft. above cor., brs. NE. and SW.
	Desc.
39.30	Bottom of swale, 100 ft. below ridge, course N.25°E.
	Asc.
39.965	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. and S. 9 in S. halves, and raised a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
46.40	Top of ridge, 140 ft. above swale, brs. N.30°E. and S. 30°W.
	Desc.
66.00	Head of swale, 100 ft. below ridge, course N.10°W.
	Asc.
74.00	Top of Divide Ridge, 120 ft. above swale, brs. N.70°W. and S.70°E.
	Desc.
79.93	The cor. of secs. 4, 5, 8 and 9.
	Land, mountainous slopes and drains northerly.
	Soil, sandy loam, 12 to 20 ins. deep.
	Subsoil, gravel.

Subdivision T. 31 S., R. 9 W.

Chains	
	Timber, cedar.
	Undergrowth, sage.
	A little grass on ridges.
	Steep mountainous land covered with sage brush and timber. 79.93 chs.
	N.0°03'W. bet. secs. 4 and 5.
	Over steep mountainous country; through sage brush.
	Asc.
2.00	Top of Divide Ridge, 20 ft. above cor., brs. N.70°W., and S.70°E.
	Desc. abruptly.
24.00	Enter cedar and pinon pine timber, bears E. and W.
34.00	Bottom of swale, 400 ft. below ridge, course NW.
	Asc.
39.70	Top of ridge, 200 ft. above swale, brs. 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 5 in W. and S 4 in E. halves, from which a Cedar, 5 ins. in dia., brs. S.67°E., 34 lks. dist., mkd. ¼ S 4 B T Pinon pine, 7 ins. in dia., brs. N.46°W., 43 lks. dist., mkd. ¼ S 5 B T.
59.70	Bottom of swale, 150 ft. below ridge, course NW.
	Asc.
72.60	Top of point 140 ft. above swale, brs. NW. and SE.
	Desc.
93.13	Intersect 6th Standard Parallel South, 14.87 chs. N. 89°45'W. of 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 9 W S 32 S 33 in N. half,

Chains	
	R 9 W S 4 in SE. and T 31 S S 5 in SW. quadrants, from which a Cedar, 6 ins. in dia., brs. S.47°45'E., 66 lks. dist., mkd. T 31 S R 9 W S 4 B T Cedar, 7 ins. in dia., brs. S.12°45'W., 81 lks. dist., mkd. T 31 S R 9 W S 5 B T
	Land, steep, mountainous, slopes NE.
	Soil, sand and clay, 14 to 20 ins. deep.
	Subsoil, clay and gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass for grazing.
	Steep mountainous land or land covered with timber or brush 93.13 chs.
	June 3, 1911.
	June 5, 1911: At 7 h 58 m a.m., l.m.t., I set off 38°04' E. on the lat. arc; 22°29'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 31, and 32 on S. bdy. of township heretofore described.
	Thence I run
	N.0°03'W. bet. secs. 31 and 32.
	Over mesa land, through dense sage brush and cedar and pinon pine timber.
11.00	Ridge, 100 ft. above cor., brs. N.80°E. and S.80°W.
	Desc.
14.70	Bottom of swale, 75 ft. below cor., course SW.
	Asc.
21.70	Top of spur, brs. N.25°E. and S.25°W.
	Desc.
25.60	Bottom of swale, 60 ft. below spur, course S.25°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 31 in W. and S 32 in E. halves, from which a

Chains	
	Cedar, 9 ins. in dia.,brs. N.85°E.,
	4 lks. dist., mkd. ¼ S 32 B T
	Cedar, 10 ins. in dia.,brs. S.87°W.,
	48 lks. dist., mkd. ¼ S 31 B T
80.00	On top of ridge, 150 ft. above cor.
	Set an iron post, 3 ft. long, 2 ins. in dia.,24 ins. in the ground for cor. of secs. 29,30,31 and 32, mkd. on brass cap
	T 31 S S 30 in NW.
	R 9 W S 29 in NE.
	S 32 in SE. and
	S 31 in SW.quadrants, from which a
	Cedar, 7 ins. in dia.,brs. N.60°45'E.,
	151 lks. dist.,mkd. T 31 S R 9 W S 29 B T
	Cedar, 8 ins. in dia.,brs. S.89°30'E.,
	128 lks. dist., mkd. T 31 S R 9 W S 32 B T
	Cedar, 6 ins. in dia.,brs. S.40°45'W.,
	184 lks. dist., mkd. T 31 S R 9 W S 31 B T
	Cedar, 5 ins. in dia.,brs. S.5°43'W.,
	65 lks. dist., mkd. T 31 S R 9 W S 30 B T
	Land, mountainous, slopes southwesterly.
	Soil, sand and black loam.
	Subsoil, gravel and clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous land or land covered with timber or sage brush, 80.00 chs.
	East on a random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, 7 lks. N. of cor. of secs. 28, 29, 32 and 33.
	Thence I run
	N.89°57'W. on a true line bet. secs. 29 and 32.

Chains	
	Over mountainous country; through cedar and pinon pine timber and dense sage brush.
	Desc.
6.10	Bottom of hollow, 75 ft. below cor., course SW.
	Asc.
18.05	Top of ridge, 90 ft. above hollow, brs. N.30°E. and S. 30°W.
	Desc.
34.85	Bottom of hollow, 100 ft. below ridge, course S.
	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 29 in N. and S 32 in S. halves, from which a Cedar, 6 ins. in dia., brs. N.6°W., 100 lks. dist., mkd. ¼ S 29 B T and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	There is but one tree within limits.
47.00	Top of ridge, 50 ft. above hollow, brs. N.20°E. and S. 20°W.
53.80	Bottom of hollow, 50 ft. below ridge, course S.
	Asc.
80.08	The cor. of secs. 29, 30, 31 and 32.
	Land, mountainous, slopes and drains southerly.
	Soil, sand and gravel.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Mountainous land or land covered with timber or brush 80.00 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., observe the sun on the meridian, the resulting lat. is 38°05'N. which is the proper lat. nearly.

Chains	
	West on a random line bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor.,
79.92	Intersect W. bdy. of Tp. 7 lks. N. of cor. of secs. 25, 30, 31 and 36, heretofore described.
	Thence I run
	N.89°57'E. on a true line bet. secs. 30 and 31.
	Over mountainous country; through cedar and pinon pine timber and dense sage brush.
	Desc.
16.50	Bottom of swale, 90 ft. below cor., course S.18°W.
	Asc.
21.20	Top of ridge, 100 ft. above swale, brs. N.20°E. and S. 20°W.
	Desc.
35.80	Bottom of swale, 120 ft. below ridge, course S.20°W.
	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 30 in N. and S 31 in S. halves, from which a
	Cedar, 6 ins. in dia., brs. N.20°E.,
	94 lks. dist., mkd. ¼ S 30 B T.
	Cedar, 8 ins. in dia.,brs. S.34°30'E.,
	140 lks. dist., mkd. ¼ S 31 B T
42.00	Top of ridge, 150 ft. above swale, brs. N.20°E. and S. 20°W.
	Desc.
58.25	Bottom of swale, 140 ft. below ridge, course S.25°W.
	Asc.
79.92	The cor. of secs. 29, 30, 31, and 32.
	Land, mountainous slopes and drains southwesterly.
	Soil, red sand loam.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	Good grass in patches.
	Mountainous land or land covered with timber or brush

Chains	
	79.92 chs.
	N.0°03'W. bet. secs. 29 and 30.
	Over mountainous country; through cedar and pinon pine timber, and sage brush.
14.00	Leave timber, brs. N.60°E. and S.60°W.
28.00	Bottom of swale, 100 ft. below ridge, course SW.
	Asc.
35.00	Top of ridge, 100 ft. above swale, brs. 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 30 in W. and S 29 in E. halves, and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
44.00	Bottom of swale, 90 ft. below ridge, course SW.
	Asc.
	Enter cedar and pinon pine timber, brs. 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. 19,20,29 and 30, mkd. on brass cap
	T 31 S S 19 in NW.
	R 9 W S 20 in NE.
	S 29 in SE. and
	S 30 in SW. quadrants, from which a
	Cedar, 5 ins. in dia., brs. S.33°W.,
	165 lks. dist., mkd. T 31 S R 9 W S 30 B T
	Cedar, 7 ins. in dia., brs. N.29°30'W.,
	215 lks. dist., mkd. T 31 S R 9 W S 19 B T.
	There are no other trees within limits, therefore I raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, mountainous slopes and drains southwesterly.
	Soil, sand and black loam.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.

Chains	
	Good grass for grazing.
	Mountainous land or land covered with timber or brush 80.00 chs.
	S.89°57'E. on a random line bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.,
80.06	Intersect N. and S. line 12 lks. S. of cor. of secs. 20, 21, 28 and 29.
	Thence I run
	N.89°58'W. on a true line bet. secs. 20 and 29.
	Over mountainous country; through scattering cedar and pinon pine timber and dense sage brush.
	Desc.
6.25	Bottomof hollow, 75 ft. below cor., course S.20°W.
	Asc.
13.00	Top of ridge, 60 ft. above hollow, brs. N.10°E. and S. 10°W.
	Desc.
21.40	Bottom of hollow, 80 ft. below ridge, course S.
	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 20 in N. and S 29 in S. halves, and raised a mound of stone 2 ft. base, 1½ ft. high N. of cor.
44.00	Top of ridge, 75 ft. above hollow, brs. N.10°E. and S.10° W.
	Desc.
51.25	Bottom of hollow, 60 ft. below ridge, course S.30°W.
	Asc.
80.05	The cor. of secs. 19, 20, 29 and 30.
	Land, mountainous, slopes and drains southerly.
	Soil, sandy loam.
	Subsoil, gravel.
	Timber, cedar and pinon pine timber.
	Undergrowth, sage.

Chains	
	Mountainous land or land covered timber or brush 80.06 chs.
	June 5, 1911.
	June 6, 1911: At 7 h 58 m a.m., l.mt., I set off 38°06'N on the lat. arc; 22°36'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30.
	Thence I run
	S.89°57'W. on a random line bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
79.86	Intersect W. bdy. of tp. 6 lks. S. of the cor. of secs. 19, 24, 25 and 30, heretofore described.
	Thence I run
	East on a true line bet. secs. 19 and 30.
	Over rolling mountainous country; through scattering cedar and pinon pine timber and dense sage brush.
	Asc.
10.00	Top of ridge, 120 ft. above cor., brs. N.15°E. and S. 15°W.
	Desc.
17.50	Bottom of swale, 100 ft. below ridge, course SW.
	Asc.
39.86	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. and S 30 in S. halves, and dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist., and raised a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
73.20	Top of ridge, 120 ft. above swale, brs. N. 40°E. and S.40°W.
	Desc.
79.86	The cor. of secs. 19,20,29 and 30.
	Land, mountainous, slopes and drains southwesterly.
	Soil, sandy loam.
	Subsoil, gravel.
	Timber, cedar and pinon pine.

Chains	
	Undergrowth, sage.
	Mountainous land or land covered with timber and brush 79.86 chs.
	N.0°03'W. bet. secs. 19 and 20.
	Over mountainous country; through scattering cedar and pinon pine timber and dense sage brush.
	Asc.
9.00	Top of ridge, 160 ft. above cor., brs. N.30°E. and S. 40°W.
	Desc.
10.00	Leave timber, brs. 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 19 in W. and S 20 in E. halves, 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.
57.00	Bottom of hollow, 250 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. 17,18,19 and 20, mkd. on brass cap T 31 S S 18 in NW. R 9 W S 17 in NE. S 20 in SE. and S 19 in SW.quadrants, and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Land, mountainous.
	Soil, sandy loam.
	Subsoil,gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber or sage 80.00 chs.
	June 6, 1911: At this cor. I set off 22°36'N. on the

Chains	
	decl. arc; and at 11 h 58 m a.m.l.m.t., observe the sun on the meridian the resulting lat. is 38°07'N. which is the proper lat. nearly.
	S.89°58'E. on a random line bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.,
80.02	Intersect N. and S. line, 4 lks. S. of cor. of secs. 16, 17,20 and 21.
	Thence I run
	West on a true line bet. secs. 17 and 20.
	Over mountainous country; through dense sage brush and timber.
	Asc.
7.25	Top of ridge, 100 ft. above cor., brs. NE. and SW.
	Desc.
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 17 in N. and S 20 in S. halves, and raised a mound of stone 2 ft. base, 1½ ft. high N. of cor.
68.90	Bottom of hollow, 290 ft. below ridge, course S.40°W.
	Asc.
80.02	The cor. of secs. 17,18,19 and 20.
	Land, mountainous.
	Soil, black loam.
	Subsoil, gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber or brush, 80.02 chs.
	West, on a random line, bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.,
79.81	Intersect W. bdy. of Tp. 3 lks. N. of cor. of secs. 13, 18, 19 and 24, heretofore described.

Chains	
	Thence I run
	N.89°59'E. on a true line bet. secs. 18 and 19.
	Over mountainous country; through cedar timber and dense sage brush.
	Desc.
38.00	Bottom of swale, 120 ft. below cor., course S.10°E.
	Asc.
39.81	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. and S 19 in S. half, from which a
	Cedar, 5 ins. in dia.,brs. N.21°W.,
	58 lks. dist., mkd. ¼ S 18 B T
	Cedar, 6 ins. in dia.,brs. S.22°W.
	84 lks. dist., mkd. ¼ S 19 B T
56.00	Top of ridge, 100 ft. above swale, brs. N. and S.
59.00	Leave timber, brs. N. and S.
79.81	The cor. of secs. 17, 18, 19 and 20.
	Land, mountainous.
	Soil, sandy loam.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	A little grass.
	Mountainous land or land covered with timber or brush 79.81 chs.
	June 6, 1911.

June 7, 1911: At 7 h 58 m a.m.,l.m.t., I set off 38° 07'N. on the lat. arc. 22°42'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.

Over mountainous country; through cedar timber and dense sage brush.

Desc. gradually.

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 18 in W. and S 17 in E. halves, from which a Cedar, 8 ins. in dia.,brs. N.60°E., 79 lks. dist., mkd. ¼ S 17 B T Cedar, 6 ins. in dia.,brs. N.70°W., 47 lks. dist., mkd. ¼ S 18 B T
72.00	Bottom of swale, 100 ft. above cor., course S.10°E.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 7,8,17 and 18, mkd. on brass cap T 31 S S 7 in NW. R 9 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, slopes and drains southerly. Soil, black loam, 18 ins. deep, 2nd rate. Subsoil, gravel. Timber, cedar. Undergrowth, sage. A little grass for grazing. Mountainous land or land covered with timber or sage brush 80.00 chs.
	East on random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line, 5 lks. S. of cor. of secs. 8, 9, 16 and 17.
	Thence I run S.89°58'W. on a true line bet. secs. 8 and 17. Over rolling mountainous country; through cedar timber and sage brush. Desc.
5.20	Bottom of hollow, 75 ft. below cor., course S.-

Subdivision T. 31 S., R. 9 W.

Chains	
	Asc.
18.20	Top of ridge, 200 ft. above swale, brs. N.20°W. and S. 20°E.
	Desc.
38.00	Bottom of hollow, 190 ft. below ridge, course S.25°E.
	Asc.
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 8 in N. and S 17 in S. halves, from which a Cedar, 8 ins. dia., brs. N.87°W., 17 lks. dist., mkd. ¼ S 8 B T Cedar, 7 ins. in dia., brs. S.21°30'W., 97 lks. dist., mkd. ¼ S 17 B T
51.00	Top of ridge, 200 ft. above hollow, brs. N.30°E. and S.30°W.
	Desc.
79.98	The cor. of secs. 7, 8, 17 and 18.
	Land, mountainous, slopes southerly.
	Soil, black loam, 19 ins. deep, 2nd rate.
	Subsoil, gravel and clay.
	Timber, cedar.
	Undergrowth, sage.
	Good grass.
	Mountainous land or land covered with timber or brush, 79.98 chs.

June 7, 1911.

Quimby Stewart

Instrumentman G. L. O.

TEST OF INSTRUMENT.

Survey commenced June 6, 1911 and executed with a W. and L.E.Gurley's explorers transit No. 957 with solar attachment. The horizontal limb is provided with two double verniers placed opposite each other, reading to

Chains

single minutes of arc; which is also the least count of the lat. and decl. 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. 7, 8, 17 and 18, T. 31 S. R. 9 W., latitude 38°07'45"N., longitude 112°51'50"W., I set off 38°08'N. on the lat. arc; 22°38'N. on the decl. arc; and at 3 h 58 m p.m.l.m.t., determine a meridian with the solar, and mark a point thereof on a stone set in the ground 5.00 chs. N. of cor.

June 6, 1911.

June 7, 1911: At the above mentioned cor. I observe Polaris at eastern elongation in accordance with the Manual at 2 h 33m a.m.,l.m.t., and mark a point in the line thus determined by a tack driven in a wooden plug set 5.00 chs. N. of cor.

At 7 h 47 m a.m.,l.m.t., I lay off the azimuth of Polaris, 1°29' to the W. and mark the meridian thus determined by a groove in the stone already set 5.00 chs. N. of cor. The line determined by solar falls 0.26 ins. W. of this line.

At 7 h 58 m a.m.l.m.t., I set off 38°08'N. on the lat. arc; 22°42'N. on the decl. arc. and determine a meridian with the solar. This line falls. 0.28 ins. E. of the line established by Polaris observations.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively, about

Subdivision T. 31 S., R. 9 W.

Chains	
	0'14"W. and 0'15"E. of meridian established by polaris therefore I conclude the adjustments of the instrument are satisfactory.
	The mag. bearing at this cor. is 16°14'E.
	Thence I run
	S.89°59'W. on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
79.75	Intersect W. bdy. of Tp. 9 lks. N. of cor. of secs. 7, 12, 13 and 18, heretofore described.
	Thence I run
	S.89°57'E. on a true line bet. secs. 7 and 18.
	Over mountainous country; through cedar timber and dense sage brush.
	Desc.
21.00	Bottom of swale, 100 ft. below cor., course S.35°E.
	Asc.
39.75	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. and S 18 in S. halves, from which a
	Cedar, 10 ins. in dia.,brs. N.78°W., 14 lks. dist., mkd. ¼ S 7 B T
	Cedar, 10 ins. in dia.,brs. S.23°30'E., 33 lks. dist., mkd. ¼ S 18 B T
61.00	Top of ridge, 200 ft. above hollow, brs. N.50°W. and S.50°E.
	Desc.
78.20	Bottom of swale, 120 ft. below ridge, course S.10°E.
	Asc.
79.75	The cor. of secs. 7, 8, 17 and 18.
	Land, mountainous, slopes SE.
	Soil, black loam, well mixed with cobble rock, 2nd rate.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	Good grass.
	Mountainous land or land covered with timber and brush

Subdivision T. 31 S., R. 9 W.

Chains	
	79.75 chs.
	N.0°03'W. bet. secs. 7 and 8.
	Over mountainous country; 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 7 in W. and S 8 in E. halves, and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
41.40	Top of ridge, 250 ft. above sec. cor., brs. NW. and SE.
	Desc.
50.20	Bottom of swale, 50 ft. below ridge, course S.60°E.
	Asc.
73.00	Top of Divide Ridge, 100 ft. above swale, brs. E. and W.
	Desc. abruptly.
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 9 W S 5 in NE. S 8 in SE. and S 7 in SW. quadrants, and raised a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, mountainous.
	Soil, black loam, 16 ins. to 40 ins. deep, 1st and 2nd rate.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous land or land covered with brush 80.00 chs.
	June 7, 1911.
	John R. Stewart Instrumentman, G.L.O.

Subdivision T. 31 S., R. 9 W.

Chains	
	N.89°58'E. on a random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
79.92	Intersect N. and S. line, 4 lks. N. of the cor. of secs. 4, 5, 8 and 9.
	Thence I run
	West, on a true line bet. secs. 5 and 8,
	Over steep mountainous country; through sage brush.
	Asc.
18.00	Top of divide ridge, 50 ft. above cor., brs. N.70°E. and S.70°W.
	Desc. abruptly.
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 5 in N. and S 8 in S. halves, and raised a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
61.00	Bottom of gulch, 450 ft. below ridge, course N.
	Asc.
71.00	Top of ridge, 340 ft. above gulch, brs. N.20°W. and S. 20°E.
	Desc.
77.70	Bottom of gulch, 100 ft. below ridge, course N.
	Asc.
79.92	The cor. of secs. 5, 6, 7 and 8.
	Land, mountainous, slopes and drains northerly.
	Soil, black loam and gravel.
	Subsoil, clay and gravel.
	No timber.
	Undergrowth, sage and buck brush.
	Good grass
	Mountainous land covered with brush 79.92 chs.

June 7, 1911.

Quimby Stewart

Instrumentman, G.L.O.

Subdivision T. 31 S., R. 9 W.

Chains	
	N.89°57'W. on a random line bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
79.70	Intersect W. bdy. of Tp. 17 lks. S. of cor. of secs. 1, 6, 7 and 12, heretofore described.
	Thence I run
	S.89°50'E. on a true line bet. secs. 6 and 7.
	Over steep mountainous country, through sage and buck brush.
	Asc.
8.70	Top of divide ridge, 100 ft. above cor., brs. N. and S.
	Desc. abruptly.
39.70	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 6 in N. and S 7 in S. halves, and raised a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
40.40	Bottom of gulch, 400 ft. below ridge, course N.25°W.
	Asc.
70.70	Top of ridge, 300 ft. above gulch, brs. N.20°W. and S.20°E.
	Desc.
79.70	The cor. of secs. 5, 6, 7 and 8.
	Land, steep, mountainous.
	Soil, clay and black loam.
	Subsoil, gravel and clay.
	No timber.
	Undergrowth, sage and buck brush.
	Good grass for grazing.
	Steep mountainous land or land covered with brush 79.70 chs.

June 7, 1911.

John R. Stewart
Quincy Stewart
Instrumentman G.L.O.

Chains	
	N.0°03'W. on a true line bet. secs. 5 and 6.
	Over steep mountainous country; through dense sage brush.
	Desc. abruptly.
18.00	Enter scattering timber, cedar, brs. NW. and SE.
25.00	Bottom of gulch, 400 ft. below cor., course N.30°W.
	Asc.
37.00	Top of ridge, 100 ft. above gulch, brs. N.10°W. and S. 10°E.
	Desc.
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 W. and S 5 in E. halves, and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
93.45	Intersect 6th Standard Parallel South, 13.98 chs. N.89° 41'W. of 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 9 W S 31 S 32 in N half, R 9 W S 5 in SE. and T 31 S S 6 in SW. quadrants, and raised a mound of stone, 2 ft. base, 1½ ft. high S. of cor.
	Land, steep, mountainous, slopes northerly.
	Soil, sandy loam.
	Subsoil, clay and gravel.
	Timber, cedar.
	Undergrowth, sage.
	Good grass for grazing.
	Mountainous land or land covered with timber or brush, 93.45 chs.

June 7, 1911,

Quinby Stewart

Instrumentman, G.L.O.

GENERAL DESCRIPTION.

The greater portion of this township lies on the south side of the divide ridge, dividing Minersville valley from Parowan valley on the south, which divide runs in a east and west direction. The portion which lies on the south of this ridge, has a gentle slope to the south, while the land within the township on the north slope of same divide has a decided slope to the north.

The southeastern portion of the township has a heavy growth of cedar and pinon pine timber, while the remaining portion has a more limited growth. This timber at the present time has no commercial value. There is usually a dense growth of sage brush in those portions where the timber is not so heavy.

The township has an abundance of grass, which will make fine grazing in the winter months.

Animals cannot survive in this township during the summer because of there being no water, except that which comes from the melting snow.

The rock found is of a volcanic nature, although there are a few cobble rock scattered through the township. We found no indications of mineral.

No settlers were found living on or improving any of the land.

John R Stewart
Lainchy Stewart
Instrumentmen, G.L.O.

June 7, 1911.

FINAL OATHS OF ~~DEPUTY SURVEYOR~~ TRANSITMAN 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 ~~Tps. 31, 32, 33~~ subdivision and 34 S.R.10 W. and T.31 S., R.9 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 the subdivisional lines of Townships 31, 32, 33, and 34 South, Range 10 West; and T.31 S., R.9 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 7th day of June, 19 11

SEAL

Quinby Stewart
U.S. Transitman

6—161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, d
solemnly swear that, in pursuance of a contract received from .....
United States Surveyor General for ....., bearing date of th
..... day of ....., 19 , I have well, faithfully, and truly, in my ow
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 th
United States, surveyed all those parts or portions of .....
.....
.....
.....
..... of the .....
..... meridian, in the ..... of ....., which are represented in th
foregoing field notes as having been surveyed by me, and under my direction; and I do further solemn
swear that all the corners of said survey have been established and perpetuated in strict accordance wit
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 th
the foregoing are the original field notes of such survey.

Quimby Stewart
~~United States Deputy Surveyo~~
U.S. Transitus

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 19

The foregoing field notes of the survey of .....
.....
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.....
executed by .....
under his contract No. ....., dated ....., 19 , having bee
critically examined, and the necessary corrections and explanations made, the said field notes, and th
surveys they describe, are hereby approved.

.....
United States Surveyor Genera

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

.....
United States Surveyor General

6—151

CERTIFICATE OF ASSISTANTS.

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

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.....

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

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

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

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

.....

U. S. Surveyor.

FINAL OATH OF UNITED STATES ~~SURVEYOR~~ TRANSITMAN

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, 191 0, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisional lines of T.33 S., Rs.7 and 8 W.; T.32 S., Rs.6 & 7 W.; T. 31 S., Rs.6,7, and 8 W.; Tps.32 and 33 S., R.9 W.; Tps.31,32,33, and 34 S.,R.10 W.; and T.31 S., R.9 W.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes in books D,F,H,J,L,O,R,U,W,X,Z, Z', Z'', Z''' 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.

Quinby Stewart
~~U. S. Surveyor.~~
U.S. Transitman

Subscribed by said Quinby Stewart, and sworn to before me this 4 day of June, 191 2

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 191

The foregoing field notes of the survey of

executed by

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

U. S. Surveyor General.

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

U. S. Surveyor General.

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 Subdivision T.34 S., R.10 W., Tps.33,32, and 31 S., R.11 W., T.34 S., Rs.9 & 10 W. S.L.B.& M., Utah. showing the respective capacities in which they acted:

Isaac R. Hayes, *Chainman.*

J. Clarence Clark, *Chainman.*

Edgar S. Hurst, *Moundman.*

, *Moundman.*

Virgil Decker, *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 Subdivision T.34 S., R.10 W.; Tps.33, 32, and 31 S.R.11 W., T.31 S., R.9 W., and T.31 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.

Isaac R. Hayes, *Chainman.*

J. Clarence Clark, *Chainman.*

Edgar S. Hurst, *Moundman.*

, *Moundman.*

Virgil Decker, *Axman.*

, *Axman.*

, *Flagman.*

Subscribed and sworn to before me this 7th day of June, 19 11.

SEAL

John R. Stewart
U. S. Transitman

6—161

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 contract~~ Special instructions 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 the subdivisional lines in Tps. 33 S., Rs. 7 and 8 W.; Tps. 32 S. Rs. 6 and 7 W.; Tps. 31 S., Rs. 6, 7, and 8 W.; ~~Tps. 32 S., Rs. 8 and 9 W.; T. 34 S., R. 10 W.; T. 33 S., R. 11 W.; Tps. 31~~ and 32 S., R. 11 W.; T. 31 S., Rs. 9 and 10 W. of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes in books D. F. H. J. L. O. R. S. U. X. Z[1] Z[6] Z[8] Z[10] & Z[12] 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~~ Transitman

Subscribed by said John R. Stewart, and sworn to before me this 5th day of April, 19 12.

SEAL

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

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 T. No. 31 South, Range No. 9 West of the Salt Lake Base and Meridian, Utah~~

executed by John R. Stewart and Quinby Stewart under ~~his contract No.~~ their 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
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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