Volume

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R0387

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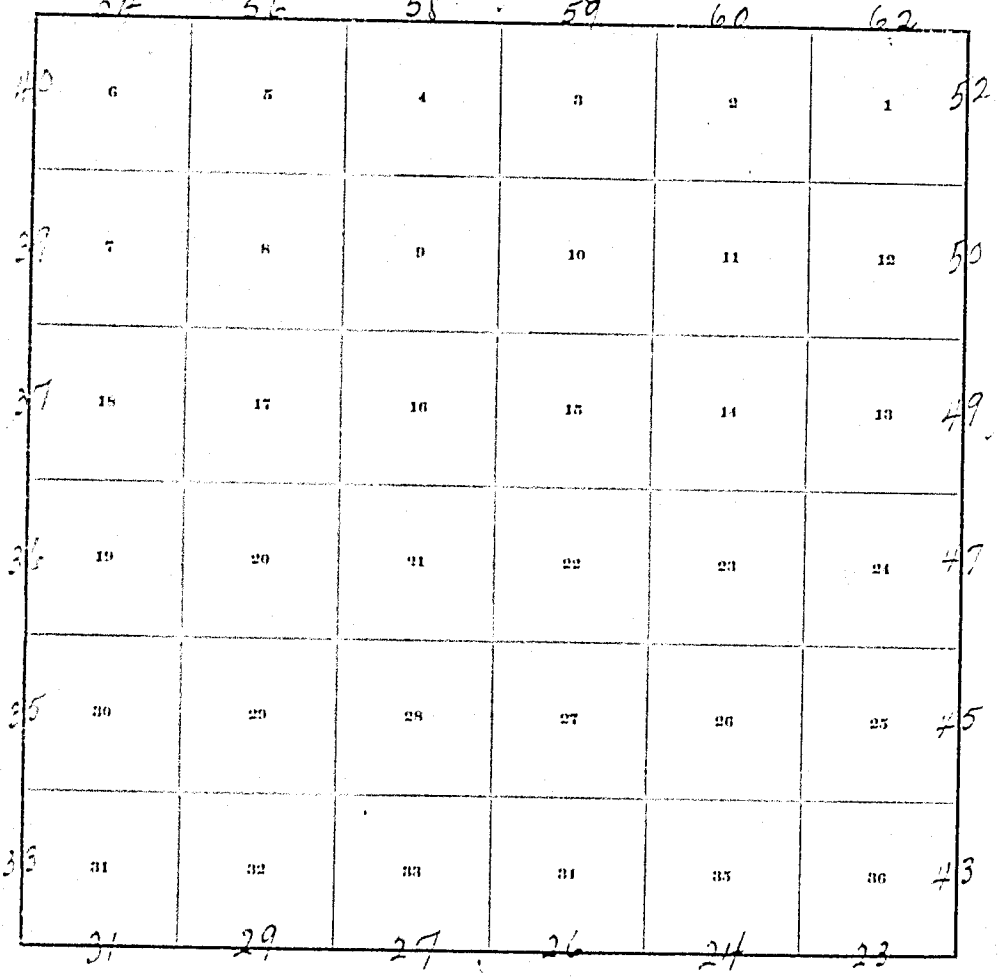
Township 32 South, Range 21 East



6—151

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 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....

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FIELD NOTES

OF THE SURVEY OF THE

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FIELD NOTES

OF THE SURVEY OF THE

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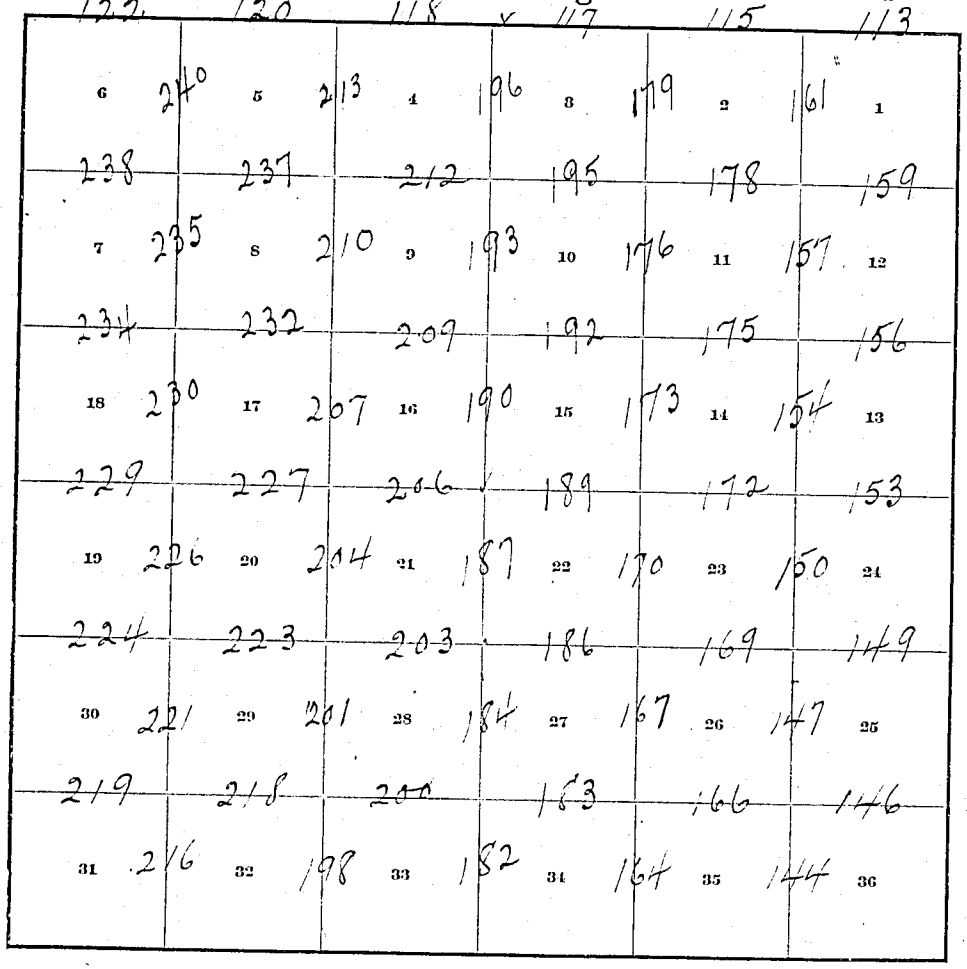

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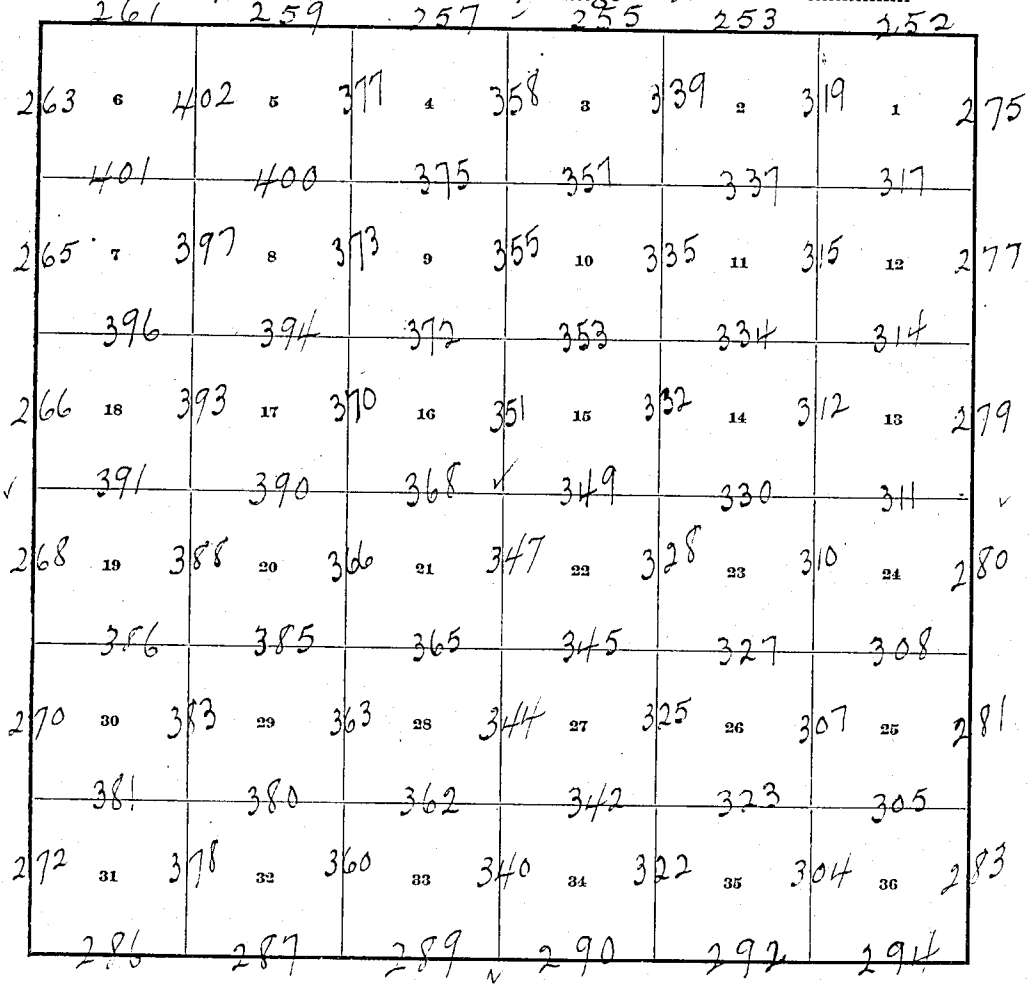

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Survey commenced ....., 191....

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FIELD NOTES

OF THE SURVEY OF THE

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In the State of .....

EXECUTED BY

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

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

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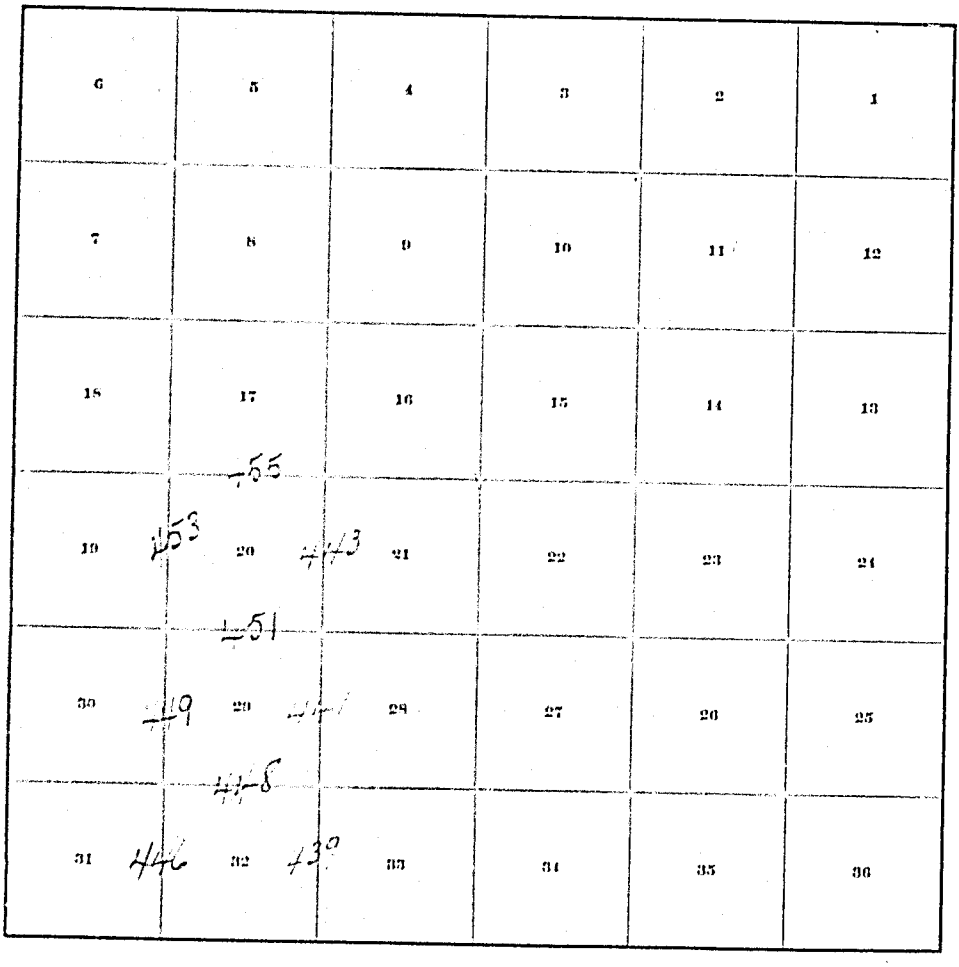
Township 32 South. Range 20 East



6—151

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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30	29	28	27	26	25
31	32	33	34	35	36

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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....,
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Group No. ....., which were approved by the Commissioner of the General Land
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Congress dated ....., 191....

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

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

Ex.E.B.

4—679

C.M.S. A.

BOOK A-387

FIELD NOTES

OF THE SURVEY OF THE

SOUTH, WEST, EAST, AND NORTH BOUNDARIES,

OF

TOWNSHIP NO. 32 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 May 20, *191* 1

Survey completed June 5, *191* 1.

6—151

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 South, West, East, and North Bdrs. of T. 32 S., R. 21 E. S. L. B. & M., Utah.

Edwin Garn, *Chainman.*

Clifford A. Jennings, *Chainman.*

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

Scot R. Stewart
U. S. Transitman

SEAL

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

_____, *Moundman.*

_____, *Moundman.*

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

_____

SEAL

WE, 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 South, West, East, and North Bdrs. 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 17th day of May by Winslow Read - and 7th day of June, 1901 by Lynn C. Rogerson

Scot R. Stewart
U. S. Transitman

SEAL

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

_____, *Flagman.*

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

_____

SEAL

6—151

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South bdy.T.32 S.,R.21 E.

Survey commenced May 20,1911,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;~~which are also the least count~~ o

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.

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 Tps.32 and 33 S.,Rs.21 and 22 E.,latitude 37°59'04"N.,longitude 109°35'44"W.,I set off 37°59'N.,on the lat.arc;19°55'N.,on the decl.arc;and at 3 h 56 m p.m., l.m.t.,I determine a meridian with the solar,and mark a point thereof on a stone,firmly set in the ground,5.00 chs.N.of the cor.

May 20,1911.

May 22,1911:At 3 h 35.6 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.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 the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor.;this mark falls 0.29 ins.east of the meridian established by the solar.

At 7 h 56 m a.m.,l.m.t.,I set off 37°59'N.,on the lat. arc;20°16'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 0.33 ins.east of the meridian

South bdy.T.32 S.,R.21 E.-Continued.

Chains

established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'15"west and 0'17"east of the meridian established by Polaris observation;therefore I conclued that the adjustments of the instrument are satisfactory.

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

The old cor.of Tps.32 and 33 S.,Rs.21 and 22 E.,is a granite stone,10x8x5 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general. The bearing trees are undersize and marked in the bark therefore I decide to destroy the old cor.and the old bearing trees and re-establish the cor.in the same place as follows:

Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of Tps.32 and 33 S.,Rs.21 and 22 E.,mkd. on brass cap

T 32 S in N half.

T 33 S in S.half.

R 21 E S 36 in NW.

R 22 E S31 in NE.

R 22 E S 6 in SE.;and

R 21 E S 1 in SW quadrants;from which

A pine,8 ins.dia.,bears N.20°20'E.,34 lks. dist..mkd.T 32 S R 22 E S 31 B T.

An aspen,4 ins.dia.,bears S.67°10'E.,28 lks. dist..mkd.T 33 S.,R.22 E.,S 6 B T.

An aspen,4 ins.dia. nears S.22°00'W.,181 lks. dist.,mkd.T 33 S R 21 E S 1 B T.

A pine,15 ins.dia.,bears N.33°W.,144 lks. dist..mkd.T 32 S R 21 E S 36 B T.

Thence I run

South bdy.T.32 S.,R.21 E.-Continued.

Chains	
	West,on atrue line bet.secs.1 and 36.
	Over mountainous land;through heavy aspen timber .
	Desc.
1.30	Creek,5 lks.wide,4 ins.deep,good water,in bottom of canon,
	50 ft.below Tp.cor.,course N.10°E.
	Asc.abruptly.
4.00	Leave heavy aspen timber and enter scattering pinon pine
	and aspen timber,bears N.and S.
24.70	Top of ridge,800 ft.above canon,bears N.and S.
	Desc.
28.50	Top of almost vertical ledge,130 ft.high,bears N.and S.
	Desc.abruptly over rock slide.
31.00	Head of hollow,250 ft.below ridge,course N.30°W.
	Asc.
38.50	Top of ridge,80 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the
	ground,on solid rock,and surrounded by mound of stone,
	for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 36 in N half.and
	S 1 in S half;from which
	A red pine,3 ins.dia.,bears N.77°W.195 lks.
	dist..mkd.$\frac{1}{4}$ S 36 B T.
	A red pine,6 ins.dia.,bears S.82°W.,165 lks.
	dist..mkd.$\frac{1}{4}$ S 1 B T.
45.50	Bottom of hollow,150 ft.below ridge,course N.20°W.
	Leave rock slide bears same.
	Asc.
56.80	Top of ridge,40 ft.above hollow,bears N.20°W.and S.20°E.
	Desc.
68.00	Bottom of canon,200 ft.below ridge,course N.
	Asc.
75.70	Top of ridge,200 ft.above canon,bears N.20°E.and S.20°W.
	Desc.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the
	ground,for cor.of secs.1,2,35,and 36,mkd.on brass cap

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

Chains

T 32 S S 35 in NW.

R 21 E S 36 in NE.

R 21 E S 1 in SE.;and

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

A sandstone ledges,15x10x4 ft.above ground,bears N.72°E.,16 lks.dist..mkd.x B O S 36

A sandstone boulder 4x4x4 ft.bears S.15°E.,19 lks.dist..mkd.x B O S 1

A pinon pine,8 ins.dia.,bears S.53°W.,16 lks. dist..mkd.T 33 S R 21 E S 2 B T.

A pinon pine,3 ins.dia.,bears N.25°30'W.,58 lks. dist..mkd.T 32 S R 21 E S 35 B T.

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

Land,very rough and mountainous.

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

Timber,pine,aspen,pinon pine,and cedar.

Good grass.

Mountainous or heavily timbered land,80.00 chs.

May 22,1911.

May 23,1911:At 7 h 56 m a.m.,l.m.t.,I set off 37°59'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.

Thence I run

West,on a true line bet.secs.2 and 35.

Over mountainous land;through dense undergrowth.

Desc.

6.90 Bottom of hollow,120 ft.below cor.,course N.20°E.

Asc.

14.00 Top of ridge,200 ft.above hollow,bears N.20°W.and S.20°E.

Desc.

17.00 Enter heavy pinon pine and cedar timber,bears N.20°W.and S.20°E.

19.70 Begin abrupt descent,bears N.20°W.and S.20°E.

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

Chains	
40.00	Set an iron post,3 ft.long,1 in in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 35 in N half. and S 2 in S half;from which
	A pinon pine,8 ins.dia.,bears N.8°E.,27 lks. dist..mkd.¼ S 35 B T.
	A pinon pine,6 ins.dia.,bears S.5°W.,34 lks. dist..mkd.¼ S 2 B T.
	May 25,1911:At this cor.I set off 20°29'N.,on the decl. arc;and at 11 h 56 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°59'N.,which is the proper lat.nearly.
40.50	Begin abrupt descent,over ledges,bears N.20°W.and S.20°E.
51.00	Bottom of canon,1000 ft.below ridge,course N.30°W.
	Leave ledges,bears N.30°W.and S.30°E.
	Asc.gently.
74.00	Top of ridge,300 ft.above canon,bears N.20°W.and S.20°E.
	Desc.abruptly over ledges and large sandstone boulders.
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.2,3,34,and 35 ,mkd.on brass cap
	T 32 S S 34 in NW.
	R 21 E S 35 in NE.
	R 21 E S 2 in SE.;and
	T 33 S S 3 in SW.quadrants;from which
	A sandstone boulder,16x10x8 ft.above ground, bears N.45°E.,1 lks.dist..mkd.x B C S 35
	A pinon pine,7 ins.dia.,bears S.1°E.,21 lks. dist..mkd.T 33 S R 21 E S 2 B T.
	A pinon pine,6 ins.dia.,bears S.59°W.,61 lks. dist..mkd.T 33 S R 21 E S 3 B T.
	A pinon pine,6 ins.dia.,bears N.58°W.,17 lks. dist..mkd.T 32 S R 21 E S 34 B T.
	Land,very rough and mountainous and ledgy.
	Soil,sandy and rocky;2nd and 4th rate.
	Timber,pinon pine and cedar.
	Undergrowth,sage brush,deer brush,and service berry.

Chains	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	May 23,1911.
	—
	May 24,1911:At 7 h 57 m a.m.,l.m.t.I set off 37°59'N., on the lat.arc;20°39'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.2,3,34,and 35. Thence I run
	West,on a true line bet.secs.3 and 34.
	Over mountainous land;through heavy timber .
	Desc.abruptly over sandstone ledges and large sandstone boulders.
14.30	Bottom of canon,800 ft.below sec.cor.,course N.30°W.
	Asc.abruptly over ledges.
21.80	Top pf ridge,300 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.abruptly over ledges.
38.40	Bottom of hollow,400 ft.below ridge,course N.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 34 in N half and S 3 in S half;from which
	A pinon pine,7 ins.dia.,bears N.9°E.,45 lks. dist,.mkd.¼ S 34 B T.
	A pinon pine,5 ins.dia.,bears S.40°W.,5 lksk dist..mkd.¼ S 3 B T.
53.50	Top of ridge,250 ft.above canon,bears N.20°E.and S.20°W.
	Desc.
55.50	Bottom of hollow,100 ft.below ridge,course NE.
	Asc.
57.70	Top of ridge,100 ft.above hollow,bears NE.and SW.
	Desc.
62.80	Bottom of hollow,40 ft.below ridge,course NE.
	Asc.

~~xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx.~~

Chains

66.30 Top of ridge,60 ft.above hollow,bears W. and SE.

Desc.

67.60 Bottom of hollow,100 ft.below ridge,course NE.

Asc.over ledges.

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

T 32 S S 33 in NW.

R.21 E S 34 in NE.

R 21 E S 3 in SE.;and

T 33 S S 4 in SW.quadrants;from which

A pinon pine,8 ins.in dia.,bears N.18°E.,31 lks.

dist..mkd.T 32 S R 21 E S 34 B T.

A pinon pine,12 ins.in dia.,bears S.50°E.,41 lks.dist..mkd.T 33 S R 21 E S 3 B T.

A pinon pine,4 ins.dia.,bears S.70°W.,50 lks.

dist..mkd.T 33 S R 21 E S 4 B T.

A pinon pine,6 ins.dia.,bears N.52°50'W.,55 lks.

dist..mkd.T 32 S R 21 E S 33 B T.

Land,rough and mountainous.

Soil,sandy loam from 1 to 3 ft.deep,on solid rock.

Timber,cedar and pinon pine.

Good grass for grazing.

Mountainous land,or land covered with dense timber

80.00 chs.

May 24,1911:At this cor.I set off20°41'E.,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 39°59'N.,which is the proper lat.nearly.

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

Over mountainous land;through heavy timber.

Asc.

3.00 Top of ridge,20 ft.above cor., bears N.10°W.and S.10°E.

Desc.abruptly over ledges.

Chains

22.60 Bottom of canon,700 ft.below ridge,course NW.

Asc.abruptly over ledges.

38.70 Top of ridge,600 ft.above canon,bears N.and S.

Desc.abruptly 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 33 in N half.and S 4 in S half;from which

A cedar,6 ins.dia.,bears N.71°E.,10 lks. dist..mkd.¼ S 33 B T.

A pinon pine,5 ins.dia.,bears S.66°E.,22 lks. dist..mkd.¼ S 4 B T.

42.30 Foot of ledges,bears NE and SW.

48.00 Foot of steep descent,bears NE and S.

Desc.gently over rolling mesa.

51.20 Trail,bears N.and S.

77.50 West edge of mesa,rim rock of sandstone 15 ft.high,bears N. 10°W.and SE.

Desc.abruptly over ledges.

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.4,5,32,and 33,mkd.on brass cap

T 32 S S 32 in NW.

R 21 E S 33 in NE.

R 21 E S 4 in SE.;and

T 33 S S 5 in SW.quadrants;from which

A cedar,24 ins.dia.,bears N.15°E.,62 lks. dist..mkd.T 32 S R 21 E S 33 B T.

A pinon pine,8 ins.dia.,bears S.14°30'E.,71 lks. dist..mkd.T 33 S R 21 E S 4 B T.

A cedar,6 ins.dia.,bears S.42°15'W.,41 lks. dist..mkd.T 33 S R 21 E S 5 B T.

A cedar,8 ins.dia.,bears N.34°30'W.,45 lks. dist..mkd.T 32 S R 21 E S 32 B T.

Land,rough mountains and rolling mesa.

Chains	
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	May 24,1911.
	———
	May 25,1911:At 7 h 57 m a.m.,l.m.t.,I set off 37°59'N., on the lat.arc;20°50'N. ,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.4,5,32,and 33.
	Thence I run
	West,on a true line bet.secs.5 and 32.
	Over mountainous land;through heavy timber.
	Desc.over ledges.
1.50	Ledge 10 ft.high,bears N.20°W.and SE.
10.80	Wash,30 lks.wide,6 ft.deep,in bottom of hollow,400 ft.below sec.cor.,course NW.
	Leave ledges,bears NW and SE.
	Asc.
18.20	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
21.00	Leave timber,bears N.and S.
22.40	Water ditch,6 lks.wide,in east edge of Cottonwood canon, course N.
	Enter cultivated land,bears N.and S.belongsto David L. Goudelock.
29.50	Road,bears N.and S.
30.20	Cottonwood creek,20 lks.wide,8 ins.deep,in wash,30 lks. wide,8 ft.deep,course N.
	Asc.
31.00	Enter south edge of orchard ,bears N.30°E.and S.30°W.
31.50	Note:From this point the southwest corner of David L. Goudelock's house bears N.15°E.,about 8.00 chs.dist.
	This is a log house containing three rooms.
	Another log house bears N.3°E.,6.50 chs.dist.

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

Chains	
	The southeast cor.of the corrals and stack yard bears N. 3°W., about 11.00 chs.dist.
31.60	Water ditch,3 lks.wide,course N.
31.63	Wire fence bears N.and S.
	Leave orchard,The orchard extends about 2.00 chs.N.and about 10 lks.S.of this point.
32.05	Road,bears N.and S.
	Leave cottonwood canon,bears N.and S.
	Asc.
36.00	Top of ridge,50 ft.above canon,bears N.and S.
	Desc.
39.50	Foot of ridge,bears NE&and S.80°W.
	Enter Steven's Canon.
39.60	Road,bears NE and S.80°W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.¼ S 32 in N half and S 5 in S half;from which
	A pinon pine,6 ins.dia.,bears N.65°20'E.,301 lks. dist..mkd.¼ S 32 B T.
	A pinon pine,8 ins.dia.,bears S.63°E.,240 lks. dist..mkd.¼ S 5 B T.
48.00	Steven's Creek,8 lks.wide,3 ins.deep, in bottom of Steven's canon,course NE.
	Asc.along N.edge of canon.
62.90	Same creek,in Steven's canon,course S.80°E.
	Asc.
66.10	Same creek,course N.80°E.
78.70	Wash,10 lks.wide,3 ft.deep,course S.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.5,6,31,and 32,mkd.on brass cap
	T 32 S S 31 in NW.
	R 21 E S 32 in NE.
	R 21 E S 5 in SE.;and
	T 33 S S 6 in SW.quadrants;from which
	A pinon pine,6 ins.dia.,bears N.28°E.,265 lks. dist..mkd.T.32 S R 21 E S 32 B T.

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

Chains	
	A sandstone,boulder,10x10x8 ft.above ground, bears N.31°W.,91 lks.dist..mkd.X BO S 31
	No other trees within limits;raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Land,mountainous very rough and canon bottom.
	Soil,in creek bottoms sandy about 10 ft,deep,other places about 1 ft.deep.
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Under rowth,sage brush.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	May 25,1911:At this cor.I set off 20°52'N.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°59'N.,which is the proper lat.nearly.
	West.on a true line bet.secs.6 and 31.
	Over mountainous land;through dense undergrowth and scattering timber.
	Asc.gently along north side of Steven's canon.
6.10	Leave canon bottom,bears N.80°E.and S.80°W.
	Asc.over ledges.
10.00	Top of abrupt ascent,bears N.80°E.and S.80°W.
28.00	Top of ridge,200 ft.above canon,bears N.and S.
	Desc.
37.00	Begin abrupt descent over ledges,bears N.80°W.and S.70° E.
40.00	Set an iron post,3 ft.long,1 in.in dia.,20 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec.cor..mkd.on brass cap ¼ S 31 in N half and S 6 in S.half;from which
	A cedar,8 ins.dia.,bears N.47°E.,35 lks.

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

Chains

dist..mkd. S 31 B T.

A cedar,10 ins.dia.,bears S.1°E.,4 lks.

dist..mkd. S 6 B T.

41.50 Begin ascent over ledges,bears N.80°E.and S.80°W.

50.00 Top of steep ascent,bears N.80°E.and S.80°W.

54.00 Top of ridge,150 ft.above cor.,bears N.and S.

Desc.

74.00 Begin abrupt descent over ledges,bears N.60°E.and S.60° W.

77.40 Trail to Salt Creek,bears NW and SE.

77.70 Bottom of canon,100 ft.below ridge,course S.30°E.

Asc.

78.31 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 Tps.32 and 33 S.,Rs.20 and 21 E.,mkd.on brass cap

T 32 S in N half.

T 33 S in S half.

R 20 E S 36 in NW.

R 21 E S 31 in NE.

R 21 E S 6 in SE.;and

R 20 E S 1 in SW.quadrants;from which

A cedar,10 ins.dia.,bears N.69°E.,131 lks.

dist..mkd.T 32 S R 21 E S 31 B T.

A pinon pine,12 ins.dia.,bears S.79°15'E.,155 lks.

dist..mkd.T 33 S R 21 E S 6 B T.

A pinon pine,8 ins.dia.,bears S.61°W.,17 lks.

dist..mkd.T 33 S R 20 E S 1 B T.

A cedar,8 ins.dia.,bears N.61°W.,54 lks.

dist..mkd.T 32 S R 20 E S 36 B T.

Land,rough and mountainous.

Soil,sandy and rocky;2nd and 4th rate.soil is about 1 ft. deep.subsoil,rock.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Chains	
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,78.31 chs.
	May 25,1911.
	WEST BOUNDARY of T.32 S.,R.21 E.
	May 26,1911: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 determine a meridian with the solar,at the cor.of Tps.32 and 33 S., Rs.20 and 21 E.
	Thence I run
	North,bet.secs.31 and 36.
	Over mountainous land;through heavy cedar and pinon pine timber.
	Asc.over ledges.
1.00	Bottom of canon,course S.30°E.
	Asc.
2.60	Trail to Salt Creek,bears N.30°W.and S.30°E.
16.30	Top of ledge,20 ft.high,bears N.80°W.and S.80°E.
	South edge of mesa.
20.60	North edge of mesa,ledge,20 ft.high,bears N.60°E.and S.60° W.
	Desc.over ledges.
30.00	Foot of ledges,bears N.60°E.and S.60°W.
33.00	Bottom of hollow,200 ft.below mesa,course S.80°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 36 in W half and S 31 in E half;from which
	A pinon pine,10 ins.dia.,bears N.62°E.,54 lks. dist..mkd.¼ S 31 B T.
	A pinon pine,20 ins.dia.,bears N.64°W.,87 lks.

Chains	
	dist..mkd.T 32 S 36 B T.
46.55	Trail to Salt Creek,bears NE and SW.
50.00	Head of hollow,course SW.
	Asc.over ledges.
55.00	Top of ledges,bears E.and W.
	Asc.gently.
58.70	Trail to Salt Creek,bears N.80°W.and S.80°E.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.25,30,31 and 36,mkd.on brass cap
	T32 S 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.quadrants;from which
	A pinon pine,6 ins.dia.,bears N.25°30'E.,65 lks.
	dist.,mkd.T 32 S R 21 E S 30 B T.
	A cedar,16 ins.dia.,bears S.89°E.,52 lks.
	dist..mkd.T 32 S R 21 E S 31 B T.
	A pinon pine,8 ins.dia.,bears S.75°W.,49 lks.
	T 32 S R 20 E S 36 B T.
	A cedar,8 ins.dia.,bears N.53°30'W.,65 lks.
	dist..mkd.T 32 S R 20 E S 25 B T.
	Land,rough and mountainous.
	Soil,sandy loam about 2 ft.deep,on solid ledges of sandstone.
	Timber,cedar and pinon pine.
	Good grass.
	Mountainous or heavily timbered land,80.00 chs.

May 26,1911:At the noon hour the sky was overcast and solar observations were impossible.

May 26,1911.

May 27,1911:At 7h 57 m a.m.,l.m.t.,I set off 38°00'N., on the lat.arc;21°12'W.,on the decl.arc;and determine a

W.bdy.T.32 S.,R.11 W.-Continued.-

Chains	
	meridian with the solar at the cor.of secs.25.30.31,and 36.
	Thence I run
	North,bet.secs.25 and 30.
	Over mountainous land,through heavy timber.
	Asc.over sandstone ledges and boulders.
15.40	Foot of sandstone ledge,200 ft.high,bears N.74°W.and S. 74°E.
	Continue ascent.
32.00	Top of ridge,at west end of Bridger Jack Mesa,800 ft.above sec.cor.,bears E.and W.
	Desc.over smooth ledges.
40.00	Pooint for ¼ sec.cor.falls on sloping sandstone ledges where it would be impossible to perpetuate the cor.; therefore at
54.50	Foot of ledges,800 ft.below ridge.
	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 in N half.W C ¼ S 25 R 20 E in W half.;and R 21 E S 30 in E half.;from which
	A pinon pine,4 ins.dia.,bears S.80°E.,33 lks. dist.,mkd.W C ¼.S 30 B.T.
	A pinon pine,8 ins.dia.,bears N.17°30'W.,47 lks. dist..mkd.W C ¼ S 25 B.T.
64.30	Head of hollow,150 ft.below ridge ,cor.,course NE.
	Asc.
80100	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 brasscap
	T 32 S in N half.
	R 20 E S 24 in NW.
	R 21 E S 19 in NE.
	S 30 in SE.;and
	S 25 in SW.quadrants;from which
	A cedar,8 ins.dia.,bears N.45°30'E.,43 lks. dist..mkd.T 32 S R 21 E S 19 B T.
	A pinon pine,12 ins.dia.,bears S.59°E.,98 lks. dist..mkd.T 32 S R 21 E S 30 B T.

W.bdy.T.32 S.,R.21 E.-Continued.

Chains	
	A pinon pine,8 ins.dia.,bears S.43°W.,39 lks. dist..mkd.T 32 S R 20 E S 25 B T.
	A pinon pine,6 ins.dia.,bears N.59°30'W.,53 lks.dist..mkd.T 32 S R 20 E S 24 B T.
	Land,rough and mountainous..
	Soil,sandy loam from 6 ins.to 2 ft.deep,on solid sandstone
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	May 27,1911:At this cor.I set off 21°13'E.,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.
	North,bet.secs.19 and 24.
	Over mountainous mesa land;through heavy timber.
	Desc.
3.60	Trail,bears E.and W.
17.40	Begin abrupt descent,over ledges,bears N.60°E.and S.60°W.
22.00	Bottom of hollow,100 ft.below cor.,course NE.
	Asc.
24.50	Top of spur,80 ft.above hollow,bears NE and SW.
	Desc.
31.00	Head of canon,400 ft.below mesa,course N.80°E.
	Asc.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 24 in W half and S 19 in E half;from which
	A cedar,8 ins.dia.,bears N.73°30'E.,90 lks. dist..mkd.¼ S 19 B T.
	A cedar,8 ins.dia.,bears S.36°30'W.,79 lks. dist..mkd.¼ S 24 B T.
54.00	Tp of abrupt ascent and edge of mountain mesa,400 ft. above canon,bears N.10°E.and S.10°W.
	Thence over high mesa,descend gently.

Chains

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

T 32 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.quadrants;from which

A pinon pine,8 ins.dia.,bears N.66°30'E.,46 lks. dist..mkd.T 32 S R 21 E S 18 B T.

A cedar,12 ins.dia.,bears S.24°30'E.,71 lks. dist..mkd.T 32 S R 21 E S 19 B T.

A pinon pine,8 ins.dia.,bears S.22°15'W.,29 lks. dist..mkd.T 32 S R 20 E S 24 B T.

A pinon pine,9 ins.dia.,bears N.56°30'W.,52 lks. dist..mkd.T 32 S R 20 E S 13 B T.

Land,mountainous and high mesa land.

Soil,sandy loam about 2 ft.deep on the mesa and about 1 ft.deep on balance of mile.Subsoil,solid sandstone.

Timber,cedar and pinon pine.

Good grass.

Mountainous land,or land heavily timbered ,80.00 chs.

May 27.1911.

May 29,1911:At 7 h 57 m a.m.,l.t.,I set off 38°02'N.,on the lat.arc;21°31'N.;on the decl.arc;and determine a meridian with the solar,at the cor.of secs.13,18,19,and 24.

Thence I run

North,bet.secs.13 and 18.

Over high rolling mesa;through heavy cedar and pinon pine timber.

Desc.

19.00 Leave mesa,bears NW.and SE.

Desc.abruptly over ledges.

W.bdy.T.32 S.,R.21 E.-Continued.

Chains	
20.00	Head of hollow,30 ft.below mesa,course NE.
	Continue descent.
26.00	Top of ridge,500ft.below hollow,bears NE and SW.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 13 in W.half and S 18 in E half;from which
	A cedar,10 ins.dia.,bears S.11°E.,55 lks. dist..mkd.¼ S 18 B T.
	A cedar,10 ins.dia.,bears S.30°W.,15 lks. dist..mkd.¼ S 13 B T.
40.50	Foot of ledges,bears NE and SW.
50.00	Head of hollow,400 ft.below ridge,course E.
	Asc.
51.00	Asc.abruptly over ledges. bears E.and W.
64.00	Top of ridge,350 ft.above hollow,bears N.40°E.and SW.
	From this point a natural bridge of arch about 100 ft. span and 100 ft.high,bears S.57°40'W.,about 70.00 chs. dist.
	Desc.
68.20	Desc.abruptly over ledges,bears NE and SW.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.7,12,13,and 18,.mkd.on brass cap
	T 32 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.quadrants;from which
	A pinon pine,12 ins.dia.,bears N.2°E.64 lks. dist..mkd.T 32 S R 21 E S 7 B T.
	A pinon pine,10 ins.dia.,bears S.14°E.,56 lks. dist..mkd.T 32 S R 21 E S 18 B T.
	A pinon pine,9 ins.dia.,bears S.37°30'W.,104 lks.dist..mkd.T 32 S R 20 E S 13 B T.
	A pinon pine,9 ins.dia.,bears N.4°30'W.,63 lks. dist..mkd.T 32 S R 20 E S 12 B T.

W.bdy.T.32 S.,R.21 E.-Continued.

Chains	
	Land,rough and mountainous and high rolling mesa.
	Soil,red sand about 1 ft.deep,3rd rate.Subsoil,sandstone.
	Timber,cedar and pinon pine.
	Good grass .
	Mountainous or heavily timbered land,80.00 chs.

May 29,1911.

May 31,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°03'E.,on the lat.arc;21°50'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.7,12,13,and 18.

Thence I run

North,bet.secs.7 and 12.

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

	Desc.
4.30	Top of sloping ledge,200 ft.high,bears N.70°E.and S.70°W.
10.00	Foot of abrupt descent,bears N.80°E.and S.80°W.
	In east edge of Canon,course N.
	Thence along east edge of canon.
25.50	South edge of wash,bears NE and SW.
	Enter wash.
28.60	Small spring or seep in the sand 1.00 chs.west of line. poor water.
29.85	Leave wash,bears N.80°W.and S.80°E.
34.00	Leave canon,bears E.and W.
	Asc.over ledges.
38.50	Top of ridge,40 ft.above canon,bears E.and W.
	Desc.
39.50	Leave ledges,and enter canon,bottom,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 12 in W half and S 7 in E half;from which

A pinon pine,10 ins.dia.,bears S.23°45'E.,100 lks dist..mkd.¼ S 7 B T.

A pinon pine,6 ins.dia.,bears S.15°15'W.,149 lks.

N.bdy.T.32 S.,R.21 E.-Continued..

Chs	ins	
		dist..mkd.$\frac{1}{4}$ S12 B T.
60.	00	Enter same wash,bears NE and S.10°W.course of wash N.10°W.
74.	00	Leave wash,bears N.10°W.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 32 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.quadrants;from which
		A cedar,10 ins.dia.,bears N.7°30'E.,395 lks.
		dist..mkd.T 32 S R 21 E S 6 B T.
		A cedar,12 ins.dia.,bears S.31°E.,340 lks.
		dist..mkd.T 32 S R 21 E S 7 B T.
		A pinon pine,12 ins.dia.,bears S.67°15'W.,586 lks.
		dist..mkd.T 32 S R 20 E S 12 B T.
		A cedar,8 ins.dia.,bears N.20°30'W.,357 lks.
		dist..mkd.T 32 S R 20 E S 1 B T.

Land,very rough and mountainous.

Soil,sandy loam from 6 ins.to 6 ft,deep.2nd rate.

This mile from the 10.00 chs.point runs down a canon which is from 5.00 to 10.00 chs.wide with vertical walls on each side from 200 to 300 ft.high,course of canon N.

Timber,cedar and pinon pine.

Undergrowth,sage brush very rank and tall.

Good grass for grazing.

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

May 31,1911:At the cor.I set off 21°51'E.,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°04'N.,which is the proper lat.nearly.

North,bet.secs.1 and 6.

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

W.bdy.T.32 S. R.21 E.-Continued..

Chains	
	Desc.in bottom of canon.
1.60	Wash,50 lks.wide,3 ft.deep,course N.80°E.
6.00	Wash,in branch canon,from NW.60 lks.wide,3 ft.deep,course S.60°E.
6.40	Foot of sloping ledge 150 ft.high,bears N W.and SE. Asc.over very rough ledges. over small gulches and ravines in solid rock too numerous to mention.
40.00	Falls on sloping ledge where a cor.cannot be perpetuated therefore at
41.28	Foot of ledge,40 ft.high,bears E.and W. Set an iron post,3 ft.long,liniin 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 in N half;R 20 E W C ¼ S 1 in W half;and R 21 E S 6 in E half;from which A pinon pine,5 ins.dia.,bears N.71°45'E.,76 lks. dist..mkd.W C ¼ S 6 B T. A pinon pine,5 ins.dia.,bears N.35°W.,31 lks. dist..mkd.W C ¼ S 1 B T.
46.30	Bottom of canon,200 ft.below witness cor.,course E. Asc.abruptly.
51.90	Top of ridge,250 ft.above canon,bears E.and W. Desc.abruptly over ledges.
61.00	Bottom of canon,300 ft.below ridge,course S.80°E. Asc.abruptly over ledges.
80.00	Point 300 ft.above canon. Set an iron post,3 ft.long,3 ins.in dia. 12 ins.in the ground,on solid rock,for cor.of Tps.31 and 32 S.,Rs.20 and 21 E.;mkd.on brass cap T 31 S in N half. T 32 S in S half. R 20 E S 36 in NW. R 21 E S 31 in NE. R 21 E S 6 in SE.;and R 20 E S 1 in SW.quadrants;from which A pinon pine,6 ins.dia.,bears N.67°45'E.,17 lks. dist..mkd.T 31 S R 21 E S 31 B T.

W.bdy.T.32 S.,R.21 E.-Continued.

Chains

A cedar,8 ins.dia.,bears S.24°30'E.,209 lks.
dist..mkd.T 32 S R 21 E S 6 B T.
A cedar,8 ins.dia.,bears S.12 °30'W.,83 lks.
dist..mkd.T 32 S R 20 E S 1 B T.
A cedar,9 ins.dia.,bears N.81°W.,105 lks.
dist..mkd.T 31 S R 20 E S 36 B T.

Land,very rough mountains and ledges.

There is very little soil on the sandstone and where there is any it is only about 6 ins.deep.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Some grass.

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

May 31,1911.

Scott P. Stewart

U.S.Transitman.

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

Survey commenced May 20,1911,and executed with a Young and Sons solar compass S.C.U.No.1,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 latitude and declimation arcs.

The instrument was examined,tested on the meridin,at Salt Lake City,found correct,and was approved by the surveyor general for Utah,on April 24,1911.

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

At the cor.of Tps.32 and 33 S.,Rs.21 and 22 E.,latitude 37°59'04"N.,longitude 109°35'44"W.,I set off 37°59'N.,on the lat.arc;19°55'N.,on the decl.arc;and at 3 h 56 m p.m.

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

Chains

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 20,1911.

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May 28,1911:At 3 h 55.6 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.N.of the cor.

At 7 h 50 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 fall 0.35 ins.east of the meridian determined by the solar.

At 7 h 56 m a.m.,l.m.t.,I set off 57°59'N.,on the lat. arc;20°16'N.,on the decl.arc;and determine a meridian with the solar and mark a point thereof by a cross on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.38 ins.east of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defined positions for meridians respectively about 0'17"west and 0'18"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument aresatisfactory.

The magnetic bearing of the meridian at 8 h 30 m a.m.,l. m.t.,is N.16°05'W.;the angle thus determined gives the mag.decl.16°05'E.

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From the cor.of Tps.32 and 33 S.;Rs.21 and 22 E.,Described elswhere in this book I run

North,bet.secs.31 and 36.

Over mountainous land;through heavy timber

Desc.

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

Chains	
3.60	Bottom of creek,5 lks.wide,3 ins.deep,in bottom of canon, 50 ft.below sec.cor.course N.5°E.
	Continue descent.
12.40	Bottom of same canon and Creek,5 lks.wide,3 ins.deep, course N.15°W.
	Asc.
15.00	Leave heavy timber and enter scattering timber and dense undergrowth,bears NW and SE.
	Asc.along west side of mountain.
26.00	Top of ridge,80 ft.above hollow,bears E.and W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 36 in W half and S 31 in E half;from which
	A pinon pine,8 ins.dia.,bears N.68°30'E.,139 lks dist..mkd.¼ S 31 B T.
	A yellow pine,24 ins.dia.,bears S.66°30'E.,522 lks.dist..mkd.¼ S 36 B T.
57.50	Bottom of canon,140 ft.below ridge,course N.80°W.
	Enter heavy timber,bears NW and SE.
	Asc.
62.00	Top of ridge,50 ft.above canon,bears NW and SE.
	Desc.
70.25	Begin more abrupt descent over ledges,bears NE and SW.
76.00	Ledge 10 ft.high,bears NW and SE.
77.00	Top of ledge,20 ft.high,bears NW and SE.
80.00	Point for cor.of secs.25,30,31,and 36,falls on solid rock in place .
	I mark a cross (x) at the exact point for cor.of secs.25,30 31, and 36. and at
79.70	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for witness cor.to cor.of secs.25,30,31,and 36 mkd.on brass cap
	T 32 S in N half.
	R 21 E S 25 in NW.

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

Chains

R 22 E W C S 30 in NE.

S 31 in SE.;and

S 36 in SW.quadrants;from which

A pine,12 ins.dia.,bears N.61°63'E.,45 lks.

dist..mkd.W C T 32 S R 22 E S 30 B T.

A pine,18 ins.dia.,bears S.18°E.,51 lks.

dist..mkd.W C T 32 S R 22 E S 31 B T.

A pine,12 ins.dia.,bears S.19°15'W.,20 lks.

dist..mkd.W C T 32 S R 21 E S 36 B T.

Pine,12 ins.dia.,bears N.45°W.,10 lks.

dist..mkd.W C T 32 S R 21 E S 25 B T.

Land,rough and mountainous.

Soil,sandy loam from 1 to 3 ft.deep.2nd rate.Subsoil, sandstone in place.

Timber,cedar and pinon pine.

Undergrowth,sage brush and squaw bush.

Good grass for grazing.

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

May.22,1911:At the noon hour the sky was overcast and solar observations were impossible.

May 22,1911.

May 23,1911:At 7 h 56 m a.m.,l.m.t.,I set off 38°00'N., on the lat.arc;20°27'N.,on the decl.arc;and determine a meridian with the solar,at the point for cor.of secs.25, 30,31,and 36,which is 30 lks.North of the witness cor.

Thence I run

North,bet.secs.25 and 30.

Over mountainous land;through heavy timber and scattering undergrowth.

Desc.

.50 Begin abrupt descent over ledges,bears N.10°E. nd S.10°W.

5.00 Enter dense oak brush,bears NE and SW.

East bdy.T.32 S.,R.21 E.-Continued.

Chains	
	Leave timber,bears NE and SW.
15.00	Bottom of canon,250 ft.below cor.,course N.10°W.
	Leave undergrowth and enter heavy timber,bears N.10°W. and S.10°E.
	Asc.
22.30	Top of ridge,30 ft.above canon,bears E.and W.
	Desc.
27.40	Bottom of canon,100 ft.below ridge,course N.20°E.
	Asc.
32.20	Top of ridge,20 ft.above canon,bears NE and SW.
	Desc.gently.
37.40	Begin abrupt descent,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 c¼ sec.cor..mkd.on brass cap ¼ S 25 in W half and S 30 in E half;from which
	A pinon pine,10 ins.dia.,bears E.,18 lks. dist..mkd.¼ S 30 B T.
	A pinon pine,10 ins.dia.,bears N.32°50'W.,13 lks.dist..mkd.½ S 25 B T.
40.50	Bottom of ravine,100 ft.below ridge,course N.70°E.
	Asc.
50.00	Top of ridge,100 ft.above ravine,bears N.80°E.and S.70°W.
	Desc.
55.00	Begin more rapid descent,bears E.and W.
69.00	Leave timber,bears E.and W.
	Enter dense sage brush,bears E.and 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 32 S in N half.
	R 21 E S 24 in NW.
	R 22 E S 19 in NE.
	S 30 in SE ;and
	S 25 in SW quadrants;from which
	A pinon pine,12 ins.dia.,bears N.68°E.,415 lks. dist..mkd.T 32 S R 22 E S 19 B T.
	A pinon pine,12 ins.dia.,bears S.42°49'E.,333 lks dist..mkd.T 32 S R 22 E S 30 B T.

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

Chains

A pinon pine,1 2 ins.dia.,bears S.44°50'W.,102 lks. dist..mkd.T 32 S R 21 E S 25 B T.

A pinon pine,12 ins.dia.,bears N.18°W.,228 lks. dist..mkd.T 32 S R 21 E S 24 B T.

Land,mountainous and rough.

Soil,reddish gravelly loam and rocky;3rd and 4th rate.

Subsoil,hard gravel and rock.

Timber,cedar and pinon pine.

Undergrowth,oak and sage brush.

Good grass for grazing.

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

May 23,1911.

May 24,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°01'N., on the lat.arc;20°39'N.,on the decl.arc;and determine a meridian with the solar at the cor.of secs.19,24,25,and 30.

Thence I run

North,bet.secs.19 and 24.

Over rolling mountainous mesa land;through dense undergrowth.

Desc.gradually.

5.00 Enter heavy timber,bears E.and W.

22.80 Wash,30 lks.wide,6 ft.deep,course N.60°W.

26.40 Wash,30 lks.wide,6 ft.deep,course W.

30.70 Wash,30 lks.wide,3 ft.deep,course NW.

40.00 Set an iron post,3 ft.long,1 inlin dia.,26 ins.in the ground,for ¼ sec.cor..mkd.¼ S 24 in W half and S 19 in E half.;from which

A pinon pine,8 ins.dia.,bears S.47°40'E.,48 lks. dist..mkd.¼ S 19 B T.

T 32 S R 21 E Continued.

Chains A pinon pine,16 ins.dia.,bears S.36°53 'W.,[illegible]
dist.mkd. S 24 B T.

42.00 Wash,30 lks.wide;20 ft.deep;in head of hollow,course NE
Asc.gently.

55.00 Top of ridge,75 ft.above hollow,bears NE and SW.
Desc.

72.50 Wash,10 lks.wide,5 ft.deep,course E.
Head of hollow,30 ft.below ridge,course E.
Asc.

80.00 Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.13 18 19,and 24,mkd.on brass cap
T 32 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 quadrants;from which
A pinon pine,12 ins.dia.,bears N.58°21'E.,89 lks.
dist.,mkd.T 32 S R 22 E S 18 B T.
A pinon pine,18 ins.dia.,bears S.80°59'E.,34 lks.
dist.,mkd.T 32 S R 22 E S 19 B T.
A pinon pine,12 ins.dia.,bears S.34°40'W.,50 lks.
dist.,mkd.T 32 S R 21 E S 24 B T.
A pinon pine,10 ins.dia.,bears N.47°12 'W.,33 lks.dist.,mkd.T 32 S R 21 E S 13 B T.
Land,rolling mountains. general drainage NE.
Soil,red sand and gravelly about 12 ins.deep,on sandstone, formation,3rd rate.
Timber,cedar and pinon pine.
Undergrowth,sage brush.
Good grass for grazing.
Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
May 24,1911:At this cor.I set off 20°41'E.,on the decl.&c and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 36°03'N.,which is the proper lat.nearly.

Chains

North,bet.secs.13 and 18.

Over mountainous land;through heavy timber.

Asc.

5.00 Top of ridge,50 ft.above cor.,bears NE and SW.

Desc.

8.00 Begin more abrupt descent,bears NE and SW.

35.00 Wash,75 lks.wide,10 ftldeep,course NE.

40.00 Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap + S 13 in W half; and S 18 in E half;from which

A pinon pine,8 ins.dia.,bears N.67°28'E.,21 lks. dist..mkd.+ S 18 B T.

A pinon pine,8 ins.dia.,bears N.69°10'W.,39 lks. dist..mkd.+ S 13 B T.

42.10 Wash,30 lks.wide,4 ft.deep,course NE.

51.50 Headd of canon,100 ft.below ridge,course NE.

Asc.over ledges.

59.00 Top of ridge,75 ft.above hollow,bears E.and W.

Desc.

65.00 Head of canon,75 ft.below ridge,course E.

Asc.

79.00 Top of ridge,100 ft.above canon,bears E.and W.

Desc.

80.0 The point for cor.of secs.7,12,13,and 18,falls on solid rock. therefore I mark a cross(x)at the exact point for cor.of secs.7,12,13,and 18.and at

80.38 The nearest safe place for the cor.I

Set an iron post,3 ft.long,3 ins.in dia.,20 ins.in the ground,on solid rock,and surrounded by mound of stone, for witness cor.to cor.of secs.7,12,13,and 18,mkd.on brass cap

T 32 S in N half.

R 21 E S 12 in NW.

C R 22 E S 7 in NE.

S 18 in SE.;and

N.bdy.T.32 S.,R.21 E.-Continued.

Chains

S 15 in SW quadrants;from which

A pinon pine,6 ins.dia.,bears W.17°55'E.,42 lks.

dist..mkd.T 32 S R 22 E S 7 B T.

A pinon pine,10 ins dia.,bears S.31°57'E.,36 lks.

dist..mkd.T 32 S R 22 E S 18 B T.

A pinon pine,8 ins.dia.,bears S.61°05'W.,79 lks.

dist..mkd.T 32 S R 21 E S 13 B T.

A pinon pine,8 ins.dia.,bears N.34°20'W.,40 lks.

dist..mkd.T 32 S R 21 E S 12 B T.

Land,mountainous .

Soil,red sandy and gravelly loam 12 ins.deep,on solid sandstone formation.

Timber,cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

May 24,1911.

May 25,1911:At 7 h 57 m a.m.,l.m.t.,I set off 38°04'N., on the lat.arc;20°50'E.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.7,12,13,and 18.

Thence I run

North bet.secs.7 and12, starting from true cor. point.

Over mountainous land;through h avy timber,& undergrowth.

Desc.

10.00 Head of hollow,50 ft.below sec.cor.,course NE.

Asc.

25.00 Top of ridge,100 ft.above hollow,bears NW.and S.E.

Desc.

40.00 Set an iron post,3 ft.ling,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 S12 in W half and S 7 in E half;from which

A pinon pine,6 ins.dia.,bears N.75°08'E.,10 lks.

Chains	
	dist..mkd. 1/4 S 7 B T.
	A pinon pine,6 ins.dia.,bears N.15°07'W.,38 lks.
	dist..mkd. 1/4 S 12 B T.
42.00	Begin abrupt descentover ledges,bears NE and SW.
50.00	Head of canon,100 ft.below ridge,course N.10°E.
	Asc.
80.00	Point for sec.cor.falls in solid rock,therefore I mark a cross (x)at the exact point for cor.and at
80.39	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 witness cor.of cor.of secs.1,6,7,and 12,mkd.on brass cap
	T 32 S in N half.
	R 21 E S 1 in NW.
	W C R 22 E S 6 in NE.
	S 7 in SE.;and
	S 12 in SW quadrants;from which
	A pinon pine,8 ins.dia.,bears N.83°52'E.,97 lks.
	dist..mkd.T 32 S R 22 E S 6 W C B T.
	A pinon pine,8 ins.dia.,bears S.35°21'E.,125 lks.
	dist..mkd.W C T 32 S R 22 E S 7 B T.
	A pinon pine,6 ins.dia.,bears S.51°10'W.,31 lks.
	dist..mkd.W C T 32 S R 21 E S 12 B T.
	A cedar,8 ins.dia.,bears N.46°W.,7 lks.
	dist..mkd.W C T 32 S R 21 E S 1 B T.
	Land,rough mountains.
	Soil,gravelly loam from 3 to 12 ins.deep,on solid rock.
	3rd rate.
	Timber,cedar and pinon pine
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	May 25,1911:At the cor.I set off 20°52'N.,on the decl. arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°03'N.,which is the proper lat.nearly.

B.Mdn.T.32 S.,R.21 E.-Continued.

Chains

North,bet.secs.1 and 6,from point for cor.of secs.1,6,7,and 12.

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

Asc.

5.00 Top of ridge,50 ft.above cor.bears E.and W.

Desc.

23.40 Ledge,200 ft.high,bears NW and SE.

Desc.abruptly.

30.00 Bottom of canon,250 ft.below ridge,course N.15°W.

Asc.abruptly over ledges.

40.00 Point for ¼ sec.cor.falls on large boulder where cor. cannot be set;therefore at

40.38 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 in N half;W C R 21 E S in W.half;and R 22 E S 6 in E half.

From which

A pinon pine,10 ins.dia.,bears E.,37 lks. dist..mkd.W C ¼ S 6 B T.

A cedar,12 ins.dia.,bears N.76°19'W.,106 lks. dist..mkd.W C ¼ S 1 B T.

Note:From here north along line it is impossible to chain on account of a series of perpendicular ledges; therefore I offset West 5.00 chs.thence

North 39.62 chs.along east side of canon at west foot of ledges. Descending . to

80.00 On account of almost vertical ledges it is impossible to get nearer to the point for cor.of Tp.therefore at this point I

Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for witness cor.to cor.of Tps.31 and 32 S.,Rs.21 and 22 E.,mkd.on brass cap

T 31 S in N.half

T 32 S in S half;

R.21 E S 36 in NW.

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

Chains

W C R 22 E S 31 in NE.

R 22 E S 6 in SE.; and

R 21 E S 1 in SW.quadrants; from which

A cedar, 10 ins. dia.,bears N.10°12'E., 142 lks. dist., mkd. T. 31 S R 22 E S 31 W C B T

A pinon pine,8 ins.dia.,bears S.80°E.,124 lks. dist., mkd. T. 32 S R 22 E S 6 W C B T

A pinon pine,12 ins.dia.,bears S.24°05'W.,102 lks. dist., mkd. W C T 32 S R 21 E S 1 B T

A pinon pine,12 ins.dia.,bears N.59°52'W., 59 lks. dist., mkd. W C T 31 S R 21 E S 36 B T

Land, mountainous very rough and ledgy.

Timber, cedar and pinon pine.

Undergrowth, sagebrush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

Note: In order to establish a witness cor. on the range line on which to initiate or close the surveys from the east I run from this witness cor.on offsets as follows:

North 17.20 chs. thence

East 5.00 chs. to a point on Range line bet. secs. 31 and 36, at foot of ledges. It is impossible to get nearer the Tp. cor.on the range line than this point therefore I

Set an iron post, 3 ft. long, 3 ins. in dia.,24 ins. in the ground, for witness cor. to cor. of Tps.31 and 32 S., Rs. 21 and 22 E., mkd. on brass cap

T 31 S in N. half.

T 32 S in S half.

R 21 E S 36 in NW.

W C R 22 E S 31 in NE.

R 22 E S 6 in SE.; and

R 21 E S 1 in SW.quadrants;from which

A pinon pine 8 ins.dia.,bears N.48°39'E., 29 lks. dist., mkd. W C T 31 S R 22 E S 31 B T

A sandstone boulder,20x12x8 ft. above ground

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

Chains

bears S.51°45'E., 16 lks.dist., Mkd.WC
X S 31 B O

A cedar,5 ins.dia.,bears S.58°W., 74 lks.
mkd. W C T 31 S R 21 E S 36 B T

A pinon pine,6 ins.dia.,bears N.79°30'W., 75
lks. dist., mkd.W C T 31 S R 21 E S 36 B T

May 25, 1911.

Eric H. Anderson
U.S.Transitman.

North Bdy. T.32 S., R. 21 E.

June 1, 1911: At 7h 57m a.m.l.m.t., I set off 38°04'N. on the lat. arc; 21°57'N. on the decl. arc; and determine a meridian with the solar at the witness cor. to cor. of Tps. 31 and 32 S., Rs. 21 and 22 E., which is 5.00 chs. West of the cor. point, setting temp. ¼ sec. and sec. cor., at intervals of 40.00 chs.counting from the cor. point., and at 477.71 chs. intersect W. bdy. of Tp. 28 lks. N. of the cor. of Tps. 31 and 32 S., Rs. 20 and 21 E., heretofore described.

The falling answers to a correction of 2 minutes to the north per mile counting from the cor. of Tps.31 and 32 S., R. 20 and 21 E.

June 1, 1911.

June 2, 1911: At 7 h 58 m a.m.,l.m.t., I set off 38°04' N. on the lat. arc; 22°06'N. on the decl. arc.; and determine a meridian with the solar at the cor. of Tps. 31 and 32 S., Rs. 20 and 21 E.

Thence I run

N.89°58'E. on a true line bet. secs. 6 and 31.

Over mountainous land; through scattering timber and

Chains	
	sage brush.
	Asc. over ledges.
2.80	Top of ridge;80 ft.above Tp.°°°, bears N.20°W.and S.20°E.
	Desc.over ledges.
18.00	Bottom of head of cañon,500 ft.below ridge,course S.60°E.
	Asc.over ledges.
35.00	Top of ridge,150 ft.above canon,bears N.20°W.and S.20°E.
	Desc.
37.71	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 31 in N half and S 6 in S half;from which
	A pinon pine,18 ins.dia.,bears N.7°30'W.,130 lks. dist.,mkd.¼ S 31 B T.
	A pinon pine,8 ins.dia.,bears S.51°E.,125 lks. dist.,mkd.¼ S 6 B T.
53.90	Sandstone ledge,60 ft.high,on west side of Lavender canon, bears NE and SW.
	Enter cañon bottom.
55.50	Wash,40 lks.wide,3 ft.deep,course NE.
	Asc.
63.75	Trail,bears NE and SW.
67.50	Wash,40 lks.wide,3 ft.deep,course N.40°E.
70.90	Enter same wash,course S.80°E.
73.30	Leave wash,at edge of ledge,10 ft.high,bears N.50°E.and S.80°W.; course of wash,N.20°E.
	Asc.over ledges.
77.40	Trail,bears N.and S.
77.71	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.5,6,31,and 32,mkd.on brass cap
	T 31 S S 31 in NW.
	R 21 E S 32 in NE.
	R 21 E S 5 in SE.;and
	T 32 S S 6 in SW.quadrants;from which
	A pinon pine,6 ins.dia.,bears N17°45'E.,25 lks. dist.,mkd.T 31 S R 21 E S 32 B T.
	A pinon pine,12 ins.dia.,bears S.22°E.,81 lks. dist.,mkd.T 32 S R 21 E S 5 B T.

N.bdy.T.32 S.,R.21 E.-Continued.

Chains

A pinon pine,12 ins.dia.,bears S.13°W.,62 lks.
dist..mkd.T 32 S R 21 E S 6 B T.

A cedar,9 ins.dia.,bears N.51°40'W.,99 lks.,
dist..mkd.T 31 S R 21 E S 31 B T.

Land,rough and mountainous.

Soil,red sandy and gravelly loam;very shallow except in Lavender canon.Subsoil solid rocky.

Timber,cedar and pinon pine.

Undergrowth,sage brush,and shadscales.

Good grass in patches.

Mountainous land,77.71 chs.

June 2,1911:At this cor.I set off 22°08'E.,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.

N.89°58'E.,on a true line bet.secs.5 and 32.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.abruptly over ledges.

14.00 Top of abrupt ascent and west edge of mountain mesa,300 ft. above sec.cor.,bears N.and S.

Desc.gently.

38.00 East edge of same mesa,bears N.20°W.and S.20°E.

Desc.over ledges and boulders.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.¼ S 32 in N half and S 5 in S half;from which,

A pinon pine,7 ins.dia.,bears N.11°30'E.,27 lks.
dist..mkd.¼ S 32 B T.

A cedar,8 ins.dia.,bears S.7°W.,34 lks.
dist..mkd.¼ S 5 B T.

48.70 Foot of ledges and boulders,bears NE.and SE.

53.00 Wash,30 lks.wide,10 ft.deep,in bottom of hollow,250 ft. below mesa,course N.30°W.

Asc.

N.bdy.T.32 S.,R.21 E.-Continued.

Chains	
57.00	Begin.abrunt ascent.over ledges and boulders,bears N.and S.
64.70	Top of abrupt ascent and west edge of rolling mesa,bears N.and S. Leave heavy and enter scattering timber,bears N.&S. Leave ledges,and boulders,bears N.and S. Asc.gradually.
78.60	Head of hollow,course NW. Asc.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.4,5,32,and 33,mkd.on brass cap T.31 S S 32 in NW. R 21 E S 33 in NE. R 21 E S 4 in SE.;and T 32 S S 5 in SW.quadrants;from which A cedar,14 ins.dia.,bears N.25°15'E.,70 lks. dist..mkd.T 31 S R 21 E S 33 B T. A pinon pine,4 ins.dia.,bears S.45°45'E.,270 lks. dist..mkd.T 32 S R 21 E S 4 B T. A cedar,10 ins.dia.,bears S.10°45'W.,337 lks. dist.,mkd.T 32 S R 21 E S 5 B T. Non other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor. Land,mountainous and rolling mesa. Soil,red sandy loam about 6 ins.deep,underlaid with solid rock. Timber,cedar and pinon pine,. Undergrowth,sage brush and shadscales. 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°04'N., on the lat.arc;22°15'N.,on the decl.arc;and determine a moridian with the solar,at the cor.of secs.4,5,32,and 33.

N.bdy.T.32 S.,R.21 E.-Continued.

Chains	
	Thence I run
	N.89°58'E.,on a true line bet.secs.4 and 33.
	Over mountainous land;through scattering timber and scattering undergrowth.
	Asc.
1.35	Top of ridge,16 ft.above sec.cor.,bears N.and S.
	Desc.
14.50	Trail,bear N.and S.
15.80	West edge of box canon,bears N and S.
	Desc.abruptly over ledges.
22.00	Bottom of box canon,250 ft.below edge,course N.
	Asc.abruptly over ledges.
40.00	Falls on ledges where it is impossible to perpetuate the cor.therefore at
42.16	Top of series of ledges 1000 ft.above canon,bears N.and S. 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 31 S R 21 E W C ¼ S 33 in N half;and T 32 S R 21 E S 4 in S half;from which
	A pinon pine,4 ins.dia.,bars N.4°W.,28 lks. dist..mkd.W C ¼ S 33 B T.
	A cedar,6 ins.dia.,bears S.3°30'E.,29 lks. dist..mkd.W C ¼ S 4 B T.
	Asc.gently over Bridger Jack mesa.
55.00	Top of ridge,100 ft.above ledge,bears N.70°E.and S.70°W.
	Desc.gently.
68.00	Begin more abrupt descent,bears N.and S. Enter ledges.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,18 ins.in the ground,on solid rock,and surrounded by mound of stone, for cor.of secs.3,4,33,and 34,mkd.on brass cap
	T 31 S S 3 3 in NW.
	R 21 E S 34 in NE.
	R 21 E S 3 in SE.;and
	T 32 S S 4 in SW.quadrants;from which
	A pinon pine,8 ins.dia.,bears N.67°20'E.,101 lks. dist..mkd.T 31 S R 21 E S 34 B T.
	A cedar,6 ins.dia.,bears S.24°E.,32 lks.

N.bdy.T.32 S.,R.21 E.-Continued.

Chains	
	dist..mkd. T 32 S R 21 E S 3 B T.
	A pinon pine,10 ins.dia.,bears S.75°30'W.,58 lks.
	dist..mkd.T 32 S R 21 E S 4 B T.
	A cedar,12 ins.dia.,bears N.45°W.,28 lks.
	dist..mkd.T 31 S R 21 E S 33 B T.
	Land,mountainous and rolling high mesa.
	Soil,red sandy loam from 6 ins.to 2 ft.deep,subsoil,rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,80.00 chs.
	June 3,1911:At this cor.I set off 22°16'E.,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.
	N.89°58'E.,on a true line bet.secs.3 and 34.
	Over mountainous land;through heavy timber and scattering
	undergrowth.
	Desc.
6.00	Begin more abrupt descent over ledges,bears N.and S.
27.00	Foot of ledges,bears N.and S.
32.40	Bottom of hollow,250 ft.below sec.cor.,course S.
	Asc.
37.00	Begin abrupt ascent over ledges,bears NW and SE.
40.00	Set and iron post,3 ft.long,1 in.in dia.,26 ins.in the
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S 34 in N half
	and S 3 in S half;from which
	A pinon pine,6 ins.dia.,bears N.45°W.,50 lks.
	dist..mkd.¼ S 34 B T.
	A pinon pine,8 ins.dia.,bears S.12°25'E.,33 lks.
	dist..mkd.¼ S 3 B T.
42.00	Top of abrupt ascent,bears NW and SE.
	Asc.gently.

N.bdy.T.32 S.,R.21 E.-Continued.

Chains	
49.00	East edge of Bridger Jack Mesa,top of almost vertical ledge 400 ft.high,bears N.20°E.and S.20°W. Leave timber.
70.00	Foot of abrupt descent,700 ft.below mesa,bears N.and S. Leave ledges and enter bottom of Cottonwood canon. Desc.gently in canon bottom. Enter dense undergrowth.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground for cor.of secs.2,3,34,and 35,mkd.on brass cap T 31 S S 34 in NW. R 21 E S 35 in NE. R 21 E S 2 in SE.;and T 32 S S 3 in SW.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous.
	Soil,sandy and gravelly loam from 2 ft.to 3 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

June 3,1911.

June 5,1911:At 17 h 58 m a.m.,l.m.t.,I set off 33°04'N., on the lat.arc;22°29'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.2,3,34,and 35.

Thence I run

N.89°58'E.,on a true line bet.secs.2 and 35.

Over mountainous land;through dense undergrowth.

Desc.gently.

13.90	West bank of wash,10 ft.high,bears N.20°E.and S.20°W.
15.60	Cottonwood Creek, 20 lks.wide,3 ins.deep,in wash,course N.30°W. Asc.gently.
15.80	East bank of wash.
15.80	Wash,20 lks.wide,10 ft.deep,course N.20°E.
21.00	Wash,20 lks;wide,4 ft.deep,course N.
24.30	Wash,10 lks.wide,4 ft.deep,course N.

Chains	
30.00	Wash,30 lks.wide,6 ft.deep,course N.20°W.
35.90	Wash,20 lks.wide,5 ft.deep,course N.
35.15	Road,bears N.and S.
36.90	Road,bears N.10°E.and S.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 35 in N half and S 2 in S half;from which A cedar,6 ins.diao.bears N.81°15'E.,170 lks. dist..mkd.¼ S 35 B T. A cedar,12 ins.dia.,bears S.3°49'E.,194 lks. dist..mkd.¼ S 2 B T. Leave cottonwood canon and begin abrupt ascent over ledges, bears N.and S. Enter scattering timber,bears N.and S.
72.00	Top of abrupt ascent and ledge,290 ft.high,bears N and S. Asc,more gradually.
80.00	Point 100 ft.above ledge. 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.1,2,35,and 36,mkd.on brass cap T 31 S S 36 in NW. R 21 E S 36 in NE. R 21 E S 1 in SE.;and T 32 S S 2 in SW.quadrants;from which A pinon pine,4 ins.dia.,bears N.39°E.,21 lks. dist..mkd.T 31 S R 21 E S 36 B T. A pinon pine,10 ins.dia.,bears S.39°02'E.,45 lks. dist..mkd.T 32 S R 21 E S 1 B T. A pinon pine,6 ins.dia.,bears S.52°30'W.,5 lks. dist..mkd.T 32 S R 21 E S 2 B T. A pinon pine,6 ins.dia.,bears N.80°50'W.,62 lks. dist..mkd.T 31 S R 21 E S 35 B T. Land,mountains and rolling. Soil,sandy loam and gravelly;from 12 ins.to 8 ft.deep. Timber,cedar and pinon pine. Undergrowth,greasewood,sage brush,and shadscales.

N.bdy.T.32 S.,R.21 E.-Continued.

Chains	
	Good gras for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	June 5,1911:At this cor.I set off 22°30'E.,on the decl.
	arc;and at 11 h 58 m a.m.,l.m.t.,I observ ethe sun on the
	meridian the resulting lat.is 38:04'N.which is the
	proper lat.nearly.
	—
	N.89°58'E.,on a true line bet.secs.1 and 36.
	Over mountainous land;through heavy timber.
	Asc.abruptly.
5.00	Top of smooth ledge and edge of flat ridge,50 ft.above sec.
	cor.bears N.20°E.and S.80°W.
17.20	East edge of flat ridge or mesa,bears N.60°W.and S.60°E.
	Desc.
30.00	Bottom of hollow,300 ft.below mesa,course N.20°E.
	Asc.abruptly
35.00	Top of abrupt ascent,50 ft.above hollow,bears N.20°W.and
	S.20°E.
	Asc.gently.
40.00	Point 75 ft.above canon.
	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 36 in N half and
	S 1 in S half;from which
	A pinon pine,4 ins.dia.,bears N.59°30'W.,22 lks.
	dist..mkd.¼ S 36 B T.
	A pinon pine,6 ins.dia.,bears S.14°10'E.,7 lks.
	dist..mkd.¼ S 1 B T.
43.	Desc.abruptly.
46.00	Foot of abrupt descent ,bears N.20°W.and S.20°E.
	Desc.gently.
56.70	West edge of canon,ledge,150 ft.high,bears N.30°E.and S.
	30°W.

W.bdy.T.32 S.,R.21 E.-Continued.

Chains	
	Desc.abruptly over ledges.
71.00	Bottom of canon,500 ft.below edge,course E.
	Asc.
75.00	The witness cor.of Tps.31 and 32 S.,Rs.21 and 22 E.,at base of cliffs.impossible to chain farther.
80.00	Point for cor.of Tps.31 and 32 S.,R.21 and 22 E.,
	Land,mountainous .
	Soil,sandy loam and gravelly;2nd rate.about 1 ft.deep.
	Subsoil,sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush .
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.

June 5,1911.

Scott P. Steward

U.S.Transitman.

Boundaries of T.32 S.,R.21 E.

Latitudes departures and closing errors.

Line designated	Course	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
W.bdy.T.32 S.,R.21 E.	North	480.00	480.00			
N.bdy.T.32 S.,R.21 E.	N.89°58'E.	477.71	.28		477.71	
E.bdy.T.32 S.,R.21 E.	South	480.00		480.00		
S.bdy.T.32 S.,R.21 E.	West,	478.31.				478.31.
Convergency					.57	
Totals			480.28	480.00	478.28	478.31
			480.00			478.28
Error in lat.			.28			
Error in dep.						.03

General description.

For general description see notes of subdivision of T.32 S.,R.21 E.

Scott P. Steward

U.S. Transitmen.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by 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 South, West, East, and North Bdrs. of T. 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 South, West, East, and North Bdrs. of T. 32 S., R. 21 E.

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.

Edwin Garn, Period of service May 15, 1911 to June 4, 1911, Chainman.
Clifford A. Jennings, Period of service May 15, 1911 to June 14, 1911, Chainman.
....., Moundman.
....., Moundman.
Winslow Read, Period of service May 17, 1911 to May 31, 1911, Axman.
Lynn C. Rogerson, Period of service June 7, 1911 to June 13, 1911, Axman.
....., Flagman.

Subscribed and sworn to before me this 31 day of May and ~~day of~~ 4, 9, 13, 26 days of June, 1911.

SEAL

Scott P. Stewart
U. S. Transitman.

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 oath of Transitman see book "M" T.32 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.

The foregoing field notes of the survey of South, West, East, and North Boundaries of Township No.32 S., 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, 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 is _____ has been correctly copied from the original notes on file in this office.

_____
United States Surveyor General.

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BOOK A-387

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FIELD NOTES

OF THE SURVEY ~~OF THE~~

AND

RESURVEY OF THE EAST BOUNDARY

SURVEY OF THE NORTH BOUNDARY

AND

RESURVEY OF THE SOUTH BOUNDARY

O F

TOWNSHIP NO. 38 SOUTH,

RANGE NO. 22 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, *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 June 19, *1911*

Survey completed June 29, *1911.*

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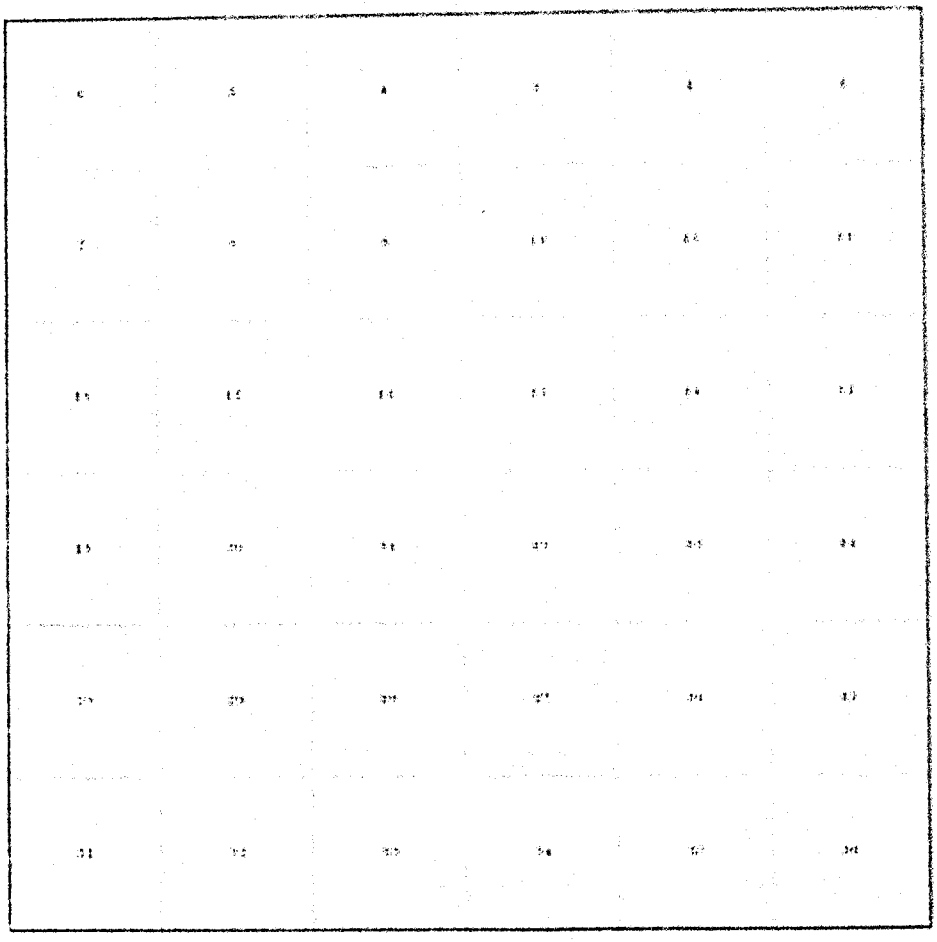
INDEX DIAGRAM.

Township . *Range*



Survey commenced June 19,1911, and executed with a Young and Sons Solar Compass No.1 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 adjustment 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 true meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps.32 and 33 S., Rs.22 and 23 E., which is a sandstone 8x8x8 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General; latitude 37° 59' 04"N., longitude 109° 29' 10"W., I set off 37° 59'N. on the lat.arc; 23° 27' N. on the decl.arc; and at 4h 01m p.m., l.m.t., determine with the solar a meridian and mark a point thereof on a stake driven in ground about 5 chs. N. of the cor.

June 19, 1911

June 20: At 1h 42m 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 a mark on the peg set June 19, on which the meridian falls 0.3 ins.east of the mark determined by the solar.

At 8h 01m a.m., l.m.t., I set off 37° 59' on the lat.arc;

East Boundary of Tp.32 S., R. 22 E.

Chains

23° 27'N. on the decl.arc; and mark a point in the meridian determined with the solar by a cross on the peg already set 5 chs. N. of station, and this mark falls 0.5 ins.east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0' 15" west and 0' 26" east 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 0m a.m. is N.16° 10'W., the angle thus determined gives the mag.decl. 16° 10'E.

From above described cor.of Tps.32 and 33 S., Rs.22 and 23 E., I run

N. on a retracement line bet.secs.31 and 36

I fail to find any trace of old ¼ sec.cor.or sec.cor.

I, therefore, run

North on retracement line to the ¼ sec.cor. between secs. 13 and 18. I fail to find any trace of the sec.corns. and ¼ sec.cors., I, therefore, set temp.sec. and ¼ sec. cors. at intervals of 40.00 and 80.00 chs. I continue north on a random line, setting temp.sec. and ¼ sec. cors. also at intervals of 40 and 80.00 chs. At 5 miles 120.62 chs. intersect S.bdy. of T.31 S.,R.23 E. 6.40 chs. E. of cor. of Tps.31 and 32 S., Rs.22 and 23 E.,which is a sandstone 12x12x4 ins.above ground,marked and witnessed as described by Surveyor General.

June 20, 1911

Eric H. Anderson

U. S. Transitman

Chains	
	June 21: At 8h01m a.m., l.m.t., I set off 38° 05' on the lat.arc, 23° 28' N. on the decl.arc, and determine a meridian with the solar at the cor. of Tps.31 and 32 S., Rs.22 and 23 E.
	Since the falling on this cor. is out of limits I abandon random line and run
	South on true line bet.secs.1 and 6
	Over rolling land, through cedar and pinon pine and sagebrush.
	Descend gently.
3.00.	Bottom of hollow,25 ft.below Tp. cor., course NE.
	Ascend gently.
15.00	Top of ridge, 50 ft.above hollow, bears E. and W.
	Descend gently.
25.00	Bottom of hollow,25 ft.below ridge,course E.
	Ascend gently.
40.00	Top of ridge, 75 ft.above hollow,bears E. and W.
	Descend gently.
42.00	Leave scattering timber; enter more dense sagebrush, bears E. and W.
66.00	Enter scattering timber, bears E. and W.
76.00	Bottom of hollow, 120 ft.below ridge,course SE.
	Ascend.
79.00	Top of small ascent, 15 ft.above hollow, bears NW. and SE. Descend gently.
80.62	Set an iron post, 3 ft.long, 1 in.in dia.,26 ins.in the ground for $\frac{1}{4}$ sec.cor.,bet.secs.1 and 6, marked on brass cap $\frac{1}{4}$ S 1 on W and S 6 on E half; from which
	A pinon pine, 16 ins.diam.,bears S.20°30'E.,4.55 chs.dist., marked $\frac{1}{4}$ S 6 B T
	A pinon pine,8 ins.diam.,bears S.15°56'W.,6.44 chs.dist.,marked $\frac{1}{4}$ S 1 B T
84.00	Bottom of hollow, 20 ft.below $\frac{1}{4}$ sec.cor.,course SE.
	Ascend.
102.52	Top of ridge,40 ft.above hollow,bears E.and W.
	Descend.

Chains	
118.30	Bottom of hollow, 100 ft.below ridge, course SE.
	Ascend.
118.80	Top of ridge, 50 ft.above hollow,bears E. and W.
	Enter scattering timber, bears E. and W.
	Descend gently.
120.62	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, marked on brass cap
	T 32 S in N half
	R 22 E S 1 in NW
	R 23 E S 6 in NE
	S 7 in SE
	S 12 in SW. quadrant; from which
	A pinon pine,14 ins.diam.,bears S.22°24'W.,
	3.40 chs.dist., marked T 32 S R 22 E S 12 B T
	No other bearing trees within limits; raise a mound of stone, $2\frac{1}{2}$ ft.base,$1\frac{1}{2}$ ft.high, W. of cor.
	Rolling mesa land, SE. slope.
	Soil, sandy loam of medium texture and quality, 6 to 24 ins.deep, dry, on rock subsoil.
	Timber, cedar and pinon pine and scattering sagebrush.

South on **true line** bet.secs.7 and 12

	Over rolling mountainous land, through scattering timber and sagebrush.
	Descend gently.
18.90	Bottom of hollow,50 ft.below sec.cor.,course SE.
	Ascend gently.
23.50	Top of small ridge, 20 ft. above hollow,bears NE.and SW. Descend gently.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 12 ins.in the ground and raise mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 12 on W and S 7 on E half; from which

Chains	
	A pinon pine, 14 ins.diam.,bears S.86°35'W., 4.31 chs.dist., marked ¼ S 12 B T
	A ledge of light gray sandstone, exposed on surface of ground brs. SW.30 lks.dist.; raise a mound of stone, 2½ ft.base, 18 ins.high, W.of cor. Ledge mkd. + B C ¼ S 12.
44.70	Wash, 15 lks.wide, 8 ft.deep,30 ft.below ¼ sec.cor., course NE.
47.10	Wagon road from Carlisle to Monticello and Moab, bears NE. and SW.
	Ascend gently.
65.40	Top of ridge, 75 ft.above wash,bears NE.and SW.
	Descend.
71.40	Bottom of hollow,20 ft.below ridge,course E.
72.10	Top of small spur, projects E.
	Descend 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 32 S in N half
	R 22 E S 12 in NW
	R 23 E S 7 in NE
	S 18 in SE. and
	S 13 in SW. quadrant; from which
	A pinon pine,10 ins.diam.,bears N.79°25'E., 131 lks.dist., marked T 32 S R 23 E S 7 B T
	A cedar, 12 ins.diam.,bears S.78°30'E.,1.08 chs. dist., marked T 32 S R 23 E S 18 B T
	A pinon pine,8 ins.diam.,bears S.15°18'W., 107 lks.dist., marked T 32 S R 22 E S 13 B T
	A pinon pine,8 ins.diam.,bears N.67°14'W.,70 lks. dist., marked T 32 S R 22 E S 12 B T
	Rolling mountainous land, E.slope.
	Soil, weak reddish sandy loam 4 to 24 ins.deep, medium texture, dry, on rock subsoil.
	Scattering cedar and pinon pine, and sagebrush.

RESURVEY OF THE EAST BOUNDARY OF T. 32 S., R. 22 E.

June 21, 1911

Eric H Anderson

U. S. Transitman

June 22: At 8h a.m., sky overcast, prevents observation.

South on true line bet. secs. 13 and 18

Over rolling mountainous land, through scattering timber and sagebrush.

Descend gently.

3.60 Bottom of hollow, 25 ft.below sec.cor., course SE.

Ascend.

6.00 Top of small spur, 20 ft.above hollow, bears NW. and SE.

Descend.

15.00 Foot of gentle ridge, bears NE. and SW.

Leave timber, enter Hart Draw, through sagebrush, bears N.20°E. and S.20°W.

25.00 Wash, 70 lks.wide, 12 ft.deep, in bottom of Hart Draw, carries stream of muddy water 8 lks.wide, 1 in.deep, course N.20°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., bet.secs.13 and 18, marked on brass cap ¼ S 13 on W. and S 18 on E half; from which

A pinon pine, 8 ins.diam.,bears S.51°42'E., 306 lks.dist., marked ¼ S 18 B T

A pinon pine,10 ins.diam.,bears S.35°47'W.,441 lks.dist., marked ¼ S 13 B T

Ascend gently.

41.50 Foot of gray sandstone knoll, bears N.70°E. and S.70°W.

Ascend.

45.50 Top of knoll, 50 ft.above ¼ sec.cor., bears NE.and SW.

Summit of knoll 3 chs. E. of line. Descend.

53.00 S.foot of knoll, 50 ft.below top, bears E. and W.

Chains	
	Descend gently.
70.00	Wash, 100 lks.wide, 15 ft.deep, course N.15°W.
	Ascend.
79.00	Top of small ridge, bears NE. and SW.
	Descend gently.
80.00	Set an iron post, 3 ft.long,3 ins.in dia., 12 ins.in the ground on solid rock, raise a mound of stone around post, for cor. of secs.13,18,19 and 24, marked on brass cap
	T 32 S in N half
	R 22 E S 13 in NW
	R 23 E S 18 in NE
	S 19 in SE. and
	S 24 in SW. quadrant; from which
	A pinon pine, 6 ins.diam.,bears N.56° 47'E., 142 lks.dist., marked T 32 S R 23 E S 18 B T
	A cedar,12 ins.diam.,bears S.20°14'E.,122 lks. dist., marked T 32 S R 23 E S 19 B T
	A cedar, 10 ins.diam.,bears S.48°35'W.,143 lks. dist., marked T 32 S R 22 E S 24 B T
	A pinon pine, 6 ins.diam.,bears N.83°08'W.,188 lks.dist., marked T 32 S R 22 E S 13 B T
	Rolling mountainous land, E.slope.
	Soil, light brown sandy loam with some gravel, from 6 to 24 ins.deep, medium texture, dry on rock subsoil.
	Scattering cedar and pinon pine and sagebrush.

	South on true line bet. secs. 19 and 24
	Over rolling mountainous land, through heavy timber and scattering sagebrush.
1.50	Leave timber; enter dense sagebrush, bears NE. and SW.
12.00	Begin ascent at foot of ridge, bears NE. and SW.
	Enter heavy timber, leave sagebrush, bears NE. and SW.
40.00	Set an iron post, 3 ft.long, 1 in.in dia.,26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S

Chains	
	24 on W. and S 19 on E half; from which
	A pinon pine, 8 ins.diam.,bears S.32°25'E.,
	80 lks.dist., marked $\frac{1}{4}$ S 19 B T
	A pinon pine, 10 ins.diam.,bears N.61°20'W.,
	62 lks.dist., marked $\frac{1}{4}$ S 24 B T
42.30	Top of ridge, 25 ft.above $\frac{1}{4}$ sec.cor., bears NW. and SE.
	At 12h 01m p.m., l.m.t., I set off 23° 27' N. on the decl.
	arc, and observe the sun on the meridian at this point,
	the resulting lat.is 38° 02'.
	Descend.
50.00	Bottom of canon, 75 ft.below ridge, course NW.
	Ascend.
54.00	Top of spur, 80 ft.above canon, bears NE.and SW.
	Descend.
59.00	Bottom of hollow, 25 ft.below spur, course NE.
	Ascend.
78.00	Top of ridge, 200 ft.above canon, bears NE. and SW.
	Descend.
80.00	Set an iron post, 3 ft.long, 3 ins.in dia.,24 ins.in
	the ground for cor. of secs.19,24,25, and 30, marked on
	brass cap
	T 32 S in N half
	R 22 E S 24 in NW
	R 23 E S 19 in NE
	S 30 in SE. and
	S 25 in SW. quadrant; from which
	A pinon pine, 8 ins.diam., bears N.17° 12'E., 29
	lks.dist., marked T 32 S R 23 E S 19 B T
	A pinon pine, 8 ins.diam.,bears S.32°45'E., 35 lks.
	dist., marked T 32 S R 23 E S 30 B T
	A pinon pine, 12 ins.diam.,bears S.76°17'W.,51 lks.
	dist., marked T 32 S R 22 E S 25 B T
	A pinon pine, 12 ins.diam.,bears N.29°00'W., 69
	lks.dist., marked T 32 S R 22 E S 24 B T
	Land, rolling mountainous, NW. slope.

Chains	
	Soil, sandy loam with gravel, 6 to 26 ins.deep on rock subsoil, medium texture and dry.
	Timber, cedar and pinon pine with scattering sagebrush undergrowth.
	June 22, 1911
	Eric H Anderson
	U. S. Transitman
	June 23: At 8h 01m a.m., l.m.t., I set off 38° 01' on the lat.arc; 23° 28' N. on the decl.arc; and determine a meridian with the solar at the cor. of secs.19,24,25, and 30, on E.bdy. of Tp.
	Thence I run
	South on true line bet.secs.25 and 30.
	Over mountainous land; through heavy timber.
2.70	Bottom of hollow, 30 ft.below sec.cor., course W.
	Ascend.
6.75	Top of small spur, 30 ft.above hollow, bears E. and W. Descend.
9.40	Bottom of hollow, 30 ft.below spur, course NW.
	Ascend.
12.60	Top of ridge, 40 ft.above hollow, bears NW. and SE.
	Descend.
15.00	Bottom of canon, 60 ft.below ridge, course NW.
	Ascend.
37.50	Top of ridge, 75 ft.above canon, bears NE. and SW.
	Descend gently.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 25 on W and S 30 on E half; from which
	A pinon pine,10 ins.diam.,bears S.82°30'W., 41 lks.dist., marked $\frac{1}{4}$ S 25 B T
	A pinon pine, 10 ins.diam.,bears N.43°05'E., 30 lks.dist., marked $\frac{1}{4}$ S 30 B T

Chains	
	Descend gently.
41.50	Leave heavy timber, enter sagebrush, bears NW. and SE.
42.00	Bottom of draw, 15 ft.below ¼ sec.cor., course NW; ascend gently.
45.60	Foot of abrupt ascent, bears NE. and SW.
	Ascend abruptly.
46.00	Leave sagebrush, enter heavy timber, bears NE. and SW.
51.50	Top of ridge, 50 ft.above draw, bears NE. and SW.
	Descend.
60.00	Leave timber; enter sagebrush, bears NE.and SW.
61.00	Begin abrupt ascent, bears NE. and SW.
64.50	Leave sagebrush; enter timber, bears E. and W.
71.50	Top of ridge (Peters Point Ridge) 125 ft. above abrupt ascent, bears NE. and SW.
June 23:	At 12h 01m p.m. l.m.t., I set off 23° 27'N. on the decl. arc, and observe the sun on the meridian, the resulting lat. is 38° 00'.
	Descend through burnt timber.
80.00	Set an iron post, 3 ft.long, 3 ins.in diam.,24 ins.in the ground for cor. of secs.25,30,31 and 36, marked on brass cap
	T 32 S in N half
	R 22 E S 25 in NW
	R 23 E S 30 in NE
	S 31 in SE. and
	S 36 in SW. quadrant; from which
	A cedar, 4 ins.diam.,bears N.75°30'E., 76 lks. dist., marked T 32 S R 23 E S 30 B T
	A cedar, 4 ins.diam.,bears S.65°10'W.,111 lks. dist., marked T 32 S R 22 E S 36 B T
	A cedar, 4 ins.diam.,bears N.2° 41'W., 103 lks. dist., marked T 32 S R 22 E S 25 B T
	Raise a mound of stone, 2½ ft.base, 18 ins.high, W.of cor. No other bearing trees within limits.
	Land is mountainous, NW.slope.

Chains	
	Soil, brown sandy loam with some gravel, 12 to 26 ins. deep, on rock and clay subsoil, medium moist and of medium texture.
	Heavy timber, with exception of a few small sagebrush strips found in depressions; very little grass.
	South on true line bet.secs.31 and 36
	Over rolling mountainous land; through burnt timber and scattering sagebrush.
2.50	Hollow, 75 ft.below sec.cor., course NE.
	Ascend.
9.00	Leave burnt; enter live timber, bears NE. and SW.
15.00	Top of ridge, 125 ft.above hollow, bears NE. and SW.
	Descend.
30.00	Leave timber; enter grass draw, bears NE. and SW.
	Descend gently.
40.00	Set an iron post, 3 ft.long, 1 in.in dia.,26 ins.in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 36 on W. and S 31 on E half, from which
	A pinon pine, 12 ins.diam., bears S.89° 15'E., 356 lks.dist., marked $\frac{1}{4}$ S 31 B T
	A pinon pine, 10 ins.diam.,bears S.69°34'W., 423 lks.dist., marked $\frac{1}{4}$ S 36 B T
41.50	Wash, 15 lks.wide, 4 ft.deep in bottom of grass draw, course NE.
	Ascend gently.
45.00	Leave grass draw; enter timber, bears NE. and SW.
50.00	Top of ridge, 60 ft.above wash, bears NE.and SW.
	Descend gently.
70.00	Leave heavy; enter scattering timber and sagebrush, bears N.60°E. and S.60°W.
80.00	Intersect south boundary of township 6.40 chs. W. of old established corner. I destroy all marks on the old cor. and on bearing trees that pertain to Tp. 32 S.,

Chains

Rs. 22 and 23 E. and

Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground for cor. of Tp. 32 S., Rs.22 and 23 E., marked on brass cap

T 32 S in N half

R 22 E S 36 in NW

R 23 E S 31 in NE. quadrants; from which

A pinon pine, 10 ins.diam.,bears N.54°31'W.,

226 lks.dist.; marked T 32 S R 22 E S 36 B T

No other bearing trees within limits; raise a mound of stone 5 ft.base, 2½ ft.high, W. of cor.

Land is rolling,mountainous NW. and NE. slope.

Soil, S. 40 chs. dark clay with sand loam, medium moist and medium texture, 12 ins.to 24 ins.deep, on gravelly and rocky subsoil. N. 40 chs. sand and gravelly loam, dry, 6 to 18 ins.deep on rock subsoil.

Timber, cedar and pinon pine; undergrowth, sagebrush.

June 23, 1911

RESURVEY OF SOUTH BOUNDARY OF T.32 S.,R.22 E.

June 24: At 8h 01m a.m., l.m.t., I set off 37° 59' on the lat.arc; 23° 27'N. on the decl.arc, and determine a meridian with the solar at the re-established cor. of Tp. 32 S., Rs.22 and 23 E.

Note:- Finding that the S.bdy. of Tp.32 S., R. 22 E. will be out of limits for distance, I deem it advisable to resurvey the boundary for T.32 S., R. 22 E. only, destroying all marks on the old ¼ sec. and sec.cors. pertaining to T. 32 S., R. 22 E. I proceed as follows:

West on true line bet.secs.1 and 36

Ascend gently through scattering timber and undergrowth of sagebrush and rose bush.

18.50 Top of small ridge, 20 ft.above Tp.cor., bears NE.and SW.

Descend.

Chains	
27.50	Wash, 12 lks.wide, 3 ft.deep, in bottom of grass draw, course NE.
	Ascend.
33.50	Intersect old ¼ sec.cor. bet.secs.1 and 36, which is a sandstone 10x8x6 ins. above ground, marked and witnessed as described by surveyor general. I destroy marks on bearing trees pertaining to sec. 36.
40.00	Set an iron post, 3 ft.long, 1 in.in dia.,12 ins.in the ground, raise mound of stone around post, for ¼ sec. cor. to sec.36, marked on brass cap ¼ S 36 on N.half; from which A cedar, 5 ins.diam.,bears N.45°00'E.,36 lks. dist., marked ¼ S 36 B T
	Ascend.
45.50	Ascend abruptly over sandstone ledge, 15 ft.high, bears NE. and SW.
	Thence through burnt timber.
51.50	Peter's Point Ridge, 150 ft.above ¼ sec.cor.,bears NE. and SW.
	Descend gently.
62.00	Descend abruptly over ledges, 50 ft.high, bears NE.and SW.
65.00	Foot of ledge; descend gently.
72.44	Intersect old cor. of secs.1,2,35 and 36, which is a sandstone 20x8x6 ins. firmly set, marked and witnessed as described by surveyor general. I destroy marks on bearing trees that pertain to secs. 35 and 36.
80.00	Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor. of secs.35 and 36, marked on brass cap T 32 S S 35 in NW R 22 E S 36 in NE. quadrants; from which A cedar, 4 ins.diam.,bears N.32°28'E.,31 lks. dist., marked T 32 S R 22 E S 36 B T

Chains

A cedar, 12 ins.diam.,bears N.35°44'W., 42 lks. dist., marked T 32 S R 22 E S 35 B T

Land, mountainous; NE. slope.

Soil, dark sandy loam of good quality and medium texture, dry, 12 to 24 ins. deep on rock subsoil.

Timber, scattering cedar and pinon pine.

Scattering sagebrush and rosebush.

West on true line bet.secs.2 and 35

Over mountainous land, through heavy and scattering timber.

10.00 Descend abruptly.

20.00 Trail, bears NW. and SE.

20.50 Telephone line, from Carlisle to Monticello,brs.NW. and SE.

27.50 Hollow, 150 ft.below abrupt descent, course NW.

Descend gently.

32.10 Intersect old ¼ sec.cor.bet.secs.2 and 35, which is a sandstone 10x6x4 ins., marked and witnessed as described by surveyor general.

I destroy mark on bearing tree that pertains to sec.35.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor. to sec.35, marked on brass cap ¼ S 35 on N half; from which

A pinon pine, 8 ins.dia.,bears N.28°14'W., 42 lks. dist., marked ¼ S 35 B T

At 12h 01m p.m., l.m.t., I set off 23° 26'N. on the decl.arc; and observe the sun on the meridian at this cor., the resulting lat.is 37° 59'

40.75 Descend abruptly over broken ledges, into Hart Draw Canon, bear N. and S.

62.00 Wash, 12 lks.wide, 2 ft.deep, in bottom of Hart Draw Canon, 200 ft.below abrupt descent. Muddy stream in wash, 8 lks.wide, 2 ins.deep, course N.

Ascend abruptly over broken ledges.

Chains	
67.25	Top of broken ledges, 90 ft.above wash, bears N.and S. Ascend gently.
70.60	Top of ridge, 250 ft.above canon, bears N.and S. Descend gently.
72.41	Intersect the old cor. of secs.2,3,34 and 35, which is a red sandstone 24x18x4 ins. marked and witnessed as described by surveyor general. I destroy the marks on bearing trees that pertain to secs.34 and 35. Descend gently.
79.90	Bottom of hollow, 50 ft.below old sec.cor., course NW. Ascend.
80.00	Set an iron post, 3 ft.long, 3 ins.in dia.,24 ins.in the ground, for cor. of secs.34 and 35, marked on brass cap T 32 S S 34 in NW R 22 E S 35 in NE. quadrants; from which A pinon pine, 8 ins.diam.,bears N.32° 25'E., 45 lks.dist., marked T 32 S R 22 E S 35 B T A pinon pine, 8 ins.diam.,bears N.76°20'W., 50 lks.dist., marked T 32 S R 22 E S 34 B T

Land, rolling, mountain slopes; E. 70 chs. slopes W.; W. 10 chs. slopes E.

Soil, dark sandy loam with some gravel and some carbonacious matter, such as decaying leaves and wood. Medium moist, 6 to 24 ins. deep on rock subsoil, composed of decomposing sandstone. Heavy cedar and pinon pine and scattering sagebrush, very little grass.

June 24, 1911

Eric H. Anderson

U. S. Transitman

June 26: At 8h 01m a.m., l.m.t., I set off 37° 59' on the lat.arc; 23° 24'N. on the decl.arc; and determine a meridian with the solar at the re-established cor. of secs.34 and 35, on S.bdy. of Tp.

Chains	
	Thence I resurvey
	West on true line bet.secs.3 and 34
	Over rolling mountainous land; through heavy timber and scattering sagebrush.
	Ascend.
12.60	Top of spur, 50 ft.above sec.cor., bears N.and S.
	Descend.
14.00	Bottom of hollow, 30 ft.below spur, course N.
	Ascend gently.
21.00	Small hollow, course N.
	Ascend gently.
32.02	Intersect old $\frac{1}{4}$ sec.cor. bet.secs.3 and 34, which is a sandstone 12x8x6 ins., set, marked and witnessed as described by surveyor general. I destroy marks on bearing tree that pertain to sec.34.
40.00	Set an iron post, 3 ft.long, 1 in.in dia.,18 in.in the ground on solid rock, raise a mound of stone around post, for $\frac{1}{4}$ sec.cor. to sec.34; marked on brass cap $\frac{1}{4}$ S 34 on N half; from which
	A cedar, 12 ins.diam.,bears N.78° 00'E. 41 lks. dist., marked $\frac{1}{4}$ S 34 B.T
46.00	Top of spur, 50 ft.above $\frac{1}{4}$ sec.cor., bears N. and S.
	Descend.
60.00	Bottom of hollow, 75 ft.below spur, course NW.
	Ascend.
71.72	Intersect the old sec.cor. of secs.3,4,33 and 34, which is a red sandstone 12x10x6 ins.,marked and witnessed as described by surveyor general. I destroy the marks on bearing trees that pertain to secs.33 and 34.
	Descend gently.
74.50	Descend abruptly over ledges, bear N.and S. (E. edge of Indian Creek Canon)
78.40	Foot of steep descent, 200 ft.below old sec.cor.
	Set an iron post, 3 ft.long, 3 ins.diam.,24 ins.in the ground, for witness cor.to cor.of secs.33 and 34, marked on brass cap

Chains	
	T 32 S S 33 in NW W C R 22 E S 34 in NE. quadrants; from which A red pine, 10 ins.diam.,bears N.45°00'E., 10 lks. dist., marked W C T 32 S R 22 E S 34 B T No other bearing trees within limits; raise mound of stone 4 ft.base, 2 ft.high, N. of cor. Ascend over smooth sandstone.
80.00	Point for cor. of secs.33 and 34, falls on rock in place; chisel cross in rock for cor. of secs.33 and 34. Land, is rolling, mountainous, northerly slope. Soil, reddish sandy loam with gravel, medium texture and fairly moist; 12 to 24 ins.deep on bedrock of decomposing sandstone, the origin of the soil. Heavy cedar and pinon pine, scattering sagebrush; very little grass.
	West bet.secs.4 and 33 Over mountainous land; through timber and scattering undergrowth. Ascend.
1.00	Top of smooth sandstone spur, 20 ft.above sec.cor.,bears N. and S. Descend over ledges into Indian Creek Canon, bears N. and S.
15.50	Foot of ledges, 200 ft.below sec.cor.,bears N.20°W. and S.20°E. Enter Indian Creek Canon, through cottonwoods, a few scattering large yellow pines and dense undergrowth of rosebush and willows.
16.80	Indian Creek, 15 lks.wide, 10 ins.deep,swift flow on rocky bottom, course N.
22.00	Begin abrupt ascent over Shay Mountains, bears N.20°W. and S.20°E.
33.00	Intersect old ¼ sec.cor. bet.secs. 4 and 33, which is a sandstone 12x8x4 ins.firmly set,marked and witnessed as described by surveyor general. I destroy marks on bearing tree that pertain to sec. 33. Ascend.

Chains

40.00 Set an iron post, 3 ft.long, 1 in.in dia.,18 ins.in the ground, on solid rock and raise mound of stone around post, for ¼ sec.cor.for sec. 33, marked on brass cap ¼ S 33 on N.half; from which

A pinon pine, 8 ins.diam.,bears N.47°59'W., 32 lks.dist., marked ¼ S 33 B T

300 ft.above Indian Creek.

June 26: At 12h 01m p.m., l.m.t., I set off 23° 24'N. on the decl.arc; and observe the sun on the meridian at this cor. the resulting lat.is 37° 59'

50.00 Foot of ledge, 75 ft.high, bears N.70°E. and S.70°W. Thence from top of ledge ascend gently.

63.00 Top of ridge, 100 ft.above ledge, bears N.20°E. and S. 20°W. Descend.

64.00 Bottom of hollow, 20 ft.below ridge, course N.20°E. Ascend.

71.67 Intersect the cor. of secs.4,5,32 and 33, which is a cross cut in rock in place with 2 notches on W. and 4 notches on E.; witnessed as described by Surveyor General.

I destroy marks on bearing trees that pertain to secs. 32 and 33.

Descend gently.

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

T 32 S S 32 in NW

R 22 E S 33 in NE quadrants; from which

A pinon pine, 6 ins.diam., bears N.55°52'E., 45 lks. dist., marked T 32 S R 22 E S 33 B T

A cedar, 6 ins.diam., bears N.12°52'W., 10 lks. dist., marked T 32 S R 22 E S 32 B T

Land, mountainous; E. 20 chs.W. slope; W.60 chs.E.slope. Soil, poor sandy and gravelly loam, with rocks washed on slopes; coarse texture, dry, 2 to 24 ins.on bedrock of decomposing sandstone.

Chains

Timber, cedar and pinon pine; scattering sagebrush; very little grass.

June 26, 1911

Eric H. Andrews

U. S. Transitman

June 27: At 8h 02m a.m., l.m.t., I set off 37° 59' on the lat.arc; 23° 23'N. on the decl.arc, and determine a meridian with the solar at the cor. of secs.32 and 33, on S.bdy. of Tp.

Thence I resurvey

West bet. secs. 5 and 32

Through cedar and pinon pine.

12.00 Top of ridge, 75 ft. above sec.cor., bears N.30°E. and S.30°W.

Descend steep slope.

32.50 Bottom of canon, 400 ft.below ridge,course NE.

Ascend.

35.62 Intersect old ¼ sec.cor.bet.secs.5 and 32, which is a sandstone 12x12x4 ins.,marked and witnessed as described by the surveyor general.

I destroy marks on bearing tree that pertain to sec.32.

Ascend.

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

A cedar, 10 ins.diam.,bears N.84°30'E., 45 lks. dist., marked ¼ S 32 B T

Descend.

40.25 Bottom of hollow, 10 ft.below ¼ sec.cor.,course S.85°E.

Ascend abruptly over NE.slope of mountain.

50.00 Ascend over broken ledges, 25 ft.high,bear N. and S.

Chains

55.00 Ledge, 50 ft.high, bears N.from line.

Descend gently.

58.50 Hollow, 20 ft.below ledge, course S.70°E.

Ascend over broken ledges.

70.00 Top of abrupt ascent, 350 ft.above $\frac{1}{4}$ sec.cor., bears N.20°E. and S.20°W.

Ascend gently.

71.72 Intersect the old cor. of secs.5,6,31 and 32, which is a sandstone 16x12x8 ins., set,marked and witnessed as described by the Surveyor General. I destroy marks on bearing trees that pertain to secs.31 and 32.

June 27: At 12h 02m p.m., l.m.t., I set off 23° 22'N. on the decl.arc; and observe the sun on the meridian at this cor., the resulting lat.is 37° 59'

Ascent continues.

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

T 32 S S 31 in NW

R 22 E S 32 in NE quadrants;

No bearing trees within limits; raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, N. of cor.

Land, mountainous; northeasterly slope, soil good dark sandy loam with considerable carbonaceous matter and some gravel, medium texture, fairly moist, 6 to 24 ins. deep on bedrock; cedar and pinon pine; scattering sagebrush, squaw brush, and rosebush; some grass.

West bet.secs. 6 and 31

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

Ascend along NE. slope of rolling mountain.

3.30 At this point line skirts S.edge of aspen grove.

7.50 Head of hollow, course N.70°E.

Chains.	
14.00	Top of spur, of Shay Mountains, 200 ft.above sec.cor. bears N.30° E. and S.30° W. Descend over steep slope; through dense serviceberry and squaw brush, 4 ft.high.
20.00	Enter heavy and dense aspen and red pine timber, bears N.and S.
25.80	Bottom of canon, 150 ft.below spur, course N.20° E. Ascend.
28.00	Leave heavy; enter scattering timber, scrub oak and serviceberry brush, bears N.and S.
29.00	Leave scattering; enter heavy timber, bears NE. and SW.
29.82	Intersect old ¼ sec.cor.bet.secs.6 and 31, which is a sandstone 10 x 8 x 6 ins.above ground, firmly set, marked and witnessed as described by surveyor general. I destroy marks on bearing tree that pertain to sec.31 Ascend.
31.40	Leave heavy; enter scattering timber, and sagebrush, bears N.and S.
35.20	Top of ridge (saddle) 150 ft.above old ¼ sec.cor., bears N.30° W. and S.30° E. Descend.
40.00	Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ¼ sec.cor.for sec.31, marked on brass cap ¼ S 31 on N.half; from which A pinon pine, 6 ins.dia.bears N.10° 30'W. 124 lks. dist., marked ¼ S 31 B T Descend.
51.80	Enter heavy pine and aspen timber; bears N.and S., in hollow, 300 ft.below spur, drains NW.Ascend gently.
61.50	Top of small spur, 60 ft.above hollow, bears N.and S. Descend.
67.20	Intersect the cor.of Tps.32 and 33 S., Rs.21 and 22 E., heretofore described.

Land, mountainous, northerly slope; soil, dark sandy loam; good; containing considerable carbonaceous matter, such as decomposed wood and leaves, 10 to 24 ins. deep on decomposing porphyry subsoil.

Chains.

Note: The Shay Mountains proper are of igneous origin, porphyry being exposed on the surface. These mountains are surrounded by sedimentary rock, hence the soil on the Shay Mountains is of better quality than that of the land surrounding them. The vegetation bears this out very noticably.

The soil is of medium texture and fairly moist; considerable grass in places, suitable only for grazing, which may also be said of the entire boundary to the east.

Timber, cedar, pinon pine, aspen and a few red pine.

Undergrowth, scattering sagebrush, serviceberry, oak brush, squaw brush and grass.

June 27, 1911.

Eric H. Anderson

U.S.Transitman.

NORTH BOUNDARY OF T.32 S., R.22 E.

Survey commenced June 27, 1911, and executed with the instrument described in book "A" of this survey.

At cor.of Tps.31 and 32 S., Rs.22 and 23 E., in latitude 38° 04' 17" N.; longitude 109° 29' 10" W., which is a sandstone 12 x 12 x 4 ins.above ground, marked and witnessed as described by surveyor general.

At 1h 15m a.m.l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined by a mark on a peg firmly set in the ground 5 chs.N.of cor.

At 7h 30m a.m.l.m.t., I turn off the azimuth of Polaris 1° 29' to the west, and mark the meridian thus determined by a mark on a peg set west of the one set last night, the magnetic bearing of said true meridian is N.16° 10'W., which gives the mag.decl.16° 10'E.

I lay off from the meridian an angle of 90° from north to west, and run

West on random line on boundary bet.Tps.31 and 32 S.

Chains	
	R.22 E.
	I set good flags to mark 40 and 80 chs. points, and at
466.80	Intersect E.bdy. of T.31 S., R. 21 E., 24 chs. N. of witness cor.of cor.of Tps. 31 and 32 S., Rs.21 and 22 E., heretofore described.
	Note: Since the falling on this cor. is out of limits, I abandon the random line and proceed as follows:
	June 27, 1911
	June 28: At 8h 3m a.m., l.m.t., I set off 38° 04' on the lat.arc; 23° 20'N. on the decl.arc, and determine a meridian with the solar at witness cor. to Tps.31 and 32 S., Rs.21 and 22 E., which is 17.30 chs. N.of true cor. point. Titus log cabin bears N.42° 20'E.
	A second cabin bears N.44°25'E.
	Thence I run
	East (from witness cor.) on offset line through scattering timber and dense undergrowth of sagebrush.
	Asc.
1.00	Top of ridge, 30 ft.above W.C. bears N.and S. Descend.
10.00	Foot of steep descent, bears NW. and SE.
	Leave scattering timber, bears N.and S.
19.00	Point from which I run
	South 17.20 chs. where I regain the township line at foot of ledge, 200 ft.high,bears N.20°W. and S.20°E., thence I run
	East on north boundary of township.
	Over mountainous land; through scattering timber and sagebrush. Descend over boulders and ledges.
23.45	Fence, bears N.70°E. and S.70°W.
	Foot of steep descent; leave scattering timber; enter dense sagebrush; enter west edge of Indian Creek Canon, bears N.20°W. and S.20°E.
25.30	Wash, 10 lks.wide, 3 ft.deep, course NE.

North Boundary of T.32 S., R. 22 E.

Chains	
26.80	Set an iron post, 3 ft.long, 1 in.in dia.,26 ins.in the ground for $\frac{1}{4}$ sec.cor:bet.secs.6 and 31, marked on brass cap $\frac{1}{4}$ S 31 on N, and S 6 on S half; from which A cottonwood 8 ins.diam.,bears N.78°45'E., 6.09 chs.dist., marked $\frac{1}{4}$ S 31 B T A pinon pine, 14 ins.diam.,bears S.24°15'W.,383 lks.dist., marked $\frac{1}{4}$ S 6 B T
30.10	Wash, 10 lks.wide, 3 ft.deep, course NE.
34.40	Enter wash, bank 8 ft.deep, bears N. and S.
37.20	Indian Creek, 70 lks.wide, 5 ins.deep, rapid current, course N.20°W.
38.40	Leave wash, bank 10 ft.deep, bears N. and S.
40.65	Telephone line, Monticello to Carlisle Ranch, bears NW. and SE.
41.00	SW. corner of Harry G. Green's orchard bears N.60°E. and S.30°W. This is also NW. corner of alfalfa field. All these improvements are on Harry G. Green's ranch.
42.00	Note:- From this point I take baarings and distances to the following objects: A small spring,enclosed in little house,S.68°00'W. 1.15 chs.dist. SE.corner of a three-room log house bears N.69°15'W. 2.05 chs. dist. SE. corner of log granary bears N.67°15'W. 1.70 chs.dist. SE.corner of cellar bears N.62°00'W. 1.35 chs.dist. Center of surface well bears N.52°W. 2.30 chs.dist. SE.corner of log room bears N.52°W. 2.30 chs.dist. A log room bears S.30°W. 1.95 chs.dist.
46.00	Note:- from this point I take bearings and distances on the following additional improvements. SW.corner of corral and stock-yards and SE.cor. of orchard bears N.41°30'W. 4.50 chs.dist. The SW.corner of wagon shed bears N.23°W. 5.60 chs.dist. The NE.corner of alfalfa field and SE.corner of stock-yard bears N.12°30'E. 6.70 chs.dist.

Chains	
	The SE. corner of alfalfa field bears S.32°E. about 20 chs.dist.
46.05	Field road, bears N.30°W. and S.30°E.
54.00	Fence, pole and wire, bears N.and S.
	Leave lucern field, bears NW. and SE.
54.90	Trail, bears NW. and SE.
56.85	Irrigation ditch, 10 lks.wide, 2 ft.deep, course N.1.00 ch., thence NW.
56.10	Wagon road, from Monticello to Dugout Ranch, bears N. 1.00 ch., thence NW. and S.
56.20	Leave canon bottom, begin abrupt ascent, enter scattering timber, bears N. and S.
61.00	Foot of ledge, 100 ft.high, bears N.and S.
62.33	Top of same ledge, bears N. and S., continue ascent over smaller ledges.
66.80	Set an iron post, 3 ft.long, 3 ins.in dia.,12 ins.in the ground on solid rock, raise a mound of stone around post, for cor. of secs.5,6,31 and 32, marked on brass cap T 31 S S 31 in NW R 22 E S 32 in NE R 22 E S 5 in SE T 32 S S 6 in SW quadrants, from which A cedar,12 ins.diam.,bears N.62°30'E., 26 lks. dist., marked T 31 S R 22 E S 32 B T A pinon pine, 12 ins.diam.,bears S.44°30'E., 100 lks.dist., marked T 32 S R 22 E S 5 B T A pinon pine, 6 ins.diam.,bears S.72°30'W.,106 lks.dist., marked T 32 S R 22 E S 6 B T A pinon pine, 8 ins.diam.,bears N.36°15'W., 79 lks.dist., marked T 31 S R 22 E S 31 B T Note:- The center of cave on west side of Indian Canon, bears S.49° 30'W.
	W. 24 chs. rough mountainous land, E.and W.slope; poor red sandy loam with rocks 6 to 18 ins.on bedrock. Scattering timber, cedar and pinon pine; sagebrush.

Chains	
	This classification also applies to E. 6 chs.
	The intermediate 36.80 chs. is nearly level canon bottom land. NW. slope, soil, sandy loam with gravel, medium texture; moist 18 ins. to 6 ft. deep on rock subsoil.
	Note:- Alfalfa grows in a flourishing condition, and orchard mentioned produces good fruits, apples, peaches, and plums; garden truck, such as peas, beans, melons, show a sturdy growth.
	Water from Indian Creek is used to irrigate crops on Green's ranch.
	Thence I run
	East on true line bet. secs. 5 and 32
	Over mountainous land; through heavy timber, and scattering sagebrush.
	Ascend over ledges.
11.80	Top of ledge, 30 ft. high, bears NE. and SW.
	Edge of ridge. Ascend gently.
19.90	Top of ridge, 300 ft. above sec. cor., bears NE. and SW.
	Descend.
23.40	Head of hollow, 30 ft. below ridge, course S. Ascend.
34.00	Top of ridge, 40 ft. above hollow, bears N. and S.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 32 on N., and S 5 on S half; from which
	A pinon pine, 14 ins. diam., bears N. 17°30' W., 89 lks. dist., marked $\frac{1}{4}$ S 32 B T
	A pinon pine, 10 ins. diam., bears S. 28°E., 12 lks. dist., marked $\frac{1}{4}$ S 5 B T
44.50	Bottom of hollow, 40 ft. below ridge, course S. 20°W.
	Ascend.
51.70	Top of ridge, 80 ft. above hollow, bears N. 20°E. and S. 20°W.
	Descend.

Chains	
60.80	Wash,50 lks.wide, 10 ft.deep, course S. Ascend.
69.90	Top of ridge, 20 ft.above wash, bears N.and S.
June 28:	At 12h 03m p.m., l.m.t., I set off 23° 19'N. on the decl.arc, and observe the sun on the meridian at this point, the resulting lat.is 38° 04'
	Descend.
74.00	Trail, bears NE. and SW.
76.30	Bottom of hollow, 80 ft.below ridge, course S.20°W. Ascend abruptly.
77.10	Same trail, bears N.20°W. and S.20°E.
79.25	Foot of sloping sandstone ledge, 100 ft.high, bears NW. and SE.
	Set an iron post, 3 ft.long, 3 ins.in dia.,24 ins.in. the ground, for witness cor. to cor.of secs.4,5,32 and 33, marked on brass cap
	T 31 S S 32 in NW
	W.C R 22 E S 33 in NE
	R 22.E S 4 in SE
	T 32 S S 5 in SW quadrants; from which
	A smooth sandstone ledge, bears N.56°30'E.,26 lks. dist., marked + B O S 33
	Same smooth sandstone ledge bears S.56°30'E., 20 lks.dist., marked + B O S.4
	A pinon pine,6 ins.diam., bears S.2°30'W., 54 lks. dist., marked W C T.32 S R 22 E S 5 B T
	A cedar, 12 ins.diam.,bears N.31°10'W., 38 lks.. dist., marked W C T 31 S R 22 E S 32 B T
80.00	Point for sec.cor. falls on sloping ledge, cannot be. reached.
	Land, mountainous; SW. slope, soil, gravelly loam, 6 to 24 ins.deep on rock subsoil, texture rather coarse, dry.
	Pinon pine and cedar. Scattering sagebrush.

Chains	
	East on true line bet. sec. 4 and 33
	Over mountainous land; through heavy timber and scattering sagebrush. Ascend abruptly over sandstone ledge.
1.90	Top of sloping ledge, 100 ft. high, bears NW. and SE.
	Ascend.
2.60	Top of ridge, 100 ft. above sec. cor., bears N. and S.
	Descend.
5.20	Bottom of hollow, 50 ft. below ridge, course S.20°W.
	Ascend.
10.00	Top of ridge, 100 ft. above hollow, bears N.20°E. and S.20°W..
	Descend gently.
27.00	Bottom of hollow, 30 ft. below ridge, course S.30°W.
	Ascend.
40.00	Point for $\frac{1}{4}$ sec. cor. bet. secs. 4 and 33, falls on smooth sandstone, mark + in ledge, at exact cor. point.
42.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap
	T 31 S R 22 E W C $\frac{1}{4}$ S 33 on N and
	S 4 T 32 S R 22 E on S-half; from which
	A pinon pine, 8 ins. diam., bears N.33°45'W.,
	78 lks. dist., marked W C $\frac{1}{4}$ S 33 B.T
	A pinon pine, 10 ins. diam., bears S.45°30'E.,
	23 lks. dist., mkd. WC $\frac{1}{4}$ S 4 B T
43.00	Top of ridge, 50 ft. above hollow, bears N. and S.
	Descend gently.
44.70	Trail, bears N.30°E. and S.30°W.
68.00	Bottom of hollow, 30 ft. below ridge, course SW.
	Ascend.
70.40	Leave timber; enter dense sagebrush, bears N. and S.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on brass cap
	T 31 S S 33 in NW
	R 22 E S 34 in NE

Chains

R 22 E S 3 in SE
T 32 S S 4 in SW. quadrants; from which
A pinon pine, 12 ins.diam.,bears N.52°10'E.,
128 lks.dist., marked T 31 S R 22 E S 34 B T
A pinon pine, 12 ins.diam.,bears S.56°0'E.,
106 lks.dist., marked T 32 S R 22 E S 3 B T
A pinon pine, 8 ins.diam.,bears S.12°30'W.,
151 lks.dist., marked T 32 S R 22 E S 4 B T
A pinon pine, 7 ins.diam.,bears N.31°40'W.,
5.63 chs.dist., marked T 31 S R 22 E S 33 B T
Land, mountainous, SW. slope; soil reddish sandy and gravelly loam, 6 to 24 ins.on bedrock, medium texture, dry; cedar and pinon pine; sagebrush; very little grass.

June 28, 1911

June 29: At 8h 33m a.m., l.m.t., I set off 38° 04' on the lat.arc; 23° 17'N. on the decl.arc; and determine a meridian with the solar at the cor. of secs.3,4,33 and 34, on N.bdy. of Tp.

Thence I run

East bet. secs. 3 and 34

Over rolling mountainous land; through scattering timber and sagebrush; ascend gently.

6.00 Top of ridge, 30 ft.above sec.cor., bears N.20°E. and S.20°W. Leave scattering timber; enter dense sagebrush bears N. and S.

Descend.

20.00 Trail, bears N. and S.

33.00 Wash, 30 lks.wide, 6 ft.deep, in hollow, 150 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 $\frac{1}{4}$ sec.cor., bet.secs.3 and 34,marked on brass cap $\frac{1}{4}$ S 34 on N. and S 3 on S. half; dig pits 18x18x12 ins. E. and W. of post, 3 ft.dist., and raise a mound of

North boundary T. 32 S., R. 22 E.

Chains	
	earth 3½ ft.base, 1½ ft.high, N. of cor.
47.00	Top of ridge, 40 ft.above ¼ sec.cor., bears N.20°E. and S.20°W.
	Descend.
61.60	Trail, bears N.20°E. and S.20°W.
67.00	Head of hollow, 50 ft.below ridge,course S.20°W.
	Ascend.
75.00	Top of ridge, 100 ft.above hollow, bears NE.and SW.
	Descend.
78.00	Head of hollow, 30 ft.below ridge, course SE.
	Ascend.
80.00	Top of small spur, 20 ft.above hollow, bears N.20°E. and S.20°W.
	Set an iron post, 3 ft.long, 3 ins.in diam., 24 ins.in the ground for cor. of secs.2,3,34 and 35, marked on brass cap
	T 31 S S 34 in NW
	R 22 E S 35 in NE
	R 22 E S 2 in SE
	T 32 S S 3 in SW. quadrants; from which
	A pinon pine, 5 ins.diam.,bears N.62°00'E., 97 lks.dist., marked T 31 S R 22 E S 35 B T
	A pinon pine, 8 ins.diam.,bears S.86°45'E., 109 lks.dist.; marked T 32 S R 22 E S 2 B T
	A cedar, 5 ins.diam., bears S.51°00'W., 34 lks. dist., marked T 32 S R 22 E S 3 B T
	A pinon pine, 14 ins.diam.,bears N.45°30'W., 95 lks.dist., marked T 31 S R 22 E S 34 B T
	Land, rolling mountainous; SW. slope. Soil, brown gravelly loam with stones 12 to 36 ins.deep, medium texture, dry, on rock subsoil; very little timber; good growth of sagebrush and a little grass.

East bet. secs. 2 and 35

Over rolling mountainous land; through scattering timber and sagebrush.

Chains	
	Descend.
17.60	Ledge, 20 ft.high on edge of hollow, bears NE. and SW.
19.00	Bottom of hollow, 100 ft.below sec.cor., course NE.
	Ascend.
20.60	Ledge on E.side of hollow, 25 ft.high, bears NE. and SW. Ascend gently.
29.30	Trail or old road on top of ridge, 40 ft.above hollow, bears N.20°E. and S.45°W.
June 29:	At 12h 03m p.m., l.m.t., I set off 23° 17'N. on the decl.arc; and observe the sun on the meridian at this point, the resulting lat.is 38° 04'
	Descend.
36.20	Small water seep, 70 lks.S. of line in bottom of hollow, 30 ft.below ridge, course N.
	Ascend.
38.80	Top of ridge, 20 ft.above hollow, bears N.and S.
	Descend.
40.00	Set an iron post, 3 ft.long, 1 in.in dia.,26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 35 on N. and S. 2 on S half; from which
	A cottonwood,7 ins.diam.,bears S.28°30'E.,17 lks. dist., marked $\frac{1}{4}$ S 2 B T
	A cottonwood, 10 ins.diam.,bears N.8°15'W., 35 lks. dist., marked $\frac{1}{4}$ S 35 B T
	Note: There is the remnants of an old corral about 2 chs. NW. of this cor.
	There are a few scattering cottonwood trees in the canon, NW. of this cor.
40.20	Bottom of hollow, 20 ft.below ridge, course NW.; ascend over ledges.
44.60	Trail bears N. and S. Leave sloping ledges,bear N.and S.
75.00	Top of ridge, 100 ft.above hollow, bears N. and S.; descend gently over sloping sandstone ledges.
80.00	Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground for cor. of secs.1,2,35 and 36, marked on brass

North Boundary T. 32 S., R.22 E.

Chains	
	cap T 31 S S 35 in NW R 22 E S 36 in NE R 22 E S 1 in SE. T 32 S S 2 in SW. quadrants; from which A pinon pine, 8 ins.diam.,bears N.71°00'E., 57 lks.dist., marked T 31 S R 22 E S 36 B T A pinon pine, 14 ins.diam., bears S.21°00'E., 23 lks.dist., marked T 32 S R 22 E S 1 B T A pinon pine, 10 ins.diam., bears S.15°30'W., 81 lks.dist., marked T 32 S R 22 E S 2 B T A pinon pine, 5 ins.diam.,bears N.46°30'W., 102 lks.dist., marked T 31 S R 22 E S 35 B T Land, rolling mountainous, NW. slope; soil, sandy loam with gravel 3 to 36 ins.deep, medium texture, dry, on bedrock, of decomposing sandstone; scattering cedar and pinon pine and sagebrush.
	East bet.secs.1 and 36
	Over mountainous land; through heavy timber and scattering sagebrush.
	Descend over ledges.
0.50	Ledge, 20 ft.high, on W.edge of canon, bears N.and S.
1.50	Bottom of hollow, 60 ft.below sec.cor., course N. Ascend.
4.00	Ledge, 20 ft.high, on E.edge of canon, bears N.and S. Ascend.
10.00	Top of spur, 80 ft.above hollow, bears N.20°E. and S.20° W. Descend.
19.00	Hollow, 20 ft.below spur, course SW. Ascend.
31.00	Top of ridge, 60 ft.above hollow, bears N.and S. Descend.
39.50	Head of wash, 20 lks.wide, 3 ft.deep, course S.80°E.
40.00	Set an iron post, 3 ft.long, 1 in.in diam., 26 ins.in the

Chains

ground for ¼ sec.cor., bet.secs.1 and 36, marked on brass cap ¼ S 36 on N and S 1 on S half; from which

A pinon pine, 18 ins.diam.,bears N.63°15'E., 6 lks. dist., marked ¼ S 36 B T

A cedar, 14 ins.diam.,bears S.21°30'E.,53 lks. dist., marked ¼ S 1 B T

45.00 Leave heavy; enter scattering timber, brs. N. and S.

64.00 Wash, 50 lks.wide, 10 ft.deep, course SE.

80.00 Cor. falls 41.20 chs. S. of old cor. set for Tps.31 and 32 S.,Rs.22 and 23 E., which is a sandstone 18x6x4 ins., 12 ins.in ground, mkd. and witnessed as described by surveyor general. I destroy all marks on cor. that pertain to Tps. 31 and 32 S., R. 22 E.

Set an iron post, 3 ft.long, 3 ins.in diam.,24 ins.in the ground for cor. of Tps. 31 and 32 S., R. 22 E., marked on brass cap

T 31 S R 22 E S 36 in NW and

S 1 R 22 E T 32 S in SW. quadrant; from which

A pinon pine, 18 ins.diam.,bears S.15°45'W., 206 lks.dist., marked T 32 S R 22 E S 1 B T

A cedar, 30 ins.diam.,bears N.19°45'W., 31 lks. dist., marked T 31 S R 22 E S 36 B T

Land, rolling mountainous; SE. slope, soil, sandy loam with gravel, 6 to 36 ins.deep; medium texture, dry on rock subsoil. Heavy cedar and pinon pine, scattering sagebrush.

June 29, 1911

Scott O Stewart

U. S. Transitman

LATITUDE, DEPARTURE, and CLOSING ERRORS

Line Designated	True Bearing	Distance chs.	Latitudes N. chs.	Latitudes S. chs.	Departures E. chs.	Departures W. chs.
W.bdy.T32SR22E	North	480.00	480.00	.....	.....	.....
N.bdy.T32SR22E	East	466.80	.....	.....	466.80	.....
E.bdy.T32SR22E	South	479.42	.....	479.42	.....	.....
S.bdy.T32SR22E	West	467.20	.....	.....	.....	467.20
Convergency					.57	
Totals			480.00	479.42	467.37	467.20
			479.42		467.20	
Errors in lat.& dep.			0.58		0.17	

GENERAL DESCRIPTION

For general description see subdivision notes T. 32 S., R. 22 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.

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 ~~x~~ and resurvey of the East, survey of the North, and resurvey of the South boundaries of Township No.32 South, Range No.23 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.

6—2761

_____

U. S. Surveyor General.

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BOOK A-387

FIELD NOTES

OF THE RE SURVEY OF THE

SIXTH STANDARD PARALLEL SOUTH

THROUGH

RANGES 21 and 22 EAST,

Of the Salt Lake Base and *Meridian,*

In the State of Utah

EXECUTED BY

Scott P. Stewart

In the capacity of U. S. ~~Surveyor~~ Transitman, *under instructions dated* March 27, 1911, *191*..., *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, *191*..., *pursuant to authority contained in the Act of Congress dated* ..., *191*...

Survey commenced July 23, *1911.*

Survey completed July 28, *1911.*

BOOK A-387

INDEX DIAGRAM.

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

6	5	4	3	2	1
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30	29	28	27	26	25
31	32	33	34	35	36

Resurvey of 6th Standard Parallel South, Range 22 East.

Survey Commenced July 23,1911,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.

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

At the standard cor.of Tps.30 S.,Rs.22 and 23 E., latitude 38°09'30"N., longitude 109°29'10"West I set off 38° 09'30"N., on the lat.arc, 20°11'N.,on the decl.arc; and at 4 h 6 m p.m.,l.m.t.,I determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground, 5.00 chs.N.of the cor.

At 11 h 29.m .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 by a tack driven in a wooden plug set in the ground,5.00 chs.N.of the cor.

July 23, 1911.

July 24,1911: At 7 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris 1°28'to the west and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N. of the cor.;this mark falls 0.34 ins.east of the meridian established by the solar.

At 8 h 6 m a.m., l.m.t.,I set off 38°09'30"N., on the lat. arc;20°03'N.,on the decl.arc;and mark the meridian determined with the solar, by a cross on the stone already

6th Standard Parallel South, Range 22 E.-Continued.

Chains	set 5.00 chs.N.of the cor.;this mark falls 0.30 ins.east of the meridian established by Polaris observation. The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'18"west and 0'16"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the meridian,at 8 h 30 m a.m., is N.16°W.the angle thus determined gives the mag.decl.16°E.
	The Standard cor.of Tp.30 S.,Rs.22 and 23 E.,is a sandstone,12x10x3 ins.,above ground,fairly securely set and mkd.and witnessed as described by the surveyor general. The stone is disintegrating rapidly therefore I destroy it and re-establish it in the same place as follows: Set an iron post,3 ft.long,3 ins.in dia.,12 ins. in the ground,on rock,and surrounded by mound of stone, for Standard cor. of Tps.30 S.,Rs.22 and 23 E.,mkd. on brass cap T 30 S in N half. R 22 E S 36 in NW.; R 23 E S 31 in NE. quadrants; from which A cedar,7 ins.dia.,bears N.39°46'E.,897 lks. dist.,mkd.T 30 S R 23 E S 31 B T. A pinon pine,10 ins.dia.,bears N.24°15'W.,194 lks. dist.,mkd.T 30 S R 22 E S 36 B T. Note: The closing cor.of Tps.31 S.,Rs.22 and 23 E.,bears east from this cor. 8.62 chs.,it is a sandstone,10x10x5 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general. The stone is poorly marked and disintegrating rapidly therefore I replace it with an iron post as follows: Set an iron post,3 ft.long,3 ins.in dia.,24 ins. in the ground, for closing cor. of Tps.31 S.,Rs.22 and 23 E.,

Chains

marked on brass cap [illegible]

T 30 S in N half.

R 22 E S 36 in NW.;

R 23 E S 31 in NE.,

T 31 S in S half

R 23 E S 6 in SE.; and

R 22 E S 1 in SW. quadrants; dig pits, 30x24x12 ins. crosswise on each line, E. and W 4 ft and S. of post, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2½ ft. high, S. of cor.

I begin at the standard cor. of Tps. 30 S., Rs. 22 and 23 E.

Note: Before commencing the survey of this line I ascertained that the Standard was out of limits both in alignment and measurement; therfore I determined to resurvey the Standard, as no subdivisions are dependent thereon.

Thence I. run

West, on re-survey line along S. side sec. 36.

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

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

20.00 The south end of an old drift fence bears N. 20° E. about 6.00 chs. The fence bears N. 20° E. from this point.

22.80 Bottom of hollow, in solid sandstone 150 ft. below Tp cor. course SW.

Asc.

39.20 Top of ridge, 140 ft. above hollow, bears N. and S.

Desc.

Difference between measurements of 40.00 chs. by two sets of chainmen, is 8 lks. position of middle point,

By 1st. set 39.96 chs.

By 2nd set 40.04 chs.; the mean of which is

40.00 The old Standard ¼ sec. cor. bears N. 10° E., 151 lks. dist., it is a sandstone, 12x8x3 ins. above ground, in mound of stone, mkd. and witnessed as described by the surveyor

Resurvey 6th Standard Parallel South, Range 22 E.-Continued.

Chains	
	general.
	I destroy the old cor. and set the new cor. at my 40.00 chs. point as follows:-
	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 standard ¼ sec. cor. mkd. on brass cap ¼ S 36 in N half from which
	A pinon pine, 12 ins. dia., bears N. 19° 15' E., 13 lks. dist. mkd. S. C. ¼ S 36 B T.
	A pinon pine, 10 ins. dia., bears N. 85° W., 67 lks. dist. mkd. S C ¼ S 36 B T.
45.30	Bottom of hollow, 30 ft. below ridge, course S.
	Asc. over sandstone slopes.
7100.	Top of ridge, 200 ft. above hollow, bears N. 10° W. and S. 10° E.
	Desc.
	Difference between measurements of 80.00 chs. by two sets of chainmen, is 12 lks.; position of middle point
	By 1st set 79.94 chs.
	By 2nd set 80.06 chs. the mean of which is
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 standard cor. of secs. 35 and 36, mkd. on brass cap,
	T 30 S S35 in NW.
	R 22 E S 36 in NE. quadrants; from which
	A pinon pine, 12 ins. dia., bears N. 25° E., 44 lks. dist. mkd. T 30 S R 22 E S 36 B T.
	A pinon pine, 12 ins. dia., bears N. 48° 45' W., 110 lks. dist. mkd. T 30 S R 22 E S 35 B T.
	The old cor. bears N. 52° 30' E., 73 lks. dist. it is a sandstone, 6x14x14 ins. above ground, in mound of stone, firmly set, and mkd. and witnessed as described by the surveyor general. I destroy the old cor.
	Land, mountainous
	Soil, sandy from 1 to 3 ft. deep, on solid rock.

Resurvey 6th Standard Parallel South,Range 22 E.-Continued.

Chains	
	Timber,cedar and pinon pine.
	Undergrowth,sage brush and shadscale.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	July 24,1911: At this cor.I set off 20°00'N.,on the decl.
	arc;and at 0 h 6 m p.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 south side sec.35.on re-survey line.
	Over mountainous land through heavy timber and scattering
	undergrowth.
	Desc.
9.40	Head of hollow,30 ft.below cor.,course N.30° W.
	Asc.
31.90	Top of ridge,40 ft.above hollow,bears N. and S.
	Desc.
Difference	between measurements of 40.00 chs.by two sets of
	chainmen is 6 lks.position of middle point,
	By 1st set 39.97 chs.
	By 2nd set 40.03 chs.;the mean of which is
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 Standard $\frac{1}{4}$ sec.cor.,mkd.on brass cap $\frac{1}{4}$ S 35 in N half;
	from which
	A pinon pine,12 ins.dia.,bears N.38°15'E.,83 lks.
	dist.,mkd.S C $\frac{1}{4}$ S 35 B T.
	A pinon pine,16 ins.dia.,bears N.23°25'W.,140 lks.
	dist.,mkd. S C $\frac{1}{4}$ S 35 B T.
	The old $\frac{1}{4}$ sec.cor.bears N.55°E.,100 lks.dist.,which is
	sandstone,10x16X3 ins.above ground,mkd.and witnessed as
	described by the surveyor general.I destroy the old cor.
50.00	Begin abrupt descent,bears N.and S.
65.00	Find no trace of old stone mound and flag as desc.by Sur.
	Genl.

Resurvey 6th Standard Parallel South,Range 22 E.-Continued.

Chains

88.80 Begin more abrupt descent over ledges,bears N.80°W.and S. Difference between measurements of 74.71 chs.by two sets of chainmen,is 8 lks.; position of middle point,

By 1st set 74.67 chs.

By 2nd set 74.75 chs.the mean of which is

74.71 East edge of Hart Draw canon,and top of ledge 100 ft.high, bears N.30°E. and S.10°E.

The point for sec.cor.will fall on smooth ledges where it will be impossible to perpetuate the cor. At this point I 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 witness cor.to Standard cor.of secs.34 and 35, mkd.on brass cap

T 30 S S 34 in NW.

W C R 22 E S 35 in NE.quadrants;from which

A pinon pine,8 ins.dia.,bears N.33°20'E., 98 lks. dist..mkd.W C T 30 S R 22 E S 35 B T.

A ledge of rim of canon, bears N.42°15'W.,10 lks. dist..mkd.X B O W C S 34 B T.

80.00 Point for cor.falls in ledges.

Note: It is impossible to chain across Hart Draw canon, and the distance from witness cor.to 80.00 chs.point is not chained.

Land,mountainous.

Soil,sandy 1 to 2 ft.deep underlaid with solid sandstone

Timber,cedar and pinon pine.

Undergrowth,sage brush and shadscale.

Good grass.

Mountainous land,or heavily timbered land,80.00 chs.

July 24, 1911.

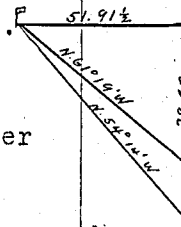
July 25, 1911: At 8 h 6 m a.m.,l.m.t.,I set off 38°09'N., on the lat.arc;19°50'N.,on the decl.arc;and determine a meridian with the solar,at the witness cor.to Standard cor.of secs.34 and 35,which is 5.29 chs.East of the true cor.point.

Resurvey 6th Standard Parallel South, Range 22 E.-Continued.

It is impossible to chain across Hart Draw canon therefore I triangulate west on S.side of sec.34 as follows: In order to get a good place to measure a base I chain East 3.37 chs.from the witness cor. of secs.34 and 35, and after setting a flag on line on west side of canon, I measure a base South,28.40 chs. and also 37.40 chs. from the end of the first base the flag bears N.61°19'W. and from the end of second base the flag bears N.54°14'W. The distance given by these two separate triangulations is as follows:

	log 28.40- 1.4533183		log 37.40 -1.5728716
log tan	61°19' -0.2619285	log tan	54°14' -0.1424632
	log dist 1.7152468		log dist 1.7153348
	dist 51.91 chs.		dist 51.92 chs.

the mean of which is 51.91½ chs. Take from this 8.66 chs. the distance from base line to point for standard cor. of secs.34 and 35, gives



43.25½ West edge of Hart Draw canon, bears N. and S., thence over mesa. I measure west ½ lk.

43.26 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 Standard ¼ sec.cor., mkd.on brass cap T 30 S R 22 E W C ¼ S 34 in N half; from which

A pinon pine, 8 ins.dia., bears N.84°30'W., 95 lks. dist., mkd.W C S C ¼ S 34 B T.

A pinon pine, 5 ins.dia., bears N.42°30'W., 13 lks. dist., mkd.W C S C ¼ S 34 B T.

Note: The topography across Hard Draw canon is approximately as follows:

0.70 Bottom of canon, 200 ft.deep, course SW. in solid rock.

7.70 East canon wall of Hart Draw canon, bears NW and SE.

12.70 Bottom of Hart Draw canon, 500 ft.below edge, course NW. There is a creek 3 lks.wide, 2 ins.deep in bottom.

16.70 West wall of Hart Draw canon, 200 ft.high, bears NW and SE.

Continue ascent over smaller ledges to witness cor.

63.06 West edge of mesa, bears N.20°E. and S.20°W.

Desc.abruptly over ledges.

73.30 Bottom of canon,600 ft.below mesa,course N.20°E.

Asc.

Difference between measurements of 80.00 chs.by two sets of chainmen,is 14 lks.position of middle point

By 1st set 79.93 chs.

By 2nd set 80.07 chs.,the mean of which is

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 standard cor.of secs.33 and 34,mkd.on brass cap

T 30 S S 33 in NW.

R 22 E S 34 in NE.quadrants;from which

A pinon pine,14 ins.dia.,bears N.43°45'E.,42 lks. dist.,mkd.T 30 S R 22 E S 34 B T.

A pinon pine,14 ins.dia.,bears N.26°W.,15 lks. dist.,mkd.T 30 S R 22 E S 33 B T.

Land,mountainous and rolling mesa.

Soil,sandy loam very shallow from 3 ins.to 2 ft.deep underlaid by solid sandstone.

Timber,cedar and pinon pine.

Undergrowth,sage brush and shadscale.

Good grass.

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

Note: No trace of the old Standard or $\frac{1}{4}$ cor.could be found.

July 25,1911: At this cor.I set off 19°48'N.,on the decl. arc;and at 0 h 6 m p.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 re-survey line along S.side of sec.33.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.

Chains

1.30 Ledge, 30 ft. high, bears N. and S.

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

18.50 Bottom of hollow, 50 ft. below ridge, course N.20°E.
Asc.

20.50 Top of ridge, 30 ft. above hollow, bears N. and S.
Desc.

23.50 Bottom of hollow, 60 ft. below ridge, course N.
Asc.

28.00 Top of ridge, 60 ft. abve hollow, bears N. and S.
Desc.

38.70 Bottom of hollow, 20 ft. below ridge, course N.30°E.
Asc.

Difference between measurement of 40.00 chs. by two sets of chainmen is 12 lks.; position of middle point.

By 1st set 39.94 chs.

By 2nd set 40.06 chs.; the mean of which is

40.00 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 33 in N half; from which

A pinon pine, 8 ins. dia., bears N.18°50'E., 48 lks. dist. mkd. S C ¼ S. 33. B T.

A pinon pine, 8 ins. dia., bears N.18°30'W., 53 lks. dist. mkd. S C ¼ S 33 B T.

42.40 Top of ridge, 50 ft. above hollow, bears N. and S.
Desc.

51.80 East edge of box canon; top of ledge, 100 ft. high, bears NE and SW.

53.80 Bottom of box canon, 200 ft. below top, course N.30°E.
Asc.

56.60 West edge of canon, and ledge, 100 ft. high, bears N. and S.

67.60 Top of ascent and east edge of flat ridge, bears N and S., 600 ft. above canon.
Desc. gently.

72.00 West edge of ridge, bears N. and S.
Desc. abruptly over ledges.

79.90 Bottom of hollow, 300 ft. below ridge, course N.

Re-survey 6th Standard Parallel South, Range 22 East, Continued.

Chains	
	Asc.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 16 lks.; position of middle point,
	By 1st set 79.92 chs.
	By 2nd set 80.08 chs.; the mean of which is
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 standard cor. of secs. 32 and 33, mkd. on brass cap
	T 30 S S 32 in NW.
	R 22 E S 33 in NE. quadrants; from which
	A pinon pine, 12 ins. dia., bears N. 28°30' E., 55 lks.
	dist., mkd. T 30 S R 22 E S 33 B T.
	A pinon pine, 6 ins. dia., bears N. 33°10' W., 29 lks.
	dist., mkd. T 30 S R 22 E S 32 B T.
	Land, mountainous
	Soil, sandy from 1 to 2 ft. deep. subsoil, rock.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass
	Mountainous or heavily timbered land, 80.00 chs.

July 25, 1911.

July 26, 1911: At 7 h 6 m a.m., l.m.t., I set off 38°09' N., on the lat. arc; 19°38' N., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 32 and 33.

Thence I run

West, on a re-survey line along S. side sec. 32

Over mountainous land; through heavy timber.

	Asc.
1.80	Top of ridge, 40 ft. above cor., bears N. and S.
	Desc.
15.10	Top of ledge, 100 ft. high, bears N. and SW.
	Desc. abruptly over ledges.
28.60	Bottom of canon, 800 ft. below ridge, course N. 30° E.
	Asc. abruptly over ledges.

Chains	
	Asc. over ledges.
32.50	Top of abrupt ascent and edge of mesa, bears N.20°E. and S. S.20°W. 300 ft. above canon
39.00	Leave mesa, bears N.80°W. and S.80°E.
	Desc. over ledges.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 12 lks.; position of middle point,
	By 1st set 39.94 chs.
	By 2nd set 40.06 chs.; the mean of which is
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 Standard $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 32 in N half; from which
	A cedar, 6 ins. dia., bears N.40°30'E., 38 lks. dist. mkd. S C $\frac{1}{4}$ S 32. B T
	A pinon, pine, 14 ins. dia., bears N.21°W., 9 lks. dist. mkd. S C $\frac{1}{4}$ S 32 B T.
44.80	Bottom of hollow, 100 ft. below ridge, course S.10°E.
	Asc.
47.60	Top of ridge, 30 ft. above hollow, bears N. and S.
	Desc.
49.20	Bottom of canon, 80 ft. below ridge, course S.60°E.
	Asc.
53.00	Enter heavy timber, bears NW and SE.
59.60	Top of ridge, 150 ft. above canon, bears N. and S.
	Desc.
60.50	Leave pine timber, bears N. and S.
65.70	Bottom of same canon, 100 ft. below ridge, course N.70°E.
	Asc.
70.00	Foot of sloping ledge 100 ft. high, bears NE and SW.
72.10	Top of ledge, bears NE & SW
75.10	Foot of sloping ledge, 30 ft. high, bears NE and S.70°W.
78.00	Top of ridge, 500 ft. above canon, bears N. and S.
	Desc.
79.90	Foot of sloping ledge, 40 ft. high, bears NW and SE.
	Difference between measurements of 80.00 chs. by two sets

Chains

of chainmen, is 14 lks. position of middle point,

By 1st set 79.93 chs.

By 2nd set 80.07 chs.; the mean of which is

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 standard cor. of secs. 31 and 32, mkd. on brass cap

T 30 S S 31 in NW.; and

R 22 E S 32 in NE. quadrants; from which

A ledge, 40 ft. high, bears N. 65° 45' E., 15 lks. dist.. mkd. X B O S 32

A pinon pine, 10 ins. bears N. 54° 30' W., 41 lks. dist.. mkd. T 30 S R 22 E S 31 B T.

Land, mountainous.

Soil, sandy loam; 1 to 2 ft. deep.

Timber, cedar and pinon pine and red pine.

No undergrowth. Good grass.

Mountainous or heavily timbered land, 80.00 chs.

July 26, 1911: At this cor. I set off 19° 35' N., on the decl. arc; and at 0 h 6 m p.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 re-survey line on S. side of sec. 31.

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

Desc.

2.90 Head of hollow, 15 ft. below cor., course SE.

Asc.

10.00 Leave timber, bears N. and S.

23.00 Top of ridge, 100 ft. above hollow, bears N. 20° W. and S. 40° E.

Desc.

25.50 Bottom of hollow, 30 ft. below ridge, course SE.

Asc.

34.00 Enter scattering timber, bears N. and S.

35.00 Ledge 10 ft. high, bears NE and SW.

Difference between measurements of 40.00 chs. by two sets

Chains	
	of chainmen, is 6 lks. position of middle point,
	By 1st set, 39.97 chs.
	By 2nd set 40.03 chs. the mean of which is
40.00	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; from which
	A pinon pine, 14 ins. dia., bears N. 44°45'E., 249 lks. dist.. mkd. S C ¼ S 31 B T.
	A pinon pine, 10 ins. dia., bears N. 11°15'W., 195 lks. dist.. mkd. S C ¼ S 31 B T.
60.50	Trail, bears NW and S E.
67.00	Top of main ridge, 100 ft. above hollow, bears N. 20°W. and S. 20° E.
	Desc.
68.50	Head of canon, 30 ft. below ridge, course SW.
	Asc.
	Difference between measurements of 80.00 chs. by two sets of chainmen, is 10 lks.; position of middle point,
	By 1st set 79.95 chs.
	By 2nd set 80.05 chs.; the mean of which is
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 standard cor. of Tps. 30 S., Rs. 21 and 22 E., mkd. on brass cap
	T 30 S in N half;
	R 21 E S 36 in NW.
	R 22 E S 31 in NE. quadrants; from which
	A pinon pine, 14 ins. dia., bears N. 66°40'E., 282 lks. dist.. mkd. T 30 S R 22 E S 31 B T.
	A cedar, 12 ins. dia., bears N. 87°50'W., 350 lks. dist.. mkd. T 30 S R 21 E S 36 B T.
	Note: I have searched diligently for all the old corners but have been unable to find any of them west of the Standard ¼ sec. cor. south side of sec. 35.
	Land, mountainous.
	Soil, sandy loam from 1 to 1½ ft. deep. subsoil, rock.
	Timber, cedar and pinon pine.

Chains

Undergrowth, sage brush.

Good grass for grazing.

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

Note: On account of the rugged nature of the country and the heavy timber, it is impossible to make any test sights on the line just run; and for the same reason neither the secant or tangent methods of running the line could be employed.

July 26, 1911.

Re-survey of 6th Standard Parallel South, through R. 21 E.

July 27, 1911: At 7 h 6 m a.m., l.m.t., I set off 38°09'N., on the lat. arc; 19°25'N., on the decl. arc; and determine a meridian with the solar at the Standard cor. of Tps. 30 S., Rs. 21 and 22 E., described above.

Thence I run

West, on a re-survey line along south side of sec. 36.

Over mountainous land; through dense undergrowth and heavy timber.

Asc.

4.50 Trail, leading to Indian canon, on top of ridge, 20 ft. above cor., bears N. 20°E. and S. 20°W.

Desc.

9.70 Bottom of hollow, 30 ft. below ridge, course S. 20°W.

Asc.

18.25 Top of ridge, 30 ft. above hollow, bears N. and S.

Desc.

20.30 Bottom of hollow, 30 ft. below ridge, course S. 30°W.

Asc.

24.50 Top of ridge, 25 ft. above hollow, bears N. 20°E. and S. 20°W.

Desc.

Chains	
27.50	Bottom of hollow,30 ft.below course S.
	Asc.
31.90	Top of ridge,40 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
	Difference between measurements of 40.00 chs. by two sets of chainmen,is 8 lks.position of middle point,
	By 1st set 39.96 chs.
	By 2nd set 40.04 chs;the mean of which is
40.00	Set an iron post,3 ft.long,1 in.in dia.,21 ins.in the ground,on solid rock,and surrouned by mound of stone, for standard ¼ sec.cor.mkd.on brass cap S C ¼ S 36in N. half.;from which
	A pinon pine,7 ins.dia.,bears N.41°45'E.,98 lks. dist..mkd.S C ¼ S 36 B T.
	A pinon pine,8 ins.dia.,bears N.30°30'W.,89 lks. dist..mkd.S C ¼ S 36 B T.
41.60	Desc.over smooth sandstone slope.,bears N.and S.
46.70	Hollow,100 ft.below ridge,course S.
	Asc.
55.50	Top of ridge,80 ft.above hollow,bears N.10°W.and S.10°E.
	Desc.
62.00	Head of canon,50 ft.below ridge,course S.20°E.
	Asc.
64.30	Top of sloping ledge,70 ft.high,bears NE.and S.20°W.
77.00	Trail on top of ridge,200 ft.above hollow,bears N.20°E. and S.20°W.
	Desc.gently.
	Difference between measurements of 80.00 chs.by two sets of chainmen,is 8 lks.;position of middle point,
	By 1st set 79.96 chs.
	By 2nd set 80.04 chs.;the mean of which is
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for standard cor.of secs.35 and 36,mkd.onbrass cap
	T 30 S S 35 in NW.;and
	R 21 E S 36 in NE.quadrants;from which
	A pinon pine,10 ins.dia.,bears N.51°30'E.,80 lks.

Chains

Mkd. T 30 S R 21 E S 36 B T.

A pinon pine, 8 ins. dia., bears N. 76°15' W., 147 lks. dist.. mkd. T 30 S R 21 E S 35 B T.

Land, mountainous .

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

July 27, 1911: At this cor. I set off 19°22' N., on the decl. arc; and at 0 h 6 m p.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 re-survey line along south side sec. 35 .

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

Desc.

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

17.50 Top of ledge, 100 ft. high, bears N. and S.

22.00 Top of ledge, 300 ft. high, bears N. and S.

36.00 head of canon, 900 ft. below cor., course N. 80° W.

Asc.

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

Desc.

Difference between measurements of 40.00 chs. by two sets of chainmen, is 14 lks.; position of middle point

By 1st set 39.93 chs.

By 2nd set 40.07 chs.; the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. in dia. 12 ins. in the ground, on solid rock, and surrounded with mound of stone, for Standard ¼ sec. cor.. mkd. on brass cap ¼ S 35 in N half; from which

Chains	
	A cedar, 6 ins. dia., bears N. 37° E., 115 lks. dist. mkd. S C ¼ S 35 B T.
	A pinon pine, 5 ins. dia., bears N. 56° W., 54 lks. dist. mkd. S C ¼ S 35 B T.
48.50	Bottom of hollow, 100 ft. below ridge, course NW.
	Asc.
53.69	Top of ridge, 60 ft. above hollow, bears N. 20° W. and S. 20° E.
	Desc.
55.60	Bottom of hollow, 40 ft. below ridge, course N. 20° W.
	Asc.
62.00	Top of ridge, 80 ft. above hollow, bears N. and S.
	Desc.
67.00	Bottom of hollow, 50 ft. below ridge, course N.
	Asc.
76.50	Top of ridge, 50 ft. above hollow, bears N. and S.
	Desc.
78.30	Bottom of hollow, 30 ft. below ridge, course N.
	Asc.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 16 lks. position of middle point,
	By 1st set 79.92 chs.
	By 2nd set 80.08 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 34 and 35, mkd. on brass cap
	T 30 S S 34 in NW.
	R 21 E S 35 in NE. quadrants; from which
	A cedar, 6 ins. dia., bears N. 64° E., 57 lks. dist. mkd. T 30 S R 21 E S 35 B T.
	A sandstone boulder, 6x5x4 ft. bears N. 25° W., 30 lks. dist. mkd. X B C S 34.
	Land, mountainous. very rough.
	Soil, sandy, 1 to 1½ ft. deep.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.

Chains	
	July 27, 1911.
	July 28, 1911: At 7 h 6 m a.m., l.m.t., I set off 38°09'N., on the lat. arc; 19°12'N., on the decl. arc; and determine a meridian with the solar, at the standard cor. of secs. 34 and 35.
	Thence I run
	West, on a re-survey line along the south side of sec. 34.
	Over mountainous land; through scattering timber and scattering undergrowth.
	Asc. along north side of talus from cliffs to the south.
18.90	Top of ridge, 150 ft. above cor., bears N.30°W. and S.30°E.
	Desc. abruptly.
21.50	Note: About 7.00 chs. south of this point is the base of
the	west end of a 300 ft. vertical ledge.
34.00	Foot of abrupt descent, bears N. and S.
	Desc. gently.
36.65	Begin steeper descent, bears N. and S.
39.00	Foot of steep descent, bears N. and S.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 12 lks. position of middle point
	By 1st set 39.94 chs.
	By 2nd set 40.06 chs.; the mean of which is
40.00	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 34 in N half; from which
	A cedar, 8 ins. dia., bears N.72°30'W., 203 lks. dist., mkd. S C ¼ S 34 B T.
	A cedar, 4 ins. dia., bears N.58°30'W., 139 lks. dist., mkd. S C ¼ S 34 B T.
50.00	Foot of mountain, 500 ft. below ridge, bears N. and S.
	Enter rolling land,
54.40	Trail, bears N. and S.
58.25	Wash, 20 lks. wide, 1 ft. deep, course N.30°W.
59.50	Old wagon road, bears N. and S.

Chains	
73.50	Wash, 20 lks. wide, 3 ft. deep, course N.20°W.
	Difference between measurements of 80.00 chs. by two sets of chainmen, is 8 lks., position of middle point,
	By 1st set 79.96 chs.
	By 2nd set 80.04 chs. the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 33 and 34, mkd. on brass cap
	T 30 S S 33 in NW.; and
	R 21 E S 34 in NE. quadrants; dig pits, 24x18x12 ins. E., W., of post, 3 fft; and N. of post, 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
	Land, mountainous and rolling.
	Soil, sandy and clay loam; with clay subsoil.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush and shadscale.
	Good grass for grazing.
	Mountainous land, 80.00 chs.
	Note: The old standard cor. of secs. 33 and 34, which is a sandstone, 12x18x15 ins. above ground, mkd. and witnessed as described by the surveyor general, bears S.0°04'E., 17.72 chs. dist.; I. destroy all traces of this cor.
	West, on a re-survey line along the south side of secs. 33
	Over rolling land through dense sage brush and shadscale.
	Desc. gently.
23.90	Old road, bears N.20°W. and S.20°E.
30.00	Desc. into canon, bears N.20°W. and S.20°E.
33.70	East bank of Indian creek, 8 ft. high, bears NW and S.
34.00	Center of Indian creek, 60 lks. wide, 3 ins. deep, course NW.
34.30	West bank of Creek, 4 ft. high, bears NW and S.
	Asc. gently.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point,
	By 1st set 39.97 chs.
	By 2nd set 40.03 chs.; the mean of which is

Re-survey 6th Standard Parallel South, through Range 21 E.

Chains	
40.00	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 33 in N half; from which A cottonwood, 24 ins. dia., bears N. 75° E., 314 lks. dist.. mkd. S C ¼ S 33 B T. No other trees within limits; dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
55.50	Left bank of Indian Creek, 10 ft. high, bears N. 70° E. and S. 80° W.
58.75	Same bank of creek, 10 ft. high, bears N. and S. 80° E.
60.80	East bank of wash from Davis canon, bears N. and S. 20° W. 8 ft. high.
64.00	West bank of same wash, 2 ft. high, bears N. and S. 20° W.
69.85	Old fence crosses canon, bears N. 42° W. and S. 42° E.
75.30	Trail, bears N. and S.
	Leave Indian Canon, bears N. 20° W. and S. 20° E.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point,
	By 1st set 79.98 chs.
	By 2nd set 80.02 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground, on solid rock, and surrouned by mound of stone, for standard cor. of secs. 32 and 33, mkd. on brass cap T 30 S S 32 in NW.; and R 21 E S 33 in NE. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Land, rolling and
	Soil, on east side of Indian creek is clay with a little sand sub soil clay; and on west side of Indian creek, soil is sandy.
	Undergrowth, sage and shadscale.
	A few scattering cottonwoods along Indian Creek.
	Good grass.
	Land covered with dense undergrowth, 80.00 chs.
	July 28, 1911: At this cor. I set off 19° 08' N., on the decl.

Chains	
	arc; and at 0 h 6 m p.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 re-survey line along south side sec. 32. Over rolling foot hills through dense undergrowth. Asc. gently.
7.00	Wash, 100 lks. wide, 3 ft. deep, course S.70°E.
	Asc.
16.50	Top of ridge, 40 ft. above hollow, bears NW and SE.
	Desc. gently.
21.00	Bottom of hollow, 30 ft. below ridge, course S.20°E.
	Asc.
23.00	Top of ridge, 20 ft. above hollow, bears N.20°W. and S.20°E.
	Desc.
25.60	Bottom of hollow, 20 ft, below ridge, course S.30°E.
	Asc.
37.00	Wash, 20 lks. wide, 4 ft. deep, course S.30°E.
	Asc. gently.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 8 lks.; position of middle point,
	By 1st set 39.96 chs.
	By 2nd set 40.04 chs.; the mean of which is
40.00	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 32 in N half; dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
50.40	Wash, 30 lks. wide, 4 ft. deep, course S.70°E.
60.50	Bend in same wash, course N.80°E.
65.00	Enter scattering timber, bears N. and S.
72.00	Begin abrupt ascent, bears NW and SE.
75.00	Begin more abrupt ascent, bears NW and SE.
	Difference between measurements of 80.00 chs. by two sets of chainmen, is 10 lks. position of middle point,
	By 1st set 79.95 chs.

. Re-survey 6th Standard Parallel South, through Range 21 E.-Contd.

Chains	
	By 2nd set 80.05 chs. the mean of which is
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 standard cor. of secs. 31 and 32, mkd. on bras cap
	T 30 S S 31 in NW.
	R 21 E S 32 in NE. quadrants; from which
	A cedar, 5 ins. dia., bears N. 6°45' E., 126 lks.
	dist.. mkd. T 30 S R 21 E S 32 B T.
	A cedar, 5 ins. dia:, bears N. 33°16' W.; 275 lks:
	dist.. mkd. T 30 S R 21 E S 31 B T.
	Land, rolling and mountainous.
	Soil, sandy from 1 to 2 ft. deep, subsoil, rock:
	Timber, cedar and pinon pine .
	Undergrowth, sage and shadscale..
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth,
	80.00 chs.
	West, on a re-survey line along south side of sec. 31.
	Over rough mountainous land; through scattering timber and undergrowth.
	Asc. abruptly over large boulders .
1.70	Ledge, 20 ft. high, bears NW and SE.
15.00	Top of steep ascent and edge of mesa and ledge 30 ft. high, bears N. 30°W. and S. 30°E.
	Thence over mesa.
17.00	Leave mesa, bears N. 80°E. and S. 70°W.
	Desc. over ledges and boulders.
26.25	Bottom of hollow, 100 ft. below mesa, course N.
	Asc.
30.50	Ridge, 50 ft. high, bears N. and S.
	Desc.
32.70	Begin steeper descent, bears NE and SW.
37.00	Bottom of hollow, 90 ft. below ridge, course N.
	Asc.

Re-survey 6th Standard Parallel South, through Range 21 E. Contd.

Chains	
	Difference between measurements of 40.00 chs. by two sets of chainmen is 12 lks. position of middle point,
	By 1st set 39.94 chs.
	By 2nd set 40.06 chs.; the mean of which is
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 Standard $\frac{1}{4}$ sec. cor. . mkd. on brass cap $\frac{1}{4}$ S 31 in N half from which
	A cedar, 12 ins. dia., bears N. 41°15'E., 218 lks. dist. . mkd. S C $\frac{1}{4}$ S 31 B T.
	A cedar, 5 ins. dia., bears N. 47°30'W., 32 lks. dist. . mkd. S C $\frac{1}{4}$ S 31 B T.
46.20	Top of ridge, 80 ft. above holow, bears N. and S.
	Desc.
59.00	Foot of abrupt descent and ledges, bears NE and SW.
63.00	Bottom of hollow, 60 ft. below ridge, course N.
	Asc. gently.
67.00	Wash, 10 lks. wide, 3 ft. deep, course N. 10°E.
76.00	Top of ridge, 20 ft. above wash, bears N. 20°E. and S. 20°W.
	Desc.
78.60	Bottom of hollow, 15 ft. below ridge, course N. 20°E.
	Asc.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks. position of middle point,
	By 1st set 79.95 chs.
	By 2nd set 80.05 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of Tps. 30 S., Rs. 20 and 21 E., mkd. on brass cap
	T 30 S in N half;
	R 20 E S 36 in NW.; and
	R 21 E S 31 in NE. quadrants; from which
	A cedar, 15 ins. dia., bears N. 6°15'E., 120 lks. dist. . mkd. T 30 S R 21 E S 31 B T.
	A cedar, 6 ins. dia., bears N. 12°45'W., 180 lks. dist. . mkd. T 30 S R 20 E S 36 B T.

Re-survey 6th Standard Parallel South, through Range 21 E.-Contd.

Chains

Note; The north Six Shooter Peak, bears N.8°30'E. about 60.00 chs dist..

The old ¼ sec. cor. on south side sec. 33 and the old standard cor. of secs. 32 and 33, were found and destroyed but the distances from my line were so great that no distances were taken to them. No other corners were found; and it is evident from the topography that the western two miles were never run.

Land, mountainous.

Soil, sandy and clay loam mixed with rock, subsoil rock.

Timber, cedar and pinon pine.

Undergrowt , sage brush.

mountainous land, 80.00 chs.

July 28, 1911.

July [illegible], 1911.

General description.

Through range 22 E. this line passes over a high mountainous mesa country cut by Hart Draw and other numerous small canons, very rugged in their nature. The township to the north of this line is cut by the Hard Draw canon and numerous smaller canons breaking into it from the north and south And it is almost impossible to cross Hart Draw even on foot in this entire township. It is very rough and would be almost impossible to survey; unless it be a few secs. in the eastern and northeastern parts. The township to the south of this line is described in its general description. Through range 21 east this line descends from the high mountain mesa country into the valley or rolling land in the bottom of Indian canon, extending on into a lower

Chains

mesa to the west.The township to the south of this line is described in the general description of that township. Tp.30 S.,R.21 E. lies mostly in the valley of the Indian canon bottom.The eastern two tiers of secs.extends partly onto the high mountainous mesa country to the east which is very rugged. There is a great deal of land in this township that is susceptible to irrigation and cultivation. It should be subdivided.

Geo. W. Stewart

U.S. Transitman.

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FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final 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, 191 4.

The foregoing field notes of the resurvey of the Sixth Standard Parallel South, through Ranges 21 and 22 East of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart under his 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.

Thomas Hall
U. S. Surveyor General.

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

_____
U. S. Surveyor General.

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BOOK A-387

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 31 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, 1911. *191*, *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,* April 20, *191*, *pursuant to authority contained in the Act of Congress dated* *191*

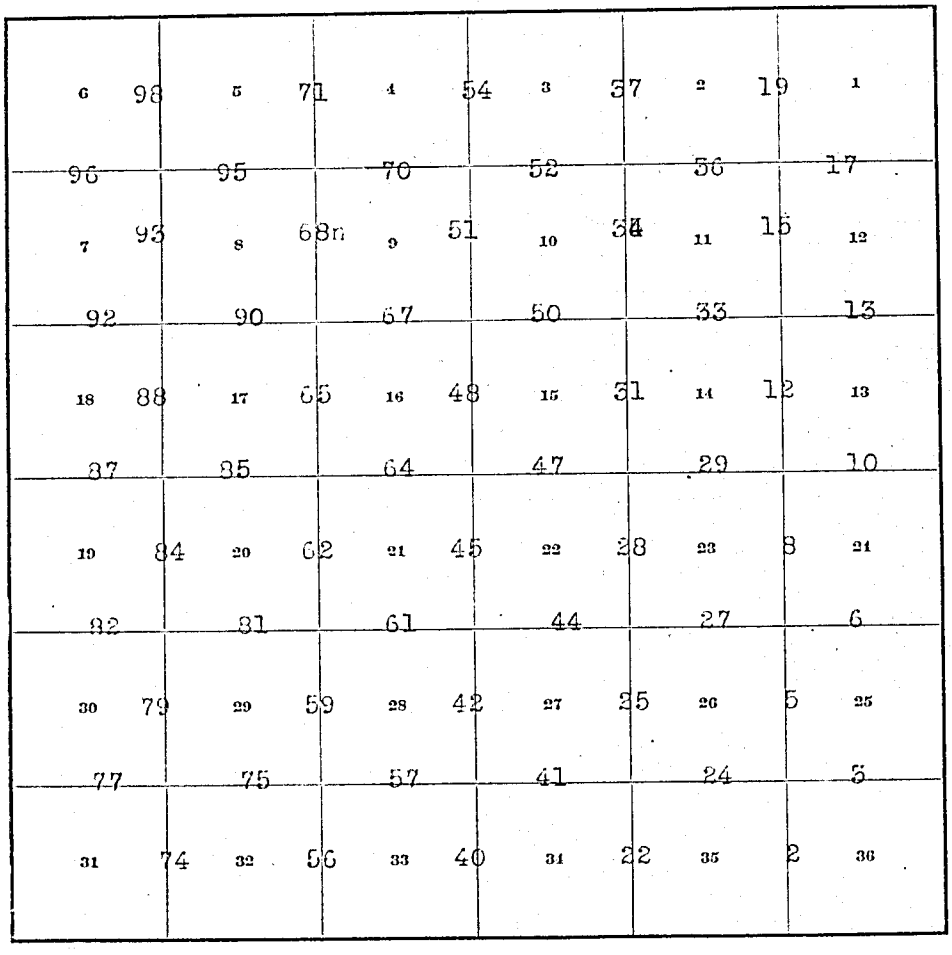
Survey commenced August 3, *1911.*

Survey completed August 29. *1911.*

BOOK A-387

INDEX DIAGRAM.

Township 51 South, *Range* 22 East, S.L.B.& M.



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Survey commenced August 3,1911, 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 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,April 24, 1911.

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

At the cor.of secs.1,2,35,and 36,latitude 38°04'17"N., longitude 109° 30'16"W., I set off 38°04' on the lat.arc, 17°38'N.,on the decl. arc;and at 4h 6m p.m., l.m.t.,I determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground,5.00 chs.N. of cor.

At 10h 46m p.m.,l.m.t.,I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point in the line thus determined on a wooden plug set in the ground 5.00 chs.N. of the cor.

August 3, 1911

August 4,1911: At 6h 30m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°29'West, and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor.;this mark falls 0.35 ins.east of the meridian established by the solar.

At 8h 06m a.m.,l.m.t.,I set off 38°04'N.,on the lat.arc; 17°28'N.,on the decl.arc;and mark a point in the meridian established by the solar,by a cross on the stone already set 5.00 chs.N.of the cor.; this mark falls 0.29 ins.

Chains	
	east of the meridian established by Polaris observation. The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about 0'18"west and 0'15"east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the meridian at 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,heretofore described on S.bdy. of Tp., I run
	N. 0°01'W.,bet.secs.35 and 36
	Over mountainous land;through heavy timber.
	Desc.
.50	Desc. over ledges, bears N.20°W. and S.20°E.
5.00	Bottom of canon,100 ft.below cor.,course N.20°W.
	Asc.
7.00	Top of spur, 75 ft.above canon, bears N.10°W.and S.10°E.
	Desc.over ledges.
15.00	Bottom of canon, 50 ft.below ridge,course N.25°W.
	Leave ledges, bears same.
	Asc.
18.50	Top of spur, 40 ft.above canon, bears E.and W.
	Desc.
19.80	Bottom of hollow, 40 ft.below spur,course S.80°W.
	Asc.
39.00	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock, and surrounded by mound of stone, for ¼ sec.cor.,mkd.on brass cap ¼ S 35 in W half and S 36 in E half; from which
	A cedar,14 ins.dia.,bears S.46°E., 50 lks.

Chains	
	dist., mkd. $\frac{1}{4}$ S 36 B T
	A cedar, 16 ins.dia.,bears S.26°30'W.,42 lks.
	dist., mkd. $\frac{1}{4}$ S 35 B T
50.00	Bottom of hollow, 40 ft.below ridge,course W.
	Asc.
59.50	Top of ridge, 50 ft.above hollow,bears N.80°E.and S.80°W.
	Desc.
69.30	Bottom of hollow,40 ft.below ridge,course S.60°W. Asc.
77.50	Top of ridge, 60 ft.above hollow, bears E.and W.
	Desc.
80.00	Set an iron post, 3 ft.long, 2 ins.in dia.,24 ins.in the ground,for cor.of secs.25,26,35,and 36;mkd.on brass cap
	T.31 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 pinon pine,8 ins.dia.,bears N.51°34'E., 29 lks.
	dist., mkd.T 31 S R 22 E S 25 B T
	A pinon pine, 8 ins.dia.,bears S.37°E.,101 lks.
	dist., mkd.T 31 S R 22 E S 36 B T
	A pinon pine,6 ins.dia.,beare S.16°15'W.,23 lks.
	dist., mkd.T 31 S R 22 E S 35 B T
	A pinon pine,10 ins.dia.,bears N.66°W., 38 lks.
	dist., mkd.T 31 S R 22 E S 26 B T
	Land, mountainous.
	Soil, sandy loam;about 2 ft.to 5 ft.deep,underlaid by solid sandstone.
	Timber, cedar and pinon pine.
	Good grass.
	Mountainous land,or land covered with heavy timber, 80.00 chs.
	August 4,1911: At this cor.I set off 17°25'N.,on the decl. arc;and at 0h 6m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 38°05'N., which is the proper lat.nearly.

Chains

East, on a random line bet.secs.25 and 36

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

80.02 Intersect E.bdy.of Tp.,1.10 chs.South of the $\frac{1}{4}$ sec.cor.on the west side of sec.31,which is a sandstone 12x8x3 ins. above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

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

T 31 S in N half

C C R 23 E S 31 S 30 in E half

R 22 E S 25 in NW.; and

S 36 in SW quadrants;from which

A pinon pine,12 ins.dia.,bears S.18°W.,150 lks. dist.,mkd. T 31 S R 22 E S 36 B T

A pinon pine,10 ins.dia.,bears N.67°W.,25 lks. dist.,mkd. T 31 S R 22 E S 25 B T

I destroy all marks on old cor.of secs.25,30,31,and 36, pertaining to secs.25 and 36. Thence I run

West, on a true line bet.secs.25 and 36

Over mountainous land; through heavy timber. Asc.

11.70 Top of abrupt ascent,leave heavy timber and enter dense undergrowth,bears N.and S.

40.01 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground for $\frac{1}{4}$ sec.cor.,mkd.on brass cap $\frac{1}{4}$ S 25 in N half and S 36 in S half;dig pits 18x18x12 ins.E.and W.of post 3 ft.dist., and raise a mound of earth,3½ ft.base,1½ ft. high,N.of cor.

55.00 Begin more abrupt ascent,bears N.and S.

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

61.50 Top of ridge,250 ft.above closing cor.,bears N.20°E. and S.20°W.

Desc.

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

80.02 The cor. of secs.25,26,35 and 36.

Land, mountainous.

Chains	
	Soil, sandy loam; 2 ft.to 10 ft.deep.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass.
	Mountainous or heavily timbered land,or land covered with dense undergrowth, 80.02 chs.
	August 4, 1911
	August 5,1911: At 8h 6m a.m., l.m.t., I set off 38° 05'N. on the lat.arc;17°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,and scattering undergrowth.
	Desc.
3.00	Bottom of hollow,30 ft.below sec.cor., course W.
	Asc.
8.60	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
24.00	Begin abrupt descent, bears N.80°E. and S.80°W.
25.50	Bottom of hollow,100 ft.below ridge,course N.70°W.
	Asc.
37.40	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 $\frac{1}{4}$ sec.cor.,mkd.on brass cap $\frac{1}{4}$ S 26 in W half and S 25 in E half;from which
	A pinon pine,10 ins.dia.,bears S.31°E.,27 lks. dist.,mkd. $\frac{1}{4}$ S 25 B T
	A pinon pine,10 ins.dia.,bears S.16°W.,57 lks. dist.,mkd. $\frac{1}{4}$ S 26 B T
41.30	Bottom of hollow, 60 ft.below ridge,course W.
	Asc.

Chains	
42.50	Top of abrupt ascent, bears E. and W.
52.20	Ascend more abruptly,bears N.70°E. and S.70°W.
54.25	Top of ridge, 50 ft.above hollow, bears E. and W.
	Desc.
60.00	Begin more abrupt descent, bears N.30°E. and W.
76.80	Bottom of hollow,100 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.23,24,25,and 26,mkd.on brass cap
	T 31 S S 23 in NW
	R 22 E S 24 in NE
	S 25 in SE.; and
	S 26 in SW quadrants;from which
	A pinon pine,10 ins.dia.,bears N.62°30'E.,199 lks. dist., mkd.T 31 S R 22 E S 24 B T
	A cedar,12 ins.dia.,bears S.70°15'E.,262 lks. dist.,mkd. T 31 S R 22 E S 25 B T
	A pinon pine,12 ins.dia.,bears S.10°45'W.,148 lks. dist.,mkd. T 31 S R 22 E S 26 B T
	A pinon pine,12 ins.dia.,bears N.77°30'W.,176 lks. dist.,mkd. T 31 S R 22 E S 23 B T
	Land, mountainous.
	Soil,sandy loam;from 1 to 4 ft.deep. Subsoil,sandstone.
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Undergrowth,sage brush.
	Mountainous or heavily timbered land,80.00 chs.
	August 5,1911: At the noon hour the sky is overcast and solar observations are impossible.

East on a random line bet. secs. 24 and 25

40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.90	Intersect E.bdy.of Tp.82 lks. S.of the $\frac{1}{4}$ sec.cor.on the W.side of sec.30;which is a sandstone,8x12x4 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

Chains	
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.24 and 25,mkd.on brass cap T 31 S in N half C C R 23 E S 30 S 19 in E half R 22 E S 24 in NW.; and S 25 in SW.quadrants;from which A pinon pine,10 ins.dia.,bears S.28°W.,97 lks. dist.,mkd.T 31 S R 22 E S 25 B T A pinon pine,10 ins.dia.,bears N.68°W.,75 lks. dist.,mkd.T 31 S R 22 E S 24 B T I destroy all marks on old cor.of secs.19,24,25 and 30, pertaining to secs.24 and 25. Thence I run West on a true line bet.secs.24 and 25 Over mountainous land;through heavy timber. Asc.
3.50	Top of steep ascent, 25 ft.above sec.cor.,bears N.and S. Leave timber and enter dense undergrowth,bears N.and S.
6.20	Bottom of hollow, 15 ft.below steep ascent,course N. Asc.
24.80	Top of ridge,100 ft.above hollow,bears N.and S. Desc.
27.70	Descend abruptly,bears N.20°E. and S.20°W.
30.80	Bottom of hollow,100 ft.below ridge,course N.20°E. Asc.over ledges.
39.10	Top of abrupt ascent,bears N.and S.,150 ft.above canon.
39.95	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 $\frac{1}{4}$ sec.cor.,mkd.on brass cap $\frac{1}{4}$ S 24 in N half and S 25 in S half; from which A pinon pine,10 ins.dia.,bears N.11°45'E.,28 lks. dist.,mkd. $\frac{1}{4}$ S 24 B T A pinon pine,10 ins.dia.,bears S.24°30'E.,39 lks. dist.,mkd.$\frac{1}{4}$ S 25 B T
48.50	Top of ridge,250 ft.above hollow,bears N.and S. Desc.over ledges.
64.50	Begin more abrupt descent,bears N. and S.

Chains	
32.50	Foot of abrupt descent, bears N. and S.
74.50	Descent abrupt, bears N. and S.
76.50	Foot of abrupt descent, bears N. and S.
79.90	The cor. of secs.23,24,25, and 26.

Land, mountainous.

Soil, sandy loam from 1 to 3 ft.deep, on solid rock.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.90 chs.

August 5, 1911

August 7, 1911: At 7h 6m a.m., l.m.t., I set off 38° 06' N., on the lat. arc; 16°40'N., on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 23,24,25, and 26.

Thence I run

N. 0° 01'W., bet.secs.23 and 24

Over mountainous land; through heavy timber and scattering undergrowth.

	Asc.
1.80	Top of ridge, 20 ft.above sec.cor., bears E. and W.
	Desc.
2.90	Wash, 50 lks.wide, 10 ft.deep, course W.
7.30	Desc.abruptly, bears N.80°E. and S.80°W.
9.30	Bottom of hollow, 60 ft. below ridge, course W.
	Asc.
12.00	Top of abrupt ascent, bears N.80°W. and S.80°E.
14.50	Top of ridge, 60 ft.above hollow, bears N.70°E. and S. 70°W.
	Desc.
23.80	Bottom of hollow, 40 ft.below ridge,course N.60°W.
	Asc.

Chains	
25.50	Top of ridge, 30 ft.above hollow, bears E. and W.
	Desc.
31.20	Bottom of hollow,30 ft.below ridge,course S.60°W.
	Asc.
35.00	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
38.00	Bottom of hollow,40 ft.below ridge,course W.
	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 23 in W half and S 24 in E half;from which
	A pinon pine, 8 ins.dia.,bears N.19°E.,22 lks. dist.,mkd. $\frac{1}{4}$ S 24 B T
	A pinon pine,12 ins.dia.,bears N.76°W.,21 lks. dist., mkd.$\frac{1}{4}$ S 23 B T
45.00	Top of ridge,30 ft.above hollow,bears E.and W.
	Leave heavy and enter scattering timber.
	Desc.
51.50	Bottom of hollow,30 ft.below ridge, course N.70°W.
	Asc.
62.00	Top of ridge,30 ft.above hollow,bears N.40°W. and S.40°E.
	Desc.
66.80	Desc.abruptly over ledges,bears N.20°W.and S.70°E.
79.80	Bottom of Hart Draw Canon,150 ft.below ridge,course N.60°W.
	Asc.abruptly.
80.00	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 cor.of secs.13,14,23 and 24,mkd.on brass cap
	T 31 S S 14 in NW
	R 22 E S 13 in NE
	S 24 in SE.; and
	S 23 in SW. quadrants; from which
	A cedar,8 ins.dia.,bears N.76°E.,40 lks. dist., mkd. T.31 S R 22 E S 13 B T

Sub. T.31 S.; R. 22 E.- Continued

Chains	
	A cedar,16 ins.dia.,bears S.70°15'E.,138 lks. dist.,mkd. T 31 S R 22 E S 24 B T
	A cedar,18 ins.dia.,bears S.46°W.,259 lks.dist., mkd. T 31 S R 22 E S 23 B T
	A pinon pine,12 ins.dia.,bears N.57°W.,144 lks. dist., mkd.T 31 S R 22 E S 14 B T
	Land, mountainous.
	Soil, sandy loam;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, 80.00 chs.
	August 7,1911: At this cor.I set off 16°36'N.,on the decl.arc; and at 0h 6m p.m., l.m.t.,I 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. 13 and 24
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.02	Intersect E.bdy.of Tp.,68 lks.S.of the $\frac{1}{4}$ sec.cor.on W. side of sec .19,which is a sandstone 8x12x4 ins.above ground,firmly set,and mkd.as described by the Surveyor General.
	Set an iron post, 3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.13 and 24,mkd.on brass cap
	T 31 S in N half
	C C R 23 E S 19 S 18 in E half
	R 22 E S 13 in NW.; and
	S 24 in SW.quadrants; from which
	A pinon pine,10 ins.dia.,bears N.26°30'W.,110 lks.dist.,mkd.T 31 S R 22 E S 13 B T
	No other trees within limits;and raise a mound of stone, 2 ft.base,1½ ft.high, W. of cor.
	I destroy all marks on old cor.of secs.13,18,19 and 24, pertaining to secs.13 and 24.
	Thence I run

Chains	
	West on true line bet.secs.13 and 24
	Over mountainous land; through scattering timber and dense undergrowth.
	Asc. gently.
27.50	Begin more abrupt ascent, bears N. and S.
29.50	Top of ridge, 100 ft.above sec.cor., bears N. and S.
	Desc.abruptly.
	Enter heavy timber, bears N. and S.
37.30	Foot of abrupt descent, bears N. and S.
40.01	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 $\frac{1}{4}$ sec.cor.,mkd.on brass cap $\frac{1}{4}$ S 13 in N half and S 24 in S half; from which
	A cedar,14 ins.dia.,bears N.36°15'E.,273 lks. dist., mkd. $\frac{1}{4}$ S 13 B T
	A pinon pine,12 ins.dia.,bears S.55°E.,256 lks. dist., mkd. $\frac{1}{4}$ S 24 B T
45.00	Desc. abruptly,bears N.and S.
47.10	Bottom of canon, 150 ft.below ridge, course S.30°W.
	Asc.
50.00	Top of abrupt ascent, bears N.30°E. and S.30°W.
	Thence over flat ridge.
56.00	Leave ridge, bears N. and S. Desc.
60.00	Foot of abrupt descent,100 ft.below ridge,bears N.and S.
61.80	Wash,20 lks.wide,5 ft.deep,course S.10°W.
69.00	Begin abrupt descent over ledges,bears N.80°W.and S.80°E.
80.02	The cor.of secs.13,14,23 and 24.
	Land, mountainous.
	Soil, sandy loam; from 1 to 3 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth, 80.02 chs.
	August 7, 1911

Sub. T. 31 S., R. 22 E.- Continued

Chains	
	August 8,1911:At 7 h 6 m a.m., l.m.t., I set off 38°07'N. on the lat.arc;16°24'N.,on the decl.arc;and determine a meridian with the solar at the cor.of secs.13,14,23 and 24.
	Thence I.run
	N. 0°01'W. bet.secs.13 and 14
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
.20	Foot of ledge, bears E. and W.
1.00	Top of ledge, 80 ft.above sec.cor.,bears NW. and E.
	Asc.gently.
10.00	Begin abrupt descent,bears N.40°E. and S.40°W.
13.40	Bottom of canon,60 ft.below ridge,course S.60°W.
	Asd.
15.75	Leave timber,bears E. and W.
22.40	Begin more abrupt ascent, bears E. and W.
23.00	Top of ledge, 50 ft.high,and north edge of canon,bears E. and W.
	Asc.gently.
40.00	Set an iron post, 3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 14 in W half and S 13 in E half; and dig pits 18x18x12 ins.N.and S. of post, 3 ft.dist.; and raise a mound of earth, 3½ ft. base, 1½ ft.high, W. of cor.
68.00	Top of ridge,250 ft.above canon,bears N.60°W.and S.60°E.
	Enter heavy timber,bears E. and W.
	Desc.
73.00	Bottom of hollow,50 ft.below ridge,course S.70°E.
	Asc.
78.30	Top of smooth sandstone ridge,100 ft.above hollow,bears N.70°E. and S.70°W.
	Desc.
80.00	Falls on smooth sandstone cor.cannot be set,therefore I mark a cross at the exact point of secs.11,12,13 and 14, and at

Chains	
80.60	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 31 S S 11 in NW
	W C R 22 E S 12 in NE
	S 13 in SE.; and
	S 14 in SW. quadrants;from which
	A pinon pine,8 ins.dia.,bears N.61°E.,105 lks.
	dist.,mkd.W C T 31 S R 22 E S 12 B T
	A pinon pine,6 ins.dia.,bears S.39°W.,188 lks.
	dist.,mkd.W C T 31 S R 22 E S 14 B T
	A pinon pine,10 ins.dia.,bears N.67°30'W.,9 lks.
	dist.,mkd.W C T 31 S R 22 E S 11 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 loam about 2 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.
	August 8,1911: At this cor.I set off 16°19'N. on the decl. arc; and at 0h 6m.p.m., l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°07'N.,which is the proper lat.nearly.
	From true cor.point of secs.11,12,13 and 14, I run
	East on a random line bet. secs.12 and 13
40.00	Set temp.¼ sec.cor.
80.08	Intersect E.bdy.of Tp. 50 lks.S.of the ¼ sec.cor.on W.side of sec.18,which is a sandstone 10x20x4 ins.above ground, firmly set,and mkd.and witnessed as described by the surveyor general.
	Set an iron post, 3 ft.long,2 ins.in dia.,24 ins.in the

Sub. T.31 S., R. 22 E.- Continued

Chains	
	ground,for closing cor.of secs.12 and 13,mkd.on brass cap
	T 31 S in N half
	C C R 23 E S 18 S.7 in E half
	R 22 E S 12 in NW
	S 13 in SW. quadrants; from which
	A cedar,8 ins.dia.,bears S.82°45'W.,84 lks.dist.,
	mkd. T 31 S R 22 E S 13 B T.
	I destroy all marks on old cor.of secs.7,12,13, and 18,
	pertaining to secs.12.and.13.
	No other trees within limits;raise a mound of stone,2 ft.
	base, 1½ ft.high,W.of.cor.
	Thence I run
	West, on a true.line bet.secs.12 and 13
	Over mountainous land;through dense undergrowth.
	Asc.
1.00	Top of ridge,20 ft.above sec.cor.,bears N.and S.
	Desc.
5.50	Wash, 200 lks.wide,15 ft.deep,course S.30°W.
25.00	Bottom of hollow,80 ft.below ridge;course N.80°W.
	Asc.
33.00	Top of ridge, 75 ft.above hollow, bears N.20°W. and S.20°
	E. Desc.
34.10	Bottom of hollow, 30 ft.below ridge,course N.20°W.
	Asc.
40.04	Set an iron post,3 ft.long,1 in.in dia.,28 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 cedar, 6 ins.dia.,bears N.37°10'W.,278 lks.
	dist., mkd. ¼ S 12 B T
	A pinon pine,12 ins.dia.,bears S.30°03'W.227 lks.
	dist., mkd. ¼ S 13 B T
41.80	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
44.00	Bottom of hollow,30 ft.below ridge,course N.30°E.
	Asc.
50.00	Top of ridge,30 ft.above hollow,bears N.and S.

Sub. T. 31 S. R 22 E.

Chains.	
	Descend.
52.30	Bottom of hollow, 40. ft. below ridge, course N.
	Ascend.
56.40	Top of ridge, 40. ft. above hollow, bears N10°E. and S10°W.
	Descend.
63.00	Descend abruptly over ledges, bears N10°E. and S20°W.
65.30	Bottom of canon, 80 ft. below ridge, course N10°E.
	Ascend.
68.70	Top of ridge, 90 ft. above hollow, bears N40°E. and S 40.°W.
	Descend.
70.00	Bottom of hollow, 30 ft. below ridge, course N40°E.
	Ascend.
73.00	Top of ridge, 50. ft. above hollow, bears N10°E. and S10.°W.
	Descend.
75.00	Bottom of hollow, 20 ft. below ridge, course N.
	Ascend.
78.50	Top of ridge, 40 ft. above hollow, bears N. and S.
	Descend.
80.08	The cor. of secs. 11, 12, 13 and 14, (true cor.point) 60 lks.S.of witness cor.
	Land, mountainous.
	Soil, sandy loam; 2nd rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.08 chs.
	August 8, 1911.

August 9, 1911. At 7h 6m a.m., l.m.t., I set off 38°07'N., on the lat. arc; 16°07'N. on the decl arc; and determine a meridian with the solar at the cor. of secs. 11, 12, 13 and 14. (True cor. point)

Thence I run

N 0°01'W., bet. secs. 11 and 12.

Over mountainous land; through heavy timber.

Chains.	
	Descend.
5.00	Foot of steep descent, bears E. and W.
10.20	Begin descent over ledges, bears N70°W and S70°E.
19.30	Bottom of canon, 400 ft. below cor., course W.
	Ascend.
20.50	Top of abrupt ascent, bears E. and W.
33.00	Top of ridge, 75 ft. above hollow, bears N30°E. and S30°W.
	Descend.
35.50	Bottom of hollow, 60 ft. below ridge, course S60°W.
	Ascend.
36.00	Top of ridge, 60 ft. above hollow, bears N60°E. and S60°W.
	Descend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia. 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 11 in W half and S 12 in E half; from which A cedar, 10 ins. dia., bears S57°E., 32 lks. dist., marked $\frac{1}{4}$ S 12 BT. A pinon pine, 20 ins. dia., bears S81°15'W., 71 lks. dist., marked $\frac{1}{4}$ S 11 BT.
68.00	Top of ridge, 150 ft. above hollow, bears N60°W And S60°E.
	Leave heavy and enter scattering timber, bears E. and W.
	Desdend.
69.90	Trail, bears N20°E and S20°W.
80.00	Set an iron post, 3 ft. long 2 ins. dia. 24 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked on brass cap T 31 S S 2 in NW R 22 E S 1 in NE S 12 in SE.; and S 11 in SW quadrants; from which A pinon pine, 12 ins. dia., bears N26°30'E. 311 lks., dist., marked T 31 S R 22 E S 1 BT A cedar, 5 ins. dia. bears S56°E, 121 lks. dist., marked T 31 S R 22 E S 12 BT. A pinon pine, 12 ins. dia., bears S77°30'W., 303 lks., dist., marked T 31 S R 22 E S 11 BT. A pinon pine, 12 ins. dia., bears N74°30'W. 103 lks. dist. marked T 31 S R 22 E S 2 BT.

Chains	
	Land, mountainous.
	Soil, sandy loam; 2nd rate,from 1 to 3 ft.deep.
	Timber, cedar and pinon pine.
	Good grass.
	Mountainous or heavily timbered land,80.00 chs.
	August 9,1911: At this cor.I set off 16°02'N. on the decl. arc;and at 0 h 6 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°08'N.,which is the proper lat.nearly.
	East on a random line bet.secs. 1 and 12
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.12	Intersect E.bdy. of Tp.76 lks.S.of the $\frac{1}{4}$ sec.cor.on W. side of sec.7,which is a sandstone 8x12x5 ins.above ground;firmly set,and mkd. and witnessed as described by the Surveyor General.
	Set an iron post, 3 ft.long,2 ins.in dia.,24 ins.in the ground,for closing cor.of secs.1 and 12,mkd.on brass cap
	T 31 S in N half
	C C R 23 E S 7 S 6 in E half
	R 22 E S 1 in NW.; and
	S 12 in SW. quadrants;from which
	A pinon pine,14 ins.dia.,bears S.15°30'W.,55 lks. dist.,mkd.T 31 S R 22 E S 12 B T
	A pinon pine,12 ins.dia.,bears N.50°45'W.,143 lks. dist.,mkd.T 31 S R 22 E S 1 B T
	I destroy all marks on old cor.of secs.1,6,7,and 12,pertaining to secs.1 and 12.
	Thence I run
	West, on true line bet.secs.1 and 12
	Over mountainous land; through heavy timber. Asc.
8.70	Top of ridge, 100 ft.above sec.cor., bears N.20°E.and S. 20°W. Desc.
20.00	Bottom of hollow, 50 ft.below ridge,course N. Asc.

Chains	
21.70	Top of ridge, 50 ft.above hollow, bears N. and S.
	Desc.
27.00	Bottom of hollow, 20 ft.below ridge,course N.10°E.
	Asc.
28.60	Top of ridge, 20 ft.above hollow,bears N. and S.
	Desc.
32.40	Bottom of hollow,150 ft.below ridge, course N.20°E.
	Asc.
40.06	Set an iron post, 3 ft.long,1 in.in dia.,12 ins.in the ground, with mound of stone around post,for ¼ sec.cor. mkd.on brass cap ¼ S 1 in N half and S 12 in S half; from which
	A pinon pine,12 ins.dia.,bears N.38°30'E.,23 lks. dist.,mkd.¼ S 1 B T
	A pinon pine, 8 ins.dia.,bears S.56°E.,34 lks. dist.,mkd. ¼ S 12 B T
47.00	Top of ridge, 150 ft.above hollow,bears N.20°W.and S.20°E.
	Desc.
55.00	Bottom of hollow,50 ft.below ridge,course N.20°W.
	Asc.
60.00	Top of ridge,50 ft.above hollow,bears N.10°W.and S.10°E.
	Desc.
65.50	Trail,bears N.15°E. and S.80°W.
67.00	Bottom of hollow,50 ft.below ridge,course N.
	Asc.
74.80	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
76.80	Bottom of hollow,40 ft.below ridge,course N.
	Asc.
80.12	The cor.of secs.1,2,11 and 12.
	Land, mountainous.
	Soil, sandy loam 2nd rate,from 1 to 2 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth, sage brush.

Chains	
	Good grass for grazing.
	Mountainous or heavily timbered land 80.12 chs.
	Note: Hart Spring bears about N.8°W. about 60 chs.dist., not seen from line; and a corral bears about N.5°E.about 46.00 chs.dist.,respectively, from closing cor.of secs.1 and 12, on E.bdy.of Tp. Neither seen from line.
	August 9, 1911.
	August 10,1911: At 7 h 05 m a.m.,l.m.t.,I set off 38°08' N.on the lat.arc;15°49'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.1,2,11 and 12.
	Thence I run
	N. 0° 01'W.on a true line bet.secs.1 and 2
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
16.00	Desc.over ledges,bears N.70°E. and S.70°W.
22.60	Bottom of canon,250 ft.below cor.,course N.20°E.
	Asc.
33.00	Top of ridge,150 ft.above hollow,bears E.and W.
	Note: The line passes,at this point, 10 lks.east of a white sandstone spur or ledge 150 ft.high.
40.00	Set an iron post, 3 ft.long, 1 in.in dia.,12 ins.in the ground,with mound of stone around post,for ¼ sec.cor., mkd.on brass cap ¼ S 2 in W half and S 1 in E half;from which
	A pinon pine,10 ins.dia.,bears N.50°30'E.,22 lks. dist.,mkd. ¼ S 1 B T
	A pinon pine, 8 ins.dia., bears N.60°30'W.,17 lks. dist.,mkd. ¼ S 2 B T
55.00	Bottom of canon,400 ft.below ridge,course N.20°W.
	Asc.
57.00	Top of ridge, 30 ft.above canon,bears N.60°W.and S.60°E.
	Desc.
59.80	Bottom of canon,30 ft.below ridge,course W.

Chains	
	Creek,1 lk.wide,½ in.deep,from Hart Spring,course W.
	Asc.
62.50	Top of ridge, 100 ft.above canon,bears N.40°E. and S.40°W.
	Desc.
65.00	Bottom of hollow,30 ft.below ridge,course S.40°W.
	Asc. over ledges.
66.50	Leave ledges, bear E. and W.
76.00	Asc.abruptly over smooth ledges, bear E. and W.
92.00	Top of ledges, bear E. and W.
112.00	Top of ridge,500 ft.above canon,bears N.20°E. and S.20°W.
	Desc. Leave heavy and enter scattering timber.
122.08	Intersect 6th Standard Parallel South,8.69 chs. East of the standard cor. of secs.35 and 36, heretofore described.
	Set an iron post, 3 ft.long, 2 ins.in dia.,12 ins.in the ground,on rock, and surrounded by mound of stone,for closing cor. of secs.1 and 2, mkd.on brass cap
	C C T 30 S R 22 E S 35 S 36 in N half
	R 22 E 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.
	Soil, sandy loam; 2nd rate, 2 ft.deep.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth 122.08 chs.

August 10, 1911

Eric H. Anderson

U. S. Transitman

Sub.T.31 S.,R.22 E.-Continued.

Chains

Survey commenced August 10,1911,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 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 April 22,1911.

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

At the cor.of secs.2,,3,34,and 35,on S.bdy.of Tp.,latitude 38°04'17"N.,longitude 109°31'22"W.,I set off 38°04'N.,on the lat.arc;15°42'N.,on the decl.arc;and determine a meridian with the solar,and mark a point thereof on a stone,firmly set 5.00 chs.N.of the cor.,at 4 h 5 m p.m., l.m.t.

At 10 h 18.5 m p.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.

August 10,1911.

August 11,1911:At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°28'to the west and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor.;this mark falls.22 ins .east of the mark determined by the solar.

At 7 h 4 m a.m.,l.m.t.,I set off 38°04'N.,on the lat.

Sub.T.34 S.,R.22 E.-Continued.

Chains	
	arc;15°32'N.,on the decl.arc;and determine a meridian with the solar and mark a point thereof by a cross on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.25 ins.east of the meridian established by Polaris observation.
	The solar apparatus by p.m.and a.m.observations defined positions for meridians respectively about 0'13"west and 0'13"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetice bearing of the meridian at 7 h 30 m a., m.,is N.16°W.,the angle thus determihed gives the mag. decl.16°E.
	From the cor.of secs.2,3,34,and 35,heretofore described, on S.bdy.of Tp., I run
	N.0°01'W.,bet.secs.34 and 35.
	Over mountainous land;through scattering timber and dense sage brush.
	Asc.
11.00	Top of ridge,30 ft.above cor.,bears NE and SW.
	Desc.
29.70	Bottom of hollow,150 ft.below ridge,course NE.
	Asc.gently.
29.95	Trail,bears NE and SW.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec.cor..mkd.on brass cap ¼ S 34 in W half and S 35 in E half;from which
	A pinon pine,10 ins.dia.,bears S.8°45'E.,65 lks. dist..mkd.¼ S 35 B T.
	A cedar,10 ins.dia.,bears S.34°W.,37 lks. dist..mkd.¼ S 34 B T.
45.00	Top of ridge,100 ft.above hollow,bears NE and SW.

Chains	Desc.
55.50	Wash,10 lks.wide,3 ft.deep,course NE.
62.85	Edge of box canon,ledge,60 ft.high,bears N.70°E.and S. 70°W.
66.50	Enter heavy cottonwood timber,and dense choke cherry and service berry undergrowth,bears N.70°E.and S.70°W.
67.80	Bottom of canon,250 ft.below ridge,course NE.
	Asc.
	Leave cottonwood timber and cherry and service berry undergrowth,bears NE and SW.
74.00	Ledge,15 ft.high,on North edge of box canon,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.26,27,34,and 35,mkd.on brass cap
	T 31 S S 27 in NW.
	R 22 E S 26 in NE.
	S 35 in SE.;and
	S 34 in SW.quadrants;from which
	A pinon pine,19 ins.dia.,bears N.34°15'E.,55 lks dist..mkd.T 31 S R 22 E S 26 B T.
	A cedar,10 ins.dia.,bears S.17°35'E.,153 lks. dist..mkd.T 31 S R 22 E S 35 B T.
	A cedar,8 ins.dia.,bears S.26°15'W.,97 lks. dist..mkd.T 31 S R 22 E S 34 B T.
	A cedar,7 ins.dia.,bears N.54°30'W.,11 lks. dist..mkd.T 31 S R 22 E S 27 B T.

Land,mountainous.

Soil,sandy loam;2nd rate.from 2 ft to 4 ft.deep.

Timber,cedar,pinon pine,and cottonwood.

Undergrowth,sage brush,choke cherry and service berry.

Good grass for grazing.

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

August 11,1911:At this cor.I set off 15°27'N.,on the decl.arc;and at 0 h 5 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°05'N.,which is the

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	proper lat.nearly.
	East,on a random line bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line,18 lks.N.of the cor.of secs.25,26, 35,and 36.
	Thence I run
	N.89°52'W.,on a true line bet.secs.26 and 35.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
12.00	Bottom of hollow,100 ft.below sec.cor.,bears S.30°W.
	Asc.
20.60	Top of ridge,30 ft.above hol ow,bears N.and S.
	Desc.
25.30	East edge of canon,ledge 25 ft.high,bears N.and S.
27.80	Bottom of canon,300 ft.below ridge,course N.
	Asc.
31.00	Ledge,10 ft.high,west edge of canon,bears N.and S.
40.03	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec.cor..mkd.on brass cap ¼ S 26 in N half and S 35 in S.half;from which
	A pinon pine,24 ins.dia.,bears N.29°E.,80 lks. dist..mkd.¼ S 26 B T
	A pinon pine,18 ins.dia.,bears S.7°15'E.,154 lks. dist..mkd.¼ S 35 B.T.
41.00	Top of ridge,200 ft.above canon,bears N.and S.
	Des .
42.50	Bottom of hollow,10 ft.below ridge,course S.
	Asc.
53.40	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
56.00	Bottom of hollow,20 ft.below ridge,course S.20°E.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
65.60	Top of ridge,140 ft.above hollow,bears N.and S.
	Desc.
74.10	Bottom of hollow,100 ft.below ridge,course S.10°E.
	Asc.
76.20	Top of ridge,20 ft.above hollow,bears N.and S.
	Desc.
78.50	Bottom of canon,50 ft.below ridge,course S.20°E.
	Asc.
80.06	The cor.of secs.26,27,34,and 35.

Land,mountainous.

Soil,sandy loam ;2nd rate.from 1 ft to ? ft.deep,subsoil sand stone.

Timber,cedar and pinon pine

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.06 chs.

August 11,1911.

August 14,1911:At 7 h 5 m a.m.,l.m.t.,I set off 58'05'W. on the lat.arc;14°37'W.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.26,27,34,and 35.

Thence I run

N.0°01'W.,bet.secs.26 and 27.

Over mountainous land;through scattering timber and dense undergrowth.

	Asc.
7.25	Head of hollow,20 ft.above cor.,course S.10°E.
	Continue ascent.
14.00	Top of sandstone ridge,150 ft.above sec.cor.,bears N.and W.
	Desc.
37.40	Trail,bears NE and SW.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 27 in W half mand S 26 in E half;from which A pinon pine,12 ins.dia.bears S.61°W.,470 lks. dist..mkd.¼ S 27 B T. No other trees within limits;dig pits,18x18x12 ins.N.and S.of post,3 ft.dist.and raise a mound of earth,3½ ft.base 1½ ft.high,W.of cor.
47.00	Head of hollow,50 ft.below ridge,course N.60°E.
	Asc.
48.20	Trail,bears NE and SW.
55.00	top of ridge,50 ft.above hollow,bears N.30°E.and S.30°W.
	Desc.
70.80	Bottom of hollow,100 ft.below ridge,course N.50°W.
	Asc.
73.00	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
75.80	Bottom of hollow,60 ft.below ridge,course NE.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,14 ins.in the ground,on rock,and surrounded by mound of stone,for cor.of secs.22,23,26,and 27,mkd.on brass cap T.31 S S.22 in NW. R 22 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.72°E.,56 lks. dist..mkd.T 31 S R 22 E S 23 B T. A pinon pine,16 ins.dia.,bears S.16°15'E.,142 lks. dist..mkd.T 31 S R 22 E S 26 B T. A pinon pine,14 ins.dia.,bears S.64°45'W.,52 lks. dist..mkd.T 31 S R 22 E S 27 B T. A pinon pine,10 ins.dia.,bears N.15°W.,99 lks. dist..mkd.T 31 S R 22 E S 22 B T.
	Land,mountainous.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	Soil,sandy loam;1 to 2 ft.deep,underlaid with solid sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.

S.89°52'E.,on a random line bet.secs.23 and 26.

40.00 Set temp.¼ sec.cor.

79.98 Intersect N.and S.line,14 lks.S.of the cor.of secs.23,24,25 and 26.

Thence I run

N.89°58'W.,on a true line bet.secs. 23 and 26.

Over mountainous land;through scattering timber and dense undergrowth.

Desc.

2.00 Ledge 20 ft.high,edge of canon,vbears N.and S.

Desc.

5.40 Bottom of canon,60 ft.below cor.,course N.

Asc.over ledges.

5.70 Trail,bears N.and S.

11.00 Ledge 20 ft.high,bears N.and S.

19.00 Leave ledges,bears N.and S.

39.99 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 23 in N half and S 26 in S half;from which

A pinon pine,12 ins.dia.,bears S.37°30'E.,173 lk. dist..mkd.¼ S 26 B T.

No other trees within limits;dig pits,18x18x12 ins.E.and W.of post,3 ft.dist.;and raise a mound of earth,3½ ft. base,1½ ft.high,N.of cor.

44.00 Top of ridge,300 ft.above canon,bears N.and S.

Desc.

51.40 Ledge,20 ft.high,bears N.20°E.and S.20°W.

Chains

53.80 Bottom of canon,150 ft.below ridge,course N.30°E.

Asc.

57.50 Ledge,10 ft.high,bears N.30°E.and S.30°W.

70.70 Top of ridge,160 ft.above canon,bears N.20°E.and S.20°W.

Desc.

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

74.50 Bottom of hollow,50 ft.below ridge,course NE.

Asc.

79.98 The cor.of secs.22,23,26,and 27.

Land,mountainous.

Soil,sandy loam about 5 ft.deep,on rock.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 79.98 chs.

August 14,1911At this cor.I set off 14°33'N.,on the decl. arc;and at 00 h 5 m p.m.,l.m.t. ,I observe the sun on the meridian,the resulting lat.is 38°06'N.,which is the proper lat.nearly.

N.0°01'W.,bet.secs.22 and 23.

Over mountainous land;through heavy timber,through scattering undergrowth. Asc.gently.

10.50 Wash,10 lks.wide,3 ft.deep,course S.60°E.

17.60 Wash,8 lks.wide,2 ft.deep,course S.20°W.

20.10 Wash,10 lks.wide,3 ft.deep,course SW.

22.40 Ridge,100 ft.above hollow,bears E.and W.

Desc.

40.00 Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec cor.mkd.on brass cap S 22 in W half and S 23 in E half; from which

A pinon pine,7 ins.dia.,bears S.59°E.,50 lks. dist.,mkd. ¼ S 23 B T.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	A cedar,6 ins.dia.,bears S.86°W.,13 lks.dist. mkd. S 22 B T.
40.30	Top of ledge,40 ft.high,bears N.20°E.and S.70°W.
48.50	Bottom of canon,250 ft.below ridge,course N.40°E. Asc.
51.60	Top of ledge,20 ft.high,bears N.40°E.and S.40°W.
57.60	Ledge or canon wall 100 ft.high,bears NE and S.30°W.
80.00	Point 250 ft.above canon.
	Set an iron post,3 ft.long, 2 ins.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone, for cor.of secs.14,15,22,and 23,mkd.on brass cap
	T 31 S S 15 in NW.
	R 22 E S 14 in NE.
	S 23 in SE.;and.
	S 22 in SW.quadrants;from which
	A pinon pine,10 ins.dia.,bears N.29°30'E.,95 lks dist..mkd.T 31 S R 22 E S 14 B T.
	A pinon pine,10 ins.dia. bears S.28°E.,247 lks. dist..mkd.T 31 S R 22 E S 23 B T.
	A pinon pine,12 ins.dia. bears S.34°15'W.,226 lks. dist..mkd.T 31 S R 22 E S 22 B T.
	A cedar,20 ins.dia.,bears N.49°W.,99 lks. dist..mkd.T 31 S R 22 E S 15 B T.
	Land,mountainous
	Soil,sandy loam;2nd rate.
	Timber cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.

August 14,1911.

August 15,1911:At 7 h 5 m a.m.,l.m.t.,I set off 58°06'N., on the latare;14°18'N.,on the decl:arc;and determine a meridian with the solar at the cor:of secs.14,15,22, and 23.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	Thence I run.
	S.89°58'E.,on a random line bet.secs.14 and 23.
40.00	Set temp.¼ sec.cor.
79.88	Intersect N.and S.line,9 lks.South of the cor.of secs. 13,14,23,and 24.
	Thence I run
	S.89°58'W.,on a true line bet.secs.14 and 23.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Desc.
1.60	Bottom of Hart Draw canon.20 ft.below sec.cor.,course NW.
	Asc.over ledges.
5.60	Ledge 40 ft.high,bears NW and SE.
	Thence over flat ridge.
9.40	West edge of ridge,bears N.30°E.and S.30°W.
	Desc.
13.80	Trail,bears N.and S.
14.50	Bottom of canon,500 ft.below ridge,course N.20°E.
	Asc.over ledges.
18.50	Top of ledges.mbears N.20°E.and S.20°W.
30.60	Wash,50 lks.wide,20 ft.deep,course NE.
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 14 in N half and S 23 in S half;from which
	A pinon pine,14 ins.dia.,bears N.30°E.,168 lks. dist..mkd.¼ S 14 B T.
	A cedar,10 ins.dia.,bears S.45°E.,69 lks. dist..mkd.¼ S 23 B T.
42.50	Top of ridge,250 ft.above canon,bears N.30°E.and S.30°W.
	Desc.
44.90	Top of ledge,40 ft.high,bears N.30°E.and S.30°W.
54.70	Bottom of canon,500 ft.below ridge,course N.20°E.
	Asc.abruptly.
57.00	Ledge 30 ft.high,bears N.20°E.and S.20°W.
64.50	Top of ledge,30 ft.high,bears N.20°E.and S.20°E.
65.00	Top of abrupt ascent,bears N.20°E.and S.

Sub.T.31 ., R.22 E.,-Continued.-

Chains	
79.88	The cor.of secs.14,15,22,and 23.
	Land,mountainous.
	Soil,sandy loam;2nd rate.;1 to 2 ft.deep.on solid sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,79.88 chs.
	August 15,1911:At this cor.I set off 14°15'E.,on the decl. arc;and at 0 h 4 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°07'N.,which is the proper lat.nearly.

	N.0°01'W.,bet.secs.14 and 15.
	Over over mountainous lnd;through heavy timber and dense undergrowth.
	Asc.
6.00	Top of ridge,30 ft.above sec.cor.,bears E.and W.
	Desc.
19.40	Top of ledge,80 ft.high,bears N.70°E.and S.70°W.
	Desc.abruptly.
24.00	Top of ledge 60 ft.high,bears E.and SW.
27.50	Trail,bears NE and SW.
28.50	Bottom of canon,350 ft.below ridge,course NE.
	Asc.over ledges.
31.35	Top of ridge,150 ft.above canon,bears N.60°E.and S.60° W.
	Desc.
32.60	Bottom of canon,50 ft.below ridge,course E.
	Asc.over ledges.
34.00	Top of ledges,bears N.80°E.and S.80°W.
37.25	Trail,bears N.60°E.and S.60°W.
39.60	Foot of sloping sandstone ledge,100 ft.high,bears N.20°E. and S 20°W.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
40.00	Point for ¼ sec.cor.falls on ledge,therefore set
40.30	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 31 S R 22 E in N half.W C ¼ S 15 in W half;and S 14 in E half;from which
	A pinon pine,5 ins.dia.,bears N.13°E.,80 lks. dist..mkd.W C ¼ S 14 B T.
	A cedar,6 ins.dia.,bears N.66°W.,44 lks. dist..mkd.W C ¼ S 15 B T.
40.40	Top of ridge,250 ft.above canon,bears E.and W.
	Des.
43.80	Head of hollow,40 ft.below ridge,course S.80°E.
	Asc.
50.80	Top of ridge,60 ft.above hollow,bears NE and SW.
	Desc.
70.30	Head of canon,40 ft.below ridge,course E.
	Asc.
80.00	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 cor.of secs.10,11,14,and 15,mkd.on brass cap
	T 31 S S 10 in NW.
	R 22E S 11 in NE.
	S 14 in SE.;and
	S 15 in SW.quadrants;from which
	A pinon pine,16 ins.dia.,bears N.51°E.,450 lks. dist..mkd.T 31 S R 22 E S 11 B T.
	A pinon pine,16 ins.dia.,bears S.6°30'E.,106 lks. dist..mkd.T 31 S R 22 E S 14 B T.
	A pinon pine,12 ins.dia.,bears S.27°W.,146 lks. dist..mkd.T 31 S R 22 E S 15 B T.
	A cedar,16 ins.dia.,bears N.31°30'W.,94 lks. dist..mkd.T 31 S R 22 E S10 B T.
	Land,mountainous.
	Soil,sandy loam about 1 to 3 ft.deep.Subsoil,sandstone.
	Timber,dense cedar and pinon pine.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	Undergrowth,sage brush.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	August 15,1911.
	August 16,1911:At 7 h 4 m a.m.l.m.t.,I set off 38°09'N. on the lat.arc;14°00'E.,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.
79.86	Intersect N.and S.line,12 lks.S.of the point for cor.of secs.11,12,13,and 14,m60 lks.S.of W.C.
	Thence I run
	S.89°53'W.,on a true line bet.secs.11 and 14.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Desc.
8.20	Top of sloping ledge,bears NE and S.
9.60	Foot of same ledge,50 ft.high.
	Leave heavy and enter scattering timber,bears NE and S.
9.80	Wash,20 lks.wide,5 ft.deep,course NW.
21.20	Ledge,10 ft.high,bears NW and SE.
23.80	Wash,10 lks.wide,3 ft.deep,course NW.
30.00	Top of ledge,and east wall of Hart Draw canon,bears N.20°E and S.20°W.
35.00	Wash,100 lks.wide,4 ft.deep,in bottom of Hart Draw canon, 500 ft.below sec.cor.,course N.30°E.
	Asc.abruptly.
39.00	Top of ledge,or canon wall,250 ft.above canon,bears N.30°E and S.30°W.
39.98	Set an iron post,3 ft.ldng,1 in.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone,for ¼

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	sec.cor.mkd.on brass cap ⊕ S 11 in N half and S 14 in S half;from which
	A pinon pine,9 ins.dia.,bears N.48°E.,190 lks. dist..mkd. ½ S 11 B T.
	A cedar,8 ins.dia.,bears S.9°W.,29 lks. dist..mkd. ½ S 14 B T.
51.40	Top of ridge,350 ft.above canon,bears N.20°W.and S.20°E. Desc.gently.
56.00	Head of canon,20 ft.below ridge,course SE.
	Asc.
58.30	Ledge,60 ft.high,bears N.30°E.and S.30°W.
69.50	Top of abrupt ascent,bears N.and S.
70.40	Wash,15 lks.wide,4 ft.deep,course SE.
79.86	The cor.of secs.10,11,14,and 15.
	Land,mountainous
	Soil,sandy loam from 1 ft.to 2 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.86 chs.
	August 16,1911:At this cor.I set off 15°55'E.,on the decl.arc;and at 0 h 4 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 38°08'N.,which is the proper lat:nearly.

N.0°01'W.,bet.secs.10 and 11.

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

Asc.

14.00 South edge of flat ridge,50 ft.above cor.,bears N.20°E. and S.20°W.

28.40 North edge of same ridge,bears N.60°E.and S.60°W.

Desc.abruptly over ledges and boulders.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
39.50	Bottom of canon,500 ft.below ridge,course NE.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec.cor..mkd.on brass cap ¼ S ;10 in W half and S 11 in E half;from which
	A pinon pine,7 ins.dia.,bears N.69°E.,155 lks.
	dist..mkd.¼ S 11 B T.
	An ash,5 ins.dia.,bears S.5°W.,70 lks.
	dist..mkd.¼ S 10 B T.
40.30	Begin abrupt ascent over ledges,bears NE and SW.
44.30	Top of ledge,100 ft.above ¼ sec.cor.,bears NE and SW.
48.20	Head of hollow,20 ft.below ledge,course SE.
	Asc.
54.00	Begin abrupt ascent,bears E.and W.
56.00	Top of ledge,50 ft.high,bears E.and W.
60.20	Leave ledges,bears E and W.
	Top of ridge,500 ft.above canon,bears E.and W.
66.20	Trail,bears NE.and SW.
73.30	Head of hollow,100 ft.below ridge,course E.
	Asc.
80.00	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 cor.of secs.2,3,10,and 11,mkd.on brass cap
	T 31 S S 3 in NW.
	R 22 E S 2 in NE.
	S 11 in SE.;and
	S 10 in SW.quadrants;fromwwhich
	A pinon pine,12 ins.dia.,bears N.55°E.,70 lks.
	dist..mkd.T 31 S R 22 E S 2 B T.
	A pinon pine,8 ins.dia.bears S.41°E.,40 lks.
	dist..mkd.T 31 S R 22 E S 11 B T.
	A pinon pine,10 ins.dia.,bears S.49°20'W.,85 lks
	dist..mkd.T 31 S R 22 E S 10 B T.
	A pinon pine,12 ins.dia.,bears N.8°45'W.,70 lks.
	dist..mkd.T 31 S R 22 E S 3 B T.

Chains	
	Land,mountainous .
	Soil,sandy loam;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.
	August 16,1911.
	August 17,1911:At 7 h 4 m a.m.,l.m.t.,I set off 38°09'N., on thelat.arc;13°42'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°53'E.,on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line,12 lks.N.of the cor.of secs.1,2, 11,and 12.
	Thence I run
	S.89°58'W.,on a true line bet.secs.2 and 11.
	Over mountainous land; though heavy timber and scattering undergrowth.
	Asc.
5.00	Enter heavy timber,bears N.and S.
19.00	Top of ridge,80 ft.above sec.cor.,bears N.and S.
	Desc.
23.00	Wash,10 lks.wide,3 ft.deep,course S.60°W.
26.40	Top of sloping ledge,40 ft.high,bears N.30°E.and S.30°W.
32.80	Foot of ledges,bears N.30°E.and S.30° W.
35.00	Top of ledge,80 ft.high,bears N.and S.
39.96	Set an iron post,3 ft.long,1 in.in dia.,14 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec.cor. mkd.on brass cap ¼ S 2 in N half and S 11 in S half;from which
	A pinon pine,10 ins.dia.,bears N.76°E.,26 lks.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	dist..mkd.½ S 2 B T.
	A pinon pine,8 ins.dia.,bears S.18°E.,34 lks. dist..mkd.½ S 11 B T.
49.30	East edge of Hart Draw canon,bears N.20°W.and S.20°E.
	Desc.abruptly.
53.00	Wash;50 ft.wide,3 ft.deep,in bottom of Hart Draw canon,
	250 ft.below edge,course N.20°W.
	Asc.abruptly.
55.00	Top of ledge,50 ft.high,bears N.20°W.and S.20°E.
57.90	West edge of canon,240 ft.above bottom,bears N.20°W.and S.
	20°E.
	Asc.gently.
68.90	Head of hollow,.20 ft.deep,course N.50°E.
	Asc.
72.20	Trail,bears N.30°E.and S.30°W.
	Asc.abruptly over ledges.
79.92	the cor.of secs.2,3,10,and 11.
	Land,mountainous
	Soil,sandy loam;from 1 to 2 ft.deep,on sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered
	with dense undergrowth,79.92 chs.
	August 17,1911At this cor.I set off 13°37'N.,on the decl.
	arc;and at 0 h 4 m p.m.,l.m.t.,I observe the sun on the
	meridian the resulting lat. is 38°09'N.,which is the
	proper lat.nearly.
	—
	N.0°01'W.,bet.secs.2 and 3,on true line.
	Over mountainous land;through scattering timber and
	scattering undergrowth.
	Asc.
4.30	Trail,bears N.30°E.and S.30°W.
8.80	Top of ridge,30 ft.above cor.,bears NE and SW.

Sub.T.31 S.,R.22 E.-Continued.

Chains	Des .
17.00	Bottom of canon,200 ft.below ridge,course N.60°E.
	Asc.abruptly.
20.30	Top of abrupt ascent,bears N.60°E.and S.60°W.
30.45	Wash,20 lks.wide,4 ft.deep,course E.
33.00	top of ridge,120 ft.above canon,beas E.and W.
38.20	Head of hollow,30 ft.below ridge,course SE.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,14 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec cor.mkd.on brass cap ¼ S 3 in W half and S 2 in E half from which
	A pinon pine,12 ins.dia.,bears N.88°E.,58 lks. dist..mkd.¼ S 2 B T.
	A pinon pine,12 ins.dia.,bears N.66°W.,50 lks. dist..mkd.¼ S 3 B T.
41.30	Top of ledge,40 ft.high,bears E.and W.
42.50	Top of ridge,70 ft.above hollow,bears E.and W.
	Desc.
57.55	South edge of wall of Hart Draw canon,bears E.and W.
	Desc.abruptly over ledges.
64.50	Bottom of canon,300 ft.below edge,course E.
	Asc.
67.00	Top of spur,70 ft.above hollow,bears E.and W.
	Desc.
69.00	Top of ledge,100 ft.high,bears NW and SE.
72.50	Creek,2 lks.wide,in wash,60 lks.wide,4 ft.deep,in bottom of Hart Draw canon,500 ft.below edge of canon,course N. 40°W.
	Asc.abruptly.
83.80	Top of ledge or canon wall,500 ft.above canon,bears N.60° W.and S.60°E.
84.60	Top of ridge,550 ft.above canon,bears N.60°E.and S.60°W.
	Desc.
88.00	Head of hollow,30 ft.below ridge,course W.
	Asc.abruptly.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
93.60	Top of ridge,200 ft.above hollow,bears NE and SW.
	Desc.
106.00	Head of hollow,40 ft.below ridge,course W.
	Asc.
115.75	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.
120.10	Bottom of hollow,50 ft.below ridge,course SW.
	Asc.
122.16	Intersect 6th Standard Parallel South,3.37 chs.East of witness cor.which is 5.29 chs.east of the point for standard cor.of secs.34 and 35,heretofore described. Set an iron post,3 ft.long,2 ins.i dia.,12 ins.in the ground,on rock,and surrounded by mound of stone,for closing cor.of secs.2 and 3,mkd.on brass cap

C CT 30 S R 22 E S 34 S 35 in N half.
S 2 in SE.;and
T31S S 3 in SW.quadrants;from which
A pinon pine,8 ins.dia.,bears S.86°W.,20 lks. dist..mkd.T 31 S R 22 E S 2 B T.
A pinon pine,20 ins.dia.,bears S.48°W.,106 lks. dist..mkd.T 31 S R 22 E S 3 P T.

Land,mountainous.
Soil,sandy loam;from 1 to 3 ft.deep,on solid rock.
Timber,cedar and pinon pine.
Undergrowth,sage brush.
Good grass for grazing.
Mountainous land,122.16 chs.

August 17,1911.

Scott P. Stewart
U.S.TRANSITMAN.

August 11,1911.At 7.h 4 m a.m.,l.m.t.,I set off 38°04'N., on the lat.arc;15°32'W.,on the decl.arc;and determine a

Chains	
	meridian with the solar,at the cor.of secs.3,4,33,and 34. on S.bdy.of Tp.,heretofore described.
	Thence I run
	N.0°02'W.,bet.secs.33 and 34.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
10.00	Head of hollow,30 ft.below sec.cor.,course W.
	Asc.
18.00	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 33 in W half and S 34 in E half;from which
	A pinon pine,16 ins.dia.,bears S.84°E.,43 lks. dist..mkd.¼ S 34 B T.
	A pinon pine,7 ins.dia.,bears S.52°W.,85 lks. dist..mkd.¼ S 33 B T.
50.00	Leave timber,bears E.and W.
60.90	Bottom of hollow,60 ft.below ridge,course N.50°E.
	Asc.gently.
	Enter scattering timber,bears E.and W.
75.80	Wash.25 ft.wide,7 ft.deep,course N.60°E.
75.90	Wash,15 lks.wide,3 ft.deep,course N.80°E.
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 22 E
	S 27 in NE.
	S 34 in SE.;and
	S 33 in SW.quadrants;from which
	A pinon pine,12 ins.dia.,bears S.50 15'E.,136 lks.dist..mkd.T 31 S R 22 E S 34 B T.
	A pinon pine,12 ins.dia.,bears S.44°W.,29 lks. dist..mkd.T 31 S R 22 E S 33 B T
	No other trees within limits;dig pits,18x18x12 ins.NW.and SW. of post,5 ft.dist.;and raise a mound of earth,4 ft.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
base	base,1½ ftlhigh,W.of cor.
	Land,mountainous.
	Soil,sandy loam;from 1 to 3 ft.deep,on subsoil of solid sandstone.
	Timber,cedarand pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth. 80.00 chs.
	August 11,1911:At this cor.I set off 15°27'E.,on the decl arc;and at 0 h 5 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 38°05'N.,which is the proper lat.nearly.
	East on a random line bet.secs.27 and 34.
40.00	Set temp.¼ sec.cor.
79.98	Intersect 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 mountainous land;through heavy timber and dense undergrowth.
	Asc.
7.20	Begin abrupt ascent,bears N.and S.
12.00	Top of abrupt ascent,bears N and S.
30.00	Top of ridge,200 ft.above sec.cor.,bears N.30°W.and S.30° E.
	Desc.
39.10	Bottom of hollow 10 ft.below ridge,course S.10°W.
	Asc.
39.99	Set an iron post,3 ft.long,1 in.in dia.,14 ins.in the ground,on rock,and surrounded by mound of stone,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,10 ins.dia.,bears N.40°45'E.,70 lks

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	dist..mkd.↓ S 27 E T.
	A pinon pine,8 ins.dia..bears S.50°30'E.,20 lks dist..mkd.↓ S 54 E T.
41.00	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
52.00	Head of hollow,20 ft.below ridge,course S.60°E.
	Asc.
72.00	Top of steep ascent,bears N.20°E.and S.20°W.
	Leave heavy and enter scattering timber,bears same.
79.98	The cor.of secs.27,28,33,and 34.
	Land,mountainous.
	Soil,sandy loam;2nd rate.1 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land.or land covered with dense undergrowth,79.98 chs.

August 11,1911.

August 14,1911:At 7 h 4 m a.m.,l.m.t.,I set off 38°05'N. on the lat.arc;14°38'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 scattering timber and dense undergrowth.

	Asc.
14.70	Top of ridge,40 ft.above cor.,bears E.and W.
	Desc.
33.30	Bottom of hollow,50 ft.below ridge,course NE.
	Enter heavy timber,bears NE and SW.
	Asc.
	Note:An old corral bears ↓ 50 lks.dist.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
35.00	Top of ridge,30 ft.above canon,bears N.40°E.and S.40°W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,20 ins.in the ground, on solid rock,and surrounded by mound of stone,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,14 ins.dia.,bears S.86°E.,54 lks. dist..mkd.¼ S 27 B T.
	A pinon pine,14 ins.dia.,bears N.87°15'W.,57 lks. dist.mkd.¼ S 28 B T.
55.50	Bottom of hollow,50 ft.below course E.
	Asc.
57.50	Top of ridge,20 ft.above hollow,bears E.and W.
	Desc.
61.20	Head of hollow,20 ft.below ridge,course N.80°E.
	Asc.
63.00	Leave heavy and enter scattering timber,bears N.70°W. and S.70°E.
65.00	Top of ridge,25 ft.above hollow,bears E.and W.
	Desc.
73.30	Bottom of hollow,30 ft.below ridge,course N.60°E.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.21,22,27,and 28,mkd.on brass cap
	T 31 S S 21 in NW.
	R 22 E S 22 in NE.
	S 27 in SE.;and
	S 28 in SW.quadrants;from which
	A cedar,12 ins.dia.,bears S.34°E.,130 lks. dist..mkd.T 31 S R 22 E S 27 B T.
	No other trees within limits;dig pits,18x18x12 ins.,[illegible] ins in each sec.5½ ft.dist.;and raise a mound of earth,4 ft.base,2 ft.high,W.of cor.
	Land mountainous.
	Soil,sandy loam from 2 ft to 4 ft.deep.subsoil,rock.

Sub.T.31 S.,R.22 E.-Continued.

Chains

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

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

August 14,1911:At the noon hour the sky is overcast and solar observations are impossible.

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

40.00 Set temp.¼ sec.cor.

79.92 Intersect N.and S.line,2 lks.N.of the cor.of secs.22,23,26 and 27.

Thence I run

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

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.

7.10 Top of ridge,50 ft.above cor.,bears N.20°W.and S.20°E.

Desc.

10.00 Bottom of hollow,30 ft.below ridge,course S.20°E.

Asc.

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

Desc.over smooth ledges.

30.70 Bottom of canon,300 ft.below ridge,course N.20°E.

There are a few aspen and cottonwood trees in bottom.

Asc.

33.70 Ledge 40 ft.high,bears N.20°E.and S.20°W.

37.50 Top of ridge,150 ft.above canon,bears N.and S.

Desc.

38.80 Head of hollow,20 ft.below ridge,course S.

Asc.

39.96 Set an iron post,3 ft.long,1¼in.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec.cor.,mkd.on brass cap ¼ S 22 in N half.;and 3

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	27 in 2 half;from which
	A pinon pine, 8 ins.dia;.bears N.28°E.,58 lks. dist.,mkd. S 22 B T.
	A pinon pine,6 ins.dia.,bears S.43°15'E.,34 lks dist..mkd. S 27 B T.
44.00	Begin abrunt ascent,bears NE and SW.
56.00	Leave heavy and enter scattering timber,bears E.and S.
60.00	Top of ridge,200 ft.above hollow,bears N.60°E.and S.50 W.
	Desc.
73.50	Bottom of hollow,50 ft.below ridge,course NW.
	Asc.
79.92	The cor.of secs.21,22,27,and 28.
	Land,mountainous.
	Soil,sandy loam about 1 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,79.92. chs.

August 14,1911.

August 15,1911;At 7 h 4 m a.m.,l.m.t.,I set off 38°06' N.,on the lat.arc;14°20'E.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.21,22,27, and 28.

Thence I run

N.0°02'W.,bet.secs.21 and 22.

Over mountainous land;through dense undergrowth and scattering timber.

Asc.

25.00	Top of ridge,100 ft.above sec .cor.,bears N.80°E.and S.80° W.
	Desc.
28.00	Enter heavy timber,bears E.and W.

Chs.Lks.

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 pinon pine,6 ins.dia.,bears N.73°30'E.,80 lks. dist..mkd.¼ S 22 B T.

A pinon pine,6 ins.dia.,bears N.76°30'W.,80 lks. dist..mkd.¼ S 21 B T.

46.60 Bottom of canon,100 ft.below ridge,course N.70°E.

Asc.

49.60 Top of ridge,50 ft.above canon,bears N.and W.

Desc.

65.00 Bottom of hollow,35 ft.below ridge,course E.

Asc.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,18 ins.in the ground,on solid rock,and surrounded by mound of stone, for cor.of secs.15,16,21,and 22,mkd.on brass cap

T 31 S S 16 in NW.

R 22 E S 15 in NE.;

S 22 in SE.;and

S 21 in SW.quadrants;from which

A cedar,10 ins.dia.,bears N.69°15'E.,92 lks. dist..mkd.2 31 S R 22 E S 15 B T.

A pinon pine,10 ins.dia.,bears S.51°E.,65 lks. dist..mkd.2 31 S R 22 E S 22 B T.

A pinon pine,8 ins.dia.,bears S.21°W.,79 lks. dist..mkd.2 31 S R 22 E S 21 B T.

A pinon pine,6 ins.dia.,bears N.13°30'W.,140 lks dist..mkd.2 31 S R 22 E S 16 B T.

Land,mountainous.

Soil,sandy loam about 1 ft.deep.

Timber,cedar and pinon pine.

Undergrowth,scrub brush.

Good grass.

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

Sub.T.31 S.,R.22 E.-Contin ed.

Chains	
	S.89°59'E.,on a random line bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
79.90	Intersect N.and S.line,12 lks.W.of the cor.of secs.14,15,22,and 23.
	Thence L run.
	N.89°54'W.,on a true line bet.secs.15 and 22.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
10.0	Top of ridge,50 ft.above sec.cor.,bears NE and SW.
	Desc.
14.90	Head of hollow,75 ft.below ridge,course N.
	Asc.
21.60	Top of ridge,100 ft.above hollow,bears N.80°W.and S.80°E.
	Desc.
25.50	Foot of ledge 125 ft.high,bears N.70°E.and S.70°W.
28.20	Bottom of canon,250 ft.below ridge,course N.60°E.
	Asc.
39.95	The point for ¼ sec.cor.falls on ledge where cor.cannot be set therefore at
59.70	Set an iron post,3 ft.long,1 in.⅄ dia.,14 ins.in the ground,on solid rock,and surrouned by mound of stone, for witness cor.to ¼ sec.cor.mkd.on brass cap T 31 S R 22 E W C ¼ S 15 in N half and S 22 in S half;from which
	A pinon pine,6 ins.dia.,bears N.50°30'E.,65 lks. dist.mkd.W C ¼ S 15 B T.
	A cedar,6 ins.dia.,bears S.35°30'W.,25 lks. dist.mkd.W C ¼ S 22 B T.
42.50	Top of ridge,200 ft.above canon,bears N.and SE.
	Desc.
44.00	Bottom of hollow,30 ft.below ridge,course S.10°E.
	Asc.
48.00	Top of ridge,20 ft.above hollow,bears N.10°E.and S.10°W.
	Desc.
52.50	Bottom of hollow,50 ft.below ridge,course S.
	Asc.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
58.00	Top of ridge;50 ft.above hollow,bears N.and S.
	Desc.
59.50	Bottom of hollow,50 ft.below ridge,course S.20°E.
	Asc.
79.90	The cor.of secs.15,16,21,and 22.
	Land,mountainous.
	Soil,sandy loam;;1 ft.deep.subsoil,sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous land,or land covered with dense undergrowth,
	79.90 chs.
	August 15,1911:At this cor.I set off 14°15'E.,on the
	decl.arc;and at 0 h 4 m p.m.,l.m.t.,I observe the sun
	on the meridian the resulting lat.is 38°07'N.,which is t
	proper lat.nearly.
	——
	1.0°02'W.,bet.secs.15 and 16.
	Over mountainous land;through heavy timber and
	scattering undergrowth.
	Asc.
10.00	Leave heavy and enter scattering timber,bears N.80°E.and
	S.80°W.
12.00	Top of ridge,100 ft.above cor.,bears N.30°E.and S.30°W.
	Desc.
20.00	Begin more abrupt descent,bears N.40°E.and S.40°W.
38.50	Bottom of canon,200 ft.below ridge,course N.40°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;from which
	A pinon pine,18 ins.dia.,bears N.54°30'E.,145
	lks,dist..mkd.¼ S 15 B T.
	A pinon pine,16 ins.dia.,bears N.87°W.,203 lks.

Chains	
	dist.mkd. ¼ S 16 B T. ✓
41.00	Asc.abruptly over ledges,bears NE and SW.
44.70	Leave ledges,bears NE and SW.
63.50	Top of ridge,250 ft.above hollow,bears N.70°E.and S70°W.
	Desc.
65.50	Bottom of hollow,50 ft.below ridge,course E.
	Asc.
69.60	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
70.80	Bottom of hollow,20 ft.below ridge,course N.80°E.
	Asc.
77.00	Top of abrupt ascent,bears NW.and SW.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ✓
	ground,for cor.of secs.9,10,15,and 16,Mkd.on brass cap
	T 31 S S 9 in NW. ✓
	R 22 E S 10 in NE. ✓
	S 15 in SE.;and ✓
	S 16 in SW.quadrants;from which ✓
	A pinon pine,8 ins.dia.,bears N.43°15'E.,189 lks.
	dist..mkd.T 31 S R 22 E S 10 B T. ✓
	A pinon pine,8 ins.dia.,bears S.38°30'E.,82 lks.
	dist..mkd.T 31 S R 22 E S 15 B T. ✓
	A pinon pine,10 ins.dia.,bears S.82°30'W.,59 lks
	dist..Mkd.T 31 S R 22 E S 16 B T. ✓
	A pinon pine,10 ins.dia.,bears N.49°30'W.,35 lks
	dist..mkd.T 31 S R 22 E S 9 B T. ✓

Land,mountainous.

Soil,sandy loam about 1 ft.deep.2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

August 15,1911.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	August 16,1911:At 7 h 4 m a.m.,l.m.t.,I set off 38°08'N., on the l. t.arc;14°01'W.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.9,10,15,and 16.
	Thence I run
	S.89°54'E.,on a random line bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
79.86	Intersect N. nd S.line,5 lks.S.of the cor.of secs.10,11, 14,and 15.
	Thence I run
	N 89°56'W.,on a true line bet.secs.10 and 15.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
9.00	Top of ridge,50 ft.above sec.cor.,bears N.and S.
	Desc.
14.00	Bottom of hollow,60 ft.below ridge,course N.20°W.
	Asc.
15.60	Top of ridge,30 ft.above hollow,bears N.20°W.and S.20°E.
	Desc.
21.00	Bottom of hollow,50 ft.below ridge,course N.15°E.
	Asc.
25.00	Top of ridge,150 ft.above hollow,bears E.10°E.and S.10° W.
	Desc.
31.00	Begin abrupt descent,bears N.20°E.and S.20°W.
38.40	Bottom of canon,300 ft.below ridge,course N.40°E.
	Asc.
39.93	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 10 in N half. and S 15 in S half;from which
	A cedar,12 ins.dia.,bears N.14°W.,10 lks. dist..mkd.¼ S 10 B T.
	A pinon pine,8 ins.dia.,bears S.54°W.,28 lks. dist..mkd.¼ S 15 B T.

Sub.T.31 S.,R.22 E.-Continued.-

Chains	
43.60	Top of abrupt ascent,bears N.and S.
79.86	The cor.of secs.9,10,15,and 16.
	,and,mountainous .
	Soil,sandy loam;2nd rate.2 ft.deep.subsoil sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timberedland,79.86 chs.
	[illegible] chs.
	August 16,1911At this cor.I set off 15°55'E.,on the decl. arc;and at 0 h 4 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat,is N.38°08'W.,which is the proper lat.nearly.
	66
	N.0°02'W.,bet.secs.9 and 10.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
.60	Top of ridge, 10 ft.above cor., bears N.60°E.and S.80°W.
	Desc.
15.50	Bottom of canon,100 ft.below ridge,course N.60°E.
	Asc.
34.50	Top of ridge,75 ft.above hollow,bears E.and W.
	Desc;
38.00	Bottom of hollow,20 ft.below ridge,course E.
39.70	Top of ridge,20 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 9 in W.half and S 10 in E. half;from which
	A cedar,6 ins.dia.,bears N.60°W.,25 lks.
	dist..mkd.¼ S 9. B T.
	A pinon pine,6 ins.dia.,bears S.30°W.,10 lks.
	dist..mkd.¼ S 10 B T.
41.50	Bottom of hollow,20 ft.below ridge,course E.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	Asc.
52.20	Top of ridge,150 ft.above hollow,bears N.70°E.and S.70°W.
	Desc.
75.90	Bottom of hollow,150 ft.below ridge,course N.60°W.
	Asc.
78.40	Top of ridge,80 ft.above hollow,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.3,4,9,and 10,mkd.on brass cap
	T 31 S S 4 in W.
	R 22 E S 3 in N.
	S 10 in SE.;and
	S 9 in SW.quadrants;from which
	A pinon pine,6 ins.dia.,bears N.56°15'E.,98 lks.
	dist..mkd. T 31 S R 22 E S 3 B T.
	A pinon pine,8 ins.dia.,bears S.61°40'E.,88 lks.
	dist..mkd.T 31 S R 22 E S 10 B T.
	A pinon pine,6 ins.dia.,bears S 61°W.,4 lks.
	dist..mkd.T 31 S R 22 E S 9 B T.
	A pinon pine,6 ins.dia.,bears N.20°30'W.,98 lks.
	dist..mkd.T 31 S R 22 E S 4 B T.

Land,mountainous.

Soil,sandy loam;2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

August 16,1911.

August 17,1911:At 7 h 4 m a.m.,l.m.t.,I set off 38°09'N., on the lat.arc;13°42'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

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	S.89°56'E.,on a random line bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
79.84	Intersect N.and S.line,5 lks.N.of the cor.of secs. 2,3,10,and 11.
	Thence I run
	N.89°54'W.,on a true line bet.secs.3 and 10.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
2.00	Top of ridge,25 ft.above cor.,bears N.and S.
	Desc.
5.40	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
7.60	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
17.20	Bottom of canon,350 ft.below ridge,course N.20°E.
	Asc.
22.50	Top of abrupt ascent,bears N.and S.
39.92	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground&on rock,and surrouned by mound of stone,for ¼ sec. cor.mkd.on brass cap ¼ S 3 in N half and S 10 in S half from which
	A pinon pine,12 ins.dia.,bears N.11°40'E.,105 lks.dist..mkd.¼ S 3 B T.
	A pinon pine,10 ins.dia.,bears S.48°50'E.,62 lks dist..mkd.¼ S 10 B T.
41.00	Asc.abruptly.bears N.and S.
47.30	Top of abrupt ascent, and east edge of mesa,bears N.and S. 250 ft. above canon.
60;30	West edge of mesa,bears N.20°E.and S.20°W.
	Desc.
68.00	Foot of steep descent,bears N.20°E.and S.20°W.
79.84	The cor.of secs.3,4,9,and 10.
	Land,mountainous and mesa.
	Soil,sandy loam from 1 to 3 ft.deep.
	timber,cedar and pinon pine.

Sub.T.31 S.,R.22 E.-Continued.

Chains

Undergrowth,sage brush.

Good grass.

Mountainous land,or land covered with heavy timber,

79.84 chs.

August 17,1911:At this cor.I set off 13°37'E.,on the decl. arc;and at 0 h 4 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°09'N.,which is the proper lat.nearly.

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

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.abruptly.

4.50 Bottom of hollow,150 ft.below cor.,course S.80°W.

Asc.

9.00 Top of steep ascent,bears E.and W.

11.00 Top of ledge,75 ft.high,bears E.and W.

16.00 Top of ridge,200 ft.above hollow,bears E.and W.

Desc.

30.00 Bottom of canon,405 ft.below ridge,course N.60°E.

Asc.

34.00 Top of steep ascent,bears E.and W.

37.00 Asc.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 rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 4 in W half and S 3 in E half;from which

A pinon pine,4 ins.dia.,bears N.74°30'E.,8 lks. dist..mkd.¼ S 3 B T.

A pinon pine,10 ins.dia.,bears S.83°45'W.,18 lks dist..mkd.¼ S 4 B T.

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

49.40 Top of ridge,300 ft.above ¼ sec.cor.bears E.and W.

Leave ledges.

Desc.

55.00 Bottom of hollow,50 ft.below ridge,course E.

Sub.T.51 S.,R.22 E.-Continued.

Chains	
	Asc.
70.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
74.10	Bottom of hollow,50 ft.below ridge,course E.
	Asc.
87.70	Asc.abruptly,bears N.60°E.and S.60°W.
97.80	Top of ridge,200 ft.above hollow,bears N.40°E.and S.40° W.
	Desc.
107.90	Foot of abrupt descent,bears E.and W.
111.50	Desc.abruptly,bears N.60°E.and S.60°W.
122.02	Intersect 6th Standard Parallel South, 8.70 chs.East of the 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,mkd.on brass cap

C C T 50 S R 22 E S33 S34 in N half;

S 3 in SE;and

S 4 in SW quadrants;from which

A pinon pine,10 ins.dia.,bears S.12°E.,86 lks. dist..mkd.T 51 S R 22 E S 3 B T.

A pinon pine,10 ins.dia.,bears S.86°W.,65 lks. dist..mkd.T 51 S R 22 E S 4 B T.

Land,mountainous.

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

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,122.02 chs.

August 17,1911.

Eric H.Anderson

U.S.Transitman.

Sub.T. 11 S., R. 22 E. -Continued.

Chains	
	August 18,1911:At 7 h 4 m a.m.,l.m.t.,I set off 38°04'E., on the lat.arc;13°23'E.,on the decl.arc;and determine a meridian with the solar,at the point forsecor.of secs.4,5, 32,and 33,on S.bdy.of Tp.,heretofore described,which is 75 lks.east of the witness cor. Thence I run.
	N.0° 3'W.,bet.secs.32 and 33.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.over smooth sandstone ledge.
2.50	Sandstone ridge,30 ft.above cor.,bears E.and W.
	Desc.
4.60	Bottom of hollow,10 ft.below ridge,in solid sandstone, course SW.
	Asc.
12.70	Leave ledges,bears NE and SW.
25.00	Top of ridge,300 ft.above hollow,bears N.60°E.and S.60°W.
	Desc.
30.00	Bottom of hollow,30 ft. below ridge,course W.
	Asc.
32.00	Top of ridge,20 ft.above hollow,bears E.and W.
	Desc.
39.50	Head of canon,30 ft.below ridge,course NW. 100 lks.NW. of this point the hollow falls over a 200 ft.ledge.
	Asc.
40.00	Set an iron post,3 ft.long,1½ ins.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 32 in W half and S 33 in E half;from which
	A pinon inc,6 ins.dia.,bears S.10°15'E.,167 lks. dist..mkd.¼ S 33 B T.
	A pinon pine,8 ins.dia.,bears S.63°30'W.,254 lks. dist..mkd.¼ S 32 B T.
48.30	Top o ledge of canon wall 300 ft.high,bears N.80°W.and S.80 E.
	Desc.abruptly.
57.30	Botto

Sub.T.31 S R 22 E.-Continued.

Chains	
57.30	Bottom of canon,600 ft.below rodge,course N.80°W.
	Asc.abruptly over ledges.
66.35	Top of ledge or canon, wall,300 ft.high ,bears E.and W.
	500 ft.above canon,
71.00	Top of ridge;40 ft.above ledge,bears NE and SW.
	Desc.
75.10	Bottom of hollow,70 ft.below ridge,course S.30°W.
	Asc.
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 22 E S 28 in NE.
	S 33 in SE.;and
	S 32 in SW.quadrants;from which
	A cedar,8 ins.dia.,bears N.15°E.,44 lks.
	Dist mkd.T 31 S R 22 E S 28 B T.
	A pinon pine,10 ins.dia.,bears S.89°40'E.,60 lks
	dist..mkd.T 31 S R 22 E S 33 B T.
	A pinon pine,10 ins.dia.,bears S.54°30'W.,128 lks
	dist..mkd.T 31 S R 22 E S 32 B T.
	A pinon pine,12 ins.dia.,bears N.30°15'W.,57 lks
	dist..mkd.T 31 S R 22 E S 29 B T.
	Land,mountainous .
	Soil,sandy loam;2nd rate about 1 ft.deep.on solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous or heavily timbered land,80.00 chs.
	August 18,1911:At this cor.I set off 13°18'E.,on the decl arc;and at 0 h 4 m p.m.,l.m. t.,I observe the sun on the meridian,the resulting lat.is 38°05'N.,which is the proper lat.nearly.

	East on a random line bet.secs.28 and 33.
40.00	Set temp.¼ seccor.

Subl T.31 S.,R.22 E.-Continued.

Chains	
79.94	Intersect N.and S.line,at the cor.of secs.27,28,33,and 34.
	Thence I run
	West,on a true line bet.secs.28 and 33.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.gently.
9.60	Wash,20 lks.wide,6& ft.deep,course SE.
14.80	Enter heavy timber,bears N:and S.
20.50	Trail,bears N.20°E.and S.20°W.
	Top of ridge,70 ft.above cor.,bears N.20°E.and S.20°W.
	Desc.
21.60	Head of hollow,20 ft.below ridge,course N.20°E.
	Asc.
24.70	Leave heavy and enter scattering timber,bears N.and S.
39.00	Enter heavy timber,bears N.and S.
39.97	Set an iron post,3 ft.long,11 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 pinon pine,7 ins.dia.,bears N.75°30'W.,37 lks. dist..mkd. ¼ S 28 B T.
	A pinon pine,16 ins.dia.,bears S.37°16'E.,35 lks. dist..mkd.¼ S 33 B T.
45.00	Top of main ridge,150 ft.above hollow,bears N.20°W.and S. 20°E.
	Desc.
49.90	Ledge,8ft.high,bears NW.and SE.
70.90	Head of hollow,80 ft.below ridge,course S.20°W.
	ABc.
72.90	Top of ridge,30 ft.above hollow,bears N.and S.
77.80	Bottom of hollow,20 ft.below ridge,course S.
	Asc.
79.94	The cor.of secs.28 29,33,and 33.
	Land,mountainous.
	Soil,sandy loam;from 1 to 4 ft.deep,2nd rate.Subsoil,

Sub.T.31 S.,R.22 E.-Continued.-

Chains	
	solid rock.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth, 79.94 chs.
	August 18,1911.

August 19,1911:At 7 h 4 m p.m.,l.m.t.,I set off 38°05'N., on the lat.arc;13°04'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 mountainous land;through heavy timber and dense undergrowth.

Asc.

15.50 Top of ridge,150 ft.above sec.cor.,bears E.and W.

Desc.

26.60 Head of hollow,150 ft.below ridge,course NE.

Asc.gently.

31.00 Top of ridge,100 ft.above hollow,bears NE and SW.

Desc.

32.00 Top of ledge and edge of canon wall,250 ft.high,bears NW and E.

Note:The point for ¼ sec.cor.will fall in ledges where cor.cannot be set;therefore at

31.88 Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrouned by mound of earth and stone,for witness cor.to ¼ sec.cor.,mkd.on brass cap T 31 S R 22 E ~~In~~N.half. W C ¼ S 29 in W half and S 28 in E half;from which

A pinon pine,20 ins.dia.,bears S.69°30'E.,145 lks.dist..mkd.W C ¼ S 28 B T.

A pinon pine,7 ins.dia.,bears N.89°30'W.,45 lks. dist..mkd.W C ¼ S 29 B T.

40.00 Falls on sloping ledges cor.not set.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
59.00	Bottom of canon,8 0 ft.below ridge,course N.50°W.
	Asc.abruptly over ledges.
66.00	Top of smooth rocky ridge 100 ft.above canon,bears NE and SW.
	Desc.
69.00	Bottom of hollow,60 ft.below ridge,course SW.
	ASc.
74.00	Top of ledge,300 ft.above hollow,bears NE and N.80°W.
	Continue asc.
80.00	Point 400 ft.above canon.
	Set an iron post,3 ft.long,2 ins.in dia.,20 ins.in the ground,on solid rock,and surrouned by mound of stone, for cor.of secs.20,21,28,and 29,mkd.on brass cap
	T 31 S S 20 in NW.
	R 22 E S 21 in NE.
	S 28 in SE.;and
	S 29 in SW.quadrants;from which
	A ledge of sandstone,30 ft.high,bears N.44°E.,5 lks.dist..mkd.X B 0 S 21
	A pinon pine,8 ins.dia.,bears S.25°30'E.,68 lks. dist..mkd.T 31 S R 22 E S 28 B T.
	A pinon pine,8 ins.dia.,bears S.59°W.,34 lks. dist..mkd.T 31 S R 22 E S 29 B T.
	A sandstone ledge,30 ft.high,bears N.47°30'W.,13 lks.dist..mkd.X B 0.S 20.
	Land,mountainous .
	Soil,sandy from 1 to 2 ft.deep,underlaid with solid sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass foragrazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	August 19,1911:At this cor.I set off 12°58'N.,on the decl.arc;and at 0 h 4 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°06'N.,which

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	is the proper lat.nearly.
	East,on a random line bet.secs.21 and 28.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,2 lks.S.of the cor.of secs.21,22, 27,and 28.
	Thence I run
	S.89°59'W.,on a true line bet.secs.21 and 28.
	Over mountainous land;through dense undergrowth.
	Asc.
7.00	Enter heavy timber,bears N.20°E.and S.20°W.
	Leave dense xxxxxxxxxxxxxxx undergrowth,bears same.
15.00	Top of ridge,60 ft.above sec.cor.,bears N.30°E.and S.30°W.
	Desc.
17.90	Head of hollow,15 ft.below ridge,course N.20°E.
	Asc.
24.30	Top of ridge,30 ft.above hollow,bears N.30°E.and S.
	Desc.
27.00	Head of hollow,20 ft.below ridge,course N.30°E.
	Asc.
30.20	Leave heavy timber,and enter scattering timber and dense undergrowth,bears N.and S.
32.45	Trail,bears N.30°W.and S.30°E.
38.00	Top of main ridge,20 ft.above hollow,bears N.30°W.and S.30°E
	Desc.
38.10	Enter heavy timber,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 21 in N half and S 28 in S half;from which
	A cedar,10 ins.dia.,bears N.3°W.,25 lks. dist..mkd.¼ S 21 B T.
	A pinon pine,10 ins.dia.,bears S.13°W.,38 lks. dist..mkd.¼ S 28 B T.
42.00	Head of hollow,30 ft.below ridge,course SW;
	Asc

Sub.T. 31 S.,R.22 E.-Continued.

Chains	
58.00	Top of ridge,30 ft.above hollow,bears NE and SW.
	Desc.
62.00	Top of sloping ledge,300 ft.high,bears N.and S.
	Desc abruptly.over ledges.
72.00	Head of canon in solid rock,500 ft.below ridge,course S. 30°E.
	Asc.over ledges.
77.70	Top of ledge,100 ft.above canon,bears N.80°E.and N.20°W.
79.94	Foot of ledge 30 ft.high, bears N.60°W.and S.60°E.
80.00	The cor.of secs.20,21,28,and 29.
	Land,mountainous .
	Soil,sandy loam;2nd rate.from 1 to 2 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	August 19,1911.

August 21,1911:At 7 h 3 m a.m.,l.m.t.,I set off 38°06'N., on the lat.arc;al2°25'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 scattering timber,and dense undergrowth.

Asc.abruptly over ledges.

.06	Ledge 30 ft.high,bears N.50°W.and S.80°E.
3.00	Top of ridge,60 ft.above sec.cor.,bears N.70°E.and S.70°W.
	Desc.
15.20	Head of canon,50 ft.below ridge,course SW.
	Asc.abruptly over ledges.
24.00	Top of ledge,200 ft.high,bears E.and W.
29.00	Top of ridge,400 ft.above canon,bears NE and SW.
	Desc.
33.30	Head of canon,30 ft.below ridge,course S.30°W.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	Asc.
40.00	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 20 in W half and S 21 in E half;from which
	A pinon pine,5 ins.dia.,bears N.62°30'E.,37 lks. dist..mkd.¼ S 21 B T.
	A pinon pine,12 ins.dia.,bears N.68°30'W.,9 lks. dist..mkd.¼ S 20 B T.
48.00	Top of steep ascent,bears N.60°W.and S.60°E.
63.00	Top of main ridge 600 ft.above canon,bears N.20°W.and S.40° E.
	Desc.
74.00	Head of canon,100 ft.below ridge,course N.70°E.
	Asc.
80.00	Top of main ridge,40 ft.above canon,bears N.20°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.16,17,20,and 21,mkd.on brass cap
	T 31 S S 17 in NW.
	R 22 E S 16 in NE.
	S 21 in SE.and
	S 20 in SW.quadrants;from which
	A pinon pine,12 ins.dia.,bears N.47°E.,42 lks. dist..mkd.T 31 S R 22 E S 16 B T.
	A pinon pine,10 ins.dia.,bears S.71°30'E.,60 lks. dist..mkd.T 31 S R 22 E S 21 B T.
	A pinon pine,12 ins.dia.,bears S.29°W.,60 lks. dist..mkd.T 31 S R 22 E S 20 B T.
	A cedar,11 in.dia.,bears N.11°30'W.,117 lks. dist..mkd.T 31 S R 22 E S 17 B T.
	Land,mountainous
	Soil,sandy loam from 1 to 2 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,

Sub.T.31 S ,R.22 E.-Continued.

Chains	
	80.00 chs.
	August 21,1911:At this cor.I set off 12°19'N.,on the decl.arc;and at 0 h 3 m p.m.,l.m.t.,I observe the sun on the meridian the resutlign lat.is 38°07'N.,which is the proper lat.nearly.
	N.89°59'E.,on a random line bet.secs.16 and 21 .
40.00	Set temp ¼ sec.cor.
80.10	Intersect N.and S.line;7 lks.S.of the cor.of secs.15,16,21, and 22.
	Thence I run
	S.89°56'W.,on a true line bet.secs.16 and 21.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc.
8.00	Top of ridge,100 ft.above sec.cor.,bears NE and SW.
	Desc.
14.80	Bottom of hollow,30 ft.below ridge,course N.30°W.
	Asc.
23.00	Top of ridge,20 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
34.35	Bottom of hollow.130 ft.below ridge,course N.30°E.
	Asc.
40.06	Set an iron post,3 ft.long,1 in.in dia.,14 ins.in the ground,on rock,and surrouned by mound of stone,for ¼ sec. cor. mkd.on brass cap ¼ S 16 in N.half and S 21 in S half
	from which
	A pinon pine,16 ins.dia.,bears N.30°15'E.,41 lks dist. mkd.¼ S 16 B T.
	A pinon pine 12 ins.dia.,bears S.39°30'E.,54 lks dist. mkd.¼ S 21 B T.
50.00	Top of ridge,120 ft.above hollow,bears NE and SW.
	Desc.
63.90	Head of canon,60ft.below ridge,course N.60°E.
	Asc.

Sub.T.31 S.,R.22 E.-Continued.-

Chains	
76.20	Trail,bears N.and S.
80.10	The cor.of secs.16,17,20,and 21
	Land,mountainous .
	Soil,sandy loam;2nd rate.;from 1 to 2 ft.deep,on solid sandstone subsoil.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous or heavily timbered land,& land covered with dense undergrowth,80.10 chs.

August 21,1911.

August 22,1911:At 7 h 3 m a.m.,l.m.t.,I set off 38°07'N.,on the lat.arc;12°05'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.16,17,20,&nd 21.

Thence I run

N.0°03'W.,bet.secs.16 and 17.

Over mountainous land;through heavy timber and dense undergrowth.

Desc.

Chains	
3.50	Leave timber,bears E.and W.
20.00	Enter heavy timber,bears N.10°E.and S.10°W.
20.50	Bottom of canon,100 ft.below sec.cor.,course S.70°W.
	Asc.
29.50	Leave timber,bears NW and SE.
29.90	Trail,bears NW and SE.
30.00	Top of ascent and south edge of main ridge,bears N.20°W. and S 20°E.
	Thence along 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 17 in W half an and S 16 in E half;from which
	A pinon pine,10 ins.dia.mbears N.30°E.,845 lks. dist..mkd.¼ S 16 B T.

Sub.T.31 S. R.22 E.-Continued.

Chains

No other trees within limits;dig pits ,18x18x12 ins. N.and S.of post,3 ft.dist.;and raise a mound of earth,3½ ft.base, 1½ ft.high,W.of cor.

48.50 North edge of divide ridge,bears NW and S.20°E.

Enter heavy timber,bears same .

Desc.

62.00 Head of hollow,100 ft.below ridge,course NE.

Asc.

73.00 Top of ridge,30 ft.above hollow,bears N.20°E.and S.30°W.

Desc.

76.00 Bottom of hollow,50 ft.below ridge,course N.30°E.

Asc.

80.00 Top of ridge,30 ft.above hollow,bears N.60°E.and S.60°W.

Set an iron post,3 ft.long,2 ins.in dia.,16 ins.in the ground,on rock,and surrouned by mound of stone,for cor. of secs.8,9,16,and 17,mkd.on brass cap

T 31 S S 8 in NW.

R 22 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.63°15'E.,54 lks. dist..mkd.T 31 S R 22 E S 9 B T.

A pinon pine,8 ins.dia.,bears S.78°30'E.,73 lks. dist..mkd.T 31 S R 22 E S 16 B T.

A pinon pine,6 ins.dia.,bears S.3°30'W.,88 lks. dist..mkd.T 31 S R 22 E S 17 B T.

A pinon pine,7 ins.dia.,bears N.2°30'W.,86 lks. dist..mkd.T 31 S R 22 E S 8 B T.

Land,mountainous .

Soil,sandy loam from 1 to 3 ft deep,on solid sandstone.

Timber,cedarand pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

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

August 22,1911:At this cor.I set off 11°59'N.,on the

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	decl.are;and at 0 h 5 m p.m.l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°08'N.,which is the proper lat.nearly.
	———
	N.89°56'E.,on a random line bet.secs.9 and 16.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,10 lks.S.of the cor.of secs.9,10, 15,and 16.
	Thence I run
	S.89°52'W.,on a true line bet.secs.9 and 16.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc.
4.20	Top of ridge,30 ft.above cor.,bears NW and SW.
	Desc.
17.00	Bottom of hollow,60 ft.below ridge,course NE.
	Asc.
22.00	Top of ridge,30 ft.above hollow,bears NE and SW.
	Desc.
27.00	Bottom of hollow,20 ft.below ridge,course NE.
	Asc.
32.00	Edge of flat-ridge,60 ft.above hollow,bears N.30°E.and S.30°W.
40.02	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 9 in N half and S 16 in S half;from which
	A pinon pine,12 ins.dia.,bears N.15°W.,102 lks. dist.,mkd.¼ S 9 B T.
	A pinon pine,7,ins.dia.,bears S.85°45'W.,344 lks.dist.,mkd.¼ S 16 B T.
42.00	West edge of ridge,bears NE and SW.
	Desc.
51.70	Bottom of hollow,100 ft.below ridge,course N.30°E.
	Asc.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
63.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
72.80	Bottom of hollow,100 ft.below ridge,course N.20°E.
	Asc.
75.30	Top of ridge,30 ft.above hollow,bears N.20°E.and S.30°W.
	Desc.
77.30	Bottom of hollow,20 ft.below ridge,course N.30°E.
	Asc.
80.04	The cor.of secs.8,9,16,and 17.
	Land,mountainous .
	Soil,sandy loam;from 1 to 3 ft.deep,on rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.04 chs.

August 22,1911.

August 23,1911;At 7 h 3 m a.m.,l.m.t.,I set off 38°08'N on the lat.arc;11°45'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 dense undergrowth.

	Desc.
1.50	Head of hollow,20 ft.below sec.cor.,course N.80°E.
	Asc.
10.00	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc
20.00	Head of hollow,30 ft below ridge,course NE.
	Asc.

Sub.T.31 S.,R.22 E.-Continued.-.

Chains

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

40.00 Point 50 ft.below ridge .
Set an 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 pinon pine,18 ins.dia.,bears N.77°E. 132 lks. dist..mkd.¼ S 9 B T.
A pedar,16 ins.dia.,bears N.19°30'W.,177 lks. dist..mkd.¼ S 8 B T.

42.90 Bottom of hollow 100 ft.below ridge,course N.40°E.
Asc.

51.00 Top of ridge,20 ft.above hollow,bears N.80°E.andS80°W.
Desc.

55.00 Bottom of hollow,20 ft.below ridge,course E.
Asc.

59.30 Trail,bears N.60°W.and S.80°E.

66.00 Foot of sloping sandstone ledges,bears N.30°W.and S.30°E.

77.00 Top of ridge,100 ft.above hollow,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.4,5,8,and 9,mkd.on brass cap
T 31 S S 5 in NW.
R 22 E S 4 in NE.
S 9 in SE.;and
S 8 in SW.quadrants;from which
A pinon pine,12 ins.dia.,bears N.2°30'E.,242 lks.dist..mkd.T 31 S R 22 E S 4 B T.
A pinon pine,10 ins.dia.,bears S.22°15'E.,145 lks.dist..mkd.T 31 S R 22 E S 9 B T.
A cedar,8 ins.dia.,bears S.26°30'W.,151 lks. dist..mkd.T 31 S R 22 E S 8 B T.
A pinon pine,12 ins.dia.,bears N.10°45'W.,306 lks.dist..mkd.T 31 S R 22 E S 5 B T.
Land,mountainous .
Soil,sandy from 1 to 2 ft.deep,on solid rock.

Sub.T.31 S.,R.22 E.-Continued.-

Chains	
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	August 23,1911At this cor.I set off 11°39'E.,on the decl. arc;and at 0 h 3 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is [illegible]°38°09'N.,which is the proper lat.nearly.
	N.89°52'E.,on a random line bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line,12 lks.N.of the cor.of secs.,3,4, 9,and 10.
	Thence I run
	S.89°57'W.,on a true line bet.secs.4 and 9.
	Over mountainous land;through heavy timber and dense undergrowth.
	Desc.abruptly over ledges.
9.00	Bottom of hollow,250 ft.below cor.,course N.30°W.
	Asc.
13.00	Top of ridge,100 ft.above hollow,bears N.30°W.and S.30°E
	Desc.abruptly.
19.00	Bottom of canon,200 ft.below ridge,course N.30°W.
	Asc.abruotly over ledges.
31.90	Top of abrupt ascent,bears NE and SW.
	Leave ledges,bears NE and 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 4 in N half and S 9 in S half;from which
	A pinon pine,5 ins.dia.,bears N.48°30'E.,139 lks.dist.,mkd. ¼ S 4 B T.
	A pinon pine,16 ins.dia.,bears S.44°15'E.,168 lks.dist..mkd.¼ S 9 B T.

Sub.T.31 S.,R.22 E Continued.-.

Chains	
44.00	Top of ridge,600 ft.above canon,bears N.and S.
	Desc.
46.60	Head of hollow,30 ft.below ridge,course S.
	Asc.
55.60	Foot of sloping ledge,50 ft.high,bears NE and SW.
56.60	Top of same ledge,bears same.
70.00	Top of steep ascent,bears NE and SW.
	Leave heavy and enter scattering timber,bears N.and S.
79.92	The cor.of secs.4,5,8,and 9.
	Land,mountainous.
	Soil,sandy loam;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,79.92 chs.

August 23,1911.

August 24,1911:At 7.h 3 m a.m.,l.m.t.,I set off 38°09'N on the lat.arc;11°24'W.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.4,5,8,and9.

Thence I run

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

Over mountainous land;through heavy timber and dense undergrowth.

Desc.gently.

1.30	Trail,bears NE and SW.
	Top of ridge,bears NE and SW.
	Desc,
7.00	Head of hollow,30 ft.below ridge,course N.80°W.
	Asc.
7.60	Leave timber,bears SE.and W.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
12.00	Top of ridge,30 ft.above hollow,bears E.and W.
	Desc.
17.50	Enter heavy timber,bears E.and W.
23.90	Bottom of hollow,50 ft.below ridge,course N.30°E.
	Asc.
25.00	Top of ridge,20 ft.above hollow,bears N.30°E.and S.30°W
	Desc.
32.80	Bottom of hollow,30 ft.below ridge,course N.60°W.
	Asc.
35.00	Top of ridge,30 ft.above hollow,bears N.80°W.and S.80°E.
	Desc.
39.60	Bottom of canon,50 ft.below ridge,course NE
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on soild rock,and surrouned by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 5 in Whalf and S. 4 in E half;from which.
	A pinon pine,6 ins.dia.,bears N88°E.,61 lks. dist..mkd.¼ S 4 B T.
	A cedar,11 ins.dia.,bears S.32°W.,84 lks. dist..mkd.¼ S 5 B T.
43.80	Trail,bears E.and W.
54.00	Top of ridge,50 ft.above canon,bears E.and W.
	Desc.
59.90	Bottom of hollow,40 ft.below ridge,course N.70°E.
	Asc.
62.50	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
67.40	Bottom of hollow,20 ft.below ridge,course S.30°E.
	Asc.
80.50	Top of south side of flat ridge,100 ft.above hollow, bears E.and W.
	Asc.gently.
93.50	leave ridge,bears N.70°E.and S.70°W.

Sub.T.31 S.,R.22 E.-Continued.

Chains	Desc.
99.60	Trail,bears NE and SW.
100.00	Bottom of canon,150 ft.below ridge,course NE.
	Asc.abruptly.
115.50	South edge of mesa,or flat ridge,200 ft.above canon, bears N.60°E.and S.60°W.
122.14	Intersect 6th Standard Parallel South,8.81 chs.East of the Standard cor.of secs.32 and 33,heretofore described.

Set an iron post,3 ft.long,2 ins.in dia.,12 ins.in the ground,on solid rock,and surrouned by mound of stone, for closing cor.of secs.4 and 5,mkd.on brass cap

C C T 30 S R 22 E S 32 S 33 in N half.

S 4 in SE.;and

S 5 in SW.quadrants;from which

A pinon pine,12 ins.dia.,bears S.45°E.,15 lks. dist..mkd.T 31 S R 22 E S 4 B T.

A pinon pine,12 ins.dia.,bears S.40°15'W.,123 lks.dist..mkd.T 31 S R 22 E S 5 B T.

Land,mountainous.

Soil,sandy loam;2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense unedergrowth,122.14 chs.

August 24,1911.

Scott P. Stewart

U.S.Transitman.

August 18,1911:At 7 h 3 m a.m.,l.m.t.,I set off 38°04'N on the lat.arc;13°23'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°05'W.,bet.secs.31 and 32.
	Over rough mountainous land;through heavy timber and scattering undergrowth.
	Desc.
4.10	Bottom of hollow,30 ft.below sec.cor.,course W.
	Asc.over ledges.
8.20	Top of abrupt ascent,bears N.70°W.and S.70°E.
18.00	Top of ridge,200 ft.above hollow,bears E.and W.
	Desc.over ledges.
33.30	Bottom of canon,700 ft.below ridge,course W.
	Asc.
33.90	Drag road,bears E.and W.
3955	Foot of sloping sandstone ledge,300 ft.high,bears E.and W.
	Note:The ¼ sec.cor.will fall on the face of this ledge where a corner cannot be set;therefore at this point I 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 31 S R 22 E in N half W C ¼ S 31 in W half;and S 32 in E half;from which
	A pinon pine,6 ins.dia.,bears S.84°30'E.,112 lks.dist..mkd.W C ¼ S 32 B T.
	A cedar,8 ins.dia.,bears S.31°45'W.,28 lks. dist..mkd.¼ S 31 B T. W C .
40.00	Falls on inaccessable ledge.
42.10	Top of ledge,bears E.and W. Asc.gently.
46.10	Asc.abruptly.bears E.and W.
59.75	Top of abrupt ascent,bears E.and W.
64.40	Top of ridge,800 ft.above canon,bears N.65°E.,and S.65° W.
	Desc.
71.40	Desc.over ledges,bears N.70°E.and S.70°W.
75.20	Desc.more abruptly,bears N.70°E.and S.70°W.

Chains

78.30 Bottom of canon,250 ft.below ridge,course S.70°W.

Asc.

79.35 North edge of canon,bears E.and W.80 ft.above canon.

80.00 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 cor.of secs.29,30,31,and 32,mkd.on brass cap

T 31 S S 30 in NW.

R 22 E S 29 in NE.

S 32 in SE.;and

S 31 in SW.quadrants;from which

A pinon pine,6 ins.dia.,bears N.67°E.,114 lks. dist..mkd.T 31 S R 22 E S 29 B T.

A pinon pine,10 ins.dia.,bears S.71°30'E.,130 lks.dist..mkd.T 31 S R 22 E S 32 B T.

A pinon pine,5 ins.dia.,bears S.74°30'W.,130 lks.dist..mkd.T 31 S R 22 E S 31 B T.

A pinon pine,10 ins.dia.,bears N.24°W.,128 lks. dist..mkd.T 31 S R 22 E S 30 B T.

Land,very rough mountainous land.

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

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

August 18,1911.;At this cor.I set off 13°18'E.,on the decl.arc;and at 0 h 3 m p,m.,l.m.t.,I observe the sun on the meridian;the resulting.lat.is 38°05'N.,which is the proper lat.nearly.

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

40.00 Set temp.¼ sec.cor.

80.16 Intersect N.and S.line,2 lks.S.of the cor.of secs.28,29, 32,and 33.

Thence I run

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	S.89°59'W.,on a true line bet.secs.29 and 32.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
1.60	Top of ridge,20 ft.above sec.cor.,bears N.30°W.and S.
	Desc.
2.70	Bottom of hollow,10 ft.below ridge,course S.10°E
	Asc.
5.60	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
7.50	Bottom of hollow,20 ft.below ridge,course S.
	Asc.
10.00	Top of ridge,20 ft.above hollow,bears N.and S.
	Desc.
12.30	Bottom of hollow,20 ft.below ridge,course S.40°W.
	Asc.
14.20	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
16.70	Begin abrupt descent,bears N.and S.
26.70	Edge of box canon,bears N.and S.
	Desc.abruptly over ledges.
38.50	Bottom of canon,500 ft.below ridge,course S.
	Asc.abruptly over ledges.
40.08	Falls on sloping ledges,impossible to set cor.
49.39	Top of ledges and west edge of box canon,bears N.40°E.and S.
	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 witness cor.to ¼ sec.cor..mkd.on brass cap T 31 S R 22 E W C ¼ S 29 in N half;and S 32 in S half;from which
	A pinon pine,6 ins.dia.,bears N.1°E.,40 lks. dist..mkd.W C ¼ S 29.B T.
	A pinon pine,12 ins.dia.,bears S.22°45'W.,169 lks.dist..mkd.W C ¼ S 32 B T.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
52.00	Top of ridge,400 ft abvove canon,bears N.30°E.and S.30°W
	Desc.
58.70	Begin abrupt descent,bears N.20°E.and S.20°W.
60.10	Ledge,40 ft.high,bears N.20°E.and S.20°W.
67.00	Foot of abrupt descent,bears N.30°E. and SW.
71.00	Head of canon,300 ft.below ridge,course S.70°W.
	Continue descent along north side of canon.
74.40	Wash,20 lks.wide,4 ft.deep,course SW.
80.16	The cor.of secs.29,30,31,and 32.
	Land,mountainous .
	Soil,sandy loam;2nd rate.from 1 ft.to 2 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.16 chs.

August 18,1911.

August 19,1911:At 7 h 3 m a.m.,l.m.t.,I set off 38°05'N on the lat.arc;13°04'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.29,30,31, and 32.

Thence I run

West,on a random line bet.secs.30 and 31.

40.00	Set temp. sec.cor.
66.90	Intersect W.bdy.of Tp.,at 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 rolling land;through dense undergrowth, and heavy timber.

Desc.gently.

.10	West bank of wash,6 ft.high,bears N.20°E.and S.20°E.
1.65	Indian Creek,20 lks.wide,6 ins.deep,course N. in bottom of Indian canon,
1.80	East bank of wash,10 ft.high,bears N.20°E.and S.

Chains	
2.20	Wire fence,bears S.20°E.and N.20°W.30 lks.thence N.40°E.
5.75	Note:From this point the center of north side of hay stack bears S.25°E.,120 lks.dist.The north side of cable strung on hay pole bears S.25°E.,20 lks.dist.Gate in fence bears S.52°E.,160 lks. dist.
6.30	Road,to Dugout Ranch,bears N.10°W.and SE.
8.50	Leave canon bottom,bears NW and SE. Asc.abruptly over ledges and boulders .
8.90	Old fence ,bears N.55°E.and S.55°W.
9.50	Telephone line from Monticello to Dugout's ranch bears NW and S.20°E.
15.40	Foot of sloping sand ledge,200 ft.high,bears NW and S.70° E.
19.30	Top of smooth ledge 600 ft.above canon,bears N.and S. Desc.over small sandstone ridges and gullies.
26.90	Point for ¼ sec.cor.falls on smooth sandstone ledge,where cor.cannot be set therefore at the nearest safe point
29.00	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 witness cor.to ¼ sec.cor.,mkd.on brass cap W C T 31 S R 22 E S 30 in N half;and S 31 in S half.;from which A pinon pine,16 ins.dia.,bears N.51°40'E ,32 lks. dist..mkd.W C ¼ S 30 B T.✓ A cedar,12 ins.dia.,bears S.80°E.,61 lks. dist..mkd.W C ¼ S 31 B T.✓
37.00	Bottom of gully in solid rock,70 ft.below cor.,course SW Asc.over ledges.
44.80	Ledge 20 ft.high,bears N.20°E.and S.20°W.
47.00	Top of ridge,200 ft.above hollow,bears NE and SW. Desc.
49.50	Ledge,15 ft.high,bears NE and SW.
51.45	Ledge 35 ft.high,bears NE and SW.
59.85	West edge of canon,bears NE and SW.
61.00	Bottom of canon in solid rock,200 ft.below ledge course S.20°W. Asc.

Sub.T.31 S.,R.22 E.-Continued..

Chains	
64.80	East edge of canon,100 ft.above bottom,bears N.and S.
66.90	The cor.of secs.29,30,31,and 32.
	Land,mountainous ,and rolling canon bottom.
	Soil, sandy loam;from 1 ft.to 4 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,66.90 chs.
	August 19,1911:At this cor.I set off 12°58'E.,on the decl. arc;and at 0 h 3 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°05'N.,which is the proper lat.nearly.

N.0°03'W.,bet.secs.29 and 30.

Over mountainous land;through heavy timber. and scatterin undergrowth.

Asc.

5.50	Top of ridge,50 ft.above sec.cor.,bears NE and SW.
	Desc.
20.30	Bottom of hollow,30 ft.below ridge,course S.10°W.
	Asc.
21.85	Ledge,100 ft.high,bears N.20°E.and NW.
	Continue ascent.
31.76	Ledge 40 ft.high,bears N.20°E.and N.70°W.
38.00	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.,12 ins.in the ground,fon solid rock,and surrouned by mound of stone, for ¼ sec.cor..mkd.pn Brass cap ½ S 30 in W half;and S 29 in E half;from which

A pinon pine,12 ins.dia.,bears S.11°30'E.,51 lks. dist..mkd.½ S 29 B T.

A pinon pine,14 ins.dia.,bears N.81°15'W.,77 lks. dist..mkd.½ S 30 B T.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
40.25	Head of hollow,30 ft.below ridge,course SW.
	Asc.
47.50	Top of ridge,50 ft.above hollow,bears N.70°E.and S.70°W.
	Desc.
54.00	Bottom of hollow,80 ft.below ridge,course N.60°W.
	Asc.
66.00	Top of ridge,100 ft.above hollow,bears NW and SE.
	Desc.over ledges.
72.40	Top of 200 ft.sloping ledge,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.19,20,29,and 30,mkd.on brass cap
	T 31 S S 19 in NW.
	R 22 E S 20 in NE.
	S 29 in SE.;and
	S 30 in SW.quadrants;from which
	A pinon pine,8 ins.dia.,bears S.56°15'E.,15 lks. dist..mkd.T 31 S R 22 E S 29 B T.
	A pinon pine,6 ins.dia.,bears S.20°30'W.,70 lks. dist..mkd.T 31 S R 22 E S 30 B T.
	A pinon pine,8 ins.dia.,bears N.89°W.,41 lks. dist..mkd.T 31 S R 22 E S 19 B T.
	No other trees within limits;raise a mound of stone,2 ft. base,1½ ft.highnW.of cor.
	Land,mountainous
	Soil,sandy loam;from 1 to 2 ft.deep,underlaid with solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	August 19,1911.

August 21,1911;At 7 h 3 m a.m.,l.m.t.,I set off 38°06'N., on the lat.arc;12°25'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.19,20,29,and

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	30.
	Thence I run
	N.89°59'E.,on a random line bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line 12 lks.N.of the cor.of secs.20,21,28, and 29.
	Thence I run
	N. 89°56'W.,on a true line bet.secs.20 and 29.
	Over rough mountainous land;through scattering timber and scattering undergrowth.
	Desc.over ledges.
10.00	Foot of ledges,bears N.85°W.,and SE.
	Thence along foot of ledges.
14.00	Head of hollow,200 ft.below sec.cor.,course S.
	Asc.
19.10	Top of rocky spur,200 ft.above hollow,bears N.and S.
	Desc.
21.00	Foot of ledges,bears N.and S.
24.00	Bottom of canon,25 ft below ridge,course S.
	Asc.
29.00	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
31.20	Bottom of hollow,40 ft.below ridge,course S.20°E.
	Asc.
37.60	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
39.70	Bottom of hollow,40 ft.below ridge,course S.
	Asc.
40.02	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 ½ S 20 in N half and S 29 in S half;from which
	A pinon pine,8 ins.dia.,bears S.30°55'E.,93 lks. dist.mkd.¼ S 29 B T.
	A cedar,4 ins.dia.,bears N.57°W.,67 lks. dist..mkd.¼ S 20 B T.

Sub.T.31 S.,R.22 E.-Continued.

Chains

40.30 Top of ridge,35 ft.above hollow,bears N.20° E.and S.20°W.

Desc.

52.00 Bottom of hollow,100 ft.below ridge,course S.

Asc.

53.00 Foot of ledge,80 ft.bears N.80°E.and S.80°W.

54.50 Top of ledge and ridge,400 ft.above hollow,bears N.and S.

Desc.abruptly over ledges.

56.35 Foot of ledges,bears N.20°E.and S.20°W.

63.00 Foot of abrupt descent,bears N.20°W.and S.20°E.

63.50 Drag road,bears NW and SE.

70.00 Bottom of canon,600 ft.below ridge,course N.W.

Asc.

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

Land,mountainous.

Soil,sandy loam;2.nd rate. very shallow .on rock.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,80.04 chs.

August 21,1911.

August 22,1911:At 7 h 3 m a.m.,l.m.t.,I set off 38°06'N.,

on the alt .arc;12°05'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

West,on a random line bet.secs.19 and 30.

40.00 Set temp.¼ sec.cor.

66.76 Intersect W.bdy.of Tp.,5 lks.S.of the point for cor.of sec

19,24,25,and 30,which is 100 lks.South of the witness

cor.,heretofore described.

Thence I run

S.89°58'E.,on a true line bet.secs.19 and 30.

Over nearly level cultivated land;belonging to J.J.Davi

Chains	
5.50	Leave cultivated land,bears N.and S.
5.60	Davis ditch,3 lks.wide,course N.Enter dense undergrowth.
9.50	Fence ,bears N.72°E.and S.72°W.
14.00	Leave Indian canon bottom,asc.abruptly over ledges. bears N.and S.
23.80	Top of ledges,600 ft.above canon,bears N.30°W.and S.30°E. Asc.over broken sand ledges. Enter scattering timber.
26.76	Point for ¼ sec.cor.falls on slick ledge,point inaccessable therefore at
27.04	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for witness cor.to ¼ sec.cor..mkd.on brass cap T 31 S R 22 E W C ¼ S 19 in N half and S 30 in S half;from which
	A pinon pine,5 ins.dia.,bears N.54°30 'W.,37 lks. dist..mkd. W C¼S 19 B T.
	A pinon pine,12 ins.dia.,bears S.74°E.,199 lks. dist..mkd.W C ¼ S 30 B T.
52.0	Top of ridge,900 ft.above canon,bears NW and SE. Desc.abruptly over ledges.
60.00	Top of sloping ledge 200 ft.high,bears NW and SE.
66.76	The cor.of secs.19,20,29,and 30,800 ft.below ridge,. falls

Land,mountainous and level.

Soil,sandy loam;from 1 to 3 ft.deep,in the canon bottom subsoil is gravel on balance of mile subsoil is rock.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 61.36 chs.

August 22,1911:At this cor.I set off 11°59'E.,on the decl. arc;and at 0 h 3 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 38°06'N.,which is the proper lat.nearly.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	N.0°03'W.,bet.secs.19 and 20.
	Over mountainous land;through scattering timber.and dense sage brush.
	Desc.
10.00	Wash,40 lks.wide,5 ft.deep, n bottom of canon,175 ft.below sec.cor.,course NW.
	Asc
11.00	Drag road,bears NW and SE.
17.80	Top of ridge,40 ft above canon,bears E.and W.
	Desc.
21.10	Bottom of canon,80 ft.below ridge,course W.
	Asc.
23.50	Foot of talus ascend abruptly, bears E.and W.
30.00	Foot of ledges,bears E.and W.
	Asc.abruptly.
30.80	Top of ledge,bears E.and W.
35.00	Top of ridge,600 ft.above canon,bears E.and W.
	Desc.abruptly over ledges.
40.00	Cor. Falls on ledges,cannot be set.
51.75	Nearest safe point 300 ft.below ridge at foot of ledges, bears N.70°E.and S.70°W.
	Set an iron post,3 ft.long,1 in.in dia.,18 ins.in the ground,on solid rock,and surrouned by mound of stone, for witness cor.to ¼ sec.cor..mkd.on brass cap T 31 S R 22 E in N half W C ¼ S 19 in W half and S 20 in E half
	from which
	A cedar,8 ins.dia.,bears S.73°45'E.,77 lks. dist..mkd.W C ¼ S 20 B T.
	A sandstone boulder 5x5x3 feet bears S.21°W., 38 lks.dist..mkd.W C ¼ S 19 B O.
54.25	Bottom of canon,450 ft.below ridge,course N.70°W. Asc.
60.00	Top of spur,175 ft.above ledge, bears E.and W.Desc.over ta
67.80	Bottom of canon,bears S.60°W.500 ft.below spur. Asc.
75.00	Foot of ledges,bears N.70°W.and S.70°E. 300 ft.above canon.
76.50	Top of 300 ft.ledge,bears N.70°W.and S.70°E.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,12 ins.in the

Sub.T.31 S.,R.22 E.-Continued.

Chains

ground,on solid rock,and surrounded by mound of stone, for cor.of secs.17,18,19,and 20,mkd.on brass cap

T 31 S S 18 in NW.

R 22 E S 17 in NE.

S 20 in SE.;and

S 19 in SW.quadrants;from which

A cedar,16 ins.dia.,bears N.65°30'E.,56 lks. dist..mkd.T 31 S R 22 E S 17 B T.

A pinon pine,8 ins.dia.,bears S.20°E.,142 lks. dist..mkd.T 31 S R 22 E S 20 B T.

A cedar,6 ins.dia.,bears S.22°15'W.,125 lks. dist..mkd.T 31 S R 22 E S 19 B T.

A cedar,6 ins.dia. nears N.84°W.,8 lks. dist..mkd.T 31 S R 22 E S 18 B T.

Land,rough mountainous .

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

Undergrowth,sage brush.

Timber,cedar and pinon pine.

Gndd grass for grazing.

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

August 22,1911.

August 23,1911:At 7 h 3 m a.m.,l.m.t.,I set off 38°07'N on the lat.arc;11°45'E.,on the decl.arc;and determine a meridian with the solar;at the cor.of secs.17,18,19,and 20.

Thence I run

S.89°56'E.,on a random line bet.secs.17 and 20.

40.00 Set temp. sec.cor.

80.06 Intersect N.and S.line,10 lks.S.of the cor.of secs.16,17, 20,and 21.

Thence I run

West,on a true line bet:secs.17 and 20.

Over mountainous land;through heavy timber and dense

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	undergrowth.
	Desc.
3.90	Head of hollow,20 ft.below sec.cor.,course N.
	Asc.
8.00	Top of ridge,20 ft.above hollow,bears N.and S.
	Desc.
15.00	Begin more abrupt descent,bears N.and S.
25.00	Bottom of hollow,120 ft.ft.below ridge,course SW.
	Asc.
31.00	Top of ridge,20 ft.above hollow,bears N.60°E.and S.60°W.
	Desc:abruptly.
40.03	Set an iron post,3 ft.long,1 in.in dia.,14 ins.in the ground,on solid rock,and surrouned by moundof stone, for ¼ sec.cor,1mkd.on brass cap ¼:S 17 in N half and S 20 in S half;from which
	A pinon pine,7 ins.dia.,bears N.32°30'W.,18 lks. dist..mkd.¼ S 17 B T.
	A pinon pine,7 ins.dia.,bears S.42°30'E.,43 lks. dist..mkd.¼ S 20 B T.
42.00	Top of ledge,on east edge of box canon,bears N.30°E. and S.30°W.
	Desc.abruptly.
57.00	Bottom of box canon,700 ft.below ridge,course SW.
	Asc.abruptly over ledges.
76.00	Top of ledge,200 ft.high,bears NE and SW.
80.06	The cor.of secs.17,18,19,and 20,600 ft.above canon.
	Land,rough mountainous.
	Soil,sandy loam about 2 ft.deep,underlaid with sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.06 chs.
	August 23,1911:At this cor.I set off 11°39'N.,on the de cl. arc;and.at 0 h 3 m p. .l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°07'N.,which is the

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	proper lat.nearly.
	N.89°58'W.,on a random line bet.secs.18 and 19.
40.00	Set temp.¼ sec.cor.
66.60	Intersect W.bdy.of Tp.,at the cor.of secs.13,18,19,and 24,heretofore described.
	Thence I run
	S.89°58'E.,on a true line bet.secs.18 and 19.
	Over mountainous land;through scattering timber and scattering undergrowth.
	Desc.
3.00	Bottom of hollow,40 ft.below sec.cor.,course S.
	Asc.
4.55	Sand boulder 15x10x8 ft.on top of ridge,20 ft.above hollow, bears N.and S.
	Desc.
6.70	Bottom of hollow,30 ft.below ridge,course S.10°W.
	Asc.
8.60	Top of ridge,20 ft.above hollow,bears N.10°E.and S.10°W.
	Desc.
10.00	Wash,50 lks.wide,3 ft.deep;in bottom of canon,40 ft.below ridge,course S.
	Asc.
19.00	Begin abrupt ascent,bears N.and S.80°W.
21.80	Top of ridge,50 ft.above canon,bears N.80°W.and S.80°E.
	Desc.
24.00	Bottom of hollow,25 ft.below ridge,course N.10°W.
	Asc.
26.60	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 18 in N half and S 19 in S half;from which
	A cedar,6 ins.dia.,bears N.15°30'W.,121 lks. dist..mkd.¼ S 18 B T.
	A pinon pine,6 ins.dia.,bears S.71°W.,60 lks. dist..mkd.¼ S 19 B T.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
28.30	Top of ridge,30 ft.above hollow,bears N.10°W.and S.10°E
	Desc.
33.50	Bottom of hollow,30 ft.below ridge,course N.30°W.
	Asc.
35.50	Ledge,20 ft.high,bears N.10°E.and S.10°W.
41.00	Top of abrupt ascent,bears N.and S.
47.90	Top of flat ridge,825 ft.above canon,bears NE and SW.
	Desc.
	Note:The NW cor.of West cabin at Dugout Ranch,bears S.71°25'W.,about 1 mile and one half dist.
50.10	Leave ridge top ,bears NE and SW.
	Desc.
55.10	Foot of abrupt descent,bears NE and SW.
62.20	Descent abruptly.,bears N.40°E.and S.
62.50	Foot of 40 ft.ledge,bears N.40°E.and S.
66.60	The cor.of secs.17,18,19,and 20.
	Land,rough mountains.
	Soil,sandy loam;from 1 to 2 ft.deep,on solid sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,66.60 chs.

August 23,1911.

August 24,1911.:At 7 h 3 m a.m.,l.m.t.,I set off 38°07'N on the lat.arc;11°24'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 rough mountainous land;through heavy timber and scattering undergrowth.

Asc.over ledges.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
1.50	Top of ascent 50 ft.above sec.cor.,bears N.40°W.and E. Continue ascent.
18.40	Ascend abruptly,bears N.10°E.and S.10°W. on ledges.
28.00	Top of ridge,175 ft.above sec.cor.,bears N.20°E.and S.20° W.
	Desc.
33.30	Bottom of hollow,30 ft.below ridge,course S.30°W.
	Asc.
39.30	Top of ridge,50 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 18 in W half and S 17 in E half;from which
	A pinon pine,10 ins.dia.,bears N.44°15'E.,19 lks.dist..mkd.¼ S 17 B T.
	A pinon pine,6 ins.dia.,bears N.48°09'W.,14 lks.dist..mkd.¼ S 18 B T.
	August 24,1911:At this cor.I set off 11°19'N.,on the decl. arc;and at 0 h 3 m p.m. l.m.t.,I observe the sun on the meridian the resulting lat,is 38°08'N.,which is the proper lat.nearly.
45.00	Bottom of canon,75 ft.below ridge,course S.60°W.
	Asc.over ledge.
60.00	Top of ridge,375 ft.above canon,bears N.80°E.and S.80° W.
	Desc.
68.00	Begin more abrupy descent,bears N.40°E.and S.70°W.
78.00	Foot of steep descent,600 ft.below ridge,bears E.an W.
80.00	Set an iron post,3 ft.long,2 ins.in the dia.,12 ins.in the ground,on solid rock,and surrouned by mound of stone, for cor.of secs.7,8,17,and 18,mkd.on brass cap
	T 31 S S 7 in NW.
	R 22 E S 8 in NE.
	S 17 in SE.;and
	S 18 in SW.quadrants;from which
	A pinon pine,4 ins.dia.,bears N.52°30'E.,85 lks.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	dist..mkd.T 31 S R 22 E S 8 D T.
	No other trees within limits;raise a mound of stone,
	2 ft.base,1½ ft.high,W.of cor.
	Land,rough mountainous.
	Soil,sandy loam about 2 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous or heavily timbered land,80.00 chs.
	August 24,1911.
	August 25,1911:At 7 h 3 m a.m.,l.m.t.,I set off 38°08'N.,
	on the lat.arc;11°04'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
	East,on a random lin bet.secs.8 and 17.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,at the cor.of secs.8,9,16,and 17.
	Thence I run
	West,on a true line bet.secs.8 and 17.
	Over mountainous land;through heavy timber and scattering
	sage brush.
	Asc.
14.00	Top of ridge,75 ft.above sec.cor.,bears N.10°E.and S.10°
	W.
	Desc.
20.10	Bottom of hollow,50 ft.below ridge,course N.
	Asc.
23.70	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
33.80	Bottom of canon,75 ft.below ridge,course N.35°E.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,13 ins.in the

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	ground,on solid rock,and surrouned 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,10 ins.dia.,bears N.26°40'E.,66 lks. dist..mkd.¼ S 8 B T. ✓
	A pinon pine,8 ins.dia.,bears S.30°E.,33 lks. dist..mkd.¼ S 17 B.T. ✓
	August 25,1911:At the noon hour the sky is overcast and solar observations are impossible.
45.00	Leave heavy timber and enter scattering timber,and dense undergrowth,N.20°E.and S.20°W.
45.80	Top of ridge,75 ft.above hollow,bears N.and S.
	Desc.
50.00	Head of hollow,15 ft.below ridge,course N.
	Asc.
55.00	Trail,bears N.20°E.and S.20°W.
	Top of main ridge,25 ft.above hollow,bears N.20°E.and S 20°W.
	Enter heavy timber,bears N.20°E.and S.20°W.
	Desc.
66.00	Desc.abruptly over smooth white sandstone ledges,bears N.20°E.and S.20°W.
69.20	Desc.over broken ledges,bears N.20°E.and S.20°W.
79.00	Foot of abrupt descent 400 ft.below ridge,bears N.and S
80.00	The cor.of secs.7,8,17,and 18. ✓
	Land,mountainous.
	Soil,sandy from 1 to 2 ft.deep,on solid rock.
	Undergrowth,sage brush.
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	August 25,1911.

August 26,1911. At 7 h 2 m a.m.,l.m.t.,I set off 38°08'N.,

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	on the lat.arc;10°43'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°58'W.,on a random line bet.secs.7 and 18.
40.00	Set temp.¼ sec.cor.
66.48	Intersect W.bdy.of Tp.,2 lks.S.of the 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 land;through scattering timber and scattering undergrowth.
	Asc.
.60	Top of ridge,12 ft.above cor.,bears N.20°E.and S.20°W.
	Desc.
1.60	Wash,40 lks.wide,4 ft.deep,in bottom of canon, 40 ft. below ridge,course S.20°W.,comes from east.
	Asc.gradually.
7.50	Leave canon;comes from N.30°E.
	Asc.
11.00	Asc.abruptly,bears N.60°E.and S.60°W.
16.50	Top of ridge,50 ft.above canon;bears N.20°E.and S.20°W.
	Desc.
25.00	Bottom of hollow,20 ft.below ridge,course N.10°W.
	Asc.
26.48	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S in N half and S 18 in S half;from which
	A pinon pine,8 ins.dia.,bears N.56°50'W.,58 lk. dist..mkd.¼ S 7 B T.
	A pinon pine,8 ins.dia.,bears S.34°W.,116 lks. dist..mkd.¼ S 18 B T.
	August 26,1911:At this cor.I set off 10°37'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°08I'N .,which is the pr per lat.nearly.

Sub.T.31 S.,R.22 E.-Continued.

Chains

32.35 Top of ridge,50 ft.above hollow,bears N.and S,
Desc.

45.25 Bottom of hollow,35 ft.below ridge,course N.
Asc.abruptly.

52.30 Top of ledge,100 ft.high,bears N.70°E.and S.70°W.
Desc.gently.

64.50 Begin abrupt ascent,bears N.and S.

65.80 Top of steep ascent,100 ft.high,bears N.and S.

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

Land,mountainous very rough.

Soil,sandy loam about 1 ft.deep.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,66.48 chs.

August 26,1911.

August 28,1911:At 7 h 2 m a.m.,l.m.t.,I set off 38°03'N on the l r.arc.10°01'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.7,8,17,and 18.

Thence I run

N.0°03'W.,bet.secs.7 and 8.

Over mountainous land;through scattering timber and scattering undergrowth.

Desc.

1.00 Bottom of canon,20 ft.below sec.cor.,course N.80°W.
Asc.

1.90 Ascend over ledges,bears N.and W.

12.20 Top of ledge,75 ft.high,bears N.70°E.and S.70°W.
Asc.over smooth ledges.

18.90 Top of sandstone ridge,500 ft.above canon,bears N.and W.
Desc.

24.00 Bottom of hollow,150 ft.below ridge,course S.70°W.
Asc.abruptly.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
25.40	Top of ridge,30 ft.above hollow,on edge of canon,bears E and W.
	Note:The ¼ sec.cor.will fall in smooth ledges where it will be impossible to perpetuate the 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 31 S R 22 E in N half W.C ¼ S 7 in W half; and S 8 in E half and raise a mound of stone,2 ft.base,1½ ft.high,W of cor. Descabruptly over ledges.
43.00	Bottom of canon,600 ft.below ridge,course S.80°W.
	Asc.abruptly over ledges.
61.00	Top of abrupt ascent,400 ft.above canon,bears E and W.
	Asc.gently.
68.50	Leave timber,bears E.and W.
	Enter dense undergrowth,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.5,6,7,and 8,mkd.on brass cap T 31 S S 6 in NW. R 22 E S 5 in NE. S 8 in SE.;and S 7 in SW.quadrants;from which A cedar,16 ins.dial,bears N.83°08'W., 789 lks. dist..mkd.T 31 S R 22 E S 6 B T.
	No other trees within limits;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,rough mountains .
	Soil,sandy loam;2nd rate.from 1 to to 18 ins.deep.
	Subsoil,sandstone,.
	Good grass for grazing.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Mountainous ~~or heavily timbered land~~,or land covered with dense undergrowth,80.00 chs.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	August 28,1911:At this cor.I set off 9° 56'E.,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°09'N.,which is the proper lat.nearly.
	East,on a random line bet.secs.5 and 8.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N.and S.line,7 lks.S.of the 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 heavy timber,and scattering undergrowth.
	Asc.
1.45	Trail,on top of ridge,10 ft.above cor.,bears NE and SW.
	Desc.
10.50	Bottom of hollow,35 ft.below ridge,course N.10°E.
	Asc.
12.00	Top of ridge,25 ft.above hollow,bears N.and S.
	Desc.
14.40	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
28.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
33.00	Head of canon,50 ft.below ridge,course N.20°E.
	Asc.
39.80	Trail,bears NW and SE.
40.02	Set an iron post,3 ft.long,1 in.in dia.,14 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec. cor. kd.on brass cap ¼ S 5 in N half and S 8 in S half. from which
	A cedar,14 ins.dia.,bears N.59°15'E.,31 lks. dist.mkd. ¼ S 5 B T.
	A pinon pine,6 ins.dia.,bears S.26°E.,30 lks;

Sub.T.31 S.,R.23 E.-Continued.

Chains	dist..m d.	S S E T.
46.00	Top of ridge,200 ft.above canon,bears N.and S.	
	Desc.	
49.0	Head of hollow,20 ft.below ridge,course N.30°E.	
	Asc.	
52.50	Top of steep ascent,bears N.and S.	
	Leave timber,bears N.and S.	
	Enter dense undergrowth,bears N.and S. Asc.gently.	
69.60	Top of main ridge 100 ft.above hollow bears N.20°W. Desc.	
69.80	Trail,bears N.20°W.and S.20°E.	
80.04	The cor.of secs.5,6,7,and 8.	
	Land,rough mountainous.	
	Soil,sandy loam ;2nd rate.about 18 ins.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 04 chs.	

August 28,1911.

August 29,1911:At 7 h 2 m a.m.,m.t.,I set off 38°09'n N.on the lat.arc;9°40'N.,on the decl.arc;and determine a meridiean with the solar,at the cor.of secs.5,6,7, and 8.

Thence I run

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

40.00 Set temp.sec.cor.

68.50 Intersect W.bdy.of Tps.6 1/2s.S.of the cor.of secs.1,6,7, and 12,heretofore described.

Thence I run

S.89°54'W.,on a true line bet.secs.6 and 7.

Over mountainous land,through heavy timber and scattering undergrowth.

Desc.

Sub.T.31 S.,R.22 E.-Continued.

Chains

6.30 Bottom of cenon,100 ft.below sec.cor.,course S.
Asc.

10.80 Top of ridge,40 ft.above hollow,bears N.and S.
Desc.

17.10 Bottom of hollow,25 ft.below ridge,course S.10° W.
Asc.

19.20 Top of ridge,25 ft.above hollow,bears N.and S.
Desc.

20.70 Bottom of hollow,20 ft.below ridge,course S.30°W.
Asc.over smooth sandstone ledge.

24.20 Top of spur,75 ft.above hollow,bears N.10°E and S.10°W.
Desc.

26.58 Point for ¼ sec.cor.falls on smooth ledge,I mark a cross (x)at the exact cor.point and at

27.48 Foot of steep descent,bears N.40°E.and S.40°W.
Set an iron post,6 ft.long,1 in.in dia.,26 ins.in the ground,for witness cor.to ¼ sec.cor..mkd.on brass cap W C ¼ S 31 S R 22 E S 6 in N half and S 7 in S half;from which A pinon pine,12 ins.dia.,bears N.80°E.,70 lks.dist..mkd.W C ¼ S 6 B T.
A pinon pine,12 ins.dia.,bears S.55°30'W.,
76 lks.dist..mkd.W C ¼ S 7 B T.

37.48 Bottom of cenon,95 ft.below ridge,course S.10°W.
Asc.

45.20 Top of ridge,50 ft.above cenon,bears N.and S.
Desc.

45.90 Bottom of hollow,35 ft.below ridge,course S.40°W.
Asc.

51.30 Top of abrupt ascent,bears N.30°E.and S.30°W.

57.80 Leave timber,bears N.and S.enter dense undergrowth.

66.58 The cor.of secs.5,6,7,and 8.
Land,rough mountainous.
Soil,sandy loam from 1 to 2 ft.deep.subsoil,sandstone.
Timber,cedar and pinon pine.
Undergrowth,sage brush.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,66.58 chs.
	August 29,1911:At this cor.I set off 9°34'N.,on the decl.arc;and at 0 h m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 38°09'N.,which is the proper lat.nearly.
	N.0°03'W.,on a true line bet.secs.5 and 6.
	Over mountainous land;through dense sage brush.
	Asc.
6.60	Top of ridge,30 ft.above sec.cor.,bears E.and W.
	Desc.
7.50	Head of hollow,20 ft.below ridge,course S.60°W.
	Asc.
12.00	Trail,bears NW and SE.
18.50	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
28.00	Bottom of hollow,20 ft.below ridge,course NE
	Asc.
31.00	Top of ridge,20 ft.above hollow,bears N.70°W.and S.70°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.onbrass cap ¼ S 6 in W half and S 5 in E half from which
	A cedar,6 ins.dia.,bears N.80°E.,66 lks. dist..mkd.¼ S 5 B T.
	A cedar,10 ins.dia.,bears N.28°W.,183 lks. dist..mkd.¼ S 6 B T.
	Enter scattering timber,bears E.and W.
52.10	South edge of canon,bears E.and S.60°W.
	Desc.abruptly over ledges.
56.70	Bottom of canon,100 ft.below edge,course NE.
	Asc.
60.00	Top of ridge,20 ft.above canon,bears N.60°E.and S.60°W.

Sub.T.31 S.,R.22 E.-Continued.

Chains	
	Desc.
65.00	Bottom of hollow,20 ft.below ridge,course NE.
	Asc.
67.90	Trail,bears NE and SW.
71.00	Top of ridge,50 ft.above hollow,bears N.60°E.and S.60°W.
	Desc.
75.00	Bottom of canon,300 ft.below ridge,course NE
	Asc.over ledges.
82.00	North edge of canon,200 ft.above bottom,bears E.and W.
86.00	Top of ridge,250 ft.above canon,bears E.and W.
	NDte:A solid sandstone knoll about 60 ft.high,bears E.about 4.00 chs.dist.
	Desc.
113.50	Trail,bears N.60°E.and S.60°W.
114.00	South edge of box canon,top of ledge 150 ft.high,bears N.60°E.and S.60°W.
	Desc.abruptly over ledges.
118.00	Bottom of box canon,200 ft.below edge,course NE .
	Asc.abruptly over ledges.
122.16	Intersect 6th Standard Parallel South,8.84 chs.East of the Standard cor.of secs.31 and 32,heretofore described This falls on smooth ledge where it is impossible to set the cor.;therefore at 107 lks.West which is the nearest safe point I
	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 closing cor.of secs.5 and 6,mkd.on b brass cap
	C C T 30 S R 22 E S 31 S 32 in N half.
	W C in NE ;
	S 5 in SE.;and
	S 6 in SW.quadrants;from which
	A cedar,5 ins.dia.,bears S.80°30'E.,17 lks. dist..mkd.W C T 31 S R 22 E S 5 B T.
	A pinon pine,6 ins.dia.,bears S.54°45'W.,78 lks. dist..mkd.WCT31S R 22 E S 6 B T.

Sub.T.31 S.,R.22 E.p-Continued.

Chains

Land,rough mountains .

Soil,sandy loam;2nd rate.about from 1 to 3 ft.deep,on solid sandstone ledges.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth 122.16 chs.

August 29,1911.

Eric H. Anderson

U.S.Transitman.

General Description.

This township contains a variety of land ranging from the level land in Indian Canon to rough broken precipiteous slopes and ridges;but in general it is rough and broken country presenting many difficulties to a field party on account of the ledges,especially along the northern part of the Hart Draw canon and all along the western part of the township.

The soil si a sandy loam ranging in depth from 1 to 10 ft.deep, but in general it is less than 2 ft.deep and underlaid by a solid sandstone formation broken only by the deep canons.The soil is rich however and produces an abundant growth of grass,and a dense growth of timber on the greater part of the township,consisting of cedar and pinon;and where the timber is not excessively heavy there is generally a very dense growth of sage brush.

The township is especially valuable for winter spring and fall grazing, but water is so scarse and inaccessable from the higher portions of the land that it is of little

Chains

value for summer grazing. One of the chief sources of water supply for stock is the numerous holes and pockets worn in the sandstone,which are filled by rains in wet weather.However Hart Spring and the drainage from it in the northeastern part of the township affords watering places for stock ranging on the adjacent country.

Indian Creek which flows through the southwestern corner of the township is not accessable to stock except for the country immediately adjoining the canon for perhaps one half mile in width.

Harry C.Green has a ranch in the south part of sec.31, which extends also into sec.36,T.32 S.,R.22 E.,his improvements consist of house corrals stack yards and out buildings,fences,an orchard,and cultivated land, total value of his improvements about $5,000.00

Joseph Titus has a claim in the western part of sec.31 extending also into sec.36 T.31 S.,R.21 E.;his improvements consist of cabin,stables,corrals,stack yard,fencing, and about 50 acres of cultivated land;total value of improvements about $1,000.00 . He is now living on his claim.

Joseph James Davis has improvements in secs.19 and 30, also extending into secs.24 and 25,T.31 S.,R.22 E. His improvements consist of houses ,corrals,sheds,stack yards,ditches,and cultivated land about 60 acres.Total value of improvement about $2,000.00. He is living on his claim.

There are no other settlers in the township.

No mineral was found in the township.

No indications of oil.

Scott O. Stewart.

Eric H. Anderson

U.S.Transitmen.

BOUNDARIES OF T.31 S.R.22 E.

Lines Designated	True Bearing	Dist.	Latitudes N. chs.	Latitudes S. chs.	Departures E. chs.	Departures W. chs
East Bdy.	North	522.36	522.36	.....	.....	.....
Sixth St.Par.S.	West	466.05	.....	.....	.....	466.05
West Bdy.	South	522.00	.....	522.00	.....	.....
South Bdy.	East	466.80	.....	.....	466.80	.....
Convergency						.57
Totals			522.36	522.00	466.80	466.62
			522.00		466.62	
Error in lat.and dep.			.36		.18	

Volume
#
R0387

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.31 South, Range No.22 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, 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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BOOK A-387

J.

FIELD NOTES

OF THE SURVEY OF THE

NORTH SOUTH EAST AND WEST

boundaries

of

Township No. 33 South, Range No. 20 E.

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 August 25, *191*1

Survey completed September 8, 1911. *191*1

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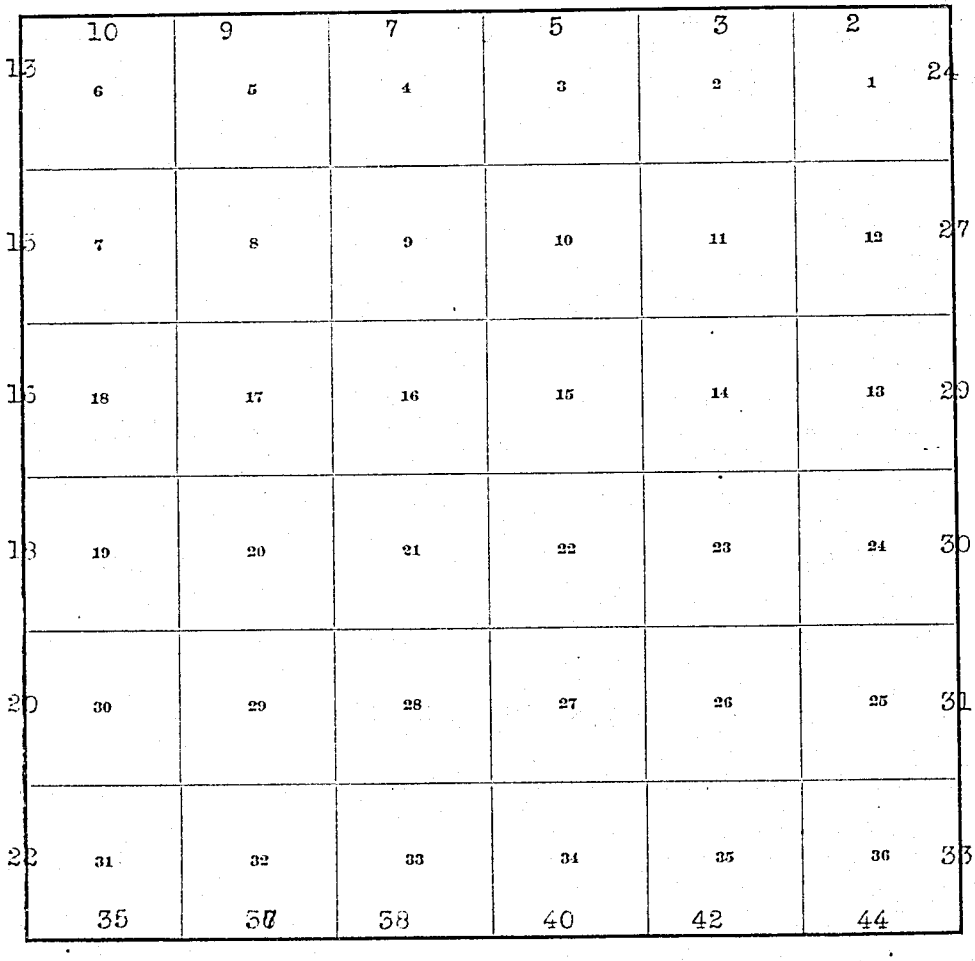
BOOK A-387

INDEX DIAGRAM.

Township 33 South, *Range* 20 East



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North bdy.T.33 S.,R.20 E.-Continued.

Chains

Survey commenced August 25,1911,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.

I examine the adjustments of the instrument and correct the level and collimation errors;then,to test the solar apperatus 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 Tps.32 and 33 S.,Rs.20 and 21 E.,heretofore described,latitude 37°59'04"N.,longitude 109°42'21"W.,I set off 37°59'N.,on the lat.arc;10°55'N.,on the decl. arc;and at 4 h 2 m p.m.,l.m.t.,I determine a meridian with the solar ,and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.

At 9 h 19.7 m p.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.

August 25,1911.

August 26,1911:At 6 h 30 m a.m.,l.m.t.,I lay off the agimuth of Polaris.1°28'to the west and mark a point in the meridian thus determined,by cutting a small groove in the stone already set 5.00 chs.N.of the cor.;this mark falls 0.29 lns.east of the meridian established by the solar.

At 7 h 2 m a.m.,l.m.t.,I set off 37°59'N.,on the lat. arc;10°43'N.,on the decl.arc;and determine a meridian with the solar,and mark a point thereof by a crosss

Chains

on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.27 ins.east of the meridian established by Polaris observation;.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively above 0'15"west and 0'14"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian,at 8 h 0 m a.m.,is 16°00'W.;the angle thus determined gives the mag.decl 16°E.

Thence I run

West,bet.secs.1 and 36.

Over mountainous land;through heavy timber.

Asc. through scattering undergrowth.

1.50 Ledge,20 ft.high,bears NW and SE.

20.00 Top of abrupt ascent,800 ft.above cor.,east edge of mesa, bears NE and SW.

Asc.gently over mesa.

40.00 Set an iron post,3 ft.long,11 in.in dia.,12 ins.in the round,on soild rock,and surrouned by mound of stone,for ¼ sec.cor..mkd.on brass cap ½ S 36 in N half and S 1 in S half;from which

A cedar,12 ins.dia.,bears N.6°E.,19 lks. dist..mkd.½ S 36 B T.

A pinon pine,12 ins.dia.,bears S.17°30'E.,53 lks. dist..mkd.½ S 1 B T.

48.90 Leave mesa,bears N.70°E.and S.70°W.

Desc.abruptly.

56.30 Trail,bears NE and SW.

57.00 Bottom of canon,300 ft.below mesa,course N.60°E.

Asc.abruptly over ledges and boulders.

80.00 Point 300 ft.above canon.

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

N.bdy.T.33 S.,R.20 E.,-continued.

Chains

ground,in solid rock,and surrounded by mound of stone, for cor.of secs.1,2,35,and 36,mkd.on brass cap

T 32 S S 35 in NW.

R 20 E S 36 in NE.

R 20 E S 1 in SE.;and

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

A cedar,10 ins.dia.,bears N.12°E.,141 lks. dist..mkd.T 32 S R 20 E S 36 B T.

A pinon pine,6 ins.dia.,bears S.3°30'E.,68 lks. dist..mkd.T 33 S R 20 E S 1 B T.

A cedar,12 ins.dia.,bears S.88°W.,135 lks. dist..mkd.T 33 S R 20 E S 2 B T.

A cedar,13 ins.dia.,bears N.63°W.,124 lks. dist..mkd.T 32 S R 20 E S 35 B T.

Land,mountainous .and rolling mesa.

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

Timber,cedar and pinon pine.

Undergrowth,buck brush,service berry .

Good grass.

Mountainous or heavily timbered land,80.00 chs.

August 28,1911.

August 28,1911:At 7 h 2 m a.m.,l.m.t.,I set off 37°59'N., on the lat.arc;10°01'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.1,2,35,and 36.

Thence I run

West,on a true line bet.secs.2 and 35.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.over ledges.

3.30 Top of sloping ledge,150 ft.high,200 ft.above sec.cor., bears NE and SW.

N.bdy.T.33 S.,R.20 E.-Continued.

Chains	
9.35	Top of ledge,30 ft.high,bears N.30°E.and S.30°W.
20.00	Head of steep rocky hollow,30 ft.below ledge,course S. Asc.abruptly.
31.70	Top of steep ascent and ledges,555 ft.above sec.cor., east edge of flat ridge,bears NE and SW.
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 35 in N half and S 2 in S half;from which A cedar,14 ins.dia.,bears N.56°W.,22 lks. dist..mkd.¼ S 35 B T. A pinon pine,10 ins.dia.,bears S.48°35'W.,42 lks. dist..mkd.¼ S 2 B T.
46.00	West edge of flat ridge,50 ft.above east edge,bears N.E.and SW. Desc.abruptly.
57.00	Head of steep hollow,300 ft.below ridge,course N.20°W. Asc.
58 60	Top of ridge,30 ft.above hollow,bears N.20°W.and S.20°E. Desc.
61.80	Head of hollow,60 ft.below ridge,course NW. Asc.
62.60	Top o of ridge,20 ft.above hollow,bears N.30°W.and S.30°E. Desc.
73.90	Foot of steep descent,500 ft.below ridge,bears N.30°E.and S.30°W.
74.50	Trail,bears NE and S.80°W.
80.00	Set an iron post,3 ft.long,3 in.in dia.,18 ins.in the ground,on solid rock,and surrouned by mound of stone, for cor.of secs.2,3,34,and 35,mkd.on brass cap T 32 S S 34 in NW. R 20 E S 35 in NE. R 20 E S 2 in SE.;and T 33 S S 3 in SW.quadrants;from which A cedar,18 ins.dia.,bears N.53°30'E.,115 lks. dist..mkd.T 32 S R 20 E S 35 B T.

N.bdy.T.33 S.,R.20 E.-Continued.

Chains

A cedar,18 ins.dia.,bears S.26°15'E.,118 lks. dist..mkd.T 33 S R 20 E S 2 B T.

A pinon pine,12 ins.dia.,bears S.40°W.,101 lks. dist..mkd.T 33 S R 20 E S 3 B T.

A pinon pine,14 ins.dia.,bears N.46°30' W.,71 lks. dist..mkd:T 32 S R 20 E S 34 B T.

Land,mountainous ,very rough.

Soil,sandy loam; 1 to 3 ft.deep on rock.

Timber,cedar and pinon pine.

Undergrowth,sagemservice berry and buck brush.

Good grass.

Mountainous or heavily timbered land,80.00 chs.

August 28,1911:At this cor I set off 9 ° 56'N.,on the decl.arc;and at 0 h 2 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°59'N.,which is the proper lat.nearly.

West,bet.secs.3 and 34.

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

Desc.gently.

5.70 Trail,bears N.80°W.and S.80°E.

Head of hollow,10 ft.below cor.,course S.

Asc.

11.20 Trail,bears N.80°E.and S.80°W.

12.50 Top of ridge,20 ft.above hollow,bears N.80°W.and S.80°E.

Leave timber and enter dense sage brush,bears N.and SW.

Desc.

12.70 Same trail,bears NW.and SE.

20.00 Head of hollow,20 ft.below ridge,course S.80°E.

Asc.

30.00 Top of ridge,20 ft.above hollow,bears NW and SE.

Desc.gently.

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

N.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S 34 in N half and S 3 in S half;from which
	A cedar,14 ins.dia.,bears N.86°30'W.,642 lks. dist..mkd.¼ S 34 B T.
	A cedar,20 ins.dia.,bears S.80°30'W.,560 lks. dist..mkd.¼ S 3 B T.
45.00	Leave undergrowth and enter heavy timber,bears N.and S.
46.00	Enter scattering undergrowth,bears N.and S.
55.30	Begin abrupt descent,bears NE and SW.
56.20	Ledge 20 ft.high,bears NE and SW.
58.30	Head of hollow,150 ft.below ridge,course N.30°W.
	Asc.
67.00	Top of ridge,50 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
70.60	Bottom of hollow,60 ft.below ridge,course N.30°W.
	Asc.
71.90	Top of ridge,30 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
74.20	Bottom of hollow,40 ft.below ridge,course N.30°W.
	Asc.
75.00	Top of ridge,25 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
79.80	Bottom of hollow,30 ft.below ridge,course N.30°W.
	Asc.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.3,4,33,and 34,mkd.on brass cap
	T 32 S S 33 in NW.
	R 20 E S 34 in NE.
	R 20 E S 3 in SE.;and
	T 33 S S 4 in SW.quadrants;from which
	A cedar,24 ins.dia.,bears N.65°E.,55 lks. dist..mkd.T 32 S R 20 E S 34 B T.
	A pinon pine,12 ins.dia.,bears S.70°E.,66 lks. dist..mkd.T 33 S R 20 E S 3 B T.
	A pinon pine,7 ins.dia.,bears S.52°30'W.,60 lks. dist.,mkd.T 33 S R 20 E S 4 B T.
	A cedar,12 ins.dia.,bears N.57°30'W.,44 lks.

N.bdy.T. 33 S.,R.20 E.-Continued.

Chains	
	dist.,mkd.T 32 S R 20 E S 33B T.
	Land,mountainous.
	Soil,sandy 1 to 2 ft.deep,on solid sandstone.
	Timber,cedar and pine.
	Undergrowth,sage brush.
	Good grass .
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	August 28,1911.

	August 29 ,1911At 7 h 1 m a.m.,l.m.t.,I set off 38°59'N., on the lat.arc;9°40'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.3,4,33,and 34.
	Thence I run
	West,on a true line bet.secs.4 and 33.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
1.80	Top of ridge,35 ft.above cor.,bears N.20°W.and S.20°E.
	Desc.
3.50	Bottom of hollow,20 ft.below ridge,course N.30°W.
	Asc.
5.10	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
9.30	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
14.00	Top of ridge,25 ft.above hollow,bears N.and S.
	Desc.
33.20	Ledge,20 ft.high,on east edge of canon,bears N.30°E.and S. 30°W..
	Desc.over ledges.
40.00	Falls onsloping ledge,I mark cross on ledge at cor.point and at
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..mkd.on brass cap T 32 S R 20 E W C ¼ S 33 in N half and S 4 in S half;
	from which

N.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	A pinon pine,7 ins.dia.,bears N.82°30'E.,9 lks. dist..mkd.+ S 33 B T..W C
	The face of a ledge,20 ft.high,bears S.17°E.,19 lks.dist.mkd. W C X B O S 4 .
43.20	Foot of ledges,200 ft.below edge,bears NW and SE.
43. 30	Head of canon,250 ft.below ridge,course NW.
	Asc.
50.00	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
52.00	Top of ledge,100 ft.high,east side of box canon,bears N.and S.
53.00	Bottom of canon,125 ft.below edge,course N.
	Asc.
54.50	Top of ledge,100 ft.high,west edge of canon,bears N.and S.
64.70	Begin abrupt ascent over ledges,bears N.and S.
67.00	Top of ledge,bears N.80°W.and S.80°E.
71.80	Leave ledges,bears N.and S.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,12 ins.in the ground,on solid rock,and surrouned by mound of stone, for cor.of secs.4,5,32,and 33,mkd.on brass cap
	T 32 S S 32 in NW.
	R 20 E S 33 in NE.
	R 20 E S 4 in SE.;and
	T 33 S S 5 in SW.quadrants;from which
	A cedar,10 ins.dia.,bears N.78°.30 'E.,44 lks. dist..mkd.T 32 S R 20 E S 33 B T.
	A cedar,10 ins.dia.,bears S.7°E.,36 lks. dist..mkd.T 33 S R 20 E S 4 B T..
	A pinon pine,8 ins.dia.,bears S.58°W.,84 lks. dist..mkd.T 33 S R 20 E S 5 B T..
	A cedar,7 ins.dia.,bears N.80°45'W.,41 lks. dist..mkd.T 32 S R 20 E S 32 B T.
	Land,mountainous .
	Soil,sandy loam 1to 2 ft.deep.on rock.
	Timber,cedar and pinon pine.

N.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	Undergrowth,oak,sevice berry,buck,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth.,80.00 chs.
	August 29,1911:At this cor.I set off 9°34'E.,on the decl. arc;and at 0 h.1 m p.m.,l m t .I observe the sun on the meridian.the resulting lat.is 37°59'N.,which is the proper lat.nearly.
	West,bet.secs.5 and 32.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Desc.
3.70	Top of ridge,50 ft.above cor.,bears N.and S.
	Desc.
6.00	Head of hollow,20 ft,below ridge,course N.
	Asc.
7.80	Top of ridge,20 ft.above hollow,bears N.and S.
	Desc.
26.50	Bottom of hollow,50 ft.below ridge,course N.
	Asc.
35.00	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.gently.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ½ S 32 in N half and S 5 in S half;from which
	A pinon pine,6 ins.dia.,bears N.14°30'E.,4 lks. dist..mkd.½ S 32 B T.
	A pinon pine,12 ins.dia.,bears S.5°30'W.,67 lks. dist..mkd.½ S 5 B T.
50.00	East edge of canon,and ledge 30 ft.high,bears N.20°W.and S.20°W.
	Desc.over ledges.
54.50	Bottom of hollow,150 ft.below edge,course SW.
	Asc.

N.bdy.T.33 S.,R.20 E -Continued.

Chains	
	Asc.
58.00	Top of ridge,40 ft.above canon,bears N.80°E.and S.80°W.
	Desc.
63.00	Bottom of hollow,50 ft.below ridge,course N.20°W.
	Asc.
73.50	Begin abrupt ascent,bears N.and S.
74.75	Top of ledge,70 ft.high,bears NW and SE.
	East edge of flat ridge,bears same.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,18 ins.in the ground,on rock, and surrounded by mound of stone for cor.of secs.5,6,31,and 32,mkd.on brass cap.
	T 32 S S 31 in NW.
	R 20 E S 32 in NE.
	R 20 E S 5 in SE ;and
	T 33 S S 6 in SW.quadrants;from which
	A pinon pine,6 ins.dia.,bears N.50°E.,16 lks.
	dist..mkd.T 32 S R 20 E S 32 B T.
	A pinon pine,8 ins.dia.,bears S.31°E.,105 lks.
	dist..mkd.T 33 S R 20 E S 5 B T.
	A pinon pine,7 ins.dia.,bears S.38°W.,43 lks.
	dist..mkd.T 33 S R 20 E S 6 B T.
	A pinon pine,8 ins.dia.,bears N.53°30'W.,58 lks.
	dist..mkd.T 32 S R 20 E S 31 B T.
	Land,mountainous .
	Soil,sandy loam;1 to 2 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage ,service berry,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.

August 29,1911.

August 30,1911At 7 h 1 m a.m.,l.m.t.,I set off 37°59'N., on the lat.arc;9°19'N.,on the decl.arc;and determine a meridian with the solat,at the cor.of secs.5,6,31,and 32. Thence I run

N.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	West,bet.secs.6 and 31.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.gently.
2.60	West edge of ridge,10 ft.above cor.,bears N.20°E.and S.20°W.
	Desc.
17.90	Head oc hollow,100 ft.below ridge,course N.
	Asc.
20.00	Top of ridge,30 ft.above holoww,bears N.and S.
	Desc.
22.20	Head of hollow,40 ft.below ridge,course N.80°W.
	Asc.
28.60	Top of ridge,40 ft.above hollow,bears NW and SE.
	Desc.
30.60	Bottom of canon,200 ft.below ridge,course S.60°W.
	Asc.
	Trail in bottom ,bears same .
32.50	Begin ascent over ledges,bears N.60°E.and S.60°W.
35.80	Top of ledge,70 ft.high,bears N.70°E.and S.70°W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone,for ¼ sec.cor..mkd.on brass cap ½ S 31 in N half and S 6 in S half;from which
	A pinon pine,8 ins.dia.,bears N.55°30'E.,68 lks.
	dist.,mkd.½ S 31 B T.
	A pinon pine,14 ins.dia.,bears S.77°15'W.,147 lks.
	dist..mkd.½ S 6 B T.
	August 30,1911:At this cor.I set off 9°13'N.,on thedecl. arc;and at 0 h 1 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°59'N.,which is the proper lat.nearly.
40.70	Top of ledge,30 ft.high,bears N.70°W.and S.70°E.
40.90	Descend over ledges,bears NW and SE.
43.60	East edge of canon,100 ft.ledge,bears N.and S.
45.60	Bottom of canon,400 ft.below ¼ sec.cor.,course N.20°E.
	Trail,bears same .
	Asc.

N.bdy.T.33 S.,R.20 E.-Continued.

Chains	
51.10	Top of ridge,200 ft.above hollow,bears N.30°E.and S.30°W.
	Desc.abruptly.
56.30	Bottom of Salt Creek canon,100 ft.below ridge,course N.30°E.
	Asc.
62.60	Top of ledge70 ftlhigh,bears NE and S.60°W.
66.20	Top of ridge,130 ft.above canon,bears N.and S.
	Desc.
70.00	East edge of canon,ldddge,30 ft.high,bears N.30°E.and S.30°W.
72.00	Bottom ofcanon,50 ft.below ridge,course S.
	Asc.
74.40	West edge of same canon,bears NW and SE.
77.60	Top of spur,150 ft.above canon,bears N.and S.
78.31	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 Tps.32 and 33 S.,Rs.19 and 20 E .mkd.on brass ca
	T 32 S in N half .
	T.33 S. in S half.
	R 19 E S 36 in NW.
	R 20 E S 31 in NE.
	R 20 E S 6 in SE.;and
	R 19 E S 1 in SW.quadrants;from which
	A pinon pine,5 ins.dia.,bears N.52°15'E.,39 lks. dist.:mkd.T 32 S R 20 E S 31 B T.
	A pinon pine,6 ins.dia.,bears S.74°E.,115 lks. dist..mkd.T 33 S R 20 E S 6 B T.
	A pinon p ne,10 ins.dia.,bears N.46°15'W.,24 lks. dist..mkd.T 32 S R 19 E S 36 BnT,
	A face of a sandstone ledge or houlddr 20x15 ft. 10 ft.high,bears S.12°W.,16 lks.mkd.X F O.S 1.
	Land,mountainous.
	Soil,sandy 1 to 3 ft.deep,on solid sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage and survece berry .
	Good grass for grazing.
	Mountainous or heavily timbered land,or land dovered

Chains with dense undergrowth,78.31 chs.

August 30,1911.

W.bdy.T.33 S.,R.20 E.

August 30,1911:At 7 h 1 m a.m.,l.m.t.,I set off 37°59'N. on thelat.arc;8°57'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of Tps.32 and 33 S., Rs.19 and 20 E.;

Thence I run

South,bet.secs.1 and 6.

Over mountainous land;through scattering timber and scattering undergrowth.

Desc.abruptly over ledges.

2.70 Top of ledge 100 ft.high,on N.edge of canon,bears E.and W.

4.70 Bottom of canon,150 ft.below cor.,course E.

Asc.abruptly over ledges.

9.80 Top of ledges and south edge of canon,500 ft.above canon, bears E.and W.

12.00 Top of ridge,600 ft.above canon,bears E.and W.

Leave ledges.

Desc.abruptly.

16.00 Foot of steep descent,150 ft.below ridge,bears E.and W.

Enter heavy timber,bears E.and W.

21.90 Trail,bears N.60°E.and SW.

24.00 Wash,15 lks.wide,6 ft.deep,in head of hollow,100 ft. below ridge,course N.60°E.

Asc.

33.50 Begin abrupt ascent over ledges,bears E.and W.

37.75 Top of ledges,130 ft.above hollow,bears N.70°E.and S.70°W.

Asc.gently.

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 1 in W half.and S.

Chains	
	6 in E half;from which
	A cedar,4 ins.dia.,bears S.33°E.,25 lks.
	dist..mkd.÷ S 6 B T.
	A pinon pine,7 ins.dia.,bears N.80°W.,26 lks.
	dist..mkd.÷ S 1 B T.
58.50	Wash,10 lks.wide,3 ft.deep,course NE.
	Continue ascent.
74.30	Cross blazed line on N.bdy.of LaSal Forest Reserve survey.
	bears E.and W.
79.00	Top of ridge,150 ft.above hollow,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,18 ins.in the
	ground,on solid rock,and surrounded with mound of stone,
	for cor.of secs.1,6,7,and 12,mkd.on brass cap
	T 33 S in N half;
	R 19 E S 1 in NW.;
	R 20 E S 6 in NE.
	S 7 in SE.;and
	S 12 in SW.quadrants;from which
	A pinon pine,10 ins.dia.,bears N.8°30'E.,88 lks.
	dist..mkd.T 33 S R 20 E S 6 B T.
	A cedar,14 ins.dia.,bears S.33°15'E.,71 lks.
	dist..mkd.T 33 S R 20 E S 7 B T.
	A cedar,12 ins.dia.,bears S.24°40'W.,74 lks.
	dist..mkd.T 33 S R 19 E S 12 B T.
	A pinon pine,8 ins.dia.,bears N.46°W.,53 lks.
	dist..mkd.T 33 S R 19 E S 1 B T.
	Land,mountainous.
	Soil,sandy loam;2nd rate 1 to 2 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass.
	Mountainous or heavily timbered land,80.00 chs.
	August 31,1911:At this cor.I set off 8 °52'N.,on the
	decl.arc;and at 0 h 0 m p.m.,l.m.t.,I observe the sun
	on the meridian the resulting lat.is 37°58'N.,which is the
	proper lat.nearly.

W.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	South,bet.secs.7 and 12.
	Over mountainous land;through heavy timber and dense undergrowth.
	Desc.gently.
1.00	Bottom of canon,20 ft.below cor.,course N.20°W.
	Asc.along side of canon.
25.00	Top of steep ascent,and edge of flat ridge,600 ft.above canon,bears E.and W.
	Asc.gently.
38.00	Leave ridge top ,bears NW and SE.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded with mound of stone, for ¼ sec.cor..mkd.on brass cap ¦ S 12 in W half and S 7 in E half;from which
	A pinon pine,10 ins.dia., bears S.71°30'E.,45 lks. dist..mkd. ¦ S 7 B T.
	A cedar 24 ins.in dia.,N.76°15'W.,51 lks. dist..mkd. ¦ S 12 B T.
42.00	Top of ridge,60 ft.above flat ridge, bearsN.60°W.and S.60° E.
	Desc.abruptly.
53.50	Bottom of hollow,300 ft.below ridge,course E.
	Asc.
55.10	Top of ridge,30 ft.above hollow,bears N.80°W.and S.80°E.
	Desc.
57.00	Bottom of hollow,35 ft.below ridge,course N.80°W.
	Asc.
59.70	Top of ridge,30 ft.above hollow,bears E.and W.
	Desc.
62.80	Bottom of hollow,30 ft.below ridge,course E.
	Asc.
66.20	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
79.00	Bottom of hollow,20 ft.below ridge,course E.

Chains	
	Asc.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,12 ins.in the ground,on solid rock,and surrounded with mound of stone, for cor.of secs.7,12,13,and 18,mkd.on brass cap
	T 33 S in N half.
	R 19 E S 12 in NW.
	R 20 E S 7 in NE.
	S 18 in SE.;and
	S 13 in SW.quadrants;from which
	A pinon pine,12ins.dia.,bears N.70°E.,31 lks. dist..mkd.T 33 S R 20 E S 7 B.T.
	A pinon pine,8 ins.dia.,bears S.28°03'E.,86 lks. dist..mkd.T 33 S R 20 E S18 B T.
	A pinon pine,8 ins.dia.,bears S.42°30'W.,86 lks. dist..mkd.T 33 S R 19 E S 13 B T.
	A pinon pine,8 ins.dia.,bears N.39°10'W.,50 lks. dist..mkd.T 33 S R 19 E S 12 B T.
	Land,mountainous.
	Soil,sandy loam from 1 to 2 ft.deep,on solid sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,buck brush deer brush and sage brush.
	Good grass.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

August 31,1911.

September 1,1911:At 7 h 0 m a.m.,l.m.t.,I set off 37°57'N. on the lat.arc;8°36'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.7,12,13,and 18.

Thence I run

South,bet.secs.13 and 18.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.gently.

Chains	
2.50	Top of ridge,10 ft.above sec.cor.,bears E.and W.
	Desc.
4.00	Top of sloping ledge,80 ft.high,bears N.30°E.and S.30°W.
6,70	Foot of ledge in bottom of canon,100 ft.below ridge,course N.30°E.
	There is a strip of pine and balsam timber in the bottom of this canon extending both ways.
	Asc.
14.40	Top,of steep ascent,200 ft.above canon,bears N.30°E.and S. 30°W.
15.60	Leave heavy timber and enter scattering timber and dense undergrowth.
30.00	Enter heavy timber ,bears NE and SW.
33.20	Top of steep ascent and edge of mesa or flat ridge,700 ft.above canon,bears N.20°E.and S.20°W.
	Asc.gently.
40.00	Set an iron post,3 ft.longgl 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 pinon pine,6 ins.dia.,bears S.33°E.,37 lks. dist..mkd.¼ S 18 B T.
	A pinon pine,6 ins.dia.,bears S.71°W.,39 lks. dist..mkd.¼ S 13 B T.
60.00	Leave mesa,bears N.60°E.and S.60°W.
	Desc.
68.30	Bottom of hollow,150 ft.below ridge,course N.70°E.
	Asc.
	Leave heavy and enter scattering timber.
76.20	Trail,bears N.20°E.and S.20°W.
78.00	Top of ridge,200 ft.above hollow,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.13,18,19,and 24,mkd.on brass cap
	T 33 S in N half.
	R 19 W S 13 in NW.
	R 20 E S 18 in NE.

Chains	
	S 19 in SE,;and
	S 24 in SW.quadrants;from which
	A pinon pine,30 ins.dia.,bears N.63°25'E.,186 lks. dist..mkd.T 33 S R 20 E S 18 B T.
	A pinon pine,14 ins.dia.,bears S.71°05'E.,176 lks. dist..mkd.T 33 S R 20 E S 19 B T.
	A pinon pine,8 ins.dia.,bears S.38°30'W.,158 lks. dist..mkd.T 33 S R 19 E S 24 B T.
	A pinon pine,12 ins.dia.,bears N.83°21'W.,249 lks. dist..mkd.T 33 S R 19 E S 13 B T.
	Land,mountainous .
	Soil,sandy loam;2nd rate.1 to 2 ft.deep,on sandstone.
	Timber,cedar pinon pine and red pine and balsam.
	Undergrowth,sage,oak,buck,and service berry.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	September 1,1911;At this cor.I set off 8°30'N.,on the decl.arc;and at 0 h 0 m p.m.l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°56'N.,which isthe proper lat.nearly.
	South,bet.secs.19 and 24.
	Over mountainous land;through dense undergrowth and heavy timber. Desc.
2.00	Head of hollow,15 ft.below cor.,course N.50°E.
	Asc.
3.40	Top of spur,15 ft.above hollow,bears NE and SW.
	Desc.
5.50	Head of hollow,20 ft.below ridge,course NE.
	Asc.
13.20	Enter scattering timber,bears E.and W.
17.50	Top of divide ridge between Salt Creek and Davis canon, 600 ft.above sec.cor.,bears E.and W.
	Enter heavy timber,bears E.and W.
	Desc.abruptly.

W.bdy.T.33 S.,R.20 E.-Continued.

Chains	
37.00	Head of canon,500 ft.below ridge,course S.70°E.
	There is a seep of water just west of line,poor water and not enough to flow.
	Asc.
40.00	Set an iron post,3 ft.lond,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 W half and S 19 in E half;from which
	A yellow pine,18 ins.dia.,bears N.60°E.,39 lks. dist..mkd.¼ S 19 B T.
	A yellow pine,24 ins.dia.,bears N.21°W.,69 lks. diat..mkd.¼ S 24 B T.
40.20	Top of ridge,40 ft.above canon,bears E.and W.
	Desc.
42.00	Trail,bears N.10°E.and S.10°W.
46.30	Head of hollow,30 ft.below ridge,course NE.
	Asc.
46.50	Trail,bears N.20°W.and SE.
51.30	Top of ridge,40 ft.above hollow,bears E.and W.
	Trail,bears NE and SW.
	Desc.
57.00	Bottom of canon,100 ft.below ridge,course N.70°E.
	Asc.
63.00	Trail,bears E.and W.
	Leave heavy and enter scattering timber,bears E.and W.
76.00	Top of ridge,400 ft.above canon,bears N.20°E.and S.20°W.
	Desc.
80.00	point 60 ft.below ridge.
	Set an iron post,3 ft.l ng,3 ins.in dia.,18 ins.in the ground,on cemented gravel,and surrouned by mound of stone, for cor.of secs.19,24,25,and 30,mkd.on brass cap
	T 33 S in N half.
	R 19 E S 24 in NW.
	R 20 E S 19 in NE.
	S 30 in SE.;and
	S 25 in SW.quadrants;from which

W.bdy.T.33 S.,R.20 E.-Continued.

Chains

A pinon pine,12 ins.dia.,bears N.34°15'E.,117 lks.
dist..mkd.T 33 S R 20 E S 19 B T.

A pinon pine,10 ins.dia.,bears S.72°15'E.,128 lks
dist..mkd.T 33 S R 20 E S 30 B T.

A pinon pine,16 ins.dia.,bears S.50°15'W.,47 lks.
dist..mkd.T 33 S R 19 E S 25 B T.

A pinon pine,14 ins.dia.,bears N.53°20'W.,32 lks.
dist..mkd.T 33 S R 19 E S 24 B T.

Land,mountainous.

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

Timber,cedar and pinon pine.and yellow pine.

Undergrowth,service berry and oak brush.

HGood grass.

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

September 1,1911.

September 2,1911:At 7 h 0 m a.m.,l.m.t.,I set off 37°56'N. on thelat.arc;8°14'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.19,24,25,and 30.

Thence I run

South,bet.secs.25 and 30.

Over mountainous land;through dense undergrowth.

Desc.

11.50 Bottom of hollow,50 ft.below cor.,course E.

Asc.

17.10 Top of ridge,40 ft.above hollow,bears N.60°E.and S.60°W.

Desc.

28.00 Bottom of canon,30 ft.below ridge,course N.30°E.

Trail, in bottom.

Enter scattering aspen timber.

Asc.

35.00 Enter heavy aspen timber,bears NW and SE.

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

W.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	ground,for ¼ sec.cor...mkd.on brass cap ¼ S 25 in W half and S 30 in E half;from which
	A red pine,6 ins.dia.,bears S.40°45'E.,15 lks. dist..mkd.¼ S 30 B T.
	An aspen,5 ins.dia.,bears N.80°40'W.,32 lks. dist..mkd.¼ S 25 B T.
41.00	Leave aspen and enter heavy pine timber,bears E.and W.
52.80	Top of ridge,1000 ft.above canon,bears E.and W.
	Leave heavy pine and enter scattering pinon pine and cedar timber,bears E.and W.
	Desc.abruptly.
54.75	Top of ledge,100 ft.high,bears E.and W.
63.50	Head of hollow,700 ft.below ridge,course S.80°E.
	Asc.
66.10	Top of ridge,30 ft.above hollow,bears N.80°W.and S.80°E.
	Desc.
72.80	Bottom of hollow,100 ft.below ridge,course S.80°E.
	Asc.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,18 ins.in the ground,on rock,and surrounded with mound of stone, for cor.of secs.25,30,31,and 36,mkd.on brass cap
	T 33 S in N half.
	R 19 ½ S 25 in NW.
	R 20 E S 30 in NE.
	S 31 in SE.;and
	S 36 in SW.quadrants;from which
	A red pine,14 ins.dia.,bears N.64°40'W.,128 lks. dist..mkd.T 33 S R 19 E S 25 B T.
	No other trees within limits;raise a mound of stone, 2' ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,gravelly and clay;subsoil gravelly and clay.
	Timber,cedar,pinon pine,aspen ,and pine.
	Undergrowth,oak and surveice berry.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth,80.00 chs.

W.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	September 2,1911:At this cor.I set off 8 °08'N.,on the decl.arc;and at 0 h 0 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°55'N.,which is the proper lat.nearly.
	South,bet.secs.31 and 36.
	Over mountainous land;through dense undergrowth.
	Asc.
1.50	Top of ridge,30 ft.above sec.cor.,bears E.and W.
	Desc.
6.50	Bottom of hollow,80 ft.below ridge,course E.
	Enter heavy aspen timber,bearsE.and W.
	Asc.
9.50	Leave heavy aspen and enter scattering pine timber,bears E.a and W.
11.25	Top of ridge,150 ft.above hollow,bears N.80°E;and S.80°W.
	Desc.
12.80	Bottom of hollow,40 ft.below ridge,course N.70°E.
	Enter heavy aspen and pine timber,bears E.and W.
	Asc.
22.85	Ledge,100 ft.high bears N.60°W.and S.60°E.
23.00	Top of ridge,700 ft.above hollow,bears N.60°W.and S.60° E.
	Leave pine and aspen and enter heavy pinon pine and cedar timber,bears N.60°W.and S.60°E.
29.40	Leave timber,bears NW and SE.
34.00	Foot of abrupt descent,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 36 in W half and S 31 in E half;from which
	A red sandstone boulder6x4x3 ft.bears N.86°50'E., 56 lks.dist..mkd.X B O.S 31
	and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
53.00	Trail,bears N.60°W.and S.60°E.
58.50	Trail,bears NW.and SE.

W.bdy.T.33 S.,R.20 E.-Continued.

Chains	
62.70	Wash,10 lks.wide,3 ft.deep,in bottom of hollow,600 ft.below ridge,course S.80°E.
	Asc.gently.
68.90	Trail,bears E.and W.
80.00	Top of ridge,40 ft.above hollow,bears N.80°W.and sS.80°E.
	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of Tps.33 and 34 S.,Rs.19 and 20 E.,mkd. on brass cap
	T 33 S in N.half.
	T 34 S in S half.
	R 19 W S 36 in NW.
	R 20 E S 31 in NE.
	R 20 E S 6 in SE.;and
	R 19 E S 1 in SW.quadrants;from which
	A lone yellow pine,18 ins.dia.,bears N.88°22'W.,
	11.52 chs.dist.;mkd.T 33 S R 19 E S 36 B T.
	And raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.

Land,mountainous .

Soil,sandy and clay loam.2nd rate.subsoil,clay .

Timber,pine,aspen,cedar and pinon pine.

Undergrowth,oak and service berry and maple.

Good grass for grazing.

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

September 2,1911.

Scott P. Stewart

U.S.Transitman.

East bdy.T.33 S.,R.20 E.

Survey commenced August 30,1911;and executed with a Young and Sons S G U No.1,solar compass,with solar attachment.The horizontal limb is provided with two

T.bdy.T.33 S.,R.20 E.-Continued.

Chains

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,April 24,1911.

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

At the cor.of Tps.32 and 33 S.,Rs.20 and 21.E.latitude 37°59'04"N.,longitude 109°42'21"W.,I set off 37°59'N.,on the lat.arc;9°10'N.,on the decl.arc;and at 4 h 1 m p.,m. l.m.t.I determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.

At 9 h 0.1 m.p.m.,l.m.t.,I observe Polaris at eastern elongation in accordance with the Manual and mark a point in the line thus determine by a tack driven in a wooden plug set in the ground,5.00 chs.N.of the cor.; xthisx

August 30,1911.

August 31,1911:At 6 h 40 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°28'to the west and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor.;this mark falls 0.21 ins.east of the meridian established by the solar.

At 7 h 0 m a.m., l.m.t.,I set off 37°59'N.,on the lat. arc;8°57'N.,on the decl.arc;and determine a meridian with the solar,and mark a point thereof by a cross on the

Chains

stone already set 6.0 0 chs.N.of the cor.;this mark falls 0.31 ins.east of the meridian established by Polaris observation;.

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

The magnetic bearing of the meridian at 7 h 3. 0 m.a.m., is N.16°01'W.,the angle thus determine gives the mag. decl.16°01'E.

Thence I run
South,bet.secs.1 and 6.

Over mountainous land;through heavy timber.

Asc.abruptly.

2.40 Top of ridge,100 ft.high,bears N.20°W.and S.20°E.

4.80 Top of ridge,150 ft.above cor.,bears E.and W.

Desc.

13.70 Begin abrupt descent,bears E.and W.

16.60 Foot of steep descent,bears E and W.

Leave timber and enter dense sage brush,bears E.and W.

19.20 Wash,70 lks.6 ft.deep,with creek,4 lks.wide,2 ins.deep, in bottom of Stevens canon,400 ft.below ridge,course E.

Asc.

20.55 Trail,bears E.and W.

22.50 Enter heavy timber,bears N.60°W.and S.60°E.

Asc.abruptly.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ½ sec.cor..mkd.on brass cap ¼ S 1 in W half and S 6 in E half;from which

A cedar,14 ins.dia.,bears S.43°E.,24 lks. dist..mkd.¼ S 6 B T.

A pinon pine,6 ins.dia.,bears S.76°W.,24 lks. dist..mkd.¼ S 1 B T.

41.60 Top of abrupt ascent,and north edge of mesa,600 ft.above

Chains	
	canon,bears N.30°W.and S.30°E.
	Asc.gently.
	At this point,August 31,1911:I set off 8°52'N.,on the decl.arc;and at 0 h 1 m p.m.l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°59'N.,which is the proper lat.nearly.
57.00	Leave heavy timber and enter scattering timber and sage brush,bears E.and S.70°W.
67.00	Leave mesa,bears E.and W.
	Begin asent.
78.70	Top of ridge,200 ft.above mesa,bears N.40°W.and S.40°E.
	Desc.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,16 ins.in the ground,on rock,and surrounded with mound of stone, for cor.of secs.1,6,7,and 12,mkd.on brass cap
	T 33 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.quadrants;from which
	A pinon pine,10 ins.dia.,bears N.61°15'E.,66 lks. dist..mkd.T 33 S R 21 E S 6 B T.
	A pinon pine,4 ins.dia.,bears S.50°07'E.,31 lk. dist..mkd.T 33 S R 21 E S 7 B T.
	A pinon pine,12 ins.dia.,bears S.46°50'W.,26 lks. dist..mkd.T 33 S R 20 E S 12 B T.
	A cedar,4 ins.dia.,bears N.12°W.,28 lks. dist..mkd.T 33 S R 20 E S 1 B T.
	Land,mountainous.
	Soil,sandy loam 1 to 2 ft.deep,on rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Mountainous or heavily timberedland,or land covered with dense undergrowth,80.00chs.
	August 31,1911.

E.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	September 1,1911:At 7 h 0 m a.m.,l.m.t.,I set off 37°58' N.,on the lat.arc;8°36'E.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.1,6,7,and 12.
	Thence I run
	South,bet.secs.7 and12.
	Over mountainous land;through heavy timber,
	Desc.
0.10	Bottom of hollow,5 ft.below cor.,course N.60°W.
	Asc.
1.60	Top of ridge,75 ft.above hollow,bears N.60°W.and S.60°E.
	Desc.
3.50	Bottom of hollow,25 ft.below ridge,course N.70°W.
	Asc.
5.50	Top of ridge,50 ft.above hollow,bears N.70°W.and S.70°E.
	Desc.
8.30	Bottom of hollow,50 ft.below ridge,course N.60°W.
	Asc.
11.00	Foot of cliff,bears E.and W.
11.90	Top of cliff 50ft.high,bears E.and W.
13.60	Top of ledges and ridge,150 ft.above canon,bears NW and S.
	Desc.
15.60	Bottom of hollow,75 ft.below ridge,course W.
	Asc.
26.20	Top of ascent,and edge of high mesa,1700 ft.above Stevens canon,bears N.20°E.and S.20°W.
	Desc.gently.
35.30	Leave mesa,bears N.70°E.and S.70°W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,18 ins.in the ground,on solid rock,and surrounded by mound of stone, 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,10 ins.dia.,bears N.76°E.,74 lks. dist..mkd.¼ S 7 B T.

Chains

A pinon pine,6 ins.dia.,bears S.75°W.,43 lks. dist..mkd. S 12 B T.

44.40 Bottom of hollow,150 ft.below mesa,course E.

Asc.

45.30 Top of spur,40 ft.above hollow,bears N.70°W.and S.70°E.

Desc.

49.20 Ledge,100 ft.high,bears E.and W.

Desc.abruptly.

60.00 Bottomof hollow, 500 ft.below spur,course S.70°E.

Continue descent.

78.00 Bottom of hollow,700 ft.below ridge,course S.70°E.

Asc.

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

Desc.

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 33 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.quadrants;from which

A cedar,12 ins.dia.,bears N.30°25'E.,53 lks. dist..mkd.T 33 S R 21 E S 7 B T.

A pinon pine,6 ins.dia.,bears S.29°E.,25 lks. dist..mkd.T 33 S R 21 E S 18 B T.

A cedar,16 ins.dia.,bears S.71°W.,37 lks. dist..mkd.T 33 S R 20 E S 13 B T.

A cedar,12 ins.dia.,bears N.61°45'W.,9 lks. dist..mkd.T 33 S R 20 E S 12 B T.

Land,mountainous.

Soil,sandy loam 1 to 3 ft.deep,on subsoil,of rock.

Timber,cedar and pinon pine.

Good grass .

Mountainous or heavily timbered land,80.00 chs.

September 1,1911.

E.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	September 2,1911;At 7 h 0 m a.m.,l.m.t.,I set off 37°57' N.,on the lat.arc;8°14'E.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.7,12,13,and 18.
	Thence I run
	South,bet.secs.13 and 18.
	Over mountainous land;through heavy timber.
	Desc.
3.50	Bottom of canon,30 ft.below cor.,course S.80°E.
	Asc.
15.80	Top of ridge,150 ft.above canon,bears N.20°E.and S.20°W.
	Desc.
16.50	Bottom of hollow,15 ft.below ridge,course N.20°E.
	Asc.
24.50	Leave heavy timber and enter dense underprowth,bears N.80°E.and S.80°W.
27.00	Top of abrupt ascent and north edge of cano ,125 ft. above hollow,bears E.and W.
	Desc.
35.00	Bottom of canon,200 ft.below edge,course E.
	Asc.
40.00	Set an iron pst ,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 pinon pine,10 ins.dia.,bears S.17°E.,318 lks.dist..mkd.¼ S 18 B T.
	No other trees within limits;and raise a moundof stone, 2 ft.base,1½ ft.high,W.of cor.
44.00	Begin abrupt ascent,bears E.and W.
50.50	Top of abrupt ascent,80 ft.above canon,bears E.and W.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.13,18,19,and 24,mkd.on brass cap
	T 33 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.quadrants;dig pits,18x18x12 ins.

N.Mer.T.33 S.,R.20 E.-Continued.

Chains

in each sec.5½ ft.dist;and raise a mound of earth,4 ft base,2 ft.high,W.of cor.

Land,mountainous.

Soil,sandy loam 1 to 3 ft.deep,on rock.

Timber,cedar and pinon pine.

Undergrowth,oak and service berry.

Good grass.

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

September 2,1911:At this cor.I set off 8°08'N.,on the decl.arc;and at 0 h 0 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°56'N.,which is the proper lat.nearly.

South bet.secs.19 and 24.

Over rolling mountainous land;through dense undergrowth.

ked.

20.0 Top of ridge,30 ft.above cor.,bears E.and W.

Desc.

26.80 Trail,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 24 in W half and S 19 in E half;from which

A pinon pine,4 ins.dia.,bears S.15°30'E.,110 lks.dist..mkd.¼ S 19 B T.

A pinon pine,3 ins.dia.,bears S.60°15'W.,33 lks. dist..mkd.¼ S 24 B T.

40.50 Enter heavy timber,bears N.70°E.and S.70°W

60.00 Begin abrupt descent,bears N.10°W.and S.10°E.

70.40 Bottom of canon,150 ft.below edge,course S.20°E.

Trail,bears N.20°W.and S.20°E.

ec.

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

Chains

T 33 S in N half .

R 20 E S 24 in NW.

R 21 E S 19 in NE.

S 30 in SE.;and

S 25 in SW.quadrants;from which

A pinon pine,4 ins.dia.,bears N.70°10'E.,142 lks.

dist..mkd.T 33 S R 21 E S 19 B T.

A pinon pine,4 ins.dia.,bears S.55°10'E.,119 lks

dist..mkd.T 33 S R 21 E S 30 B T.

A cedar,6 ins.dia.,bears S.20°35'W.,82 lks.

dist..mkd.T 33 S R 20 E S 25 B T..

A pinon pine,6 ins.dia.,bears N.87°40'W.,115 lks

dist..mkd.T 33 S.R 20 E S 24 B T.

Land,mountainous .

Soil,sandy loam;2nd rate. 1 to 2 ft.deep.

Timber,cedar and pinon pine.

Undergrowth,sage oak and service berry.

Good grass for grazing.

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

September 2,1911.

September 5,1911:At 7 h 59 m a.m.,l.m.t.,I set off 37° 56'W.,on the dat.arc;7°07'N.,on the decl.arc;and e determine a meridian with the solar at the cor.of secs. 19,24,25,and 30.

Thence I run

South,bet.secs.25 and 30.

Over rolling mountainous land;through dense undergrowth.

asc.

.70 Top of spur,10 ft.above cor.,bears N.60°W.and S.60°E.

Enter scattering timber.

Desc.

4.00 Enter heavy timber,bears E.and W.

E.bdy.T.33 S.,R.20 E.-Continued.

Chains

9.40 Desc.over ledge 75 ft.high,bears E.and W.

11.00 Enter patch of maple brush,bears E.and W.

11.30 Bottom of canon,350 ft.below ridge,course E.

Leave maple

Asc.over ledges.

12.50 Top of ledges,bears E.and W.

20.00 Top of steep ascent,400 ft.above canon,bears N.50°E.and S.60°W.

32.10 Top of ridge,300 ft.above canon,bears N.70°E.and S.70°W.

Desc..

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 25 in W half and S 30 in E half;from which

A long leaf pine,12 ins.dia.,bears S.35°04'E.,518 lks.dist..mkd.¼ S 30 B T.

No other trees within limits;dig pits,18x18x12 ins.N. and S of post,3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft.high,W.of cor.

49.60 Bottom of hollow,35 ft.below cor.,course N.70°E.

Asc.

53.30 Top of steep ascent,bears E.and W.

60.00 Top of ridge,40 ft.a bove hollow,bears E.and W.

Desc.

77.00 Bottom of hollow,30 ft.below ridge,course S.80°E.

Asc.

80.00 Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.25,30,31,and 36,mkd.on brass cap

T 33 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.quadrants;from which

A yellow pine,42 ins.dia.,bears N.53°10'E.,238 lks.dist..mkd.T 33 S R 21 E S 30 B T.

An oak,4 ins.dia.,bears S.24°E.,35 lks.

Chains	
	mkd.T 33 S R 21 E S 31 B T.
	A yellow pine,48 ins.dia.,bears S.74°30'W.,234 lks.dist..mkd.T 33 S R 20 E S 36 B T.
	A yellow pine,42 ins.dia.,bears N.84°20'W.,250 lks.dist..mkd.T 33 S R 20 E S 25 B T.
	Land,mountainous;
	Soil,sandy loam 1 to 2 ft.deep,subsoil,sandstone.
	Timber, yellow pine,cedar and pinon pine.
	Undergrowth,oak,service berry and maple.
	Good grass .
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	September 5,1911:At this cor.I set off 7°02'N.,on the decl.arc;and at 11 h 59 m p.m. l.m.t.I observe the sun on the meridian,the resulting lat.is 37°55'N.,which is the proper lat.nearly.
	South,bet.secs.31 and 36.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
15.00	Enter heavy pine timber,bears E.and W.
20.00	Top of ridge,40 ft.above cor.,bears E.and W.
	Leave heavy and enter scattering timber,bears E.and W.
	Desc.
39.60	Bottom of hollow,75 ft.below ridge,course S.30°E.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 36 in W half and S 31 in E half;from which
	A yellow pine,16 ins.dia.,bears N.85°44'E.,344 lks.dist..mkd.¼ S 31 B T.
	No other trees within limits;dig pits,18x18x12 ins.N.and S.of post,3 ft.dist.;and raise a mound of earth,3½ ft. base,1½ ft.high,W.of cor.

E.bdy.T.33 S.R.20 E.-Continued.

Chains	
41.75	Trail,bears N.15°E.and S.15°W.
48.00	Top of ridge,40 ft.above cor.bears N.40°W.and S.40°E.
	Desc.
55.00	Enter heavy cedar and pinon pine timber,bears E.and W.
	Desc.over ledges.
61.00	Bottom of canon,200 ft.below ridge,course E.
	Asc.
69.25	Top of ridge,150 ft.above canon,bears N.80°W.and S.80°E.
	Desc.
75.60	Begin abrupt descen over ledges,bears E.and W.
80.00	Falls on smooth sandstone ledge,I mark a cross (x)at the exact cor.point and at
80.15	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 witness cor.of Tps.33 and 34 S.,Rs.20 and 21 E.,mkd.on brass cap

T 33 S in N half.

T 34 S in S half.

R 20 E S 36 in NW.

W C R 21 E S 31 in NE.

R 21 E S 6 in SE.;and

R 20 E S 1 in SW.quadrants;from which

A pinon pine,12 ins.dia.,bears N.83°E.,88 lks. dist..mkd. W C T 33 S R 21 E S 31 B T.

A pinon pine,8 ins.dia.,bears S.41°30'E.,75 lks. dist..mkd.W C T 34 S R 21 E S 6 B T.

A pinon pine,5 ins.dia.,bears S.47°W.,36 lks. dist..mkd.W C T 34 S R 20 E S 1 B T.

A pinon pine,7 ins.dia.,bears N.42°45'W.,17 lks.dist..mkd.W C T 33 S R 20 E S 36 B T.

Note:This cor.is located on south slope of ridge 250 ft.below ridge and 150 ft.above canon which is about 5.00 chs.south.Another small canon from the south comes into this canon about 4.00 chs.East and 5.00 chs.south of this cor.

Vega Creek is about ½ mile east.

Land,mountainous.

E.bdy.T.33 S.,R.20 E.-Continued.

Chains

Soil,sandy loam 1 to 2 ft.deep,subsoil,sandstone.
Timber,cedar,pinon pine,and yellow pine.
Undergrowth,sage brush ,service berry,oak and maple.
Good grass for grazing.
Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

September 5,1911.

Eric H Anderson

U.S.Transitman.

South bdy.T.33 S.R.20 E.

September 5,1911:At 7 h 59 m a.m.,l.m.t.,I set off 37°54' N.,on the lat.arc;7°07'E.,on the decl.arc;and determine a meridian with the solar,at the cor.of Tps.33 and 34 S.,Rs.20 and 21 E.

Thence I run

West,on a random line along south bdy.of Tp.,setting temp.¼ sec.and sec.cors.at intervals of 40.00 chs. and at 478.63 chs.Intersect W.bdy.of Tp.,42 lks.N.of the cor.of Tps.33 and 34 S.,Rs.19 and 20 E.,heretofore described.The falling answers to a correction of 3 minutes or 7 lks.to the north per mile.

September 5,1911.

September 6,1911:At 7 h 59m a.m.,l.m.t.,I set off 37°54' N.,on the lat.arc;6°44'E.,on the decl.arc;and determine a meridian with the solar at the cor.of Tps.33 and 34 S.,Rs.19 and 20 E.

Thence I run

Chains	
	N.89°57'E.,on a true line bet.secs.6 and 31.
	Over mountainous land;through dense undergrowth.
	Desc.
17.00	Trail,bears NW and SE.
19.40	Bottom of hollow,150 ft.below Tp.cor.course S.70°E.
	Trail,bears NW.and SE.
	Note:There is a small spring or seep 150 lks.North west. which does not flow.
	This hollow parallels the township line running easterly about 5 to 7 chs.to the south.
	Asc.
24.00	Top of ridge,50 ft.above hollow,bears NW.and SE.
	Desc.
28.30	Head of hollow,20 ft.below ridge,course SE.
	Asc.
33.00	Top of ridge,30 ft.above hollow,bears NW and SE.
	Desc.
36.20	Bottom of hollow,30 ft.below ridge,course S.30°E.
	Asc.
37.20	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
38.63	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.mkd.onbrass cap ¼ S 31 in N half and S 6 in S half;fromwh ch
	A lone yellow pine,20 ins.dia.,bears N.6°30'E., 183 lks. dist..mkd.¼ S 31 B T:
	A lone pinon pine,18 ins.dia.,bears S.26 W.,538 dist..mkd.¼ S 6 B T.
74.70	Bottom of canon,300 ft.below ridge,course N.30°E.
	Creek,2 lks.wide,2 ins.deep,in bottom.
	Asc.
78.63	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.5,6,31,and 32,mkd.on brass cap
	T 33 S B 31 in NW.
	R 20 E S 32 in NE.
	R 20 E S 5 in SE.;and
	T 34 S S 6 in SW.quadrants and raise a mound of

Chains

stone 2 ft.base,1½ ft.high,W.of cor.

Land,mountainous.

Soil,clay loam about 1½ ft.deep.subsoil clay.

Timber,a few scattering aspens in the last canon.

Undergrowth,oak.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 78.63 chs.

Sept. 6,1911:At this cor.I set off 6°40'E.,on the decl. arc;and at 11 h 59 m a.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°54 'N.,which is the proper lat.nearly.

N.89°57'E.,on a true line bet.secs.5 and 32.

Over mountainous land;through dense undergrowth.

Asc.

4.00 Top of ridge,50 ft.above cor.,bears N.20°E.and S.20°W.

Desc.

11.50 Bottom of hollow,100 ft.below ridge,course N.30°E.

Asc:

19.50 Top of low divide ridge between Stevens and Davis canons, 100 ft.above hollow,bears N.80°E.and S.20°W.

Desc.

35.40 Bottom of hollow,80 ft.below ridge,course S.60°E.

Asc.

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

Desc.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 32 in N half and S 5 in S half;from which

A yellow pine,26 ins.dia.,bears N.72°30'W.,68 lks.dist..mkd.¼ S 32 B T.

A yellow pine,56 ins.dia.,bears S.6°37'W.,639 lks.dist..;mkd.¼ S 5 B T.

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

Asc.

S.bdy.T.33 S.,R.20 E.-Continued.

Chains

asc.

49.30 Top of ridge,50 ft.above hollow,bears N.and S.

Desc.

52.00 Bottom of hollow,30 ft.below ridge,course S. 20°E.

Asc.

53.40 Top of ridge,020 ft.above hollow,bears N.and S.

Enter scattering timber,bears N.and S.

Desc.

68.20 Trail,bears NE and SW.

80.00 Boint 100 ft.below ridge.

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

T 33 S S 32 in NW.

R 20 E S 33 in NE.

R 20 E S 4 in SE.;and

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

A yellow pine,12 ins.dia.,bears N.1055'E.,112. lks.dist..mkd.T 33 S R 20 E S 33 B T.

A yellow pine,18 ins.dia.,bears S.88°15'E.,100 lks.dist..mkd.T 34 S R 20 E S 4 B T.

A yellow pine,48 ins.dia.,bears S.54°30'W.,346 lks.dist..mkd.T 34 S R 20 E S 5 B T.

A yellow pine,16 ins.dia.,bears N.68°45'W.,297 lks.dist..mkd.T 33 S R 20 E S 32 B T.

Land,mountainous.

Soil,clay loam 1 to 2 ft.deep,subsoil clay and gravel.

Timber,yellow pine.

Undergrowth,oak and service berry.

Good grass

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

September 6,1911.

September 7,1911:At 7 h 54 m a.m.,l.m.t.,I set off 37°59' N.on the lat.arc;6°22'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.4,5,32,and

S.bdy.T.33 S.,R.20 W.-Continued.

Chains	
	33.
	Thence I run
	N.89°57'E.,on a true line bet.secs.4 and 33.
	Over mountainous land;through dense undergrowth and scattering timber.
	Desc.
3.00	Bottom of hollow,30 ft.below sec.cor.,course S.20°E.
	Asc.gently.
7.00	Trail,bears NW and SE.
	Top of ridge,bears N.and S.
	Desc.
16.20	Trail,bears N.and S.
22.85	West side of new circular corral 150 lks.diameter,bears NW and SE.
23.35	East side of corral,bears NW and SW.
25.20	Wing to corral,bears NW and SE.
27.20	Trail,bears N.60°E.and S.60°W.
31.90	Creek,3 lks.wide,2 ins.deep,in head of Stevens canon, 30 ft.below ridge,course N.60°E.
	Asc.
32.50	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..mkd.on brass cap] S 33 in N half and S 4 in S half;from which
	A yellow pine,16 ins.dia.,bears N 22°45 'W.,168 lks.dist..mkd.] S 33 B T.
	A yellow pine,10 ins.dia.,bears S.7°W.,54 lks. dist..mkd.] S 4 B T.
45.50	Top of ridge,200 ft.above canon,bears N.20°W.and S.20°E.
	Desc.
47.30	Bottom of hollow,50 ft.below ridge,course N.10°W.
	Asc.
54.70	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
59.50	Bottom of hollow,100 ft.below ridge,course N.
	Asc.
72.50	Enter heavy cedar and pinon pine timber and leave

S.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	scattering yellow pine timber,bears N.and S..
78.70	Top of ridge,800 ft.above canon,bears N.30°E.and S.30°W.
	Desc.
80.00	Point 50 ft.below ridge.
	Set an iron post,3 ft.long,3 ins.in dia.,12 ins.in the ground,on solid rock,and surrouned by mound of stone, for cor.of secs.3,4,33,and 34,mkd.on brass cap
	T 33 S S 33 in NW.
	R 20 E S 34 in NE.
	R 20 E S 3 in SE.
	T 34 S S 4 in SW.quadrants;from which
	A pinon pine,16 ins.dia.,bears N.63°E.,38 lks. dist..mkd.T 33 S R 20 E S 34 B T.
	A pinon pine,24 ins.dia.,bears S.56°E.,81 lks. dist..mkd.T 34 S R 20 E S 3 B T.
	A pinon pine,24 ins.dia.,bears S.30°30'W.,47 lks. dist..mkd.T 34 S R 20 E S 4 B T.
	A pinon pine,16 ins.dia.,bears N.26°30'W.,48 lks. dist..mkd.T 33 S R 20 E S 33B T.
	Land,mountainous .
	Soil,clay loam 1 to 2 ft.deep,subsoil,clay gravelly and rocky.
	Undergrowth,oak and service berry.
	Timber,yellow pine,pinon pine and cedar.
	Good grass .
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	September 7,1911:At this cor.I set off 6°18'E.,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 37°54'N.,which is the proper lat.nearly.

N.89°57'E.,on a true line bet.secs.3 and 34.

Over mountainous land;through scattering timber and dense undergrowth.

Desc.

S.bdy.T.33 S.,R.20 E.-Continued.

Chains	
16.70	Bottom of canon,600 ft.below sec.cor.,course NE .
	Asc.
29.30	Top of ridge,250 ft.above canon,bears NE and SW.
	Desc.
38.00	Leave timber,bears N.and S.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the grouhd,for ¼ sec.cr..mkd.on brass cap ¼ S 34 in N half and S ¾ in S half;from which
	A pinon pine,10 ins.dia.,bears N.53°30'W.,559 lks.dist..mkd.¼ S 34 B T.
	A pinon pine,8 ins.dia.,bears S.32°W.,369 lks. dist..mkd.¼ S 3 B T.
49.20	Trail,bears N.30°E.and S.30°W.
50.30	Wash,10 lks.wide,3 ft.deep,in bottom of broad hollow, 800 ft.below ridge,course N.20°E.
	Asc.
56.00	Begin steeperascentlbears N.20°E.and S.20°W.
65.30	Wire fence beass N.5°30'W.and S.5°30'E.
	Enter Mormon Pasture enclosure claimed by David L. Goudelock,under Desert entry No.4996.
70.00	Top of ridge,80 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
72.40	Head of hollow,30 ft.below ridge,course N.
	Asc.
74.00	Top of ridge,30 ft.above bears N.30°E.and S.30°W.
	Desc.
80.00	Set an iron post,3 ft.long,3 ins.in the dia.,24 ins.in the ground,for cor.of secs.2,3,34,and 35,mkd.on brass cap
	T 33 S S 34 in NW.
	R 20 E S 35 in NE.
	R 20 E S 2 in SE.;and
	T 34 S S 3 in SW.quadrants;and raise a mound of stone,3 ft.base,2 ft.high,W.of cor.
	Note.From this cor.a stone Monument about 8 ft.high and 4 ft.in dia.,bears N.41°18'E.9.98 chs.dist.the mound is on top of a boulder 8x15 ft.and 3 ft.high.
	Land,mountainous.

S.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	Soil,clay loam 1 to 2 ft.deep,2nd rate.subsoil clay and gravelly.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,buck brush and chokecherry
	Good grass for grazing.
	Mountainous land,or land covered with densgundergrowth,
	80.00 chs.
	September 7,1911.
	———
	September 8,1911At 7 h 58'm a.m.,l.m.t.,I set off 37°54'N on the dec.arc;6°00'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.2,3,34,and 35
	Thence I run
	N.89°57'E.,on a true line bet.secs.2 and 35.
	Over mountainous land;through dense oak and rose bushes
	Desc.
.55	Foot of descent,enter bottom of Mormon Pasture canon,
	Bears N.30°W.and S.30°E.
	Trail,bears N.30°W.and S.30°E.
	Enter cultivated meadow,bears same .
1.50	Trail,bears N.and S.20°E.
4.00	Creek,1 lks.wide,1 in.deep,course N.20°W.
5.60	Trail,bears N.20°W.and S.20°E.
6.55	Ditch,2 lks.wide,6 ins.deep,course N.20°W.
	Leave mesdow bears same .
	Leave canon bottom and ascend.
	Enter dense oak brush.
14.00	Enter heavy cedar and pinon pine timber,bears N.and S.
	Asc.over ledges.
29.50	Top of ridge,800 ft.above canon,bears N.and S.
	Desc gently. Leave heavy and enter scattering timber .
32.00	Trail,bears N.20°E.and S.
40.00	Set an iron post,33ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 35 in N half and S 2 in S half;from which
	A yellow pine,40 ins.dia.,bears N.16°40'W.,

S.bdy.T.33 S.,R.20 E.-Continued.

Chains	
	190lks.dist..mkd.¼ S 35 B T.
	A yellow pine,38 ins.dia.,bears S.34°E.,94 lks.
	dist.,mkd. S 2 B T.
53.00	Bottom of hollow,150 ft.below ridge,course S.
	Asc.
55.00	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
64.00	Bottom of canon,100 ft.below ridge,course NE.
	Asc.
70.00	Top of ridge,200 ft.above canon,bears N.20°E.and S.20°W.
	Desc.
75.80	Bottom of canon,800 ft.below ridge,course N.30°E.
	Asc.
80.00	Point 100 ft.above canon
	Set an iron post,3 ft.long,3 ins.in dia.,12 ins.in the ground,on solid rock,and surrounded by moun of stone, for cor.of s cs.1,2,35,and 36,mkd.on brass cap
	T 33 S S 35 in NW.
	R 20 E S 36 in NE.
	R 20 E S 1 in SE.;and
	T 34 S S2 in SW.quadrants;from which
	A yellow pine,8 ins.dia.,bears N.20°E.,91 lks. dist..mkd.T 33 S R 20 E S 36 B T.
	A yellow pine,6 ins.dia.,bears S.57°E.,89 lks. dist..mkd.T 34 S R 20 E S 1 B T.
	A yellow pine,24 ins.dia.,bears S.57°30'W.,117 lks.dist..mkd.T 34 S R 20 E S 2 B T.
	A yellow pine,26 ins.dia.,bears N.53°30'W.,63 lks.dist..mkd.T 33 S R 20 E S 35 B T.
	Land,mountainous.
	Soil,clay and sandy loam;2nd rate.subsoil,clay and solid rock.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,oak,rose ,and buck brush.
	Good grass .
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

Chains	
	September 8,1911:At this cor.I set off 5°55'E.,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 37°54'N.,which is the proper lat.nearly.
	N.89°57'E.,on a true line bet.secs.1 and 36.
	Over mountainous land;through dense undergrowth and scattering timber.
	Asc.
5.00	Top of ridge,30 ft.above sec.cor.,bears NE and SW.
	Desc.
25.00	Trail,bears N.67°W.and S.70°E. Enter aspen timber.
26.50	Bottom of hollow,100 ft.below ridge,course N.80°E.
	Asc.
	Leave aspen timber.,bears N.80°E.and S.80°W.
34.90	Top of ridge,15 ft.above hollow,bears N.and S.
	Desc.
37.80	Bottom of hollow,25 ft.below ridge,course S.70°E.
	Asc.
40.00	Set an iron post 3 ft.long 1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 36 in N half and S 1 in S half;from which
	A yellow pine,40 ins.bears N.5°30'W.,90 lks. dist..mkd.¼ S 36 B T.
	A yellow pine,40 ins.dia.,bears S.35°20'W.,1.66 dist.mkd. ¼ S 1 B T.
41.70	Ledge 30 ft.high,bears NW and SE.
44.60	Top of ridge,25 ft.above hollow,bears N.and S.
	Desc.
60.00	Smooth sandstone ledge 2 ft.high,bears N.and S.
61.90	Bottom of hollow,30 ft.below ridge,course S.30°E.
	Asc.
64.00	Begin abrupt descent,bears N.70°E.and S.70°W.
	Enter cedar and pinon pine timber,bears same.
80.00	The cor.of Tps.33 and 34 S.,Rs.20 and 21 E.,(this is point

S.bdy.T.33 S.,R.20 E.-Continued.

Chains.

15 lks.north of the witness cor.)

Land,mountainous.

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

Timber,cedar pinon pine,and yellow pine.

Undergrowth,oak,rose,sage,and buck brush.

Good grass .

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

September 8,1911.

[illegible]

Boundaries of T.33 S.,R.20 E.

Latitudes departures ,and closing errors.

Line designated	course	distance chs.	latitudes N. chs.	latitudes S. chs.	departures E. chs.	departures W. chs.
W.bdy.T.33 S.,R.20 E.	North	480.00	480.00			
N.bdy.T.33 S.R.20 E.	East	478.31			478.31	
E.bdy.T.33 S.,R.20 E.	South	480.00		480.00		
S.bdy.T.33 S.R.20 E.	S.89°57'W.	478.63		.42		478.63
Convergency					.57	
Totals			480.00	480.42	478.88	478.63
				480.00	478.63	
Error in lat.				.42		
Error in dep.					.25	

General Description.

For general description see notes of Sub.T.33 S.,R.20 E.

Scott P. Stewart
U.S.Transitman

September 8,1911.

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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 stated opposite our several signatures, in surveying all those parts or portions of .....

.....For certificate of assisatants 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 oath 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, 191 4.

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

executed by their Scott P. Stewart and Eric H. Anderson under his 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 is _____ has been correctly copied from the original notes on file in this office.

_____
U. S. Surveyor General.

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BOOK A-387

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

of

Township No.33 South, Range No.20 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. ~~Surveyors~~ 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 September 5, 191~~1~~

Survey completed October 6, 191~~1~~

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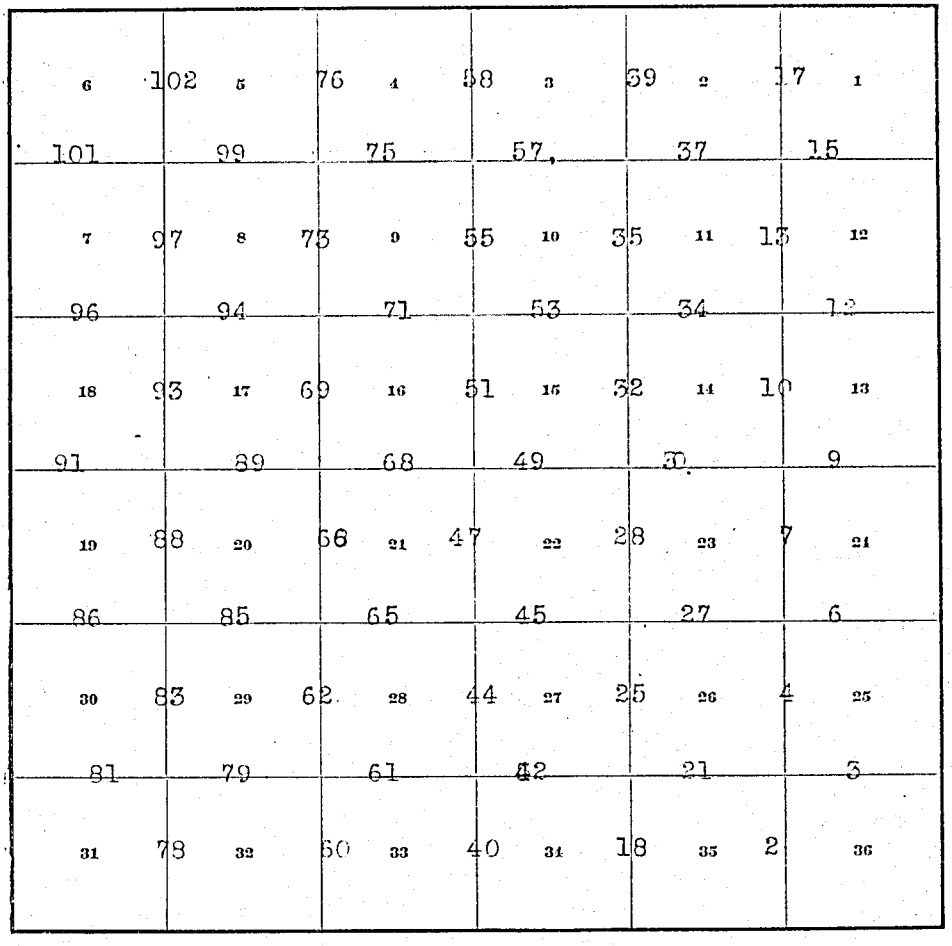
BOOK A-387

INDEX DIAGRAM.

Township 33 South, *Range* 20 East



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Survey commenced September 5, 1911, and executed with a Young and Sons solar compass, S.G.U.No.1, 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, April 24, 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:

Note:The cor.of secs. 1,2,35, and 36 was not established when this line was begun; but the random south bdy. had been run, and the position for corner known,therefore

At the point for cor.of secs.1,2,35, and 36 on S.bdy. of Tp., lat.37°53'51" N.; long.109°43'36" W., I set off 37°54'N.on the lat.arc; 6° 59'N.on the decl.arc; and at 3h 59m p.m.l.m.t., determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground 5.00 chs.N.of the cor.

At 8h 36.6m p.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.

September 5, 1911.

September 6, 1911: At 7h 30m a.m.l.m.t., I lay off the azimuth of Polaris 1° 28' to the west and mark a point in the meridian thus determined by cutting a small

groove in the stone already set 5.00 chs.N.of the cor.; this mark falls 0.36 ins.east of the meridian determined by the solar.

At 7h 59m a.m.l.m.t., I set off 37°54'N.on the lat.arc; 6° 44'N.on the decl.arc; and determine a meridian with the solar, and mark a point thereof on the stone already set 5.00 chs.N.of the cor.; this mark falls 0.29 ins.east of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'19" west and 0'15"east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

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

From said point for cor.of secs.1,2,35, and 36, I run N.0°01'W.bet.secs.35 and 36.

Descending over mountainous land;through scattering timber and dense undergrowth.

8.00 Begin steeper descent, bearing N.30° E. and S.30° W.

10.00 Foot of steep descent.

12.30 Wash 10 lks.wide, 3 ft deep, in bottom of canon, 150 ft.below cor., course N.30° E. Asc.

36.00 Top of ridge, 75 ft.above canon, bears N.60° E. and S. 60° W. 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 35 in W. W.half, and S 36 in E.half; from which

A yellow pine, 36 ins.dia., bears N.32° 30'E.70 lks.dist., mkd.$\frac{1}{4}$ S 36 B T

A yellow pine, 40 ins.dia., bears S.56°30'W.220 lks.dist., mkd.$\frac{1}{4}$ S 35 B T

Note: From this cor.a spring bears S.88°50'E.6.00 chs. dist., in bottom of canon.

Sub.T.33 S.; R.20 E.- Continued.

Chains.	
43.00	Bottom of canon, 50 ft.below ¼ sec.cor.course E. Asc.
46.00	Begin steeper ascent, bearing E.and W.
49.50	Trail, bears N.40° E. and S.40° W.
50.00	Top of steep ascent, bearing N.60° E. and S.60° W.,.125 ft.above canon.
63.30	Trail, bears N.50° E. and S.50° W.
68.20	Head of hollow, 15 ft.below ridge, course S.15° E. Asc.
75.70	Trail, bears N.30° E. and S.30° W.
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 33 S S 26 in NW. R 20 E S 25 in NE. S 36 in SE.; and S 35 in SW.quadrants; dig pits 18 x 18 x 12 ins.in in each sec.5½ ft.dist.; and raise a mound of earth,4 ft.base, 2 ft.high W.of cor.
	Land, mountainous.
	Soil, sandy loam, 2d rate, 2 to 4 ft.deep; subsoil rock.
	Timber, yellow pine.
	Undergrowth, serviceberry, oak, and larb.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 80.00 chs.
	September 6, 1911: At this cor.I set off 6° 40'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 37° 55'N., which is the proper lat.nearly.

	N.89°57'E.on a random line bet.secs.25 and 36,
40.00	Set temp.¼ sec.cor.
79.98	Intersect E.Bdy:of Tp. 2 lks.N.of the cor.of secs.25, 30,31 and 36, heretofore described. Thence I run S.89°58'W.on a true line bet.secs.25 and 36,

Chains.	
	Ascending over mountainous land; through scattering timber and dense undergrowth.
3.00	Leave timber, bears N.and.S.
11.70	Top of ridge, 60 ft.above cor., bears N.and S. Desc.
20.00	Bottom of hollow, 50 ft.below.ridge, course N.30° W.Asc.
21.10	Trail, bears.N.and.S.
26.50	Top of ridge, 45 ft.above hollow, bears N.35° W. and S. 35° E. Desc.
35.00	Bottom of hollow, 55 ft.below ridge, course NW. Asc.
38.50	Top of ridge, 45 ft.above hollow, bears N.and S. 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 25 in N. half, and S 36 in S.half; from which -
	A yellow pine, 36 ins.dia., bears N.59° 30'W. 115 lks.dist., mkd.¼ S 25 B.T
	A yellow pine, 30 ins.dia., bears S.70° W. 170 lks.dist., mkd.¼ S 36 B T
42.50	Bottom of hollow,50 ft.below ¼ sec.cor.course N.50°E. Yellow pines are scattered along bottom of hollow. Asc.
45.00	Top of abrupt ascent, and W.edge of canon,bears NE.& SW.
74.20	Trail, bears NE. and SW.
79.98	The cor.of secs.25,26,35, and 36.
	Land, mountainous.
	Soil, sandy loam 2 to 4 ft.deep;subsoil, clay.
	Timber, cedar and yellow pine. Undergrowth, oak, service berry, wild rose, and larb. Good grass.
	Mountainous land, or land covered with dense undergrowth
	79.98 chs. September 6, 1911.

September 7: At 7h 58m a.m.l.m.t., I set off 37°55'N.

September 7, 1911: At 7h 58m a.m.l.m.t., I set off 37° 55'N.on the lat.arc; 6° 22'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

Chains	
	N.0°01'W.,bet.secs.25 and 26.
	Over rolling mountainous land;through very scattering timber and dense undergrowth.
	Asc.gently.
5.00	Trail,bears NE and SW.
8.60	Top of ridge,45 ft.above cor.,bears N.80°E.and S.80°W.
	Desc.
17.30	Desc.abruptly,bears N.60°E.and S.60°W.
19.10	Head of canon,75 ft.below ridge,course N.60°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.onbrass cap ¼ S 26 in W half and S 25 in E half;dig pits,18x18x12 ins.N.and S.of post, 3 ft.dist.;and raise a mound of earth,3½ ft.base,1½ ft. high,W.of cor.
50.00	Top of ridge,10 ft.above ¼ sec.cor.,bears N.60°E.and S.60 W.
	Desc.
57.00	Begin steeper descent,bears NE and SW.
65.00	Foot of steep descent,bears NE and SW.
68.00	Leave undergrowth,bears NE and SW.
70.40	Bottom of canon,125 ft.below ridge,course N.70°E.
	Asc.
79.00	Top of spur,75 ft.above canon,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,? ins.in dia.,24 ins.in the ground,for cor.of secs.23,24,25,and 26,mkd.onbrass cap
	T 33 S S 23 in NW.
	R 20 E S 24 inNE.
	S 25 in SE.;and
	S 26 in SW.quadrants;from which
	A pinon pine,12 ins.dia,bears S.76°W.,259 lks. dist..mkd.T 33 S R 20 E S 26 B T.
	A pinon pine,12 ins.dia.,bears N.80°25'W.,203 lks.dist..mkd.T 33 S R 20 E S 23 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

Sub.T.33 S.,R.20 E.-Continued.

Chains

Land mountainous .

Soil,sandy loam 2 ft to 4 ft.deep,subsoil,sandstone.

Timber,yellow pine,pinon pine and cedar.

Undergrowth,oak,service berry,wild rose,larb,and sage.

Good grass .

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

September 7,1911:At this cor.I set off 6°18'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 37°56'N.,which is the proper lat.nearly.

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

40.00 Set temp.¼ sec.cor.

79.91 Intersect E.bdy.of Tp.12 lks.S.of the cor.of secs.19,24, 25.and 30, heretofore described.

Thence I run

S.89°53'W.,on a true line bet.secs.24 and 25.

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

Asc.

1.00 Top of ridge,10 ft.above cor.,bears N.60°W.and S.60°E.

Desc.

8.00 Begin steeper descent over ledges,bears NW and SE.

10.00 Bottom of ledges,bears NW and SE.

13.00 Bottom of canon,150 ft.below ridge,course SE.

Asc.

19.00 Top of ledge,15 ft.high,bears NW and SE,

20.00 Top of abrupt ascent,200 ft.above canon,bears N.and S.

25.00 Top of ridge,40 ft.above ledge bears N.30°W.and S.30°E.

Desc.

35.70 Bottom of hollow,30 ft.below ridge,course S.10°E.

Asc

39.95½ 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,

Chains	
	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,12 ins.dia.,bears N.57°W.,400 lks. dist..mkd.¼ S 24 B T. A pinon pine,8 ins.dia.,bears S.63°45' W.,245 l dist..mkd.¼ S 25 B T.
45.00	Top of ridge,10 ft.above ¼ sec.cor..bears N.and S.
	Desc.
52.60	Desc.over ledges,bears N.20°W.and S.20°E.
58.50	Bottom of canon,125 ft.below ridge,course S.
	Asc.
59.50	Trail,bears N.10°E.and S.10°W.
62.00	Asc.over ledges,bears N.40°E.and S.40°W.
66.20	Top of steep ascent,200 ft.above canon,bears N.40°E.and S 40°W.
68.20	Top of ridge,250 ft.above canon,bears NW and SE.
	Desc.
70.75	Begin more gradual descent,bears NW and SE.
75.75	Bottom of canon,75 ft.below ridge,course S.40°E.
	Trail in bottom.
	Asc.
79.91	The cor.of secs.23,24,25,and 26.
	Land,mountainous.
	Soil,sandy 2 ft to 4 ft.deep.
	Timber,cedar pinon pine,and yellow pine.
	Undergrowth,sage,oak,service berry,and wild rose.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.91 chs.
	September 7,1911.

September 8,1911:At 7 h 58 m a.m.,l.m.t.,I set off 37° 56'N.,on the lat.arc;6°00'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.23,24,25, and 26.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	Thence I run
	N.0°01'W.,bet.secs.23 and 24.
	Over rolling mountainous land;through scattering timber and dense undergrowth.
	Desc.
9.90	Bottom of hollow,40 ft.below cor.,course S.30°E.
	Trail in bottom .
	Asc.
14.00	Begin steeper ascent,bears N.30°W.and S.30°E.
18.10	Top of steep ascent,bears N.20°W.and S.20°E.
30.50	Trail,bears N.40°E.and S.40°W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.onbrass cap ¼ S 23 in W half and S 24 in E half;dig pits,18x18x12 ins.N.and S.of post,3 ft.dist.;and raise a mound of earth,3½ ft.base, 1½ ft.high,W.of cor.
52.30	Top of ridge,30 ft.above ¼ sec.cor. bears E.and W.
	Desc.
68.00	Trail,bears N.E.and S.70°W.
71.60	Bottom of hollow,65 ft.below ridge,course N. 40°E.
	Asc.
72.50	Trail,bears N.and S.30°W.
	Thence along trail.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,20 ins.in the ground,on solid rock,and surrouned by mound of stone, for cor.of secs.13,14,23,and 24,mkd.onbrass cap
	T 33 S S 14 in NW.
	R 20 E S 23 in NE.
	S 24 in SE.;and
	S 23 in SW.quadrants;from which
	A pinon pine,8 ins.dia.,bears N.29°30'E.,333 lks dist..mkd.T 33 S R 20 E S 13 B T.
	A pinon pine,12 ins.dia.,bears S.28°45'E.,248 lks,dist..mkd.T 33 S R 20 E S 24 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	Land,mountainous .
	Soil,sandy loam 2 to 4 ft.deep,on sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,oak ,service berry,deer brush,and sage.
	Good grass for grazing.
	Mountainous land,or land dovered with dense undergrowth,
	80.00 chs.
	September 8,1911:At this cor.I set off 5°55'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 37°56'N.,which
	is the proper lat.nearly.
	N.89°53'E.,on a random line bet.secs.13 and 24.
40.00	Set temp.¼ sec.cor.
80.00	Intersect E bdy.of Tp.,at the cor.of secs.13,18,19,and
	24, heretofore described.
	Thence I run
	S,89°53'W.,on a true line bet.secs.13 and 24.
	Over mountainous land;through scattering timber and
	dense undergrowthw.
	Asc.
2.00	Top of ascent 10 ft.above cor.,bears NE and SW,
7.50	Bottom og hollow,10 ft.below ridge,course N.
	Asc.gently.
40.00	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.onbrass cap ¼S 13 in N half and S 24
	in S half;and raise a mound of stone,2 ft.base,1½ ft.
	high,N.of cor.
42.50	Top of ridge,10 ft.above ¼ sec.cor.,bears N.and S.
	Desc.
48.20	Bottom of hollow,35 ft.below ridge,course N.40°W.
	Asc.
49.85	Top of ridge,10 ft.abve hollow,bears N.and S.
	Desc.
53.55	Bottom of 50 ft.ledge,bears N.and S.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	Asc.
56.40	Head of small canon,80 ft.below ridge,course N.20°W.
	Asc.
58.50	Top of ledge,50 ft.high,bears NE and SW.
63.00	Top of ridge,150 ft.above canon,bears N.10°E.and S.10°W
	Desc.
66.70	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
69.00	Top of ridge,25 ft.above hollow,bears NE and SW.
	Desc.
75.60	Bottom of hollow,70 ft.below ridge,course N.40°E.
	Asc.
77.50	Top of steep ascent,bears N.40°E.and S.40°W.
80.00	The cor.of secs.13,14,23,and 24.
	Land,mountainous.
	Soil,sandy 2 to 4 ft deep,2nd rate.subsoil,rock.
	Timber,cedar andpinon pine.
	Undergrowth,oak busk brush,service berry and sage .
	Good grass ;
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.

September 8,1911.

September 9,1911:At 8 h 58 m a.m.,l.m.t.,I set off 37° 56'N.,on the lat.arc;5°37'N.,on the decl.arc;and determine a meridian with thesolar,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 scattering timber and dense undergrowth.

	Asc.
10.00	Top of ridge,50 ft.above cor.,bears N.50°E.and S.50°W.
	Desc.
34.30	Bottom of hollow,90 ft.below ridge,course NE.
	Asc.

Sub.T.33 S.,R.20 E.-Continued.

Chains

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.onbrass cap ¼ S 14 in W half and S 13 in E half;from which

A pinon pine,8 ins.dia.,bears N.89°E.,87 lks. dist..mkd.¼ S 13 B T.

A pinon pine,10 ins.dia.,bears N.74°10'W.,52 lks.dist..mkd.¼ S 14 B T.

Enter heavy timber,bears NE and SW.

46.10 Sandstone boulder 115x12x2 ft.

46.50 Top of ridge,40 ft.above ¼ sec.cor.,bears N.50°E.and S. 50°W.

Desc.

55.00 Bottom of hollow,30 ft.below ridge,course E.

Asc.

60.00 Leave heavy and enter scattering timber,bears N W and SE.

70.00 Begin steeper ascent,bears N.80°E.and S.80°W.

Enter heavy timber,bears NE and SW.

73.50 Top of steep ascent,20 ft.above hollow,bears N.60°E. and S.60°W.

Asc.gently.

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

T 33 S S 11 in NW.

R 20 E S 12 in NE.

S 13 in SE.;and

S 14 in SW.quadrants;from which

A pinon pine,8 ins.dia.,bears N.86°E.,30 lks. dist..mkd.T 33 S R 20 E S 12 B T.

A cedar,14 ins.dia.,bears S.46°30'E.,80 lks. dist..mkd.T 33 S R 20 E S 13 B T.

A pinon pine,10 ins.dia.,bears S.51°30'W.,62 lks. dist..mkd.T 33 S R 20 E S 14 B T.

A pinon pine,8 ins.dia.,bears N.65°20'W.,37 lks. dist..mkd.T 33 S R 20 E S 11 B T.

Land,mountainous.

Soil,sandy 2 to 4 ft deep,2nd rate.subsoil,sandstone.

Sub.T.33 S.,R.20 E.-Continued.

Chains

Timber,cedar and pinon pine.

Undergrowth,oak,serviceberry,buck ,and sage brush.

Good grass for grazing.

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

September 9,1911At this cor.I set off 5°33'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 37°57'N.,which is the proper lat.nearly.

N.89°53'E.,on a tandom line bet.secs.12 and 13.

40.00 Set temp.¼ sec.cor.

80.02 Intersect E.bdy.of Tp 3 N.,R.20 E.,3 lks.N.of the cor.of secs.7,12,13,and 18, heretofore described.

Thence I run

S.89°54'W.,on a true line bet.secs.12 and 13.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.

17.00 Top of ridge,75 ft.above cor.,bears N.and S.

Desc.

20.00 Bottom of hollow,50 ftlbelow ridge,course N.50°E.

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 brasscap ¼ S 12 ins N half and S 13 in S half;from which

A pinon pine,8 ins.dia.,bears N.40°E.,8 lks. dist..mkd.¼ S 12 B T.

A pinon pine,6 ins.dia.,bears S.23°30'W.,18 lks. dist..mkd.¼ S 13 B T.

49.00 Top of ledge20 ft.high,on ridge,300 ft.above canon,bears N.and S.

Desc.

51.00 Bottom of canon,40 ft.below ridge,course NE.

Chains	
	Asc.
54.70	Top of abrupt ascent,120 ft.above canon,bears N.and S.
60.70	Trail,bears N.30°W.and S.30°E.
61.00	Trail,bears N.and S.
65.40	Trail,bears N.and S.
	Asc.
67.00	Top oof steep ascent,75 ft.above trail,bears N.and S.50°W.
	Asc.gently over mesa.
80.02	The cor.of secs.11,12,13,and 14.
	Land,mountainous and rolling mesa.
	Soil,sandy loam 2 to 4 ft deep,2nd rate ,subsoil,rock.
	Timber,cedar and pinon pine.
	Undergrowth,oak and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.02 chs.

September 9,1911.

September 11,1911:At 7 h 57 m a.m.,l.m.t.,I set off 37° 57'N.,on the lat.arc;4°52'E.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.11,12, 13,and 14.

Thence I run

N.0°01'W.bet.secs.11 and 12.

Over mountainous land;through heavy timber.

Asc. ; through undergrowth.

5.00	Top of ridge,20 ft.above cor.,bears N.70°E.and S.70°W.
	Desc.
10.00	Begin abrupt descent,bears N.20°E.and S.70°W.
15.00	Bottom of hollow,150 ft.below ridge,course NW.
	Asc.over ledges.
17.00	Top of ridge,50 ft.above hollow,bears NW and SE.
	Desc.
20.00	Bottomof hollow,250 ft.below ridge,course N.70°W.
	Asc.
24.00	Top of ridge,200 ft.above hollow,bears N.40°W.and S.40°E.

Chains	
	Desc.
26.00	Leave ledges,bears NE and SW.,
30.00	Foot of steep descent,300 ft.below ridge,bears NE and SW.
30.20	Bottom of hollow,320 ft.below ridge,course N.70°W.
	Asc.
32.65	Top of ridge,75 ft.above hollow,bears E.and W.
	Desc.
35.30	Bottom of hollow,75 ft.below ridge,course N.70°W.
	Asc.
38.50	Top of ridge,50 ft.above hollow,bears NW.and SE.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ½ sec.cor..mkd.on brass cap ¼ S 11 in W half and S 12 in E half;from which
	A pinon pine,12 ins.dia.,bears N.37°30'E.,15 lks.dist..mkd.¼ S 12 B T.
	A pinon pine,8 ins.dia.,bears N.63°30'W. ,47 lk dist..mkd ¼ S 11 B T.
42.50	Bottom of hollow,50 ft.below ridge,course N.40°W.
	Asc.
44.20	Top of ridg,50 ft.above hollow,bears N.40°W.and S.40°E.
	Desc.
46.30	Bottom of hollow,60 ft.below ridge,course NW.,
	Asc.
52.10	Top of ridge,50 ft.above hollow,bears E.and W..
	Desc.
53.30	Bottom of hollow,25 ft.below ridge,course NW.
	Asc.
54.60	Top of ridge,20 ft.above hollow,bears E.and W.
	Desc.
65.00	Foot of descent,bears E.and W.
	Thence over mesa.
78.30	Leave mesa,bears NE and SW.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,12 ins.in the ground,on solid rock,and surrounded by moundoof stone, for cor.of secs.1,2,11,and 12,mkd.on brass cap

Chains	
	T 33 S S 2 in NW.
	R 20 E S 1 in NE.
	S 12 in SE.;and
	S 11 in SW.quadrants;from which
	A cedar,12 ins.dia.,bears N.28°20'E.,14 lks.
	dist..mkd .T 33 S R 20 E S 1 B T.
	A lodge,4 ft.high,bears S.45°E.,02 lks. dist.
	mkd.X B O S 12 .
	A pinon pine,14 ins.dia.,bears S.68°17'W.,37
	lks.dist..mkd.T 33 S R 20 E S 11 B T.
	A cedar,8 ins.dia.,bea s N.86°45'W.,49 lks.
	dist..mkd.T 33 S R 20 E S 2 B T.
	Land,mountainous.
	Soil,sandy 2 to 4 ft.deep.underlaid with sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage and oak brush.
	Good grass.
	Mountainous land,or land covered with dense undergrowth,
	or land covered with heavy timber,80.00 chs.
	September 11,1911:At this cor.I set off 4°47'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 37°58'N.,which is
	the proper lat.nearly.
	N.89°54'E.,on a random line bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.
80.00	Intersect E.bdy.of Tp.7 lks.N.of the cor.of secs.1,6,7,and
	12, heretofore described.
	Thence I run
	S.89°57'W.,on a true line bet.secs.1 and 12.
	Over mountainous land;through heavy timber and
	scatteing undergrowth.
	Desc.
.15	Bottom of hollow,5 ft.below cor.,course N.60°W.
	Asc.

Chains	
2.00	Top of ridge,50 ft.above cor.,bears N.35°W.and S.35°E.
	Desc.
6.00	Bottom of hollow,80 ft.below ridge,course N.50°W.
	Asc.
8.00	Top of ridge,30 ftlabove hollow,bears NW.and SE.
	Desc.
9.50	Bottom of hollow,30 ft.below ridge,course N.20°E.
	Asc.
11.50	Top of ridge,50 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
14.40	Bottomof hollow,40 ft.below ridge,course N.30°W.
	Asc.
16.50	Top of ridge,20 ft.above hollow,bears N.and S.
	Desc.
20.20	Bottom of hollow,40 ft.below ridge,course N.30°E.
	Asc.
22.50	Top of ridge,50 ft.above hollow,bears N.20°E.and S.20°W.
	Desc.
26.50	Bottom of hollow,30 ft.below ridge,course N.30°E.
	Asc.
29 00	Top of ridge, 50 ft.above hollow,bears N.30°E.and S.30°W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.onbrass cap ¼ S 1 in N half and S 12 in S halffrom which
	A pinon pine,6 ins.dia.,bears N.25°W.,48 lks. dist..mkd.¼ S 1 B T.
	A pinon pine,6 ins.dia.,bears S.7°30'E.,50 lks. dist..mkd.¼ S 12 B T.
53.00	Begin steer descent,bears N.60°E.and S.60°W.
56.30	Foot of ledges,50 ft.high,bears NE and SW.
59.30	Bottom of canon,75 ft.below ledges,course N.30°E.
	Asc.over ledges.
61.50	Top of abrupt ascent,and edge of mesa,bears N.40°W.and S.40°E.
78.90	LEave mesa,bears N.70°E.and SW.
	Desc.over ledges.

Sub. T. 33 S., R. 20 E. - Continued.

Chains	
79.80	Foot of ledge, 75 ft. below mesa, bears NE. and SW.
80.00	The cor. of secs. 1, 2, 11 and 12.
	Land, mountainous.
	Soil, sandy and clay loam; 2nd rate.
	Timber, cedar and pinon pine.
	Undergrowth, sagebrush and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.
	September 11, 1911.
	September 12, 1911: At 7 h 57m a.m.l.m.t., I set off 37°58'N. on the lat. arc; 4°29'N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 11 and 12.
	Thence I run
	N.0°01'W. on a random line bet. secs. 1 and 2.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. bdy. of Tp. 25 lks. W. of the cor. of secs. 1, 2, 35 and 36, heretofore described.
	Thence I run
	S.0°10'W. on a true line bet. secs. 1 and 2.
	Over mountainous land; through scattering timber and scattering undergrowth.
	Desc.
4.70	Bottom of hollow, 50 ft. below cor., course S.70°E.
	Asc. abruptly.
5.90	Top of abrupt ascent, bears NW. and SE.
6.10	Top of ridge, 50 ft. above hollow, bears N.30°W. and S. 30°E. Desc.
11.30	Bottom of hollow, 150 ft. below ridge, course N.60°E.
	Asc.
13.80	Begin asc. bears N.70°E. and S.70°W.
17.00	Top of steep ascent, bears N.70°E. and S.70°W.
21.50	Top of ascent and edge of mesa, 125 ft. above hollow, bears

Sub. T. 33 S., R. 20 E. - Continued.

Chains	
	N.80°E. and S.80°W. Enter heavy timber.
24.40	Enter dense undergrowth, bears E. and W.
38.10	Leave mesa, bears E. and W.
	Desc. abruptly.
39.96	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of stone, for ¼ sec. cor., mkd. on brass cap ¼ S 2 in W. half and S 1 in E. half; from which
	A cedar,10 ins.dia.,bears N.39°E., 32 lks. dist., mkd. ¼ S 1 B T
	A cedar,10 ins.dia.,bears S.41°W., 24 lks. dist., mkd. ¼ S 2 B T
56.20	Descend over ledges, bears E. and W.
57.60	Foot of ledges, bears E. and W.
61.00	Creek, 8 lks. wide, 3 ins.deep, in bottom of Stevens canon, 400 ft. below mesa, course N.80°E.
	Asc. abruptly.
61.90	Trail, bears N.80°E. and S.80°W.
63.00	Top of abrupt ascent, bears N.70°E. and S.70°W.
79.96	The cor. of secs. 1, 2, 11 and 12, 500 ft. above canon.
	Land, mountainous.
	Soil, sandy clay loam 2 to 4 ft. deep on sandstone.
	Timber, cedar and pinon pine.
	Undergrowth, sage service berry.
	Good grass for grazing.
	Mountainous land, or heavily timbered land, or land covered with dense undergrowth, 79.96 chs.

September 12, 1911.

Eric H Anderson.
U. S. Transitman.

Survey commenced September 8,1911,and executed with a

Sub.T.33 S.,R.20 E.-Continued.

Chains

W.and L.E.Gurley light mountain 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.

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

At the cor.of secs.2,3,34,and 35,on S.bdy.of Tp.latitude 37°53'51"N.,longitude 109°44'34"W.,I set off 37°54'N., on the lat.arc;5°52'N.,on the decl.arc;and at 4 h 58 m p.m.,l.m.t.,I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.;~~this mark falls~~

At 8 h 24.8 m p.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.

September 8,1911.

September 9,1911At 7 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°28'to the west and mark a point in the meridiannthus determined,by cutting a small groove in the stone already set 5.00 chs.N.of the cor.; this mark falls 0.37 ins.east of the meridian determined with the solar.

At 7 h 58 m a.m.,l.m.t.,I set off 37°54'N.,on the lat.arc;5°37'N.,on the decl.arc;and mark the meridian

Sub.T.35 S.,R.20 E.-Continued.

Chains	
	determined with the solar,by a cross on the stone alread set 5.00 chs.N.of the cor.;this mark falls 0.33 ins.east of the meridian established by Polaris observation. The solar apparatus defines by p.m.and a.m.observations positions for meridians respectively about 0'19"west and 0'17"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the meridian,at 8 h 30 m a.m., in N.16°05'W.,the angle thus determined gives the mag. decl.16°05'E.
	From said 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 dense oak and rose brush Desc.
.65	Foot of descent,enter Mormon Pasture canon,and cultivated meadow,bears N.20°W.and S.20°E.
	Trail,bears same
	Leave undergrowth,bears same.
10.90	Wash,10 lks.wide,4 ft.deep,Creek,1 lk.wide,1 in.deep,in bottom.Leave meadow,bears NW and SE.
	Enter dense sage and oak brush.
	Asc.gently.
16.00	Trail,bears N.30°W.and S.30°E.
	Asc.over rolling foot hills.
39.90	Water ditch,2 lks.wide,8 ins.deep,course N.20°W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 34 in W half and S 35 in E half;and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
43.90	Wash,10 lks.wide,5 ft.deep,course S.80°W.
44.00	Ridge,30 ft.above ¼ sec.cor.,bears E.and W.
	Desc.
44.75	Fence at North end of Mormon Pasture,and David L.Goudelo

Chains	
	Desert Entry No.4996.,bears N.83°30'E.and S.83°30'W.
	From this point the center of a double corral bears S.84°W.,about 20.00 chs.dist.
63.00	Trail,bears N.80°E.and S.80°W.
65.00	Wash,10 lks.wide,4 ft.deep,course W.
71.65	Wash,15 lks.wide,3 ft.deep,course W.
75.50	Wash,8 lks.wide,6 ft.deep,course W.
79.00	Wash,10 lks.wide,4 ft.deep,course W.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.26,27,34,and 35,mkd.on brass cap T 33 S S 27 in NW. R 20 E S 26 in NE. S 35 in SE.;and S 34 in SW.quadrants;from which A cedar,7 ins.dia.,bears N.69°50'E.,183 lks. dist..mkd.T 33 S R 20 E S 26 B T.
	No other trees within limits;raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Land, rolling.
	Soil,clay loam;2nd rate from 2 to 20 ft.deep.
	NoTimber,
	Undergrowth,sage,oak,and rose.
	Good grass for grazing.
	Mountainous land,or land dovered with dense undergrowth, 69.75 chs. Balance of mile meadow.
	September 9,1911:At the noon hour the sky is overcast and solar observations are impossible.
	—— —
	N.89°57'E.,on a random line bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,7 lks.N.of the cor.of secs.25,26,35, and 36.
	Thence I run
	West,on a true line bet.secs.26 and 35.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	Over rolling mountainous land;through dense undergrowth.
	Asc.gently.
1.25	Trail,bears N.and S.
18.65	Trail,bears N.and S.
40.01	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 26 in N. half and S 35 in S. half;from which
	A yellow pine,20 ins.dia.,bears N.13°15'W.,360 lks.dist.mkd. ¼ S 26 B T.
	A yellow pine,30 ins.dia.,bea s S.1°W.,253 lks. dist..mkd. ¼ S 35 B T.
	Enter scattering timber,bears N.and S.
41.00	Top of ridge,100 ft.above sec.cor.,bears N.20°E.and S.20°W
	Desc.
47.30	Bottom of hollow,100 ft.below ridge,course N.20°E.
	Asc.
53.70	Top of ridge,100 ft.above hollow,bears N.20°E.and S.20°W.
	Des.abruptly.
54.20	Desc over ledges,bears N.20°E.and S.20°W.
	Enter heavy timber,bears N.20°E.and S.20°W.
74.00	Foot of ledges and abrupt descent,bears N.and S.
	Leave heavy and enter scattering timber and dense undergrowth, bears N.and S.
80.02	The cor.of secs.26,27,34,and 35.
	Land,mountainous .
	Soil,sandy and clay loam;2nd rate.
	Timber,pinon pine,cedar and yellow pine.
	Undergrowth,oak and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.02 chs.
	September 9,1911.

September 10,1911 :At 7 h 57 m a.m.,l.m.t.,I set off

Sub.T.35 S.,R.20 E.-Continued.

Chains 37°55'N.,on the lat.arc;4°52'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°1'W.,bet.secs.26 and 27.

Over mountainous land;through dense undergrowth and scattering timber.

Asc.getly.

1.20 Top of ridge,30 ft.above cor.bears E.and S.

Desc.

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

Asc.

9.50 Top of ridge,30 ft.above hollow,bears E.and W.

Desc.

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

Asc.

15.70 Top of ridge,10 ft.above hollow,bears E.and W.

Desc.

17.50 Wash,20 lks.wide,6 ft.deep,in bottom of hollow,30 ft. below ridge,course W.

Asc.

20.00 Top of ridge,20 ft.above hollow,bears E.and W.

Desc.

27.00 Bottom of hollow,50 ft.below ridge,course N.70°W

Asc.

30.30 Top of ridge,30 ft.above hollow,bears E.and W.

Desc.

39.70 Bottom of hollow,40 ft.below ridge,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 27 in W half and S 26 in E.half.from which

A pinon pine116 ins.dia.,bears N.40°E.,51 lks. dist..mkd.¼ S 26 B T.

A pinon pine,10 ins.dia.,bears N.35°30'W.,186 lks.dist..mkd.¼ S 27 B T.

Sub.T.33 S.,R.20 E.-Continued .

Chains	
41.50	Top of ridge,30 ft.above hollow,bears N.80°W.and S.80°E.
	Desc.46
46.50	Bottom of hollow,50 ft.below ridge,course N.60°W.
	Asc.
51.00	Top of rdge,40 ft.above hollow,bears E.and W.
	Desc.
54.20	Trail to Mormon Pasture,bears N.20°E.and S.20°W.
55.60	Bottom of hollow,40 ft,below ridge,course N.60°W.
	Asc.
59.00	Top of ridge,30 ft.above hollow,bears E.and W.
	Desc.
67.00	South edge of Stevens canon,bears N.20°E.and S.20°W.
	Desc.abruptly.
74.50	Creek,6 lks.wide,3 ins.deep,in bottom of Stevens canon,
	200 ft.below edge,course N.20°E.
	Asc.
75.20	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.22,23,26,and 27,mkd.on brass cap
	T 33 S S 22 in NW.
	R 20 E S 23 in NE.
	S 26 in SE.;and
	S 27 in SW.quadrants;from which
	A yellow pine,24 ins.dia.,bears N.41°15'E.,128
	lks.dist..mkd.T 33 S R 20 E S 23 B T.
	A yellow pine,26 ins.in dia.,bears S.15°45'E.,
	300 lks.dist..mkd.T 33 S R 20 E S 26 B T.
	No other trees within limits;raise a moundof stone
	2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,clay loam;2 ft to 10 ft.deep.subsoil,clay and gravel
	Timber,yellow pine,cedar and pinon pine.
	Undergrowth,sage and oak brush.
	Good grass for.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	September 11,1911,At this cor.I set off 4°47'N.,on the decl.arc;and at Ml h 57 m a.m.,l.m.t.,Iobserve the sun o on the meridian,the resulting lat.is 37°56'N.,which is the proper lat.nearly.
	East,on a random line bet.secs,23 and 26.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line,5 lks.S.of the cor.of secs.23,24, 25,and 26.
	Thence I run
	S.89°58'W.,on a true line bet.secs.23 and 26.
	Over rolling mountainous land;through dense undergrowth.
	Asc. over ledges. through scattering timber.
3.00	Top of ledge, 125 ft.above cor.,bears N.30°W.and S.
23.50	Leave timber,bears N.and S.
28.90	Top of ridge,210 ft.above hollow,bears N.10°W.and S.10°E
	Desc.
30.25	Begin abrupt descent over ledges,bears N.10°W.and S.10°E
37.00	Foot of ledges,500 ft.below top ,bears N.20°E.and S.10°W
	Continue descent.
40.03	Set an iron post,3 ft.long,1 in in dia.,12 ins.in the ground,on rock,and surrounded by moundoof stone,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 ,12 ins.dia.,bears N.70°30'W.,74 lks. dist..mkd.¼ S 23 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
42.40	Bottom.of hollow,60 ft.below top ,course NW.
	Asc.
44.50	Top of ridge,40 ft.above hollow,bears NW and SE.
	Desc.
48.00	Bottom of hollow,80 ft,below ridge,course NW.
	Asc.
49.50	Top of ridge,40 ft.above hollow,bears N.20°W.and S.20°E.
	Desc.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	Desc.
51.30	Bottom of hollow,25 ft.below ridge,course N.20°W.
	Asc.
57.50	Top of ridge,20 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
62.00	Bottom of hollow,30 ft.below ridge,course N.30°W.
	Asc.
65.50	Top of ridge,20 ft.above hollow,bears N.10°W.and S.10°E.
	Desc.
69.20	Trail to Mormon Pasture ,bears N.10°E.and S.20°W.
	Enter heavy timber,bears same.
74.70	To east edge of Stevens canon,rim rock or ledge,40 ft high,bears N.20°E.and S.20°W.
	Leave heavy timber,bears same.
79.20	Creek,3 lks.wide,3 ins.deep, in bottom of Stevens canon, 200 ft.below edge,course N.20°W.
	Asc.
80.06	The cor.of secs. 22,23,26,and 27.
	Land,mountainous.
	Soil,sandy and clay loam;2nd rate.1 to 5 ft.deep.subsoil clay and sandstone.
	Timber,cedar and pinon pine.
	Undergrowth,sage and oak brush.
	Good grass for grazing.
	Mountainous land or heavily timbered land;~~th~~ land covered with dense undergrowth,80.06 chs.
	September 11.1911.

September 12,1911:At 7 h 57 m a.m.,l.m.t.,I set off 37°56'N.,on the lat.arc;4°29'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs. 22,23,26,and 27.

Thence I run

N.0°1'W.,bet.secs.22 and 23.

Over mountainous land;through dense undergrowth and scattering timber.

Sub.T.33 S.,R.20 E.-Continued;

Chains	
	Desc.
1.50	Creek,6 lks.wide,2 ins.deep,in bottom of Stevensconon, 10 ft.below cor.,course NW.
	Asc.
2.50	Same creek,6 lks.wide,course N.20°E.
	Asc.
12.50	Top of spur,40 ft.above canon,bears E.and W.
	Desc.
13.60	Bottom of hollow,20 ft.below spur,course E.
	Asc.
15.10	Top of spur,30 ft.above hollow,bears E.and W.
	Desc.
17.50	Head of hollow,20 ft.below spur,course E.
	Asc.
19.90	East side of sandstone boulder 20x10x10 ft.high,
27.00	Top of ridge,20 ft.above hollow,bears E.and W.
	Desc.
30.80	Old brush and pole fence,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 22 in W half and S 23 in E half;from which
	A yellow pine,30 ins.dia.,bears N.31°E.,252 lks. dwist..mkd.½ S 23 B T.
	A yellow pine,30 ins.dia.,bears N.88°15'W.,70 lks.dist..mkd.½ S 22 B T.
44.00	Bottom of hollow,100 ft below ¼ sec.cor.,course N.60°E.
	Asc.
47.00	Top of ridge,40 ft.above canon,bears E.and W.
	Desc.
51.80	Bottom of hollow,80 ft.below ridge,course E.
	Asc.
54.00	Top of spur,40 ft.above hollow,bears E.and W.
	Desc.
68.20	Creek,1 lk.wide,1 in deep,in bottom of hollow,300 ft. below ridge,course E.
	Asc.abruptly.

Chains	
79.00	Top of steep ascent or rim of Stevens canon,400 ft.above hollow,bears E.and W.
	Desc.gently.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,12 ins.in the ground,on solid rock,and surrouned by mound of stone, for cor.of secs.14,15,22,and 23,mkd.on btass cap -
	T 33 S S 15 in NW.
	R 20 E S 14 in NE.
	S 23 in SE and
	S 22 in SW.quadrants;from which
	A pinon pine,10 ins.dia.,bears N.32°E.,40 lks. dist..mkd.T 33 S R 20 E S 14 B T..
	A pinon pine,10 ins.dia.,bears S.17°E.40 lks. dist..mkd.T 33 S R 20 E S 23 B T.
	A pinon pine,8 ins.dia.,bears S.49°45'W.,26 lks. dist..mkd.T 33 S R 20 E S 22 B T.
	A pinon pine,10 ins.dia.,bears N.60°45'W.,16 lks. dist.;mkd.T 33 S.,R.20 E. S 15 B T.
	Land,mountainous
	Soil,sandy and clay loam;2 to 4 ft.deep.subsoil,sandy clay and rocky.
	Timber,cedar.,yellow pine,a and pinon pine.
	Undergrowth,sage service berry and oak.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs..
	September 12,1911:At this cor.I set off 4°24'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 37°56'N.,which is the proper lat.nearly.
	— —
	N.89°58'E.,on a random line bet.secs.14 and 23.
40.00	Set temp. ¼ sec.cor.
80.00	Intersect N.and S.line,5 lks.S.of the cor.of secs.13,14,23 and 24. Thence I run
	S.89°56'W.on true line bet.secs.14 and 23,

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	Over mountainous land; through heavy timber and scattering undergrowth.
	Asc.
8.60	Top of ridge,65 ft.above cor.,bears NE and SW.
	Desc.
9.60	Begin abrupt descent ,bears N.30°E.and S.30°W.
	Enter dense undergrowth,bears N.30°E.and S.30°W.
	Leave heavy and enter scattering timber,bears same
17.00	Desc.over ledges,bears N.60°E.and S.60°W.
27.50	Foot of ledges.250 ft.below top ,bears NE and SW.
Enter	heavy timber,bears NE and SW.
35.70	Bottom of hollow,150 ft.below ledges,course N.70°W.
	Asc.abruptly.
38.40	Top of ridge,50 ft.above holow,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 14 in N half qand S 23 in S half;from which
	A pinon pine,10 ins.dia.,nears N.13°30'E.,13 lks.dist..mkd.¼ S 14 B T.
	A pinon pine,6 ins.dia.,brars S.27°47'W.,11 lks. dist..mkd.¼ S 23 B T.
45.00	Bottom of hollow,50 ft.below ridge,course N.30°W and S 30°E.
50.00	Top of ridge,80 ft.above hollow ,bears NW and SE.
	Desc.
52.00	Trail,bears N.and S.(Mormon Pasture)
	Leave heavy and enter scattering timber,.
525.30	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
54.80	Top of ridge,15 ft.above hollow,bears N.and S.
	Desc .
60.00	Desc.over ledges into Stevens canon,bears N.15°E.and S.15° W.
70.70	Creek,10 lks.wide,2 ins.deep,in bottom of Stevens canon, 300 ft.below ledge,course N.10°E.

Chains

Enter heavy timber,bears same.

Asc.

79.50 Top of ledge,25 ft.high,on west rim of Stevens canon, 280 ft.above canon,bears N.20°E.and S.20°W.

Desc.getly.

80.00 The cor.of secs.14,15,22,and 23.

Land,mountainous.

Soil,sandy and clay loam;1 to 4 ft.deep.Subsoil,clay and rocky.

Timber,cedar and pinon pine.

Undergrowth,sage and oak and rose brush.

Good grass for grazing.

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

September 12,1911.

September 13,1911:At 7 h 56 m a.m.,l.m.t.,I set off 37° 57'N.,on the lat.arc.4°06'N.,on the decl.arc;and determ 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 heavy timber and scattering undergrowth.

Desc.getly.

22.00 Head of hollow,80 ft.below cor.,course E.

Asc.

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

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 15 in W half and S 14 in E half;from which

A cedar,20 ins.dia.,bears S.81°30'E.,286 lks. dist.:mkd.¼ S 14 B T.

A pinon pine,5 ins.dia.,bears N.13°15'W.,130

Sub.T.31 S.,R.20 E.-Continued.

Chains	
	dist.;mkd.T 33 S 15 B T.
72.00	Top of ridge;80 ft.above hollow,bears E.and W.
	Enter heavy timber.
	Desc.
75.00	Bottom of hollow,20 ft.below ridge,course E.
	Asc.
75.80	Top of ridge,75 ft.above hollow,bears E.and W.
	Desc.
77.50	Bottom of hollow 20 ft.below ridge,course E.
	Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.10,11,14,and 15,mkd.on brass cap
	T 33 S
	S 10 in NW.
	R 20 E
	S 11 in NE.
	S 14 in SE.;and
	S 15 in SW.quadrants;from which
	A cedar,24 ins.dia.,bears N.45°E.,89 lks. dist..mkd.T 33 S R 20 E S 11 B T.
	A pinon pine,12 ins.dia.,bears S.67°20'E.,23 lks. dist..mkd.T 33 S R 20 E S 14 B T.
	A cedar,14 ins.dia.,bears S.41°30'W.,25 lks. dist..mkd.T 33 S R 20 E S 15 B T.
	A pinon pine,24 ins.dia.,bears N.75°W.,82 lks. dist..mkd.T 33 S R 20 E S 10 B T.
	Land,mountainous
	Soil sandy loam;2 to 4 ft.deep,underlaind with 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.
	September 13,1911:At this cor.I set off 4°01'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 37°57'N.,which is the proper lat.nearly.

Chains	
	N.89-°56'E.,on a fandom line bet.secs.10 and 14.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line,2 lks.N.of the cor.of secs.11,12,1 and 14.
	Thence I run
	S.89°57'W.,on a true line bet.secs.11 and 14.
	Over mountaoja land;through heavy timber and scattering undergrowth.
	Desc.gently.
8.40	Begin abrupt descent,bears N.and S.
9.17	Desc.over ledges,bears NE and S.20°W.
9.60	Foot of ledge,50 ft.high,bears N.E .and S.20°W.
13.00	Foot of ledges,175 ft.below top.bears N.and S.
	Desc.over boulders.
22.00	Foot of steep descent bears N.and S.
	Leave boulders.
33.25	Trail to Mormon Pasture,bears N.20°E.and S.20°W.
35.25	East edge of Stevens canon,bears N.20°E.and S.20°W.
	Desc.over ledges.
36.45	Foot of ledges,bears N.20°E.and S.20°W.
39.98	Set an iron post,3 ft.long,1 in.in dia.,15 ins.in the ground,on solid rock,and surrounded by moundoof stone, for ¼ sec.cor..mkd.on brass cap ¼ S 11 in N half and S 14 inS half,from which
	A pinon pine,10 ins.dia.,bears N.31°30'E.,60 lks.dist..mkd.¼ S 11 B T.
	A pinon pine,8 ins.dia.,bears S.31°W.,58 lks. dist..mkd.¼ S 14 B T.
48.00	Foot of abrupt descent,bears N.10°E.and S.10°W.
50.10	Creek,10 lks.wide,2 ins.deep,in bottom of Stevens canon, 225 ft.below edge,course N.
	Asc.
53.20	Begin abrupt ascent,over ledges bears N.and S.
53.35	Top of ledge,30 ft.high,bears N.and S.
66.50	Asc.over broken ledges,bears N.10°E.and S.10°W.
67.90	Top of ledges,and rim of Stevens canon,300 ft.above canon

Chains	
	bears N.10°E.and S.10°W.
79.96	The cor.of secs.10,11,14,and 15.
	Land,mountainous.
	Soil,sandy and clay loam;2nd rate.2ft.to 4 ft.deep.sandy subsoil.
	Timber,cedar and pinon pine.
	Undergrowth,sage and oak brus.
	Good grass.
	Mountainous or heavily timberedland,or land covered with dense undergrowth,79.96 chs.
	September 13,1911.

	September 15,1911:At 7 h 56 m a.m.,l.m.t.,I set off 37° 57'N.,on thelat.arc;3°20'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 land;through heavy timber and scattering undergrowth.
	Asc.
15.00	Top of ridge,30 ft.above hollow,bears E.and W.
	Desc.
18.90	Bottom of hollow,30 ft.below ridge,course E.
	Asc.
30.00	Leave heavy timber and enter scattering timber and dense undergrowth,bears E.and W.
39.30	Enter heavy timber,bears E.and W.
40.00	Set iron post,3 ft. long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.onbrass cap ¼ S 10 in W half and S 11 in E half;from which
	A pinon pine,12 ins.dia.,bears S.50°30'E.,39 lks. dist.,mkd.¼ S 11 B.T.
	A pinon pine,16 ins.dia.,bears S.30°W.,8 lks.

Chains

dist..mkd.T 33 S 10 B.T.

44.00 Top of ridge,30 ft.above hollow,bears E.and W.

Desc.

51.00 Bottom of hollow ,40 ft.below ridge,course E.

Asc.

55.00 Top of ridge,30 ft.above hollow,bears E.and W.

Desc.

61.10 Edge of Davis canon,bears NW and E.

Desc abruptly.

68.50 Head of hollow,200 ft.below edge,course NE.

Asc.

73.50 Top of ridge,80 ft.above hollow,bears NE and SW.

Desc.

80.00 Point 200 ft.below ridge,.

Set an iron post,3 ft.long,2 ins.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone,for cor.of secs.2,3,10,and 11,mkd.on brass cap

T 33 S S 3 in NW.

R 20 E S 2 in NE.

S 11 in SE.;and

S 10 in SW.quadrants;from which

A cedar,10 ins.dia.,bears N.42°45'E.,44 lks.

dist..mkd.T 33 S R 20 E S 2 B T.

A pinon pine,5 ins.dia.,brars S.64°40'E.,44 lks.

dist..mkd.T 33 S R 20 E S 11 B T.

A cedar,24 ins.dia..,bears S.21°W.,51 lks.

dist..mkd.T 33 S R 20 E S 10 B T.

A pinon pine,12 ins.dia.,bears N.73°45'W.,31 lks.

dist..mkd.T 33 S R 20 E S 3 B T.

Land,mountainous.

Soil,sandy and clay loam;2nd rate.

Timber,cedar and pinon pine.

Under routh,sage and oak brush.

Good grass for graing.

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

Chains	
	N.89°57'E.,on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
79.90	Intersect N.and S.line,2 lks.N.of the cor.of secs.1,2,11,and 12.
	Thence I.run
	S.89°58'W.,on a true line bet.secs.11 . and 2.
	Over mountainous land;through heavy timber and dense undergrowth.
	Desc.
9.95	Begin abrupt descent,over ledges,bears N.30°E.and S.30°W
10.50	Foot of ledges,30 ft.below top , bears N.30°E.and S.30°W
12.85	Bottom of hollow,70 ft.below ledge,course N.15°W.
	Asc.
14.15	Top of ridge,15 ftlabove hollow,bears N.10°W.and S.10°E.
	Desc.
22.75	Ledge,15 ft.high,bears N.15°E.and S.15°W.
26.15	Leave heavy timber,bears NE and SW.
26.75	Trail to Mormon Pasture,bears NE and SW.
29.85	Creek,8 lks.wide,3 ins.deep,in bottom of Stevens canon, 300 ft.below cor.,course N.40°E.
	Wash,60 lks.wide,4 ft.deep,in bottom.
	Asc.over ledges.
32.35	Top. of ledges,60 ft.above canon,bears NE and SW.
33.65	Top of ridge,80 ft.above canon,bears N.and S.
	Desc.
35.65	Desc.over ledges,bears N.40°W.and S.40°E.
37.00	Foot of ledges,50 ft.below top ,bears NW.and SE.
39.05	Bottom of Davis canon,65 ft.below ridge,course S.50°E.
	Asc.gently.
39.95	Set an iron post,3 ft.long,1 in.in dia.,18 ins.in the ground,on solid rock,and surrouned by mound of stone, for ¼ sec.cor..mkd.onbrass cap ¼ S 2 in N half and S 11 in S half;from which
	A pinon pine,8 ins.dia.,bears N.34°W.,22 lks. dist..mkd.¼ S 2 B T.

Chains

A pinon pine,6 ins.dia.,bears S.43°30'W.,[illegible] dist..mkd.¼ S 11 B T.

40.35 Bottom of Davis canon,course N.30°E.

Asc.

44.15 Top of ledge,or ridge,4 0 ft.above canon,bears N.and S.

Desc.over ledges.

44.90 Foot of ledge,12 ft.high,bears N.40°W.and S.40°E.

48.45 Bottom of Davis canon,35 ft.below ridge,course S.50°E.

Asc.

49.05 Trail,bears NW and SE.

51.85 Spur,30 ft.above canon,bears N.and S.

Desc.

55.00 Bottom of Davis canon,20 ft.below spur,course [redacted]

Asc.

55.50 Trail,bears N.35°E.and S.35°W.

56.00 Top of spur,12 ft.above hollow,bears N.and S.

Desc.

57.60 Bottom of Daivs canon,10 ft.below spur,course S.60°E.

Asc.

66.85 Top of ridge,40 ft.above canon,bears N.and S.

Desc.

67.30 Bottom of hollow,10 ft.below ridge,course N.15°E.

Asc.

78.05 Top of ridge,90 ft.above hollow,bears N.20°E.and S.20°W.

Desc.

79.35 Bottom of hollow,35 ft.below ridge,course N.10°E.

Asc.

79.90 The cor.of secs.2,3,10,and 11.

Land,mountainous very broken.

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

Timber,cedar and pinon pine.and yellow pine.

Undergrowth,sage and buck,and service berry.

Good grass .

Mountainous or heavily timbered land,or land covered with dense undergrowth,79.90 chs.

September 15,1911:At this cor.I set off S.15°E.,on the

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	decl.arc;and at 11 h 56 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°58'N.,which is the proper lat.nearly.
	N.0°01'W.,on a random line bet.secs.2 and 3.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.bdy.of Tp.,16 lks.W.of the cor.of secs.2,3, 34,and 35, heretofore described.
	Thence I run
	S.0°06'W.,bn a true linebet.secs.2 and 3.
	Over mountainous land;through heavy timber.
	Desc., through scattering undergrowth.
1.50	Trail,bears E.and W.
4.80	Trail,bears NW and SE.
9.40	Edge of Davis canon,bears E.and W.
	Desc.abruptly.
14.90	Head of hollow,200 ft.below ridge,course S.20°W.
	Asc.
22.10	Top of ridge,20 ft.above hollow,bears N.60°E.and S.60°W.
	Desc.
23.25	Bottom of hollow,25 ft.below ridge,course S.70°W.
	Asc.
25.90	Top of ridge,10 ft.above hollow,bears N.70°E.and S.70° W.
	Desc.
28.30	Bottom of hollow,20 ft.below ridge,course SW.
	Asc.
31.40	Top of ridge,30 ft.above hollow,bears N.70°E.and S.70°W.
	Desc.
40.0 2	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼S 3 in W half and S 2 in E half;from which
	A cedar,31 ins.dia.,bears S.81 °30'E.,35 lks. dist..mkd.¼ S 2 B T.
	A pinon pine,10 ins.dia.,bears S.78°30'W.,16 l lks.dist..mkd.¼ S 3 B T.
46.00	Bottom of hollow,100 ft.below ridge course SW.
	Asc.

Chains	
	Right, said.
50.00	Top of ridge,30 ft.above hollow,bears N.60°E.and S.60°W.
	Desc.
54.40	Begin abrupt descent over ledges,bears NW and S.80°E.
60.20	Bottom of hollow,100 ft.below edge,course SW.
	Asc.
62.20	Top of ridge,30 ft.above hollow,bears N.70°E.and S.70°W.
	Trail,bears NE and SW.
	Desc.
73.60	Trail,bears E.and W.
74.00	Bottom of Davis canon,200 ft.below ridge,course E.
	Asc.
80.02	The cor.of secs.2,3,10,and 11. 130 ft.above canon.
	Land,mountainous.
	Soil,sandy and clay loam;and rate and rocky.3rd rate.
	Subsoil,rock and clay.
	Timber,cedar and pinon pine,a few scattering yellow pine.
	Undergrowth,oak service berry and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.02 chs.

September 15,1911.

Scott P. Stewart

U.S.Transitman.

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September 13,1911.:At 7 h 56 m a.m.,l.m.t.,I set off 37°54' N.,on the lat.arc;4°06'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°03'W.,bet.secs.33 and 34.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
2.60	Top of ridge,50 ft.above cor.,bears N.35°E.and S.15 °W.
	Desc.
	Leave heavy and enter scattering timber,bears N.35°E.
	and S.35°W. Enter dense undergrowth bears N.35°E.& S.35°W.
15.00	Bottom of hollow,500 ft.below ridge,course N.40°W.
	Asc.
16.70	Top of spur,20 ft.above hollow,bears NW and SE.
	Desc.
31.70	Bottom of hollow,800 ft.below spur,course N.40°W.
	Asc.
34.00	Top of ridge,40 ft.above hollow,bears N.40°W.and S.40°E.
	Trail on ridge ,bears same.
	Desc.
38.80	Bottom of hollow,40 ft.below ridge,course N.40°W.
	Asc.
40.00	Set an iron post,3 ft.long,1 ins.in dia.,26 ins.in the
	ground,for ¼ sec.cor..Mkd.onbrass cap ¼ S 33 in W half
	and S 34 in E half;from which
	A yellow pine,36 ins.dia.,bears N.86°,10'W.,380
	lks.dist..mkd.¼ S 33 B T.
	No other trees within limits;raise a mound of stone,
	w2 ft.base,1½ ft.high,W.of cor.
41.50	Top of ridge,80 ft.above hollow,bears NW and SE.
	Desc.
43.90	Bottom of hollow,20 ft.below ridge,course NW.
	Asc.
49.00	Trail,bears N.40°E.and S.40°W.
51.00	Top of ridge,50 ft.above hollow,bears N.70°E.and S.70°W.
	Desc.
55.00	Desc.abruptly bears NE and SW..
58.50	Creek,6 lks.wide,2 ins.deep,in bottom of Stevens canon,
	60 ft.below ridge,course NE
	Asc abruptly.
59.00	Top of ridge,40 ft.above canon,bears NE and SW.
	Desc.
60.40	Desc.abruptly.over ledges.,bears NE and SW.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
61.90	Bottom.of canon,50 ft.below ridge,course N.20° E.
	Asc.
67.50	Top of ledge,40 ft.above canon,bears NE and SW.
70.10	Begin abrupt ascent,bears NE and SW.
71.60	Top.of abrupt ascent,bears NE and SW.
74.00	Leave timber,bears NE and SW.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.27,28,33,and 34,mkd.on brass cap
	T 33 S S 28 in NW.
	R 20 E S 27 in NE.
	S 34 in SE.;and
	S 33 in SW.quadrants;dig pits,18x18x12 ins.,in ea
	each sec.5½ ft.dist.;and raise a mound of earth,4 ft. base,2 ft.high,W.of cor.
	Land,mountainous.
	Soil,sandy and clay loam;2nd rate.subsoil,clay and rocky.
	Timber,cedar and pinon pine.
	Undergrowth,sage and service berry,wild rose and buck brus
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	September 13,1911At this cor.I set off 4°01'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 37°55'N.,which is the proper lat.nearly.

N.89°57'E.,on a random line bet.secs.27 and 34.

40.00 Set temp.¼ sec.cor.

79.88 Intersect N.and S.line,7 lks.N.of the cor.of secs.26,27, 34,and 35.

Thence W run

West,on a true line bet.secs.27 and 34.

Over rolling mountainous land ,through dense undergrowth.

Desc.

10.50 Trail bears N.and S.

13.00 Creek,5 lks.wide,3 ins.deep,in bottom of canon,from

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	Mormon Pasture,course N.10°W. 100 ft.below sec.cor.
	Asc.
22.70	Wash,7 lks.wide,6 ft.deep,course N.70 °E.
33.00	Enter heavy timber,bears N.and S.
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 + S 27 in N half and S 34 in S half;from which
	A pinon pine,8 ins.dia.,bears N.7°50'E.,52 lks. dist..mkd.+ S 27 B T.
	A cedar,6 ins.dia.,bears S.12°E.,92 lks. dist..mkd.+ S 34 B T.
54.50	Top of ridge,90 ft. above ¼ sec.cor.,bears N.40°E.and S.60° W.
	Leave heavy and enter scattering timber,bears same.
	Desc.
63.00	Bottom of hollow,50 ft.below ridge,course N.10°E.
	Asc.
65.50	Top of spur,50 ft.above hollow,bears NE and SW.
	Desc.
68.70	Begin abrupt descent,bears NE and SW.
70.00	Bottom of creek,10 lks.wide,2 ins.deep,in Stevens canon 100 ft.below ridge,course N.30°E.
	Asc.
72.00	Top of abrupt ascent,100 ft.above cañon,bears N.30°E. and S 30°W.
	Leave timber,bears same.
74.70	Trail,bears NE and SW.and North.
79.88	The cor.of secs.27,28,33,and 34.
	Land,mountainous .
	Soil,clay loam and sandy .subsoil,clay and rock.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.88 chs.

September 13,1911.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	September 15,1911.At 7 h 56 m a.m.,l.m.t.,I set off 37°55' N.,on the lat.arc;3°20'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 dense undergrowth.
	Asc.
5.50	Top of ridge,10 ft.above cor.,bears E.and W.
	Desc.
8.80	Trail bears N.10°E.and S.10°W.
17.10	Bottom of hollow,50 ft.below ridge,course N.80°E.
	Asc.
18.00	Enter heavy timber,bears N.80°E.and S.80°W.
23.50	Top of steep ascent,bears N.80°E.and S.80°W.
35.00	Leave timber and enter dense undergrowth,
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.o n brass cap ¼ S 28 in W half and S 27 in E half;from which
	A pinon pine,6 ins.dia.,bears S.49°18'E.,106 lks. dist..mkd.¼ S 27 B T.
	A pinon pine,6 ins.dia.,brars N.54°58'W.,65 lks. dist..mkd.¼ S 28 B T.
42.00	Enter heavy timber,bears N.80°W.and S.80°E.
47.00	Top of ridge,60 ft.above ¼ sec.cor.,bears N.50°W.and S. 50°E.
	Desc.
52.00	Bottom of hollow,70 ft.below ridge,course N.80°E.
	Asc.
54.00	North edge of hollow,bears N.80°E.and S.80°W.
65.00	Top of ridge,40 ft.above hollow,bears NW.and SE.
	Desc.
66.00	Bottom of hollow,10 ft.below ridge,course E.
	Asc.
74.50	Top of ridge,50 ft.above hollow,bears N.60°W.and S.60°E.
	Desc.

Sub.T,33 S.,R.20 E.-Continued.

Chians	
76.30	Begin abrupt descent,bears NW and SE.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.21,22,27,and 28,mkd.on brass cap T 33 S S 21 in NW. R 20 E S 22 in NE. S 27 in SE.;and S 28 in SW.quadrants;from which A pinon pine,14 ins.dia.,bears N.67°49'E.,10 lks. dist..mkd.T 33 S R 20 E S 22 B T. A pinon pine,8 ins.dia.,bears S.38° E.,58 lks. dist..mkd.T 33 S R 20 E S 27 B T. A pinon pine,8 ins.dia.,bears S.53°30'W.,69 lks. dist..mkd.T 33 S R 20 E S 28 B T. A pinon pine,12 ins.dia.,bears N.74°10'W.,47 lks. dist..mkd.T 33 S R 20 E S 21 B T.
	Land,mountainous.
	Soil,sandy and clay loam.2nd rate.2 ft.deep.
	Timber,cedar and pinon pine.
	Undergrowth,sage and oak brush.
	Good grass.
	Mountainous or heavily timbered land,or land dovered with dense undergrowth,80.00 chs.
	September 15,1911:At this cor I set off 3°15'E.,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 37°56'N.,which is the proper lat.nearly.

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

40.00 Set temp.¼ sec.cor.

79.90 Intersect N.and S.line,5 lks.S.of the cor.of secs.22,23, 26,and 27.

Thence I run

S.89°58'E.,on a true line bet.secs.22 and 27.

Over mountainous land;through heavy timber and dense undergrowth.

Asc.

Chains

Asc.

5.30 Begin steeper ascent over ledges, bears N.20°E. and S.20°W.

6.80 Top of ledges 175 ft. above cor., bears N.20°E. and S.20°W.

Asc. gently.

11.00 Leave heavy and enter scattering timber, bears N.30°E. and S.30°W.

18.80 Trail, bears N.20°E. and S.20°W.

Enter heavy timber, bears same.

33.00 Begin steeper ascent, bears N. and S.

35.50 Top of ridge, 25 ft. above foot, bears NW. and SE.

Desc.

37.00 Bottom of hollow, 20 ft. below ridge, course S.60°E.

Asc.

37.50 Top of ridge, 30 ft. above hollow, bears NW. and SE.

38.00 ~~28.00~~ Bottom of hollow, 10 ft. below ridge, course SE.

Asc.

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

A pinon pine, 10 ins. dia., bears N.22°30'E., 23 lks dist.. mkd. ¼ S 22 B T.

A pinon pine, 6 ins. dia., bears S.20°10'E., 24 lks. dist.. mkd. ¼ S 27 B T.

49.70 Top of ridge, 90 ft. above hollow, bears N.10°E. and S.10°W.

Desc.

51.00 Bottom of hollow, 50 ft. below ridge, course S.20°E.

Asc.

53.50 Top of ridge, 10 ft. above hollow, bears N. and S.

Desc.

57.60 Bottom of hollow, 120 ft. below ridge, course S.40°E.

Asc.

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

Desc.

63.60 Bottom of hollow, 60 ft. below ridge, course S.20°W.

Asc.

70.50 Top of ridge, 125 ft. above hollow, bears N.40°W. and S.40°E.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	Desc.
71.50	Bottom of hollow,10 ft.below ridge,course S.20°E.
	Asc.
78.00	Top of abrupt ascent,75 ft.above hollow,bears N.40°W.and S. 40°E.
79.90	The cor.of secs.21,22,27,and 28.
	Land,mountainous.
	Soil,sandy and clay loam;2nd rate.from ½ to 2 ft.deep.
	Subsoil,rocky.
	Timber,cedar and pinon pine.
	Undergrowth,sage,oak,and service berry.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.90 chs.

September 15,1911.

September 16,1911At 7 h 55 m a.m.,lm.t.,I set off 37°56'N. on the lat.arc;2°57'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.21,22,27,and 28.

Thence I run

N.0°02'W.,bet.secs.21 and 22.

Over mountainous land;through heavy timber and scattering undergrowth,asc.

7.00	Head of hollow,150 ft.below cor.,course SE.
	Asc.
8.50	Begin steeper ,ascent,bears N.40°E.and S.40°W.
11.25	Top of ridge,80 ft. above hollow,bears E.and W.
	Desc.
11.30	Leave heavy and enter scattering timber,bears E.and W.
	Enter dense undergrowth.
17.85	Bottom of hollow,200 ft.below ridge,course N.60°E.
	Asc.gently.
22.25	Top of ridge,25 ft.above hollow,bears N.60°E.and S.60°W.
	Desc.
34.00	

Chains	
34.00	Bottom of hollow,100 ft.below ridge,course NE.
	Leave dense undergrowth and enter heavy timber,bears NE and SW.
	Desc.
35.40	Top of ridge,60 ft.above hollow,bears N.80°E.and S.80°W.
	Desc.
37.40	Bottom of canon,75 ft.below ridge,course N.60°E.
	Asc.
39.80	Top of ridge,90 ft.above canon,bears N.70°E.and S.70°W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 21 in W half and S 22 in E half;from which
	A pinon pine,6 ins.dia.,bears N.71°30'E.,34 lks. dist..mkd.¼ S 22 B T.
	A pinon pine,8 ins.dia.,bears N.72°35'W.,61 lks. dist..mkd.¼ S 21 B T.
40.40	Bottom of hollow,20 ft.below ridge,course N.70°E.
	Asc.
45.00	Top of ridge,80 ft.above hollow,bears E.and W.
	Desc.
47.00	Bottom of hollow,20 ft.below ridge,course N.70°E.
	Asc.
49.00	Top of ridge,20 ft.above hollow,bears E.and W.
	Desc.
53.10	Bottom of hollow,40 ft.below ridge,course N.70°E.
	Asc.
57.50	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
63.90	Bottom of hollow,80 ft.below ridge,course NE.
	Asc.
75.00	Bottom of hollow,30 ft.below ridge,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.15,16,21,and 22,mkd.on brass cap

Sub.T.33 S.,R.20 E.-Continued.

Chains

T 33 S R 16 in NW.

R 20 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.29°10'E.,72 lks. dist..mkd.T 33 S R 20 E S 15 B T.

A pinon pine,7 ins.dia.,bears S.34°50'E.,12 lks. dist..mkd.T 33 S R 20 E S 22 B T.

A pino pine,10 ins.dia.,bears S.24°20'W.,64 lks. dist..mkd.T 33 S R 20 E S 21 B T.

A pinon pine,6 ins.dia.,bears N.52°52'W.,56 lks. dist..mkd.T 33 S R 20 E S 16 B T.

Land,mountainous.

Soil,sandy loam;2nd rate. 2 ft.deep.on rock.

Timber,cedar and pinon pine.

Undergrowth,sage service berry,oak,and buck brush.

Good grass.

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

September 16,1911:At this cor.I set off 2°52'N.,on the decl.arc;and at 11 h 55 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°57'N.,which is the proper lat.nearly.

N.89°58'E.,on a random line bet.secs.15 and 22.

40.00 Set temp. sec.cor.

79.86 Intersect N.and S.line,2 lks.N.of the 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 mountainous land;through heavy timber and scattering undergrowth.

Asc.

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

Desc.

19.00 Leave heavy timber and enter scattering timber and dense

Chains	
	undergrowth,bears N.and S.
30.00	Bottom of hollow,60 ft.below ridge,course S.
	Enter heavy timber,bears N.and S.
	Asc.
33.00	Wash,30 lks.wide,6 ft deep,course S.60°E.
35.60	Trail,bears NW and SE.
36.50	Begin steeper ascent,bears N.60°W.and S.60°E.
38.00	Top of steep ascent,bears N.60°W.and S.60°E.
39.93	Set an iron post,3 ft.long,1 in.in dia.,18 ins.in the ground Sarnolid rock,and surrounded by mound of stone,for ¼ sec. cor..mkd.on brass cap ÷ S 15 in N half and S 22 in S half; from which
	A pinon pine,6 ins.dia.,bears N.21°19'W.,37 lks. dist..mkd.¼ S 15 B T.
	A pinon pine,8 ins.dia.,bears S.30°E.,23 lks. dist..mkd.¼ S 22 B T.
41.10	Trail,bears N.and S.
46.00	Top of ridge,50 ft.above ¼ sec.cor.,bears N.10°W.and S. 10°E.
	Desc.
49.40	Bottom of hollow,40 ft.below ridge,course S.30°E.
	Asc.
52.10	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
54.00	Bottom of hollow,10 ft.below ridge,course S.10°E.
	Asc.
59.16	Top of ridge 70 ft.above hollow,bears N.40°W.and S.40°E.
	Desc.
61.40	Bottom of hollow,15 ft.below ridge,course SE.
	Asc.
63.60	Top ofabrupt ascent,60 ft.above hollow,bears NW and SE.
	Desc.
74.35	Top of ridge,80 ft.above hollow,bears NE and SW.
	Desc.
77.90	Bottom of hollow,130 ft.below ridge,course S.
	Asc.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
79.86	The cor.of secs.15,16,21,and 22.
	Land,mountainous .
	Soil,clay loam;2nd rate 2 ft.deep.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,79.86 chs.

September 16,1911.

September 18,1911:At 7 h 54'm a.m.,l.m.t.,I set off 37° 56'N.,on the Lat.arc;2°11'E.,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 undergrowth.

	Asc.
5.90	Top of ridge,70 ft.above sec.cor.,bears N.80°W.and S.80°E.
	Desc.
14.30	Ravine 60 ft.deep,course E.
	Asc.
19.15	Top of spur,60 ft.above ravine bears NE and SW.
	Desc.abruptly.
21.00	Bottom of hollow,10 ft.below ridge,course E.
	Asc.
26.75	Top of spur,75 ft.above bears N.30°E.and S.30°W.
	Desc.
28.00	Small ravine 35 ft.below ridge,course S.70°E.
	Asc.
30.15	Foot of ledges,50 ft.above ravine,bears N.40°W.and S.40° E.
30.35	Top of ledges,30 ftlhigh,bears N.40°W.and S.40°E.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	Desc.
31.20	Top of divide ridge between Davis and Stevens canons, 150 ft.above ravine,bears N.20°E.and S.20°W.
	Desc. Leave heavy and enter scattering timber,bears same.
	Asc.along west side of ridge.
33.40	Begin steeper ascent,bears N.10°E.and S.10°W.
36.65	The ¼ sec.cor.will falls on sloping ledges therefore at this point I
	Set an iron post,3 ft.long,1 in.in dia.,16 ins.in the ground,on solid rock,and surrouned by mound of stone, for witness cor.to ¼ sec.cor..mkd.on brass cap T 33 S P 20 E in N half.W C ¼ S 16 in W half;and S 15 in E half; from which
	A pinon pine,6 ins.dia.,bears N.54°25'E.,22 lks. dist.,mkd.W C ¼ S 15 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,2 ft.high,W.of cor.
40.00	Point for cor.falls on ledges and point ins inaccessable.
50.50	Top of spur,100 ft.above ridge,bears N.30°W.and S.30°E.
	Desc.
54.00	Head of hollow,70 ft.below ridge,course NW.
	Asc.
58.43	Top of ridge,65 ft.above hollow,bears E.and W.
	Desc.
59.80	Desc.over ledges,bears NE and SW.
61.50	Bottom of hollow,70 ft.below ridge,course W.
	Asc.
62.40	Top of ledges and ridge,200 ft.above hollow,bears N.85°E. and S.85°W.
63.00	Foot of ledges,bears N.20°E.and S.20°W.
71.00	Head of hollow,70 ft.below ridge,course W.
	Asc.
74.30	Top of ridge,20ft.above hollow,bears E.and W.
	Desc.
80.00	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,

Chains

for cor.of secs.9,10,15,and 16,mkd.on brass cap

T 33 S R 20 E S 9 in NW.

R 20 E S 10 in NE.

S 15 in SE.; and

S 16 in SW.quadrants;from which

A cedar,6 ins.dia.,bears N.61°E.,27 lks.

dist..mkd.T 33 S R 20 E S 10 B T.

A pinon pine,6 ins.dia.,bears S.50°E.,56 lks.

dist..mkd.T 33 S R 20 E S 15 B T.

A pinon pine,6 ins.dia.,bears S.55°W.,55 lks.

dist..mkd.T 33 S R 20 E S 16 B T.

A pinon pine,6 ins.dia.,bears N.41°35'W.,8 lks.

dist..mkd.T 33 S R 20 E S 9 B T.

Land,mountainous very rough.

Soil,sandy adn clay loam and rocky;subsoil rocky and solid 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.

September 18,1911.At this cor.I set off 2°06'N.,on the decl.arc;and at 11 h 54 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°57'N.,which is the proper lat.nearly.

N.89°59'E.,on a random line bet.secs.10 and 15.

40.00 Set temp.¼ sec.cor.

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

Thence I run

S.89°57'W.,on a true line bet.secs.10 and 15.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.gently.

Chains	
6.10	Wash,20 lks.wide,1 ft.deep,in head of hollow,course S.70°E.
	Asc.
Leae	leave heavy and enter scattering timber.
11.30	Trail,bears N.and S.
22.50	Enter heavy timber,bears N.30°E.and S.30°W.
24.50	Enter patch of oak brush8 ft.high,50 lks.through.
33.00	Top of ridge,125 ft.above cor.,bears NW.and SE.
	Desc. Enter scattering timber.
33.60	Bottom of hollow,30 ft.below ridge,course S.30°E.
	Asc.
39.00	Top of ridge,80 ft.above hollow,bears N.60°W.and S.60°E.
	Desc.
39.96	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ½ sec.cor.:mkd.on brass cap ½ S 10 in N half and S 15 in S half;from which
	A pinon pine,12 ins.dia.,bears N.20°39'E.,34 lks. dist..mkd.½ S 10 B T.
	A cedar,10 ins.dia.,bears S.58°50'E.,42 lks. dist..mkd.¼ S 15 B T.
44.50	Top of ridge,40 ft.above ½ sec.cor.,bears N.and S.
	Desc.
47.80	Begin steeper descent,bears N.30°W.and S.30°E.
54.00	Bottom of hollow,80 ft.below ridge,course S.50°E.
	Enter heavy timber and boulders,bears same.
	Asc.
63.50	Asc.over ledges,bears N.10°E.and S.10°W.
65.00	Top of ridge, and ledges,200 ft.above hollow,bears N.15°E.
	abd S.15°W:
	Desc over ledges.
68.60	Foot of ledges,300 ft.below top.,bears N.20°E.and S.20°W.
72.25	Bottom of hollow,375 ft.below ridge,course NW.
	Asc.
74.00	Top of ridge,20 ft.above hollow,bears N.40°W.and S.40°E.
	Desc.
76.70	Bottom of hollow,60 ft.below ridge,course N.30°W.
	Asc.

Sub.T.33 S.,R.20 E.-Continued..

Chains	
77.50	Top of ridge,40 ft.above hollow,bears NW.and SE.
	Desc.
79.92	The cor.of secs.9,10,15,and 16.
	Land,mountainous .
	Soil,sandy and rocky;and clay;2nd and 4th rate.subsoil, rocky.
	Timber,cedar and pinon pine.
	Undergrowth,sage and oak brush.
	Good grass .
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.92 chs.

September 18,1911.

September 19,1911:At 7 h 54 m a.m.,l.m.t.,I set off 37°57' N.,on the lat.arc;1°47'E.,on the decl.arc;and determine a meridiean 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 mountain us land;through heavy timber and scattering undergrowth.

	Desc.
6.05	Bottom of hollow,90 ft.below cor,course N.50°W.
	Asc.
7.75	Top of ridge,80 ft.above hollow,bears NW.and SE.
	Desc.
9.65	Bottom of hollow,60 ft.below ridge,course N.40°W.
	Asc.
17.00	Top of ridge,45 ft.above hollow,bears N.70°E.and S.70°W.
	Desc.
18.30	Bottom of hollow,55 ft.below ridge,course W.
	Asc.
34.00	Top of ridge,70 ft.above hollow,bears E.and W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrouned by mound of stone,

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	for ¼ sec.cor..mkd.on brass cap ½ S 9 in W half;and S 10 in E half;from which
	A pinon pine,5 ins.dia.,bears S.40°30'E.,43 lks. dist..mkd.½ S 10 B T.
	A pinon pine,6 ins.dia.,bears S.79°30'W.,22 dist..mkd.½ S 9 B T.
41.20	Bottom of hollow,50 ft.below ridge,course N.60°W.
	Asc.
43.00	Top of ridge,50 ft.above hollow,bears N.80°E.and S.80°W.
	Desc.
45.80	Desc.over ledges,bears N.30°E.and S.30°W.
46 20	Foot of ledges,bears N.30°E.and S.30°W.
53.30	Desc.overledge, bears N.50°E.and S.50°W.
54.50	Foot of ledge,100 ft.below top;bears N.50°E.and S.50°W.
55.50	Small ravine 40 ft.deep,course N.30°W.
	Asc.
57.00	Top of spur,50 ft.high,bears NW and SE.
	Desc.
60.00	Bottom of Davis canon,80 ft.below spur;course N.35°E.
	Asc.
61.35	Trail,bears NE and SW.
63.70	Asc.over ledges,bears N.E.and SW.
65.70	Top of ridge,60 ft.above hanon,bears N.60°E.and S.60°W.
	Desc.
66.20	Bottom of hollow,15 ft.below ridge,course N.70°E.
	Asc.
75.50	Top of spur,100 ft.above hollow,bears E.and W.
	Desc.
77.00	Head of hollow,50 ft.below ridge,course S.80°E.
80.00	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 cor.of secs.3,4,9,and 10 ,mkd,on brass cap
	T 33 S S 4 in NW.
	R 20 E S 3 in NE.
	S 10 in SE.;and
	S 9 in SW.quadrants;from which
	A

Sub.T.33 S.,R.20 E.-Continued.

Chains

A pinon pine,8 ins.dia.,bears N.49°45'E.,46 lks.dist..mkd.T 33 S R 20 E S 8 B T.

A pinon pine,6 ins.dia.,bears S.15°E.,83 lks. dist..mkd.T 33 S R 20 E S 10 B T.

A pinon pine,3 ins.dia.,bears S.11°45'W.,24 lks. dist..mkd.T 33 S R 20 E S 9 B T.

A cedar,12 ins.dia.,bears N.49°30'W.,24 lks. dist..mkd.T 33 S R 20 E S 4 B T.

Note:A white or gray sandstone 25x8x6 ft.bears SW 7 lks. dist.to face.

Land,mountainous. very rough

Soil,sandy adn clay and rocky;subsoil,rocky.

Timber,cedar and pinon pine.

Undergrowth,sage and service berry,and buck brush.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

September 19,1911At the noon hour the sky,is overcast and solar observations are impossible.

N.89°57'E.,on a random line bet.secs.3 and 10 .

40.00 Set temp.¼ sec.cor.

80.04 Intersect N.and S.line,16 lks.N.of the cor.of secs.2,3, 10,and 11.

Thence I run

N.89°56'W.,on a true line bet.secs.3 and 10.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.

18.40 Top of ridge,250 ft.above cor.,bears N.20°E.and S.20°W.

Desc.

19.80 Bottom of hollow,20 ft.below ridge,course N.

Asc.

38.00 Top of main ridge,450 ft.above cor.,bears N.and S.

Desc.

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

Chains

and S 10 in S half; from which [illegible]

A pinon pine, 6 ins.dia., bears N.30°E., 22 lks. dist..mkd.¼ S 3 B T.

A pinon pine, 10 ins.dia., bears S.34°W., 69 lks. dist..mkd.¼ S 10 B T.

59.50 Bottom of hollow, 200 ft.below ridge, course NW.

Asc.

62.40 Top of ridge, 15 ft.above hollow, bears N.35°W.and S.35°E.

Desc.

65.80 Bottom of Da vis canon, 50 ft.below ridge, course N.20°E.

Wash 30 lks.wide, 2 ft.deep.in bottomm.

Asc.abruptly.

72;00 Top of abrupt ascent, bears N.and S.

80.04 The cor.of secs.3,4,9,and 10.

Land, mountainous .

Soil, sandy, clay and rocky.subsoil, rocky.

Timber, cedar and pinon pine.

Undergrowth, sage, service berry, and buck brush.

Good grass for grazing.

Mountainoud or heavily timbered land, 80.04 chs.

September 19,1911.

September 20,1911: At 7 h 54 m a.m., l.m.t., I set off 37°58 N., on the lat.arc; 1°24'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.

79.90 Intersect N.bdy.of Tp., 14 lks.W.of the cor.of secs.3,4, 33,and 34, heretofore described.

Thence I run

S.0°04'W., on a true line bet.secs.3 and 4.

Over mountainous land; through heavy timber.

Asc.

Sub. T. 33 S., R. 20 E. - Continued.

Chains	
13.10	Top of abrupt ascent and edge of mesa, 400 ft. above cor. bears N.70°E. and S.70°W.
22.40	Trail, bears NE. and SW.
39.90	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of stone, for ¼ sec. cor., mkd. on brass cap ¼ S 4 in W. half and S 3 in E. half; from which A pinon pine, 6 ins. dia., bears N.48°38'E., 14 lks. dist., mkd. ¼ S 3 B T A cedar, 14 ins. dia., bears S.41°W., 7 lks. dist., mkd. ¼ S 4 B T
44.00	South edge of mesa, bears N.70°E. and S.70°W.
	September 20, 1911: At this point I set off 1°20'N. on the decl. arc; and at 11h 54m a.m.l.m.t., I observe the sun on the meridian, the resulting lat. is 37°58'N. which is the proper lat. nearly.
	Desc. abruptly over ledges.
45.00	Foot of ledge 75 ft. high, bears E. and W.
64.60	Bottom of canon, in solid rock, 500 ft. below mesa, course N.80°E.
	Asc.
64.90	Asc. over ledge, 40 ft. high, bears N.80°W. and S.80°E.
66.30	Top of ledge, bears N.80°W. and S.80°E.
75.20	Top of ridge, 200 ft. above hollow, bears N.80°E. and S.80° W. Desc.
79.90	The cor. of secs. 3, 4, 9 and 10.
	Land, mountainous.
	Soil, sandy and rocky; 2nd and 4th rate. Subsoil, rocky.
	Timber, cedar and pinon pine.
	Good grass.
	Mountainous or heavily timbered land, 79.90 chs.

September 20, 1911.

Eric H. Anderson

U. S. Transitman.

Chains	
	September 16, 1911: At 7h 55m a.m.l.m.t., I set off 37° 54'N. on the lat. arc; 2°57'N. on the decl. arc; and determine a meridian with the solar, at the cor. of sec 4, 5, 32 and 33, on S. bdy. of Tp., heretofore describe
	Thence I run
	N.0°03'W. bet. secs. 32 and 33.
	Over mountainous land; through scattering timber and dense undergrowth.
	Desc. gently.
3.00	Head of hollow, 20 ft. below cor., course SE.
	Asc.
5.30	Trail, bears NW. and SE.
	Begin abrupt ascent, bears NW. and SE.
14.80	Leave scattering yellow pine and enter heavy pinon pine and cedar, bears E. and W.
39.50	Top of sand ledge, 20 ft. high bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on rock, and surrounded by mound of stone, for ¼ sec. cor., mkd. on brass cap ¼ S 32 in W. half, and S. 33 in E. half from which
	A pinon pine, 14 ins. dia., bears N.86°15'E., 13 lks. dist., mkd. ¼ S 33 B T
	A pinon pine, 16 ins. dia., bears S.81°15'W., 48 lks. dist., mkd. ¼ S 32 B T
44.90	Top of ridge, 700 ft. above sec. cor., bears N.80°E. and S.80°W. Desc.
44.00	From this point the center of a circular corral, bears S.72°37'W. about 60 chs. dist.
46.00	Leave heavy, and enter scattering timber, bears E. and W.
67.70	Bottom of hollow, 300 ft. below ridge, course W.
	Asc.
69.20	Trail, bears NE. and SW. on top of ridge, 40 ft. above hollow, bears E. and W.
	Desc.
70.80	Bottom of hollow, 40 ft. below ridge, course W.

Chains

Asc.

76.00 Top of ridge,30 ft.above hollow,bears E.and W.

Desc.

79.00 Head of hollow,100 ft.below ridge,course N.60°W.

Asc.

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

T 33 S S 29 in NW.

R 20 E S 28 in NE.

S 33 in SE.;and

S 32 in S_W.quadrants;from which

A pinon pine,12 ins.dia.,bears N.12°10'E.,295 lks.dist.mkd.T 33 S R 20 E S 28 B T.

A yellow pine,26 ins.dia.,bears S.20°50'E.,360 dist..mkd.T 33 S R 20 E S 33 B T.

A yellow pine,24 ins.dia.,bears S.10°W.,273 lks. dist..mkd.T 33 S R 20 E S 32 B T.

A pinon pine,18 ins.dia.,bears N.3°50'W.,345 lks dist..mkd.T 33 S R 20 E S 29 B T.

Land,mountainous very rough.

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

Timber,cedar,pinon pine,and yellow pine.

Undergrowth,sage,service berry,buck brush,and oak.

Good grass for grazing.

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

September 16,1911:At this cor.I set off 2°52'N.,on the decl.arc;and at 11 h 55 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°55'N.,which is t the proper lat.nearly.

N.89°57'E.,on a random line bet.secs.28 and 33.

40.00 Set temp.¼ sec.cor.

80.16 Intersect N.and S.line,8 lks.S.of the cor.of secs.27 28,33

Chains

and 34.

Thence I run

S.89°55'W.,on a true line bet.secs.28 and 33.

Over mountainous land;through dense undergrowth.

Asc.

6.40 Trail,bears N.30°E.and S.30°W.

17.00 Enter scattering timber;bears N.and S.

Be Begin steeper ascent,ebears N.and S.

19.00 Top of ridge,40 ft.above cor.,bears N.and S.

Desc.

21.00 Head of hollow, 30 ft below ridge,course SE.

Asc.

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

A pinon pine,8 ins.dia.,bears N.80°E.,110 lks. dist..mkd.¼ S 28 B T.

A pinon pin,12 ins.dia.,bears S.17°30'E.,147 lks dist..mkd.¼ S 33 B T.

52.00 Begin abrupt ascent,bears N.20°E.and S..

66.50 Top of ridge divide between Davis and Stevens canon,900 ft.above sec.cor.,bears N.and S.

Desc.abruptly.

80.16 The cor.of secs.28,29,32,and 33. 600 ft.below ridge.

Land,mountainous .

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

Subsoil,rocky.

Timber,cedar and pinon pine.

Undergrowth,sage oak and survice berry.

Good grass for grazing.

Mountainous land,or land covered with dense undergrwth, 80.16 chs.

September 16,1911.

September 18,1911:At 7 h 54 m a.m.,l.m.t.,I set off.

Chains	
	37°55'E.,on the let.arc;2°11'E.,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 mountainous land;through dense undergrowth and scattering timber and
	Asc.
3.75	Top of ridge,40 ft.above cor.,bears E.and W.
	Desc.
11.40	Bottom of hollow,50 ft.below ridge,course W.
	Asc.
14.00	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
20.00	Enter heay timber,bears E.and W.
25.00	Bottom of hollow,100 ft.below ridge,course W.
	Asc.
27.00	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
30.90	Bottom of hollow,50 ft.below ridge,course W.
	Asc.
40.00	Top of ridge,60 ft.above hollow,bears E.and W.
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 29 in W half and S 28 in E half;from which
	A yellow pine,16 ins.dia.,bea s N.11°30'E.,40 l lks.dist..mkd.¼ S 28 B T.
	A yellow pine,26 ins.dia.,bears N.88°30'W.,81 l dist..mkd.¼ S 29 B T.
	Desc.
42.80	Trail,bears NE and SW.
42.90	South edge of box canon,beas NE and SW.
45.80	Bottom of canon,100 ft.below edge course W.
	Asc.
48.50	North edge of canon,100 ft.above canon,bears N.70°W.and S.70°E.

Chains	
48.70	Trail,bears N.70°W.and S.70°E.
50.00	Top of ridge,130 ft.above canon,bears E.and W.
	Desc.
53.00	Bottom of hollow,30 ft.below ridge,course SW.
	Asc.
60.50	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.
70.00	Bottom of hollow,60 ft.below ridge,course W.
	Asc.
73.60	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.20,21,28,and 29,mkd.on brass cap
	T 35 S S 20 in NW.
	S 20 E S 21 in NE.
	S 28 in SE.;and
	S 29 in SW.quadrants;from which
	A pinon pine,12 ins.dia.,bears N.58°30'E.,61 lks.dist..mkd.T 35 S R 20 E S 21 B T.
	A red pine,24 ins.dia.,bears S.60°E.,122 lks. dist..mkd.T 35 S R 20 E S 28 B T.
	A pinon pine,10 ins.dia.,bears S.32°W.,133 lks. dist..mkd.T 35 S R 20 E S 29 B T.
	A balsam,16 ins.dia.,bears N.29°45'W.,65 lks. dist..mkd.T 35 S R 20 E S 20 B T.
	Land,mountainous very rough.
	Soil,sandy clay and rocky;subsoil,rocky.
	Timber,cedar and pinon pine,yellow,pine and red pine. and balsam.
	Undergrowth,service berry,sage,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	September 18,1911:At this cor.I set off 2°06'E.,on the declinarc;and at 11 h 54 m a.m.,l.m.t.,I observe the sun

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	on the meridian,the resulting lat.is 37°56'N.,which is the proper lat.nearly.
	N.89°55'E.,on a random line bet.secs.21 and 28.
40.00	Set temp.¼ sec.cor.
80.12	Intersect N.and S.line,2 lks.N.of the cor.of secs.21,22, 27,and 28,.
	Thence I run .
	S.89°56'W.,on a true line bet.secs.21 and 28.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.over small ridges and hollows.
16.80	Top of ridge,200 ft.above cor.,bears N.and SE.
	Desc.
19.00	Bottom of hollow,50 ft.below ridge,course S.20°E.
	Asc.
31.40	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
34.50	Bottom of hollow,40 ft.below ridge,course S.30°E.
	Asc.
35.10	Top of ridge,50 ft.above hollow,bears N.30°W.and S.30°E.
	Desc.
37.40	Bottom of hollow,30 ft.below ridge,course S.30°E.
	Asc.
38.40	Top of ridge,50 ft.above hollow,bears N.30°W.and S.30°E.
	Des .
39.30	Bottom of hollow,20 ft.below ridge,course SE.
	Asc.
40.06	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap [illegible] ¼ S 21 in N half and S 28 in S half;from which
	A pinon pine,5 ins.dia.,bears N.1°30'E.,48 lks dist..mkd.¼ S 21 B T.

Sub.T.33 S.,R 20 E.-Continued.

Chains	
	A pinon pine,7 ins.dia.,bears S.23°10'W.,16 lks. dist..mkd. S 28 B.T.
44.00	Begin abrupt ascent over ledges,bears NE and SW.
47.70	Leave ledges,bears N.20°E.and S.20°W.
50.80	Top of divide ridge,between Stevens and Davis canon, 600 ft.above canon,bears N.20°E.and S.20°W.
	Desc.
57.40	Ledge,20 ft.high,bears N.20°E.and S.20°W.
	Leave heavy and enrter scattering timber,bears same.
	Enter dense undergrowth.,bearssame.
66.20	Head of hollow,400 ft.below ridge,course NW.
	Asc.
68.50	Top of ridge,60 ft.above hollow,bears NW and SE.
	Desc.
80.12	The cor.of secs.20,21,28,and 29. 250 ft.below ridge.
	Land,mountainous very rough.
	Soil,sandy clay and rocky;subsoil,rocky.
	Timber,cedar ,pinon pine,and pine.
	Undergrowth,oak,sage,and buck brush.
	Good grass.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.12 chs.
	September 18,1911.

September 19,1911:At 7 h 54 m a.m.,l.m.t.,I set off 37°56' N.,on the lat.arc;1°47'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 dense undergrowth and scattering timber.

Desc.

5.50	Edge of Davis canon,30 ft.below cor.,bears N.30°E.and S. 20°W.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
16.00	Bottom of hollow,250 ft.below cor,course N.70°W.
	Asc.
20.40	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
29.70	Wash,30 lks.wide,5 ft.deep,in bottom of Davis canon,200 ft.below ridge,course N.30°E.
	Asc.
31.00	Trail,bears N.20°E.and S.20°W.
	Enter heavy timber bears N.20°E.and S.20°W.
	Asc.abruptly ,bears N.20°E.and S.20°W.
37.50	Top of ridge,100 ft.above canon,bears E.and W.
	Desc.
39.70	Bottom of hollow,30 ft.below 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,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 20 in W half and S 21 in E half;from which
	A pinion pine,14 ins.dia.,bears S.46°40'E.,53 lks, dist:.mkd.¼ S 21 B T.
	A pinon pine,16 ins.dia.,bears N.72°W.,42 lks. dist:.mkd.¼ S 20 B T.
46.25	Top of ridge,70 ft.above hollow,bears E.and W.
	Desc.
48.60	Head of hollow,30 ft.below ridge course E.
	Asc.
52.40	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
56.40	South edge,of canon,ledge,70 ft.high,bears N.80°W.and S.E
59.50	Bottom of canon,150 ft.below ridge,course S.70°E.
	Asc.
63.50	North edge of canon,bears W.and S.60°E.
74.70	Top of abrupt ascent and edge of Davis canon,400 ft. above canon,bears N.30°E.and S.30°W.
80.00	Point 50 ft.above edge of canon.
	Set an iron post,3 ft.long,2 ins.in dia.,12 ins.in the

Chains

ground,on solid rock,and surrounded by mound of stone, for cor.of secs.16,17,20,and 21,mkd.on brass-cap

T 33 S S 17 in NW.

R 20 E S 16 in NE.

S 21 in SE.;and

S 28 in SW.quadrants;from which

A cedar,10 ins.dia.,bears N.44°30'E.,70 lks. dist..mkd.T 33 S R 20 E S 16 B T.

A pinon pine,7 ins.dia.,bears S.43°E.,32 lks. dist..mkd.T 33 S R 20 E S 21 B T.

A cedar,16 ins.dia.,bears S.89°W.,34 lks. dist..mkd.T 33 S R 20 E S 20 B T.

A pinon pine,8 ins.dia.,bears N.65°30'W.,52 lks. dist..mkd.T 33 S R 20 E S 17 B T.

Land,mountainous .,very rough.

Soil,sandy ,clay and rocky;subsoil,rocky;

Timber,cedar ,pinon pine,and yellow pine.

Undergrowth,service berry,oak,and buck brush.

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

September 19,1921.;At this cor.I set off 1°43'N.,on the decl.arc;and at 11h54m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°56'N.,which is the proper lat.nearly.

N.89°56'E.,on a random line bet.secs.16 and 21.

40.00 Set temp.¼ sec.cor.

80.14 Intersect N.and S.line,14lks.N.of the cor.of secs.15,16, 21,and 22.

Thence I run

N.89°58'W.,on a true line bet.secs.16 and 21.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.

4.00 Top of ridge,50 ft.above cor.,bears N.20°W.and S.20°E.

Chains

Desc.

5.30 Bottom of hollow,20 ft.below ridge,course S.30°E.

Asc.

24.00 Top of ridge,150 ft.above hollow,bears N.30°E.and S. 15.°W.this is divide between Davis and Stevens canon.

Desc.

27.30 Ledge,30 ft.high,bears N.20°E.and S.20°W.

Rim of Davis canon.

Desc.abruptly.

40.07 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 16 in N half and S 21 in S half from which

A cedar,12 ins,dia.,bears N.23°30'W.,25 lks. dist..mkd.¼ S 16 B T.

A pinon pine,12 ins.dia.,bears S.52°30'W.,9 lks dist..mkd.¼ S 21 B T.

41.00 Head of hollow,350 ft.below ridge,course NW.

Asc.

44.00 Top of ridge,30 ft.above hollow,bears NW and SE.

Desc.

51.40 Bottom of cDavis canon,300 ft.below ridge,course N.30°E.

Asc.abruptly.

76.20 Ledge,30 ft.high,on rim of Davis canon,700 ft.above canon bears N.30°E.and S.30°W.

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

Land,mountainous.

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

Timber,cedar and pinon pine.

undergrowth,sage service berry and husk brush.

Good grass .

Mountainous or heavily timbered land,80.14 chs.

September 19,1911.

September 20,1911:At 7 h 54 m a.m.,l.m.t.,I set off 37°56'

Chains	
	N.,on the lar.arc;1°24'N.,on the decl.arc;and determine a meridian with the solar;at the cor.of secs.16,17,20, and 21.
	Thence I run
	N.0°03'W.,bet.secs.16 and 17.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
8.30	Top of ridge,50 ft.above cor.,bears E.and W.
	Desc.
13.00	Head of hollow,70 ft.below ridge,course N.70°E.
	Asc.
16.00	Top of ridge,50 ft.above hollow,bears NE and SW.
	Desc.
23.50	Leave heavy and enter scattering timber and dense undergrowth,bears E.and W.
32.80	Head of hollow,100 ft.below ridge,course NE.
	Asc.
36.40	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 17 in W half and S 16 in E half;from which
	A pinon pine,4 ins.dia.,S.24°30'E.,8 lks. dist..mkd.¼ S 16 B T.
	A pinon pine,5 ins.dia.,bears S.11°W.,39 lks. dist..mkd.¼ S 17 B T.
40.70	Bottom of hollow,70 ft.below ridge,course S.60°E.
	Enter heavy timber and leave dense undergrowth,bears N.60°W.and S.60°E.
	Asc.
43.00	Top of ridge,60 ft.above hollow,bears N.60°E.and S.60°W.
	Desc.
49.30	Bottom of hollow,40 ft.below ridge,course N.70°E.
	Asc.
54.00	Top of ridge,,50 ft.above hollow,bears E.and W.
	Des.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	Desc.
54.10	Leave heavy timber and enter scattering timber and dense undergrowth,bears E.and W.
68.90	Ledge,20 ft.high,bears N.60°E.and S.60°W.
Desc.abruptly.	
71.50	Trail,bears N.80°E.and S.80°W.
80.00	Point 400 ft.below ridge.

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

T 33 S S 8 in NE.

R 20 E S 9 in NW.

S 16 in SE.;and

S 17 in SW.quadrants;from which

A cedar,16 ins.dia.,bears N.13°15'E.,193 lks. dist..mkd.T 33 S R 20 E S 9 B T.

A cedar,7 ins.dia.,bears S.35°15'E.,54 lks. dist..mkd.T 33 S R 20 E S 16 B T.

A cedar,6 ins.dia.,bears S.38°W.,53 lks. distl.mkd.T 33 S R 20 E S 17 B T.

A cedar,26 ins.dia.,bears N.24°W.,176 lks. dist..mkd.T 33 S R 20 E S 8 B T.

Land,mountainous.

Soil,sandy clay and rocky.2nd and 4th rat .subsoil, rocky.

Timber,cedar and pinon pine.

Undergrowth,buck brush service berry,and sage.

Good grass for grazing.

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

September 20,1911:At this cor.I set off 1°20'N.,on the decl.arc;and at 11 h 54 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°57'N.,which is the proper lat.nearly.

S.89°58'E.,on a random line bet.secs.9 and 16.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,10 lks.S.of the cor.of secs..9,10, 15,and 16.
	Thence I run
	S.89°58'W.,on a true line bet.secs.9 and 16.
	Over mountainous land;through heavy timber a d scattering undergrowth.
	Desc.
3.50	Head of hollow,50 ft.below cor.,course NW.
	Asc.
6.80	Top of ridge,40 ft.above hollow,bears NW and SE.
	Desc.
11.20	Head of hollow,70 ft.below ridge,course N.30° .W.
	Asc.
15.00	Trailbears N.30°E.and S.
16.40	Ledge,20 ft.high,bears N.80°E.and S.W.
23.00	Trail,bears N.30°W.and S.30°E.
23.80	Ledge,20 ft.h gh,and east rim of Davis canon,bears N.30°E and S.30°W.
	Desc.abruptly.
34.30	Trail,bears N.and S.
34.70	Wash,30 lks.wide,10 ft.deep,in bottom of Davis canon, 400 ft.below rim,course N.10°E.
	There are a few aspen trees in the bottom.
	Note:There is a small spring about 10.00 chs.northeasterly from here not seen from line.
	Asc.abruptly.
40.05	Set an iron post,3 ft.long,1 ins.in dia.,21 ins.in the ground,on solid rock,and surrouned by mound of stone 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,12 ins.dia.,bears N18°15'W.,23 lks dist..mkd.½ S 9 B T.
	A pinon pine,10 ins.dia.,bears S.13°E6'W.,23 lks.dist..mkd.½ S 16 B T.
53.30	Top of ledge,20 ft.high,and west rim of Davis canon,400

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	ft.above canon ,bears S.and N.30°E.,30 lks.;thence west.
58.00	Ledge,20 ft.high,bears N.80°E.and S.80°W.
	Desc.
68.70	Trail,bears N.80°E.and S.60°W.
77.50	Head of hollow,300 ft.below edge,course N.
	Asc.
78.10	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
80.10	The cor.of secs.8,9,16,and 17.
	Land,mountainous
	Soil,clay and gravelly and rocky;2nd and 3rd rate.
	Subsoil,rocky.
	Timber,cedar and pinon pine.
	Undergrowth,service berry and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.10 chs.

September 20,1911.

September 21,1911:At 7 h 53 m a.m.,l.m.t.,I set off 37° 57'N.,on the lat.arc;1°01'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 undergrowth.

Desc.

2.60	Bottom of canon,200 ft.below canner,course N.80°E.
	Asc.
10.40	Top of abrupt ascent 150 ft.above hollow,bears N.and W.
	Asc.gently.
16.30	Head of hollow,20 ft.deep,course S.60°E.
	Asc.
17.90	South edge of broad ridgem200 ft.above hollow,bears N. 70°W.and S.70°E.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
26.00	North edge of ridge,bears N.70°W.and S.70°E.
	Desd.
37.40	Head of hollow,40 ft.below ridge,course S.60°E.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,14 ins.in the ground,on solid rock,and surrouned by mound of stone, for ¼ secc.cor.,mkd.on brass cap ¼ S 8 in W. half and S 9 in E half;from which
	A cedar,12 ins.dia.,bears N.62°E.,21 lks.
	dist..mkd.¼ S 9 B T.
	A pinon pine,10 ins.dia.,bears S.54°W.,25 lks.
	dist..mkd.¼ S 8 B T.
45.00	Top of steep ascent and south edge of mesa,bears E.and W. 150 ft.above hollow.
	Asc.gently.
61.50	Trail,bears E.and W.
70.40	North edge of mesa,or ridge,to p of ledge30 ft.high,bears E.and W.
	Desc.abruptly.
80.00	Point 300 ft.below mesa,.
	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.4,5,8,and 9,mkd.on brass cap
	T 33 S S 5 in NW.
	R 20 E S 4 in NE.
	S 9 in SE.aand S 8 in SW.quadrants;from which
	a cedar,12 ins.dia.,bears N.44°30'E.,33 lks.
	dist..mkd.T 33 S R 20 E S 4 B T.
	A pinon pine,6 ins.dia.,bears S.43°E.,29 lks.
	dist..mkd.T 33 S R 20 E S 9 B T.
	A pinon pine,6 ins.dia.,bears S.59°15'W.,48 lks
	dist..mkd.T 33 S R 20 E S 8 B T.
	A pinon pine,14 ins.dia.,bears N.29°W.,25 lks.
	dist..mkd.T 33 S R 20 E S 5 B T.
	Land,mountainous .
	Soil,clay gravelly and rocky;subsoil,rocky.

Chains	
	Timber ,cedar and pinon pine.
	Undergrowth,service berry and buck brush.
	Good grass .
	Mountainous land,or heavily timbered land,80.00 chs.
	September 21,1911:At this cor.I set off 0°56'W.,on the decl.are;and at 11 h 55 m a.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°58'N.,which is the proper lat.nearly.
	N.89°58' E.,on a random line bet.secs.4 and 9.
40.00	Set temp. sec.cor.
80.16	Intersect N.and S.line,5 lks.S.of the cor.of secs.3,4, 9 and 10.
	Thence I run
	S.89°56'W.,on a true line bet.secs.4 and 9.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
17.50	Begin abrupt asc.over ledges,bears NE and SW.
28.50	Top of ridge,400 ft.above cor.,bears N.70°E.and S.W.
	Desc.abruptly.
40.08	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground;on cemented gravel,and surrounded by mound of stone, for sec.cor..mkd.on brass cap S.4 in N half and S 9 in S half;from which
	A red pine,14 ins.dia.,bears N.81°W.,37 lks. dist..mkd. S 4 B T.
	A red pine,12 ins.dia.,bears S.65°45'W.,43 lks. dist..mkd. S 9 B T.
	Note :There are only a few scattering red pines in the vacinity.
40.15	Bottom of hollow,300 ft below ridge,course N.
	Asc.
44.20	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
50.00	Bottom of hollow,40 ft.below ridge,course N.

Chains

Asc.

51.50 Top of ridge,30 ft.above hollow,bears N.and S.

Desc.

52.40 Bottom of hollow,20 ft below ridge,course N.

53.10 55c30 Top of ridge,25 ft.above hollow,bears N.and S.

Desc.

57.50 Head of hollow,50 ft.below ridge,course N.

Asc.

63.00 Top of ridge,40 ft. bove hollow,bears N.and S.

Desc.

64.20 Bottom of holow,40 ft.below ridge,course N.

Asc.

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

Desc.

76.00 Bottom of hollow,40 ft.below ridge,course N.

Asc.

77.60 Top of ridge,50 ft.above hollow,bears N.and S.

Desc.

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

Land,mountainous.

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

Timber ,cedar,pinon pine,and red pine.

Undergrowth,service berry and buck brush.

Good grass .

Mountainous or heavily timbered land,80.16 chs.

September 21,1911.

September 22,1911:At 7 h 53 m a.m.,l.m.t.,I set off 37°56 ✓ E.,on the lat.arc;0°37'E.,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'E.,on a random line bet.secs.4 and 5.

0.00 Set temp.¼ sec.cor.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
80.04	Intersect E.bdy.of Tp.,13 lks.W.of the cor.of 4,5,32,and 33, heretofore described .
	Thence I run
	S.0°03'W.,on a true line bet.secs.4 and 5.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
8.00	Ledge,50 ft.high,bears E.and W.
22.50	Top of ledge,40 ft.high,and north edge of mesa,600 ft. above cor. bears NW and S.15°E.
	Desc.gently over mesa.
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 + S 5 in N half and S 4 in E half;from which
	A pinon pine,14 ins.dia.,bears N.56 -°E.27 lks. dist..mkd.+ S 4 B T.
	A pinon pine,12 ins.dia.,bears S.81°W.,25 lks. dist..mmkd.+ S 5 B T.
44.60	Trail,bears N.70°E.and S.70°W.
52.70	Trail,bears N.80°E.and S.60°W.
66.00	South edge of mesa,ledge 20 ft.high,bears N.65°E.and S.55° W.
	Desc.abruptly.
73.75	Blazed line on North bdy.LaSal Forest Reserve,bears E.and W.
77.70	Bottom of canon,400 ft.below mmesa,course N.80°E.
	Asc.abruptly.
80.04	The cor.of secs.4,5,8,and 9. 100 ft.above canon.
	Land,mountainous.
	Soil,clay and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,service berry and buck brush.
	Good grass .
	Mountainous or heavily timbered land,80.04 chs.

September 22,1911.

Chains

Geo. P. Stewart
U.S.Transitman.

September 21,1911:At 7 h 53 m a.m.,l.m.t.,I set off 37°54'N.,on the lat.arc;1°01'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs. 5,6,31,and 32, on S.bdy.of Tp., heretofore described. Thence I run, N.0° 03'W.bet.secs.31 and 32 Over mountainous land;through scattering timber and dense undergrowth.

Desc.

3.70 Begin abrupt descent,bears N.50°E.and S.50°W.

5.50 Creek,3 lks.wide,in bottom of canon,50 ft.below cor., course NE.

Asc.

7.00 North edge of canon,50 ft.above canon,bears NE and SW.

20.00 Top of ridge,60 ft,above canon,bears N.70°W.and S.70° E.

Desc.

25.70 Bottom of hollow,50 ft.below ridge,creek,1 lk.wide,in bottom course S.60°E

Asc.

33.45 Wash.15 lks.wide,5 ft.deep,course S.Z0°E.

Note:A seep of spring bears S.Z0°E.,50 lks.dist.

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 half and S 32 in E half;from which

A pinon pine,6 ins.dia.,bears S.60°E.,250 lks. dist..mkd.¼ S 32 B T.

A yellow pine,18 ins.dia.,bears N.17°W.,192 lks. dist..mkd.¼ S 31 B T.

45.00 Top of ridge140 ft.above hollow,bears E.and W.

Desc.

47.70 Head of hollow,25 ft.below ridgecourse E.

Sub. T.33 S.,R.20 E.-Continued.

Chains	
	Asc.
53.00	Top of ridge,70 ft.above hollow,bears N.70°E.and S.80°W.
	Desc.
	A circular corral bears S.31°30'E.about 35.00 Chs. dist
67.80	Bottom of hollow,80 ft.below ridge,course E.
	Asc.
74.50	Top of ridge,65 ft.above hollow,bears E.and W.
	Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.29,30,31,and 32,mkd.on brass cap
	T 33 S S 30 in NW.
	R 20 E S 29 in NE.
	S 32 in SE.;and
	S 31 in SW.quadrants;from which
	A yellow pine,30 ins.dia.,bears N.28°45'E.,
	595 lks.dist..mkd.T 33 S R 20 E S 29 B T.
	No other trees within limits;dig pits,18x18x12 ins.SE., SW.,and NW.of cor.;5½ ft.dist.;and raise a mound of earth,4 ft.base,2 ft.high,W.of cor.
	Land,mountainous .
	Soil,clay loam and gravelly .
	Timber very scattering yellow pine.
	Undergrowth,oak and service berry and buck brush.
	Good grass .
	Mountainous land,or land covered with dense undergrowth.
	80.00 chs.
	September 21,1911:At this cor.I set off 0°56'N.,on the decl.arc;and at 11 h 53 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°55'N.,which is the proper lat.nearly.

N.89°57'E.,on a rando m line bet.secs.29 and 32.

40.00 Set temp.¼ sec.cor.

Sub.T. 33 S.,R.20 E.-Continued.

Chains	
80.10	Intersect N.and S.line,5 lks.S.of the cor.of secs.28,29, 32,and 33.
	Thence ⊥ run
	S.89°55'W.,on a true line bet.secs.29 and 32.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
1.40	Bottom of hollow,30 ft.below cor.,course N.60°W.
	Asc.
4.80	Top of ridge,30 ft.above hollow,bears NW and SE.
	Desc.
14,90	Bottom of hollow,150 ft.below ridge,course N.60°W.
	Asc.
17.40	Top of ridge,30 ft.above hollow,bears N.60°W.and S.60°E.
	Desc.
17.80	Trail,bears N.70°E.and S.70°W.
18.70	Ledge,40 ft.high,bears N.and S.
	Desc. into Davis canon.
20.20	Creek,6 lks.wide,3 ins.deep,in bottom of Davis canon,150 ft.below ridge,course N.
	Note:There are a few anpen trees in the canon bottom.
	Asc.
23.10	West edge of Davis canon and top of steep ascent ,bears N.and S.
40.05	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.¼ S 29 in N half and S 32 in S.half;from which
	A yellow pine,50 ins.dia.,bears N.11°W.,25 lks.dist.mks.¼ S 29 B.T.
	A yellow pine,42 ins.dia.,bears S.34°30'W.,36 l lks.dist.mkd.¼ S 32 B T.
49.00	Leave timber,bears N.10°E.and S.10°W.
60.00	Top of ridge,60 ftlabove ¼ sec.cor.,bears N.and S.
	Desc.
62.50	Bottom of hollow,50 ft.below ridge,course N.30°E.

Chains	
	Asc.
77.80	Top of ridge,70 ft.above hollow,bears N.and S.
	Desc.
79.30	Trail,bears N.60°W.and S.60°E.
80.10	The cor.of secs.29,30,31,and 32.
	land,mountainous.ll
	Soil,clay and gravelly loam;subsoil, rocky.
	Timber,yellow pine and aspen.
	Undergrowth,oak,service berry,buck brush and sage .
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.10 chs.
	September 2I,1911.

September 22,1911:At 7 h 53 m a.m.,l.m.t.,I set off 37° 55'N.,on the lat.arc;0°37'N.,on the decl.arc;and determine a meridian with the solar, at the cor.of secs. 29,30,31,and 32.

Thence I run

S.89°57'W. on a random line bet.secs.30 and 31.

40.00	Set temp.¼ sec.cor.
78.50	Intersect W.bdy.of Tp.,2 lks.S.of the cor.of secs.
	25,30,31,and 36, heretofore described.
	Thence I run
	N.89°58'E.,on a true line bet.secs.30 and 31.
	Over mountainous land;through dense undergrowth.
	Desc.
2.20	Bottom of hollow,60 ft.below cor.,course N.20°E.
	Asc.
6.60	Top of ridge,30 ft.above hollow bottom,bears N.50°E.and
	S.50°W.
	Desc.
13.85	Trail,bears NE.and SW.
18.85	Bottom of hollow100 ft.below ridge,course N.40°E.
	Asc.

Chains	
23.35	Top of ridge,50 ft.above hollow,bears N.40°E.and S.40°W.
	Desc.
29.65	Trail,bears NE and SW.
32.35	Bottom of holow,50 ft.below ridge,course NE.
	Asc.
	Note:1.00 chs.N.is a small seep,not enough to flow.
34.25	Trail,bears NW and SE.
38.50	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 30 in N half and S 31 in S half;and raise a mound of stone,2 ft. base,1½ ft.high,N.of cor.
40.50	Top of ridge,20 ft.above ¼ sec.cor.,bears N.20°E.and S.0 20°W.
	Desc.
45.55	Trail,bears N.20°W.and S.20°W.
	Bottom of hollow,40 ft.below ridge,course N.20°W.
	Asc.
49.15	Top of ridge,40 ft.above hollow,bears N.20°W.and S.20°E.
	Desc.
57.35	Bottom of canon,65 ft.below ridge,course N.30°E.
	Asc.
64.35	Top of ridge,80 ft.above hollow,bears N.and S.
	Desc.
71.35	Bottom of hollow,40 ft.below ridge,course N.
	Asc.
78.50	The cor.of secs.29.30,31,and 32.
	Land,mountainous.
	Soil,sandy and clay and gravelly;2nd and 3rd rate.2 ft.deep.subsoil,clay and rocky.
	No timber.
	Undergrowth,oak,service berry,buck ,and sage brush.
	Good grass.
	Mountainous land,or land covered with dense undergrowth
	78.50 chs.
	September 22,1911:At this cor.I set off 0°33'N.,on the

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	decl.arc;and at 11 h 53 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°55'N.,which is the proper lat.nearly.
	N.0°03'W.,bet.secs.29 and 30
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
.60	Trail,bears NW and SE.
3.50	Bottom of hollow,60 ft.below cor.,course N.80°E.
	Trail in bottom.
	Asc.
9.60	Top of ridge,30 ft.above hollow,bears N.60°E.and S.80°W.
	Desc.
15.00	Desc.abrupt;y,bears N.60°E.and S.80°W.
16.50	Bottom of canon,60 ft,below ridge,course N.86°E.
	Note Maple in bottom of canon.
	Asc.
19.30	Trail,bears N.30°W.and S.30°E.
23.00	Trail,bears NW and SE.
30.00	Top of ridge,100 ft.above canon,bears NW and SE.
	Desc.
31.00	Bottom of hollow,15 ft.below ridge,course E.
	Asc.
33.30	Top of ridge,30 ft.above hollow,bears N.60°W.and S.60°E
	Desc.
35.70	Bottom of hollow,20 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 yellow pine,8 ins.dia.,bears N.88°51'E., 258 lks.dist..mkd.¼ S 29 B T.
	A pinon pine,12 ins.dia.,bears S.48°53'W.,25

Chains	
	lks.dist..mkd.½ S 30 B T.
49.60	Top of ridge,80 ft.above hollow,bears E.and W.
	Desc.
56.70	Creek,1 lks.wide,½ in.deep,in bottom of hollow,25 ft. below ridge,course NE.
	Spring heads about 5.00 chs.southwesterly in small grove of aspens.
	Asc.
60.00	Top of ridge,20 ft.above hollow,bears E.and W.
	Desc.
64.50	Desc.abruptly,bears N.70°E.and S.70°W.
67.00	Foot of steep descent,bears NW and SE.
	Enter heavy timber,bears same.
74.45	Trail,bears N. 70°W.and S.70°E.
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 33 S S 19 in NW.
	R 20 E S 20 in NE.
	S 29 in SE.;and
	S 30 in SW.quadrants;from which
	A yellow pine,20 ins.dia.,bears N.54°05'E.,140
	lks.dist..mkd.T 33 S R 20 E S 20,B T.
	A yellow pine,24 ins.dia.,bears S.55°37'E.,85 l
	lks.dist..mkd.T 33 S R 20 E S 29 B T.
	A yellow pine,30 ins.dia.,bears S.68°25'W.,188
	lks.dist..mkd.T 33 S R 20 E S 30 B T.
	A yellow pine,36 ins.dia.,bears N.38°51'W.,123
	lks.dist..mkd.T 33 S R 20 E S 19 B T.
	Land,mountainous.
	Soil,clay and gravelly.subsoil, clay and rocky.
	Timber,yellow pine cedar and pinon pine.
	Undergrowth,oak service berry and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

September 22,1911.

Sub.T.33 S.,R.20 E.-Continued.

Chains	
	September 23,1911:At 7 h 53 m.a.m.,1cm.t.,I set off 37° 56'N.,on the lat.arc;0°14'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs. 19.20,29,and 30.
	Thence I run
	N.89°55'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.N.of 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 heavy timber.and dense undergrowth.
	Desc.gently.
3.20	Rim of Davis canon,50 ft.below cor.,bears N.20°E.and S. 20°W.
	Desc.abruptly.
17.00	Creek,3 ,lks.wide,2 ins.deep,in bottom of Davis canon 325 ft.below rim,course N.10°E.
	Asc.
	Note:This creek sinks a little north of line.
	Leave pinon pine and cedar and enter heavy yellow pine timber,bears N.10°E.and S.10°W.
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 half and S 29 in S half;from which
	A yellow pine,26 ins.dia.,bears N.19°30'W.,68 lks.dist..mkd.¼ S 20 B T.
	A yellow pine,15 ins.dia.,bears S.33°30'E.,77 lks.dist..mkd.¼ S 29 B.T.
42.00	Top of ridge,550 ft.above canon,bears N.and S.
	Desc.
48.80	Begin abrupt descent,bears N.20°E.and S.20°W.
50.00	Bottom of canon,60 ft.below ridge,course N.
	Asc.
51.00	Top of abrupt.ascent,bears N.and S.

Sub.T.33 S.,R.20 E.-Continued.

Chains

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

Desc.

63.35 Bottom of hollow,20 ft.below ridge,course N.2)°E.

Asc.

67.70 Top of ridge,40 ft.above hollow,bears N.and S.

Desc.

71.25 Bottom of hollow,15 ft.below ridge,course N.30°E.

Trail in Bottom.

Asc.

72.35 Asc.over ledges,bears N.and S.

77.10 Top of ledges,80 ft.above bottom,bears N.W.and SE.

79.00 Top of ascent,15 ft.above ledge,bears N.and S.

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

Land,mountainous.

Soil, clay loam and gravelly;2nd rate.2 ft.deep,subsoil rocky.

Timber,cedar and pinon pine and yellow.

Undergrowth,oak,service berrry,buck,brush and wild rose.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.06 chs.

September 23,1911:At this cor.I set off 0°09'W.,on the decl.arc;and 11 h 53 m a.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°56'N.,which is the proper lat.nearly.

S.89°58'W.,on a random line bet.secs.19 and 30.

40.00 Set temp.¼ sec.cor.

78.35 Intersect W.bdy.of Tp.,10 lks.S.of the cor.of secs. 19,24,25,and 30, heretofore described.

Thence I run

S.89°58'E.,on a true line bet.secs.19 and 30.

Over mountainous land;through dense undergrowth.

Desc.

Chains	
10.90	Canon,150 ft.below cor.,course N.15°W.
	Asc.
17.29	Trail,bears N.20°E.and S.20°W.
20.00	Trail,bears N.and S.
26.80	Top of ridge,150 ft.above hollow,bears N.and S.
	Desc.
38.35	Set an iron post,3 ft.long,1 in.in dia.,18 ins.in the ground,on solid rock,and surrouned by mound of stone, 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.
39.25	Desc.over ledges,bears N.and S.
40.00	Leave ledges,bears N and S.
53.60	Bottom of hollow,130 ft.below ¼ sec.cor.,course N.40°E.
	Asc.
56.10	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
57.20	Bottom of hollow,15 ft.below ridge,course N.20°W.
	Asc.
58.60	Top of ridge,20 ft.above cor.,bears N.and S.
	Desc.
61.50	Bottom of hollow,40 ft.below ridge,course N.30°W.
	Creek 1 lk.wide,2 ins.deep, in bottom,course N.30°W. heads about 10.00 chs.southeasterly in small grove of aspens.
	Asc.
70.70	Top of ridge,25 ft.above hollow,bears N .70 E.and S.20°W.
	Trail on top ,bears NW and SE.
	Desc.
78.35	The cor.of secs.19.20,29,and 30.
	Land,mountainous .
	Soil,clay and gravelly loam;2nd rate.with rocky subsoil.
	No timber.
	Undergrowth,oak,service berry and busk brush.
	Good grass.

Chains	
	Mountainous land,or land covered with dense undergrowth, 78.35 chs.
	September 23,1911.
	September 24,1911:At 7 h 52 m a.m.,l.m.t.,I set off 37°56' N.,on the lat.arc;0°09'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.19,20,29, and 30.
	Thence I run
	N.0°03'W.,bet.secs.19 and 20.
	Mountainous land;through heavy timber and dense undergrowth.
	Asc.
3.00	Top of ridge,15 ft.above cor.,bears N.80°E.and S.80°W.
	Desc.
3.50	Begin steeper descent,bears NW and E.
	Enter ledges.
6.10	Foot of ledges,70 ft.below ridge,bears NW and SE.
	Desc.gently.
8.70	Trail,bears NW and SE.
15.90	Begin steeper desc.,bears N.40°W.and S.40°E.
25.50	Bottom of canon,150 ft.below ridge,course S.80°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 ½ S 19 in W half and S 20 in E half;from which
	A pinon pine,6 ins.dia.,bears S.83°05'E.,32 lks. dist..mkd.+ S 20 B T.
	A yellow pine,24 ins.dia.,bears S.73°06'W.,52 lks. dist..mkd.+ S 19 B T.
41.70	Topof steep ascent,bears E.and W.
46.30	Begin abrupt ascent over ledges,bears N.80°W.and S.80°E.
47.00	Top of ledges 25 ft.above foot nbears N.80°W.and S.80°E
	Desc.gently.
50.00	Begin steeper ascent,bears N.80°W.and S.80°E.

Sub.T.36 S.R 20 E.-Contined.

Chains	
64.90	Foot of red sandstone ledge,500 ft.above ¼ sec.cor.,bears N.80°W.and S.80°E.
68.50	Top of gray sand ledge overlying red sand ledge,on top ridge 1200 ft.above canon,bears N.80°W.and S.80°E. Desc.
69.00	Begin steeper descent over ledges,bears E.and W. Enter heavy spruce timber,bears E.and W.
69.50	Foot of ledges,bears E.and W.
79.00	Leave spruce and enter aspen timber,bears E.and W.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.17,1819,and 20,mkd.on brass cap T 35 S S 18 in NW. R 20 E S 17 in NE. S 20 in SE.;and S 19 in SW.quadrants;from which A yellow pine,10 ins.dia.,bears N.21°30'E.,278 lks.dist..mkd.T 35 S R 20 E S 17 B T. A yellow pine,10 ins.dia.,bears S.43°E.,52 lks. dist..mkd.T 35 S R 20 E S 20 B T. A spruce 9 ins.dia.,bears S.50°W.,41 lks. dist..mkd.T 35 S R 20 E S 19 B T. A yellow pine,20 ins.dia.,bears N.38°W.,309 lks. dist..mkd.T 35 S R 20 E S 18 B T. Land,mountainous. Soil,clay,sandy and rocky;2nd and 4th rate about 18 ins. deep,subsoil,rocky. Timber,cedar,pinon pine,aspen,yellow pine,and spruce. Undergrowth,service berry,buck,and oak brush. Good grass. Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

September 24,1911.

September 27,1911:At 7 h 52 m a.m.,l.m.t.,I set off,

Chains	
	37°57'E.,on the lat.arc;1°20'S.,on the decl.arc;and determine a meridian with the solar at the cor.of secs. 17,18,19,and 20.
	Thence I run
	East on a random line bet.secs.17 and 20.
40.00	Set temp.¼ sec.cor.
80.00	Intersect E.and S.line,10 lks.N.of the cor.of secs. 16,17, 20,and 21.
	Thence I run
	N.89°56'W.,on a true line bet.secs.17 and 20.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
33.00	Ledge 50 ft.high,bears N.and S.500 ft.above cor.,
37.40	Top of ledge and top of mountain,600 ft.above sec.cor., bears N.30°E.and S.30°W.
	Leave pin n pine and cedar and inter spruce timber,bears N.30°E.and S.30°W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap,¼ S 17 in N half. and S 20 in S half; from which
	A spruce,6 ins.dia.,bears N.19°45'W.,32 lks. dist..mkd.¼ S 17 B T.
	A yellow pine,6 ins.dia.,bears S.57°30'W.,26 lk dist..mkd.¼ S 20 B T.
40.10	Ledge 30 ft.high,bears N.10°E.and S.10°W.
59.40	Bottom of hollow,400 ft.below ridge,course N.10°W.
	Asc.
67.50	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
70.50	Bottom of hollow,10 ft.below ridge,course N.15°W.
	Asc.
77.00	Top of ridge,75 ft.above hollow,bears N.and S.
	Desc.
80.00	To cor.of secs.17,18,19,and 20.
	Land,mountainous.

Sub.T.33 S.,R.20 E.-Continued..

Chains

Soil,sandy clay and gravelly,subsoil rocky.

Timber,cedar,pinon pine,yellow pine,and spruce.

Undergrowth,oak,service berry,buck,and larb brush.

Good grass for grazing.

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

September 27,1911.

September 28,1911:At 7 h 51 m a.m.,l.m.t.,I set off 37° 57'N.,on the lat.arc;1°43'S.,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°58'W.,on a random line bet.secs.18 and 19.

40.00 Set temp.¼ sec.cor.

78.26 Intersect W.bdy.of Tp.,5 lks.S.of the cor.of secs.13,18. 19,and 24, heretofore described.

Thence I run

S.89°56'E.,on a true line bet.secs.18 and 19.

Over mountainous land;through dense undergrowth and scattering timber.

Desc.

4.40 Head of Salt Creek canon,150 ft.below cor.,course N.15°W

Asc.

6.35 Beaver timber,bears N.and S.

22.00 Top of ridge,180 ft.above hollow,bears N.40°W.and S.40°E

Desc.

25.20 Bottom of hollow,20 ft.below ridge,course NW.

Enter scattering timber,bears NW.and SE.

Asc.

28.80 Top of abrupt ascent,bears NW. and SE.

38.26 Set an iron post, 5 ft.long,1 in.in dia.,26 ins.in the

Chains	
	ground,for ¼ sec.cor..mkd.on brass cap ¼ S 18 in N half and S 19 in S half;from which
	A yellow pine,6 ins.dia.,bears N.63°30'E.,7 lks. dist..mkd.¼ S 18 B T.
	A spruce ,6 ins.dia.,bears S.67°30'E.,41 lks. dist..mkd.¼ S 19 B.T.
	Top of ridge,70 ft.above hollow, ears N.10°W.and S.10°E
	Enter heavy timber,bears NE and SW.
	Desc.
39.35	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
41.00	Top of ridge,50 ft.above hollow,bears N.15 °W and S.15°E
	Desc.
41.90	Bottom of hollow,30 ft.below ridge,course N.30°W.
	Asc.
44.95	Top of red sandstone ledge,60 ft.high,bears N.30°W.and S 30°E.
50.35	Top of ridge,200 ft .above hollow,bears N.20°E.and S.20° W.
	Desc.
76.60	Bottom of hollow,400 ft.below ridge,course N.15°E.
	Asc.
78.26	The cor.of secs.17,18,19,and 20.
	Land,mountainous.
	Soil,clay,sandy ,and gravelly.2nd rate about 2 ft.deep.
	subsoil,rocky.
	Timber,cedar,pinon pine,yellow pine,spruce,and aspen.
	Undergrowth,oak,service berry,buck brush,sage,and larb.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,78.26 chs.

September 28,1911.

Sub.T.33 S.,R.20 E.-Continued.

Chains

September 30,1911:At 7 h 50 m a.m.,l.m.t.,I set off 37° 57'N.,on the lat.arc;2°29'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.17,18,19and 20.

Thence I run

N.0°03'W.,bet.secs.17 and 18.

Over mountainous land;through scattering timber and dense undergrowth.

Desc.

2.00 Leave aspen and enter scattering pinon pin and cedar timber,bears E.and W.

3.25 Begin steeper descent,bears E.and W.

8.00 Foot of steep descent,bears E.and W.

11.00 Desc.abruptly.,bears E.and W.

28.25 Head of canon,200 ft.below cor.,course N.35°E.

Asc.

28.00 Ascend over ledges,bears N.40°E.and S.40°W.

29.20 Top of ledges and divide ridge between salt creek and Davis canon,bears N.30°E.and S.30°W.

Desc.

40.00 Set an iron post,3 ft.long,1 in.in dia.,16 ins.in the ground,on rock,and surrounded by m ound of stone,for ¼ sec.cor..mkd.on brass cap ¼ S 18 in W half and S 17 in E half;from which

A pinon pine,4 ins.dia.,bears S 62°E.,215 lks. dist.,mkd.on S 17 B T.

A pinon pine,8 ins.dia.,bears S.13°15'W.,60 lks dist..mkd.¼ S 18 B T.

58.30 Begin abrupt desc.bears N.80°W.and S.80°E.

63.00 Bottom of hollow,70 ft.below edge,course S.80°W.

Asc.

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

T 33 S S 7 in NW.

R 20 E S 8 in NE.

S 17 in SE.;and

Chains

S 18 in SW.quadrants;from which

A pinon pine,4 ins.dia.,bears N.22°5'E.,124 lks. dist..mkd.T 33 S R 20 E S 8 B T.

A pinon pine,6 ins.dia.,bears S.55°11'E.,180 lks.dist..mkd.T 33 S R 20 E S 17 B T.

A pinon pine,6 ins.dia.,bears S.54°20'W.,85 lks.dist..mkd.T 33 S R 20 E S 18 B T.

A pinon pine,16 ins.dia.,bears N.75°48'W.,17 8 lks.dist..mkd.T 33 S R 20 E S 7 B T.

Land,mountainous .

Soil,clay and grave ly.subsoil,rocky.

Timber.aspen pinon pine and cedar.

Undergrowth, oak,service berry and buck,and szge brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth

80.00 chs.

September 30,1911.

October 2,1911:At 7 h 50 m a.m.,l.m.t., I set off 37°58'N.,on the lat.arc;3°16'S.,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°56'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 S.of the cor.of secs.8,9, 16,and 17.

Thence I run

N.89°57 W.on a true line bet.secs.8 and 17.

Over mountainous land;through heavy timber and scattering undergrowth.

Desc.

3.00 Bottom of canon,40 ft.below cor.,course N.50°E.

Asc.

Sub.T.33 S.,R.20 E.-Continued:

Chains	
10.30	Top of ridge,70 ft.above canon,bears N.40°W.and S.40°E.
	Desc.
12.00	Bottom of hollow,50 ft.below ridge,course S.30°E.
15.80	Top of ridge,50 ft.above hollow,bears NW.and SE.
	Desc.
18.10	Bottom of hollow,50 ft.below ridge,course S.50°E.
	Asc.
31.00	Top of abrupt ascent250 ft.above hollow,bears N.and S.
35.00	Top of ridge,280 ft.above hollow,bears N.10°E.
	and S10°W.
	Desc.along north side of small ledges.
39.00	Desc.over ledges,bears N.30°W.and S.30°E.
39.25	Head of hollow,50 ft.below ridge,course S.30°E.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S B in N half and S 17 in S half;from which
	A pinon pine,10 ins.dia.,bears N.68°30'W.,30 l lks.dist..mkd. ¼ S 8 B T.
	A pinon pine,12 ins.dia.,bears S.32°40'W.,13 lks.dist..mkd. ¼ S 17 B T.
45.60	Top of ridge,50 ft.above hollow,bears N.80°W.and S.80°E.
	Desc.
46.30	Bottom of hollow,50 ft.below ridge,course SE.
	Asc.
60.00	Top of divide ridge,between Davis and Salt Creek canon, 220 ft.above canon,bears N.and S.
	Desc.
63.00	Bottom of hollow,50 ft.below ridge,course S.15°W.
	Asc.
66.80	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
68.00	Bottom of hollow,30 ft.below ridge,course S.30°W.
	Asc.
71.00	Top of spur,20 ft.above cor., bears N.40°E.and S.40°W.
	Desc.

Sub.T.33 S.,R 20 E.-Continued.

Chains	
	Desc.
80.00	The cor.of secs.7,8,17,and 18.
	Land,mountainous.
	Soil,clay and gravelly loam;2 to 4 ft.deep subsoil rocky.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry and sage brush.
	Good grass.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80. 0 chs.
	October 2,1911:At this cor.I set off 3°21'S.,on the decl.arc;and at 11 h 50 m a.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°57'N.,which is the proper lat.nearly.

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

40.00 Set temp.¼ sec.cor.

78.40 Intersect W.bdy.of Tp.13 lks.N.of the cor.of secs.7,12, 13.and 18, heretofore described.

Thence I run

N.89°58'E.,on a true line bet.secs 7 and 18.

Over mountainous land;through heavy timber and scattering undergrowth.

Desc.

1.00 Desc.over ledges,bears N.30°E.andsS.30°W.

5.65 Bottom of canon,125 ft.below cor.,course N.40°E.

Note:A few maples in the bottom.

Asc.

6.35 East edge of canon,70 ft.above bottom,bears N.40°E.and S.40°

14.00 Top of ridge,100 ft.above canon,bears N.and S.

Desc.

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

Asc.

27.35 Top of ridge,20 ft.above hollow,bears N.and S.

Desc.

29.85 Bottom of Salt Creek Canon 80 ft.below ridge,course N.

Sub.T.33 S.,R.20.E.-Continued.

Chains	
	Asc.
30.45	Top of steep ascent,75 ft.above canon,bears N.and S.
31.45	Top of ridge,90 ft.above hollow,bears N.10°W.and S.10°E.
	Desc.
34.35	Bottom of hollow,25 ft.below ridge,course N.20°W.
	Asc.
38.40	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 7 in N half and S.18 in S half;from which
	A pinon pine,6 ins.dia.,bears N.21°20'E.,22 lk dist..mkd.¼ S 7 B T.
	A pinon pine,6 ins.dia.,bears S.45°48'W.,37 lks. dist..mkd.¼ S 18 B T.
58.35	Top of ledge,50 ft.high,and east rim of Salt Creek canon, 480 ft.above canon,bears N.25°E.and S.25°W.
	Asc.gently.
78.40	The cor.of secs.7,8,17,and 18.
	Land,mountainous .
	Soil,sandy and clay loam and rocky.2 to 4 ft.deep,subsoil rocky.
	Timber,cedar andpinon pine.
	Undergrowth,service berry,oak,buck,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,78.40 chs.

October 2,1911.

October 3,1911:At 7 h 49 m a.m.,l.m.t.,I set off 37°57' ✓ N.,on the lat.arc;3°39'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.7,8,17,and 18.

Thence I run

N.0°03'W.,bet.secs.7 and 8.

Over mountainous land;through heavy timber and scattering

Chains	
	Undergrowth.
	Asc.
5.50	Top of ridge25 ft.above cor.,bears N.40°W.and S.40°E.
	Desc.
8.40	Bottom of hol ow,80 ft.below ridge,course N.34°W.
	Asc.
11.70	Top of ridge,40 ft.above hol ow,bears N.65°W.and S.65°E.
	Desc.
15.10	Bottom of hollow,80 ft.below ridge,course W.
	Trail in bottom,bears N.30°E.and S.30°W.
	Asc.
21.50	Top of ridge,80 ft.above hollow,bears N.80°E.and S.80°W
	Desc.
23.70	Bottom of hollow,50 ft.below ridge,course S.70° W.
	Asc.abruptly.
25.80	Top of abrupt ascent,bears N.80°W.and S.80°E.
36.0	Top of ridge,170 ft.above hollow,bears N.80°W.and S.80°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 pinon pine,9 ins.dia.,bears S.982 °E.,68 lks. dist..mkd.¼ S 8 B T.
	A cedar,18 ins.dia.,bears S.59°40'W.,83 lks. dist..mkd.¼ S 7 B T.
	Leave timber and enter sage brush,bears N.70°E.and S.70° W.
	October 3,1911:At this cor.I set off 3°44'S.,on the decl. arc;and at 11 h 49 m a.m.,l.m..t.,I observe the sun on the meridian the resulting lat.is 37°58'N.,which is the proper lat.nearly.
44.00	Leave dense sage and enter heavy timber,bears N.30°W. and S.30°E.
46.10	Trail,bears N.40°E.and S.40°W.
58.00	Rim of Davis canon,top of ledge,30 ft.high,bears N.40°E. and S.40°W.

Sub.T.33 S.,R.20 E.-Contined.-

Chains	
59.00	Foot of ledges,60 ft.below top,bears N.40°E and S.40°W.
63.30	Head of hollow,100 ft.below rim,course N.70°W.
	Asc.
78.00	Top of ridge,80 ft.above hollow,bears N.80°E.and S.80°W
	Desc.
80.00	Note:We have no more 2 in.iron posts and are unable to get more without unreasonable expense and delay;because they would have to be ordered from the Department.
	Set a sandstone,24x12x6 ins.,18 ins.in the ground,for cor.of secs.5,6,7,and 8,mkd.with 5 notches on S.,and 5 notches on E edges;from which
	A pinon pine,10 ins.dia.,bears N.29°30'E.,57 lks.dist.,mkd.T 33 S R 20 E S 5 B T.
	A cedar,14 ins.dia.,bears S.49°15'E.,48 lks. dist..mkd.T 33 S R 20 E S 8 B T.
	A pinonpine,10 ins.dia.,bears S.16°W.,91 lks. dist..mkd.T 33 S R 20 E S 7 B T.
	A pinon pine,7 ins.dia.,bears N.13°W.,30 lks. dist..mkd.T.33 S.,R.20 E S 6 B T.
	Land,mountainous
	Soil,sandy and clay loam and rocky;2nd and 4th rate.
	Subsoil rocky.
	Timber cedar and pinon pine.
	Undergrowth,oak,service berry,and sage brush.
	Good grass
	Mountainous or heavily timberedland,or land covered with dense.undergrowth,80.00 chs.

October 3,1911.

October 4,1911:At 7 h 40 m a.m.,l.m.t.,I set off 37°58'E., on the lat.arc;4°2'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.5,6,7,and 8. Thence I run

S.89°57'E.,on a random line bet.secs.5 and 8.

Chains	
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line,2 lks.N.of the cor.of secs.4,5,8, and 9.
	Thence I run
	N.89°56'W.,on a true line bet.secs.5 and 8..
	over mountainous land;through heavy timber and scattering undergrowth.
	Asc.along side of canon.
5.65	Trail,bears N.80°E.and S.80°W.
12.80	Bottom of canon,100 ft.abqve cor.,bearse N.80°E.
	Asc.abruptly.
21.70	Top of abrupt ascent,ledge,30 ft.high,edge of mesa, 300 ft.above canon,bears N.60°E.and S.80°W.
	Asc:gently over mesa.
34.50	Trail,bears NE and SW.
39.98	Set an iron post;3 ft.long,1 in.in dia.,22 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd:on brass cap ¼ S 5 in N half and S 8 in S half;from which
	A pinon pine,14 ins.dia.,bears N.57°45'E.,44 lks. dist..mkd. S 5 B T.
	A pinon pine,12 ins.dia.,bears S69°W.,32 lks. dist..mkd.¼ S 8 B T.
53.50	Leave heavy timber and enter dense sage brush,beats N.and S.
60.00	Note;from this point a sandstone,14x12x8 ins.above ground, firmly set,and mkd.F.S.S.C.T.33 S.,R.20 E.,on N.,1 groove on N.and 1 groove on W faces with stone 3 ft.base,3 ft. high,on S.,bears N.3°E.,6.25 chs. which suppose is a cor.on the north bdy.of the LaSal Forest Reserve.
67.70	Leave dense sage brush and enter heavy timber,beass N. and S.
78.35	West edge of mesa,top of ledge40 ft.high,bears N.20°E.and S Des.abruptly.
79.96	The cor.of secs.5,6,7,and 8. 100 ft.below mesa.
	Land,mountainous.

Chains	
	Soil,sandy loam 2 to 4 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,oak service berry and sage brush.
	Good grass.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.96 chs.
	October 4,1911:At this cor.I set off 4°07'S.;on the decl. arc;and at 11 h 49 m a.m.,l.m.t.,I observe the sun on the meridian ,the resulting lat.is 37°58'N.,which is the proper lat.near.y.
	S.89°58'W.,on a random line bet.secs.6 and 7.
40.00	Set temp.¼ sec.cor.
78.46	Intersect W.bdy.of Tp.12 lks.S.of the cor.of secs.1,6,7, and 12, heretofore described.
	Thence I run
	S.89°57'E.,on a true line bet.secs.6 and 7.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
4.80	Top of ridge,100 ft.above cor.,bears N.and S.
	Desc.
8.60	Head of hollow,30 ft.below ridge,course N.30°W..
	Asc.
16.60	Top of ridge,300 ft.above hollow,bears NW and SW.
	Desc.
18.20	Red sandstone ledge,20 ft.high,bears N.and S.
38.46	Point 500 ft.below ridge.
	Set an 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 ⁴ half. and S 7 in S half;from which
	A pinon pine,8 ins.dia.,bears N.40°E.,15 lks. dist.,mkd.¼ S 6 P T.
	A pinon pine,6 ins.dia.,bears S.8°E.,57 lks.

Sub.T.33 S. R.20 E.-Continued.

Chains	dist..mkd.½ S 7 B T.
3[illegible].10	Ledge 25 ft.high,bears N.20°W.and S.20°E.
42.70	Trail,bears N.20°W.and S.20°E.
43.30	Ledge,30 ft.high,bears N.10° W.and S.20°E.
51.40	Bottom of Salt Creek,canon,600 ft.below ridge,course N.30°W.
	Asc.abruptly over ledges.
55.80	Ledge30 ft.high,bears NW and SE.
57.10	Trail,bears N.30°W.and S.30°E.
60.20	Ledge,30 ft.high,bears N.and S.
78.46	The cor.of secs.5,6,7,and 8.
	600 ft.above canon.
	Land,mountainous .
	Soil,sandy and rocky;2nd and 4th rate.from 2 ft.3 ft. deep.subsoil;rock.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,sage,and buck brush.
	Good grass.
	Mountainous land,or heavily timbered land,78.46 chs.

October 4,1911.

October 6,1911:At 7 h 48 m a.m.,l.m.t.,I set off 37°58' N.,on the lat.arc;4°49'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.5,6,7,and 8.

Thence I run

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

40.00	Set temp.¼ sec.cor.
80.14	Intersect N.bdy.of Tp.16 lks. W of the cor.of secs.5,6,31 and 32, heretofore described.
	Thence I run
	S.0°04'W.,on a true line bet.secs.5 and 6.
	Over mountainous land;through heavy timber .
	Asc.

Sub. T. 33 S., R. 20 E. - Continued.

Chains.	
4.00	Top of ascent, 20 ft. above cor., bears E. and W.
	Desc.
8.70	Small hollow, 15 ft. below ascent, course N.80°E.
	Asc.
13.70	Trail, bears E. and W.
22.50	Top of ascent, bears E. and W.
23.40	Head of hollow, 30 ft. below ascent, course N.30°E.
30.00	Begin abrupt ascent, bears NE. and SW.
40.14	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 pinon pine, 8 ins. dia., bears S.53°4'E. 8 lks. dist., mkd. ¼ S 5 B T
	A pinon pine, 8 ins. dia., bears S.79°06'W. 53 lks. dist., mkd. ¼ S 6 B T
48.00	Top of abrupt ascent, 40 ft. above ¼ sec. cor., bears E. and W.
50.20	Top of ridge, 200 ft. above ¼ sec. cor., bears N.80°W. and S.80°E.
	Desc.
60.80	Head of hollow, 40 ft. below ridge, course W.
	Asc.
66.20	Top of ridge 65 ft. above hollow, bears E. and W.
	Desc.
69.00	Bottom of hollow, 20 ft. below ridge, course W.
	Asc.
71.00	Top of ridge, 45 ft. above hollow, bears N.60°W. and S. 60°E. Desc.
72.60	Bottom of hollow, 35 ft. below ridge, course N.60°W. Asc.
80.14	The cor. of secs. 5, 6, 7 and 8.
	80 ft. above hollow.
	Land, mountainous.
	Soil, sandy and rocky; 2nd and 4th rate, 2 to 4 ft. deep.
	Subsoil, rocky.

Sub. T. 33 S., R. 20 E. - Continued.

Chains

Timber, cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land, 80.14 chs.

October 6, 1911: At this cor. I set off 4°55'E. on the decl. arc; and at 11 h 48 m a.m.l.m.t., I observe the sun on the meridian, the resulting lat. is 37°58'N., which is the proper lat. nearly.

October 6, 1911.

Eric H. Anderson

U. S. Transitman.

GENERAL DESCRIPTION.

This township is a very high rugged mountainous country there is however, a rolling mountain mesa which occupies most of the eastern tier of sections and one more like a mesa in the northern part of the township, with the exception of some rolling hilly country adjacent to Stevens Canon and the upper part of Davis Canon, the rest of the surface is very rough. The soil ranges from sandy and clay loam to gravelly and rocky, the mesa and higher ridges are underlaid by a solid sandstone formation; and the lower parts by clay, gravelly and rocky formation.

There is a heavy growth of timber covering the major part of the surface, yellow pine predominating in the southern part and pinon pine and cedar in the northern part. A dense growth of oak, service berry, buck brush, larb and sage is found on the higher elevations, and sage on the lower wherever the timber is not too heavy to prevent its growth. The timber and undergrowth both tend to protect and encourage the growth of grass, and there is an excellent range for cattle and sheep therefore afforded.

Small streams of water flow from Mormon Pasture, and from Stevens Canons which join in sec.27 and flow on

entirely through the township. The stream in Davis canon does not in general flow past Sec 20. Small springs are noted in the following sections:36, 31, 32, 30, and 9, and there are some other small springs near the creek in sec 34 and also in sec 29,which were not seen from line. There is no water in Northwestern part,in dry seasons, but some collects in the holes of the rocks,and thus affords some watering places for stock. There is a small spring in the canon in the western part of sec.19 not seen from line.

David L.Goudelock's desert entry occupies a part of secs.34 and 35,and extends into secs.2 and 3,T.34 S.R.20 E.,.His improvements consist of about 1 mile of fence ½ mile of ditch and about 15 acres of cultivated meadow land in this township .Value of improvements $500.00

There are no other settlers in the township.

There are no indications of oil or mineral in the township and it is chiefly valuable for summer grazing purposes.

Scott P. Silcott

Eric H. Anderson

U.S.Transitmen.

October 6,1911.

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BOOK A-387

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.

.....

6—2764 *U. S. Surveyor.*

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..., U. S. Surveyor, do solemnly swear that, in pursuanc 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 Surveyin 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 i the foregoing field notes as having been executed by me, and under my direction; and I do furthe solemnly swear that all the corners of said survey have been established and perpetuated in strict accord ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyo General for ..... and in the specific manner described in the field notes, and tha 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, 191 4

The foregoing field notes of the survey of the Subdivisional lines of Township No. 33 South, Range No. 20 East, of the Salt Lake Base and Merid- ian, 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.

Thomas Reed
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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Filed April 16, 1912.

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BOOK A-387

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FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

O F

TOWNSHIP NO. 34 SOUTH, RANGE NO. 20 EAST.

Of the SLAT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

SCOTT P. STEWART

In the capacity of U. S. ~~Surveyor~~ Transitman, *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 September 22, *1911*

Survey completed October 2, *1911*

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Sub.T.34 S.,R.20E.

Survey commenced September 22,1911,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 in strument 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.

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

At the cor.of secs.1,2,35,and 36,on N.bdy.of Tp.,latitude 37°53'51"N.,longitude 109°43'27"W.,I set off 37°54'N.,on the lat.arc;0°30'N.,on the decl.arc;and at 3 h 53 m p.m. l.m.t.,I determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.

At 7 h 29.9 m p.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.North of the cor.

September 22,1911.

September 23,1911:At 7 h 30 a.m.,l.m.t.,I lay off the azimuth of Polaris 1°28'to the west,and mark the meridian thus determined, by cutting a small groove in the stone already set 5.00 chs.N.of the cor.;this mark falls 0.34 ins.east of the meridian established by the solar.

At 7 h 53 m.a.m.,l.m.t.,a.m. l.m.t.,I set off 37°54'N., on the lat.arc;0°14'N.,on the decl.arc;and mark the meridian determined by the solar,by a cross on the

Chains

stone already set 5.00 chs.N1of the cor.;this mark falls 0.29 ins.east of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'17"west and 0'15"east of the meridian determined by Polaris observation;therefore I conclude ~~that~~ the adjustments of the instruments are satisfactory.

The magnetic bearing of the meridian at 8 h 30 m a.m., N.16°00'W.,the angle thus determined gives the mag. decl.16°00'E.

Note:The reason for surveying a portion of this township was set forth in my letter to the Surveyor General,dated September 24,1911, The essential reason being that the Ella Kingsland D.E.~~entry~~ No.5011 is wholly within this township and the David L.Goudelock D.E .No.4996 extends partly into this township.

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

S.0°01'E.,bet.secs.1 and 2.

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

Asc.

21.00 Trail,bears NW and SE.

24.00 Trail,bears N.70°W.and S.70°E.

28.00 Top of ridge,50 ft.above cor.,bears N.20°E.and S.60°W. Desc.gently.

33.40 Trail,bears N.80°W.and S.80°E.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ⊕ sec.cor..mkd.on brass cap ¼ S 2 in W half and S 1 in E half;from which

A yellow pine,30 ins.dia.,bears S.18°30'E.,76 dist..mkd.¼ S 1 B T.

A yellow pine,30 ins.dia.,bears S.11°30'W.,80

Chains	
	lks.dist..mkd.¼ S 2 B T.
	Continue descent along east side of hollow.
77.00	Trail,bears N.20°W.and S.30°E.
79.60	Wash,10 lks.wide,2 ft.deep,in bottom of hollow,200 ft. below ridge,course S.30°E.
	Asc.
80.00	Note: Our supply of 2 inch iron posts will be exhausted in the survey of T.33 S.,R.20 E.,and we are unable to procure more without unreasonable expense and delay therefor I set stones for the section corners in this township Set ansandstone,28x8x7 ins.,25 ins.in the ground,for cor of secs.1,2,11,and 12,mkd.with 5 notches on S.and 1 notch on E.edges;from which
	An aspen,8 ins.dia.,bears N.28°45'E.,131 lks. dist..mkd.T 34 S R 20 E S 1 B T.
	A yellow pine,36 ins.dia.,bears S.42°30'E.,189 lks.dist..mkd.T 34 S R 20 E S 12 B T.
	An aspen,8 ins.dia.,bears S.34°W.,60 lks. dist..mkd.T 34 S R 20 E S 11 B T.
	An aspen,6 ins.dia.,bears N.53°30'W.,158 lks. dist..mkd.T 34 S R 20 E S 2 B T.
	Land,mountainous.
	Soil, sandy and clay loam and gravelly;2 ft.to 4 ft.deep.
	Subsoil,rocky.
	Timber, yellow pine and aspen.
	Undergrowth,oak.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	September 23,1911:At this cor.I set off 00°16'N.,on the decl.arc;and at 11 h 53 m a.m.,ml.m.t.,I observe the sun on the meridian;the resulting lat.is 37°53'N.,which is the proper lat.nearly.

S.0°01'E.,bet.secs.11 and 12.

Sub.T.34 S.,T.20 E.-Continued.

Chains	
	Over rolling mountainous land; through dense undergrowth and Scattering timber.
	Asc.
9.00	Top of ridge,100 ft.above cor.,bears N.80°W.and S.80°E.
	Desc.
15.40	Trail in bottom of hollow,80 ft.below ridge,course S.80° E.
	Asc.
22.00	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.gently.
40.00	Set an iron post,3 ft.long,1 in.in dia.,18 ins.in the ground,on solid rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 11 in W.half and S 12 in E half;from which
	A yellow pine,18 ins.dia.;bears S.33°E.,58 lks. dist..mkd.¼ S 12 B T.
	A yellow line,26 ins.dia.,bears S.54°30'W.,43 lks.dist..mkd.¼ S 11 B T.
43.20	Begin steeper descent,bears N.80°E.and S.80°W.
48.20	Trail bears N.80°E.and S.80°W.
48.60	Creek,3 lks.wide,2 ins.deep,in bottom of canon, 100 ft. below ridge,course N.80°E. ~~Known as Morrow Pasture Cr.~~
	Asc.
51.10	Top of ridge,40 ft.above canon,bears E.and W.
	Desc.
55.00	Trail,bears N.20°W.and S.20°E.
56.90	Bottom of hollow,30 ft.below ridge,course N.20°W.
	Asc.
57.40	Trail,bears N.20°W.and S.20°E.
62.00	Top of steep ascent,bears N.20°W.and S.20°E.
	Asc.gently.
80.00	Set a white sandstone,20x8x6 ins.,14 ins.in the ground, for cor.of secs.11,12,13,and 14,mkd.with 4 notches on S.and 1 notche on E edges;from which
	A yellow pine,50 ins.dia.,bears N.16°15'E.,104 lks.dist..mkd.T 34 S R 20 E S 12 B T.

Sub.T.34 S.,R.20 E.-Continued.

Chains

A yellow pine,12 ins.dia.,bears S.74°15'E.,106 lks.dist..mkd.T 34 S R 20 E S 13 B T.

A yellow pine,56 ins.dia.,bears S.36°W.,54 lks. dist..mkd.T 34 S R 20 E S 14 B T.

A yellow pine,12 ins.dia.,bears N.48°W.,106 lks. dist..mkd.T 34 S R 20 E S 11 B T.

Note:There is a Prominent white sandstone ridge nearly 500 ft.high about 12.00 chs.east of this cor.,bearing NE and SW.

Land,mountainous .

Soil,sandy and gravelly 2nd rate 1 to 4 ft.deep.

Subsoil,sandstone.

Timber,yellow pine and aspen.

Undergrowth,oak,larb and buck brush.

Good grass for grazing.

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

September 23,1911.

September 25,1911:At 7 h 52 m a.m.,l.m.t.,I set off 37° 54'N.,on the lat.arc;0°33'E.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.2,3, 34,and 35,on N bdy.of Tp., heretofore described.

Thence I run

S.0°01'E.,bet.secs.2 and 3.

Over mountainous land;through dense undergrowth.

Asc.

7.50 Top of ridge,100 ft.above cor.,bears N.80°E.and S.80°W.

Desc.

11.60 Head of hollow,30ft.below ridge,course N.80°E.

Asc.

19.50 Top of ridge,140 ft.above hollow,bears E.and W.

Desc.

20.00 Enter scattering pinon pine and cedar timber,bears E.and W.

Chains	
23.50	Head of hollow,30 ft.below ridge,course E.
	Asc.
29.00	Top of rocky ridge,150 ft.above hollow,bears E.and W.
	Desc.abruptly.
35.00	Foot of abrupt descent,bears N.70°W.and S.70°E.
	Leave scattering timber,bears NE and SW.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for c¼ sec.cor.mkd.on brass cap ¼ S 3 in W half adn S 2 in E half;from which
	A pinon pine,12 ins.dia.,bears N.49°10'W.,430 lks.dist..mkd.¼ S 3 B T.
	Note:No other trees within limits;raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
47.00	Enter broad hollow,300 ft.below ridge,bears N.70°E.and S.70°W.
51.00	Leave hollow,bears N.70°E.and S.70°W. course of hollow N.70°E.
	Asc.abruptly.
60.00	Top of ridge,500 ft.above hollow,bears N.60°E.and S.60° W.
	Desc.abruptly.
61.40	Sandstone ledge,50 ft.high,bears NE and SW.
68.00	Foot of abrupt descent,300 ft.below ridge,enter Mormon Pasture Canon,bears N.20°E.and SW.course of canon,N.20°E.
74.45	Water ditch 2 lks.wide,8 ins.deep,course N.20°E.
75.40	Trail,bears N.20°E.and SW. Leave undergrowth.
	Enter cultivated meadow,bears N.20°E.and SW.
76.45	Leave meadow and enter willows,bears NE and SW.
78.00	Leave willows,bears NE and S.80°W.Enter meadow,bears NE and S.80°W.
80.00	Set a sandstone,18x14x8 ins.,12 ins.in the ground,for cor.of secs.2,3,10,and 11,mkd.with two notches on E. and 5 notches on S edges;from which
	A yellow pine,56 ins.dia.,bears N.63°36'E.,525 lks.dist..mkd.T 34 S R 20 E S 2 B T.
	A yellow pine,60 ins.dia.,bears S.81°30'E.,388

Chains

lks.dist.mkd.T 34 S R 20 E S 11 B T.

No other trees within limits;raise a mound of stone, 3 ft.base,2 ft.high,W.of cor.

Land,mountainous .

Soil,sandy and gravelly loam;1 to 2 ft.deep.subsoil, rocky .

Timber,cedar and pinon pine,and very scattering yellow pine.

Undergrowth,oak,service berry,buck and sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth 76.95 chs.

September 25,1911:At this cor.I set off 0°37'S.,on the decl.arc;and at 11 h 52 m a.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°53'N.,which is the proper lat.nearly..

N.89°57'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.N.of the cor.of secs.1,2,11, and 12.

Thence I run

S.89°58'W.,on a true line bet.secs.2 and 11.

Over mountainous land;through dense undergrowth and scattering timber .

Asc.

6.00 Top of steep ascent,bears NE and SW.

38.10 Trail,bears N.and S.

40.03 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 2 in N half and S 11 in S half;from which

A yellow pine,42 ins.dia.,bears N.77°15'E.,164 lks.dist:.mkd.¼ S 2 B T.

A yellow pine,20 ins.dia:,bears S.4°15'W.,160 lks

Chains lks.dist..mkd.½ S 11 B T.

50.00 Top of broad ridge,300 ft.above sec.cor.,bears N.and S.
Desc.

55.00 Begin more abrupt descent,bears N.20°E.and S.W.

60.50 Top of sandstone,ledge,20 ft.high,bears N.20°E.and S.20°
W.

75.80 Wire fence,bears N.30°E.and S.30°30'W.about 60 lks.thence
SW.
Enter canon bottom,bears same.

77.30 Enter cultivated meadow ,bears NE and SW.

79.40 Creek,3 lks.wide,2 ins.deep,course NE.(Mormon Pasture Cr.

80.06 The cor.of secs.2,3,10,and 11.

Land,mountainous .
Soil,sndy loam 1 to 2 ft.deep,on solid rock.
Timber,cedar,yellow pine.
Undergrowth,oak,larb,and buck brush.
Good grass for grazing.
Mountainous land,or land covered with dense undergrowth,
77.30 chs.

September 25,1911.

September 27,1911:At 7 h 51 m a.m.,l.m.t.,I set off 37°
53'N.,on the lat.arc;1°19'S.,on the decl.arc;and deter-
mine a meridian with the solar,at the cor.of secs.2,3,
10,and 11.
Thence I run
S.0°01'E.,bet.secs.10 and 11.
Over canon bottom ;through meadow.
Asc.gently.

.40 Creek,2 lks.wide,1 in.deep,course N.20°E.(Mormon Pasture

2.20 Leave Meadow,bears NE and SW.

4.10 Fence,bears N.48°E.and S.48°W.
Enter dense undergrowth,bears NE and SW.
Leave canon bottom .and Asc.

4.30 Trail bears N.48°E.and S.48°W.

Sub.T.34 S.,R.20 E.-Continued.

Chains	
12.00	Enter scattering cedar pinon pine,and yellow pine timber bears NE and S.20°W.
23.20	Top of ridge,400 ft.above canon,bears E.and W. Desc.
27.40	Bottom of hollow,100 ft.below ridge,course S.80°W. Asc.
31.20	Top of ridge,50 ft.above hollow,bears E.and W. Desc.
34.80	Bottom of hollow,50 ft.below ridge,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 10 in W half and S 11 in E half;from which The west face of a sand ledge,10x10x8 ft.exposed bears S.66°30'E.,17 lks.dist..mkd.X B O S 11. A yellow pine,26 ins.dia.,bears N.36°W.,83 lks dist..mkd.¼ S 10 B T.
	Note:From this cor.A collection of small springs in canon,bears N.70°W.,about 13.00 chs.dist.
53.00	Top of ridge,300 ft.above hollow,bears E.and W. Desc.
59.40	Trail,bears NE and S.
61.40	Trail,bears E.and W and N. Bottom of hollow,60 ft.below ridge,course W. Asc.
70.00	Top of ridge,60 ft.above hollow,bears NE and SW. Desc.
77.90	Trail,bears N.20°E.and S.20°W.
79.85	Same trail,bears N.20°W.and S.20°E.
80.00	Set a sandstone,18x12x6 ins.12 ins.in the ground,for cor.of secs.10,11,14,and 15,mkd.with two notches on E and four notches on S edges;from which A yellow pine,14 ins.dia.,bears N.78°30'E.,360 dist..mkd.T 34 S R 20 E S 11 B T. A yellow pine,24 ins.dia.,bears S.43°45'E.,117 lks.dist..mkd.T 34 S R 20 E S 14 B T.

Sub.T.34 S.,R.20 E.-Continued.

Chains	
	A yellow pine,36 ins.dia.,bears S.79°W.,149 lks. dist..mkd.T 34 S R 20 E S 16 B T.
	A yellow pine,40 ins.dia.,bears N.58°30'W.,109 lks.dist..mkd.T 34 S R 20 E S 10 B T.
	Land, mountainous .
	Soil,sandy 1 to 4 ft.deep.
	Subsoil rocky.
	Timber,cedar and pinon pine on north half and yellow pine on south half.
	Underprowth,oak,buck brush,and larb.
	Good gras for grazing.
	Mountainous land,or land covered with dense undergrowth 80.00 chs.
	September 27,1911:At the noon hour the sky is overcast and solar observations are impossible.
	Rain prevents further work this day.
	September 27,1911.
	September 28,1911:At 7 h 50 m a.m.l.m.t.,I set off 37° 52'N.,on the lat.arc;1°43'S:,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.
80.00	Intersect N.and S.line,5 lks.N.of the cor.of secs. 11,12,13,and 14.
	Thence I run
	West,on a true line bet.secs.11,and 14.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
8.20	Wash,20 lks.wide,6 ft.deep,in hollow,20 ft.below cor.,cour N.60°W.

Sub.T.34 S.,R.20 E.-Continued.

Chains	
10.60	Top of ridge,20 ft.above hollow,bears NW and SE.
	Desc.
12.60	Wash,20 lks.wide,6 ft.deep,in bottom of hollow,25 ft. below ridge,course N.xxxxxxxxxxxxxxxxx
	Asc.
13.00	Trail,bears E.and S.
38.00	Begin steep ascent over ledges,bears N.and S.
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 11 in N half and S 14 in S half;from which:
	A yellow pine,12 ins.dia.,bears N.20°W.,102 lks. dist..mkd.¼ S 11 B T.
	A yellow pine,6 ins.dia.,bears S.64°40'W.,26 lks. dist..mkd.¼ S 14 B T.
45.50	Top of sandstone ledge,30 ft.high,on top of ridge,250 ft above hollow,bears NE and SW.
	Leave ledges,bears NE andSW.
	Desc.
58.60	Bottom of hollow,300 ft.below ridge,course N.30°E.
	Asc.
63.00	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
65.00	Bottom of hollow,20 ft.below ridge,course N.60°E.
	Asc.
	Trail,bears N.60°E.and S.60°W.
71.40	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
74.50	Trail,bears NE and SW.
77.80	Trail,bears N.20°E.and S.20°W.
79.92	Trail,bears N.20°W.and S.20°E.
80.00	The cor.of secs.10,11,14,and 15.
	Land,mountainous
	Soil,sandy 2nd rate 1 to 2 ft.deep,on solid rock.
	Timber,yellow pine.
	Undergrowth,oak.

Chains	
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	September 28,1911:At the noon hour the sky is overcast
	and solar observations are impossible.
	Heavy rais prevent further work this day.
	September 28,1911.

	September 30,1911:At 7 h 50 m a.m.,l.m.t.,I set off
	37°54'N.,on the lat.arc;2°30'S.,on the decl.arc;and
	determine a meridian with the solar,at the cor.of secs.
	3,4,33,and 34,on N bdy.of Tp.,heretofore described.
	Thence I run
	S.0°02'E.,bet.secs.3 and 4.
	Over mountainous land;through scattering timber and
	dense undergrowth.
	Desc.
20.30	Bottom of hollow,200 ft.below cor.,course N.60°E.
	Trail in bottom.
	Asc.
30.50	Top of ridge,200 ft.above hollow,bears NE.and S.20°W.
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the
	ground,solid rock,and surrounded by mound of stone,
	for ¼ sec.cor..mkd.on brass cap ¼ S 4 in W half and S.
	3 in E half;from which
	A yellow pine,30 ins.dia.,bears S.81°E.,47 lks.
	dist..mkd.¼ S 3 B T.
	A yellow pine,40 ins.dia.,bears S.60°15'W.,220
	lks.dist..mkd.¼ S 4 B T.
45.00	Bottom of hollow,100 ft.below ridge,course E.,10.00 chs.
	thence NE.
	Asc.
46.30	Trail,bears NW and SE.

Chains

54.00 Top of ridge,40 ft.above hollow,bears West and East 10.00 chs.;thence N.60°E.

Desc.

74.80 Head of canon,100 ft.below ridge,course N.70°E.,about 10. chs.thence about N.60°E.to Mormon Pasture Canon.

Asc.

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

Desc.

80.00 Set a red sandstone,18x12x6 ins.,12 ins.in the ground,for cor.of secs.3,4,9,and 10,mkd.with 5 notches on S and 3 notches on E.edges;from which

A yellow pine,12 ins.dia.,bears N.59°E.,110 lks. dist..mkd.T 34 S R 20 E S 3 B T.

A yellow pine,8 ins.dia.,bears S.67°40'E.,163 lks. dist..mkd.T 34 S R 20 E S 10 B T.

A yellow pine,30 ins.dia.,bears S.28°W.,66 lks. dist..mkd.T 34 S R 20 E S 9 B T.

A yellow pine,36 ins.dia.,bears N.84°30'W.,283 lks.dist..mkd.T 34 S R 20 E S 4 B T.

Land,mountainous.

Soil,sandy and gravelly;2nd rate.on solid rock.

Timber,yellow pine,cedar and pinon pine.

Undergrowth,oak,service berry,and bitter brush.

Good grass for grazing.

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

September 30,1911:At this cor.I set off 2°34'S.,on the decl.arc;and at 11 h 50 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°53'N.,which is the proper lat.nearly.

N.89°57'E.,on a random line bet.secs.3 and 10.

40.00 Set temp.$\frac{1}{2}$ sec.cor.

79.77 Intersect N.and S.line,7 lks.N.of the cor.of secs.2,3,10, and 11.

Sub.T.34 S.,R.20 E.-Continued.

Chains

Thence I run

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

Over rolling land in canon bottom;through meadow and scattering willows.

Desc.gently.

8.05 Fence,bears N.10°E.and S.10°W.

:Leave meadow,bears N.10°E.and S.10°W.

8.10 Water ditch,2 lks.wide,8 ins.deep,course NE.

9.50 East side of corral,bears N.and S.

10.30 West side,Of corral,bears N.and S.

Note:A fence extends N.20°E.and S.10°W.from this corral.

12.50 Note:From this point the dam of a reservoir,1.00chs.in dia.,4 ft.deep,bears S.60°E.1.45 chs.dist.

A spring of excellent water flowing about one twentieth cu.ft.per sec.bears S.39°15'W.,90 lks.dist.

The southeast cor.of a log house consisting of two rooms with shed between bears N.59°W.,115 lks.dist.

The northeasr cor.of an old cellar bears N. 76°W.,115 lks.dist.

The southwest corner of a fence bears S.36°E.,about 7.00 chs.dist.

These improvements are all on the Ella Kingsland D.E. No.5011.

14.00 Leave canon bottom ,bears N.and S.

Asc. through dense undergrowth.

21.00 Top of ridge,100 ft.above canon bottom,bears N.and S.

Desc.

33.30 Trail,bears N.70°E.and SW.

34.00 Wash,10 lks.wide,4 ft.deep,in bottom of canon,40 ft.below ridge,course N.70°E.

Asc.

34.35 Trail,bears N.70°E.and SW.

39.88½ Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 3 in N half. and S 10 in S half;from which

A pinon pine,10 ind.ad. bears N.13°45'W.,238 lks.dist..mkd.¼ S 3 B T.

Chains	
	An oak,4 ins.dia.,bears S.13°45'E.,93 lks. dist..mkd.$\frac{1}{4}$ S 10 B T.
45.00	Begin abrupt ascent over ledges,bears NE and SW.
	Enter pinon pine andcedar timber. (heavy)
56.00	Top of ridge,500 ft.above canon,bears NE and S.60°W.
	Leave heavy cedar and pinon pine and enter scattering yellow pine timber,bears NE and S.60°W.
	Desc.
63.50	Head of hollow,30 ft.below ridge,course N.
	Asc.
70.00	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
72.00	Head of canon,40 ft.below ridge,course NE.
	Asc.
79.00	Top of ridge,30 ft.above canon,bears N.80°W.and S.80°E.
	Desc.
79.77	The cor.of secs.3,4,9,and 10.
	Land,mountainous.
	Soil,sandy and clay loam;2nd rate.1 to 2 ft.deep.
	Timber,cedar pinon pine,and yellow pine.
	Good grass for grazing.
	Undergrowth,oak,choke cherry,and service berry.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.77 chs.

September 30,1911.

October 2,1911:At 7 h 50 m a.m.,l.m.t.,I set off 37°53' N.,on the lat.arc;3°16'S.,on the decl.arc;and determine a meridian with the solar;at the cor.of secs.3,4,9,and 10.

Thence I run

S.0°02'E.,bet.secs.9 and 10.

Over mountainous land;through dense undergrowth and scattering timber.

Desc.

Chains	
12.45	Bottom of hollow,140 ft.below cor.,course S.60°E.
	Asc.
15.35	Trail,bears N.60°W.and S.60°E.
17.60	Top of ridge,80 ft.above hollow,bears N.60°W.and S.60°E.
	Desc.
24.65	Trail,bears N.60°E.and S.60°W.
24.90	Wash,10 lks.wide,3 ft.deep,in bottom of canon,150 ft. below ridge,course N.60°E.
	Asc.
32.10	Top of steep ascent,bears N.60°E.and S.60°W.
40.00	Top of ridge,200 ft.above canon,bears E.and W.
	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 9 in W half and S 10 in E half;from which
	A yellow pine,40 ins.dia.,bears S.72°20'E.,193 lks.dist..mkd.¼ S 10 B T.
	A yellow pine,50 ins.dia.,bears S.75°40'W.,276 lks.dist..mkd.¼ S 9 B T.
48.00	Begin abrupt descent,bears N.80°W.and S.80°E.
55.00	Bottom of hollow,100 ft.below ridge,course S.70°E.
	Asc.
58.50	Top of ridge,60 ft.above hollow,bears N.80°W.and S.80°E.
	Desc.
67.00	Bottom of canon,400 ft.below ridge,course E.
	Asc.abruptly.
78.00	Top of abrupt ascent,bears N.80°W.and E.
80.00	Point 300 ft.above canon.
	Set a sandstone,20x12x7 ins.,15 ins.in the ground,for cor.of secs.9,10,15,and 16,mkd.with 4 notches on S and 3 notches on E edges;from which
	A yellow pine,12 ins.dia.,bears N.46°30'E.,70 lks.dist..mkd.T 34 S R 20 E S 10 B T.
	A yellow pine,36 ins.dia.,bears S.28°45'E.,29 lks.dist..mkd.T 34 S R 20 E S 15 B T.
	A yellow pine,47 ins.dia.,bears S.83°45'W.,465 lks.dist..mkd.T 34 S R 20 E S 16 B T.

Sub.T.34 S.,R.20 E.-Continued.

Chains	
	A yellow pine,42 ins.dia.,bears N.54°45'W.,196 lks.dist..mkd.T 34 S R 20 E S 9 B T.
	Land,mountainous.
	Soil,sandy and gravelly;2nd rate. 2 to 4 ft.deep.on solid rock.
	Timber,yellow pine.
	Undergrowth,oak,buck brush,service berry and larb.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth
	80.00 chs.
	October 2,1911:At this cor.I set off 3°21'S.,on the decl. arc;and at 11 h 50 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°52'N.,which is the proper lat.nearly.
	East,on a random line bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
79.94	Intersect N.and S.line,5 lks.S.of the cor.of secs.10,11, 14,and 15.
	Thence I run
	S.89°58'W.,on a true line bet.secs.10 and 15.
	Over mountainous land;through dense undergrowth and scattering timber.
	Asc.gently.
6.00	Top of ridge,30 ft.above cor.,bears N.30°E.and S.30°W.
	Desc.
14.00	Trail,bears N.W.and SE.
14.10	Bottom of hollow,150 ft.below ridge,course NW.
	Asc.
14.20	Leave scattering timber,bears NW and SE.
21.00	Top of ridge,100 ft.above hollow,bears N.20°W.and S.20°E
	Desc.abruptly.
32.30	Wash,10 lks.wide,3 ft.deep,in bottom of Mormon Pasture Canon,400 ft.below ridge,course N.20°E.
	Note:There is a spring about 12.00 chs.down the canon. at junction of canon from west.

Chains	
	Asc.
39.92	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 ½ S 10 in N Half and S 15 in S half;from which
	A pinon pine,16 ins.dia.,bears N.38°W.,124 lks dist..mkd.½ S 10 B T.
	No other trees within limitslraise a moundof stone, 2 ft.base,2½ft.high,N.of cor.
41.00	Enter scattering timber,bears N.and S.
46.75	Top of ridge,450 ft.above canon,bears N.30°E.and S.30°W.
	Desc.
57.40	Trail,in bottom of hollow,30 ft.below ridge,course N.20°E
	Asc.gently.
61.10	Trail,bears N.80°E.and S.80°W.
79.94	The cor.of secs.9,10,15,and 16.
	Land,mountainous l
	Soil,sandy clay and gravelly loam;1 to 4 ft.deep,on solid rock.
	Timber,cedar,pinon pin , and yellow.
	Undergrowth,oak,service berry buck brush and larbl.
	Good grass for grazing.
	Mountainous land ,or land covered with dense undergrowt
	79.94 chs.

October 2,1911

U.S.Transitman:

General Description.

This fractional township is all high rough mountainous land except the land along the bottom of the Mormon Pasture Canon,which is gently rolling.The soil is in general a sandy and gravelly loam,underlaid with solid sand stone formation,however in the canons there is a sandy and clay soil ,with a clay subsoil.

Sub T.34 S? R.20 E.-Continued.

There is a heavy growth of undergrowth consisting of oak,serviceberry,buck brush,larb,and choke cherry,covering the entire township,excepting the cultivated portion.

The greater part of the land is covered with scattering yellow pine timber,with groves of pinon pine and cedar on some of the steeper slopes.

The Mormon Pasture Creek is fed from a number of springs already mentioned in sec.10, and flows on through the corner of sec.11,and through sec.2.There is another small spring brahch in the southeastern part of sec.11. These springs furnish plenty of water for grazing purposes,

The David L Goudelock D.E. No.4996,extends from T. 33 S.R 20 E.,into the North half of Sec.2.,and there is about 15 acres of cultivated meadow,with a dithh on each side in this section. Value of these improvements about $60.00. The Ella Kingsland D.E.No 5011 lies mostly in Sec.2,but extends into secs.3,10,and 11. Trere is about 40 acres of cultivated meadow,about a mile of ditch, about a half mile of fencing,two corrals,and a two room log house,and also a small reservoir,for improvements on this D.E. Value ,about value about $600.00.

There are no other settlers in the township,and no indications of oil,or mineral.

The unsurveyed portion of this township is a very rough and rugged mountain couhtry,valuable only for grazing purposes. It will be difficult and expensive to survey, because of the character of the surface and the distance from a base of supplies.

Scott P. Stewart
U.S.Transitman.

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CERTIFICATE OF ASSISTANTS.

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

For certificate of assistants see book "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 pursuanc
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 Surveyin
Instructions, and the laws of the United States, surveyed all those parts or portions of _____
_____
_____
For final oath of Transitman see book "M" T.33 S., R.21 E.
_____
_____ of the _____
_____ Meridian, in the State of _____, which are represented i
the foregoing field notes as having been executed by me, and under my direction; and I do furth
solemnly swear that all the corners of said survey have been established and perpetuated in strict accor
ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyo
General for _____ and in the specific manner described in the field notes, and th
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, 191 4

The foregoing field notes of the survey of Subdivisional lines of Township No.
34 South, Range No. 20 East, of the Salt Lake Base and Meridian,
Utah,
_____
_____
_____
_____
executed by Scott P. Stewart
under his special instructions dated March 27, 1911, having be
critically examined, and the necessary corrections and explanations made, the said field notes, and t
surveys they describe, are hereby approved.

Thomas Reed
_____
U. S. Surveyor General.

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

_____
U. S. Surveyor General.

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4—679

BOOK A-387

L.

H.F.W.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO.32 SOUTH,RANGE NO.20 EAST

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

SCOTT P. STEWART

In the capacity of U. S. Transitman *Surveyor, 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 October 4, 1911.

Survey completed October 11, 1911.

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BOOK A-387

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

Chains

Survey commenced October4,1911,and executed with a W.and E.E.Gurley light mountaintransit No.956,with solar attachment.The horizontal limb is provided with two double verniers placed opposit 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.

At the cor.of secs.4,5,32,and 33 on S.bdy.of Tp.,latitude 37°59 '04"N.,longitude 109°46'44"W.,At 0 h 40.7 m a.m., l.m.t.,I observe Polaris at upper culmination,in accordance with the manual,and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor. At 7 h 49 m a.m.,l.m.t.,I set off 37°59'N.,on the lat. arc;4°01'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.4,5,32,and 33,and mark a point thereof on the stone already set 5.00 chs. N.of the cor.;this mark falls 0.29 ins.east of the meridia.,established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

Note:For complete observation and test of instrument see notes of sub.T.34 S.,R.20 E.,September 22,and 23rd.

From the cor.of secs.4,5,32,and 33, heretofore described I run

N.0°03'W.,bet.secs.32 and 33.

Over mountainous land;through heavy timber.

Desc.

1.50 Head of hollow,30 ft.below cor.,course N.60°E.

Asc.

3.50 Top of ridge,40 ft.above hollow,bears N.60°E.and S.60°W.

Desc.

8.00 Bottom of hollow,30 ft.below ridge,course NE.

Sub.T.32 S.,R.20 E.-Continued.

Chains	
	Asc.
9.20	Top of ridge,20 ft.a ove hollow,bears NE and SW.
	Desc.
11.00	Bottom of hollow,20 ft.below ridge,course N.60°E.
	Asc.
18.00	Top of ridge,35 ft.above hollow,bears N.60°E.and S.60°W.
	Desc.abruptly over ledges.
20.00	Falls on sloping sand ledge therefore I mark a cross (x) at the exact cor.point and at
40.35	Foot of ledge 50 ft.high,and 290 ft.below ridge,bears NE and SW.
	Set an iron post3ft.long,1 in.in dia.,26 ins.in the ground,for Witness cor.to ½ sec.cor..mkd.on brass cap T 32 S R 20 E W C ½ S 32 in W half and S 33 in E half; in N half
	From which
	A pinon pine,10 ins.dia.,bears N.41°30'E.,35 lks. dist..mkd.W C ½ S 33 B T.
	A pinon pine,7 ins.dia.,bears S.78°30'W.,102 lks. dist;mkd.W C ½ S 32 B T.
47.00	Foot of ledges,350 ft.below top ,bears N.65°E.and SW.
49.50	Head of hollow,30 ft.below ledges,course NE.
	Asc.
52.00	Top of ridge,30 ft.above hollow,bears NE and SW.
	Trail on top bears same.
	Desc.
53.00	Bottom of canon,60 ft.below ridge,course NE.
	Asc.abruptly over ledges.
62.90	Foot of sloping ledges,150 ft.high,bears NE and SW.
66.70	Foot of perpendicular ledge,70 ft.high,bears N.10°E. and S.20°W.
79.40	Gully 15 ft.deep,in solid sandstone.,course E.
	Asc.
80.00	We have no more 2 in.iron posts as already explained therefore I
	Set a sandstone,24x14x4 ins.,15 ins.in the ground,for cor.of secs.28,29,32,and 33,mkd.with 1 notch on S.,and

Chains

4 notches on E.edges;from which

A pinon pine,7 ins.dia.,bears N.58°30'E.,12 lks.d

dist..mkd.T.32 S R 20 E.,S 28 B T.

A pinon pine,14 ins.dia.,bears S.6°3'E.,92 lks.

dist..mkd.T 32 S R 20 E S 33 B T.

A cedar,12 ins.dia.,bears S.12°15'W.,100 lks.

dist..mkd.T 32 S R 20 E S 32 B T.

A cedar,6 ins.dia.,bears N.47°W.,49 lks.

dist..mkd.T.32 S R 20 E S 29 B T.

Land,mountainous.

Soil,sandy 1 to 3 ft.deep,on solid rock.

Timber,cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

October 4,1911:At this cor.I set off 4°09'S.,on the decl. arc;and at 11 h 49 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°03'W.,bet.secs.28 and 29.

Over mountainous land;through scattering timber.

Asc.over ledges.

2.10 Top of asandstone ridge or ledge,100 ft.high,bears E.and W.

Desc.

4.00 Gully in solid rock,80 ft.below ridge,course E.

Asc.

6.00 Sandstone ledge,50 ft. wide,and 30 ft.high,bears E.and W.

8.00 Bottom of hollow,80 ft.bel w ledges,course E.

Asc.

12.00 Top of sand ledge,40 ft.above hollow,bears E.and W.

Desc.

15.20 Head of hollow,100 ft.below ledge,course E.

Asc.

20.30 Top of sandstone ledge or ridge,100 ft.above hollow,bears

Sub.T.32.S.,R.20 E.-Continued.

Chains	
	E.and W.
	Desc.
25.70	Head of hollow,in solid rock,200 ft.below ridge,course E.
	Asc.
28.00	Point of ledge,40 ft.high,bears E.and W.
	Desc.over sloping ledges.
40.00	Falls on smooth sandstone ledge,I mark a cross (x)at the cor.point and at
42.80	Foot of ledge,bears E.and W.
	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on rock,and surrouned by mound of stone,for witness cor.to $\frac{1}{4}$ sec.cor.mkd.on brass cap T 32 S R 20 E in N half; W C $\frac{1}{4}$ S 29 in W half;and S 28 in E half;from which
	A pin n pine,10 ins.dia.,bears S.62°15'E.,62 lks. dist..mkd.W C $\frac{1}{4}$.S 28 B T.
	A pinon.pine,12 ins.dia.,bears N.9°30'W.,25 lks. dist..mkd.W C $\frac{1}{4}$ S 29 B T.
46.10	Foot of descent,leave timber,and enter dense sage and oak brush,bears N.70°W.and SE.
	Enter bottom of branch of Salt Creek Canon.
48.30	Trail,bears N.55°W.and S.55°E.
49.30	Trail,bears N.55°W.and S.55°E.
54.10	Trail,bears N.55°W.and S.55°E.
55.80	Enter dense oak brush,bears E.and W.
59.95	North edge of canon bottom,and foot of insuperable ledges, bears E.and S.60°W.,
	It is impossible to chain or triangulate farther;therefore in order to offset I return to
54.70	West 9.05 chs. At 4.40 Trail,bears N.60°W.and S.60°E.
	At 6.80 chs.trail,bears NW and SE.
	Thence on offset N.0°03'W., 25.30 chs.along canon bottom.
	At 2.40 chs.Trail,bears NW.and SE.
	At 3.95 Trail,bears NW and SE.
	At 23.70 chs.Leave canon,asc.over ledges,bea
	bears NW and SE.
	Thence East 905 lks. to sec.lihemaking

Chains

80.00 Point for cor.of secs.20,21,28,and 29,falls on sloping ledge cannot be set.;therefore I mark a cross at the exact point for cor.and at.

80.20 Set a sandstone,24x12x9 ins.,16 ins.in the ground,for cor. witness cor.to cor.of secs.20,21,28,and 29,mkd.with 2 notches on S and 4 notches on E edges;and W C in NE face; from which

A pinon pine,12.ins.dia. ,bears N.79°E.,51 lks. dist..mkd.W C T 32 S R 20 E S 21 B T.

A cedar,5.ins.dia.,bears S.63°45'W.,148 lks. dist..mkd.W C T 32 S R 20 E S 29 B T.

A cedar,12 ins.dia.,bears N. 78°30'W.,73 lks. dist..mkd.W C T 32 S R 20 E S 20 B T.

No other tree within limits;raise a mound of stone 2 ft. base,1½ ftlhigh, .W of cor.

Land,mountainous very rough.

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

Timber,cedar.and pinon pinel

Undergrowth,sage and oak brush.

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

October 4,1911.

October 6,1911:At 7 h 48 m a.m.,l.m.t.,I set off 38°01' N.,on the dat.arc;4°49'S.,on the decl.arc;and determine a meridian with the solar,at the point for cor.of secs. 20,21,28,and 29 which is 20 lks.S.of the witness cor.

Note:It is impossible to chain or triangulate north bet. secs.20 and 21 on account of insurmountable ledges.

Therefore I offset as follows:

West 25.00 chs.;thence on offset

N.0°03'W., 35.70 chs.At 1.40 chs.Enter meadow ,bears N. W.and SE.in branch of Little Salt Creek Canon.

At 12.60 chs.Trail,bears NW and SE.

Chains

At 24.30 Leave meadow and canon, bears NW and S.20°E. Asc. over sloping sandstone ledges.

At 26.30 Top of ridge, 40 ft. above canon, bears E. and W. Desc.

At 27.30 Bottom of hollow, 30 ft. below ridge course W.

At 35.70 chs. Top of smooth sandstone ledge, 200 ft. above hollow, bears N.70°W. and S.70°E.

Thence offset East 25.00 chs.

At 4.50 Head of hollow, 130 ft. below ridge, course N. Asc.

At 9.00 Top of ridge, 100 ft. above hollow, bears N. and S. Desc.

At 25.00 chs. point on sec. line bet. secs. 20 and 21; 35.70 chs. N. of sec. cor. point.

Note: At 5.50 chs. south of this point is the foot of insurmountable ledges, bears N.80°W. and S.80°E.

Thence N.0°03'W. bet. secs. 20 and 21. 4.30 chs. making

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

A cedar, 6 ins. dia., bears N.71°E., 78 lks. dist. mkd. ¼ S 21 B T.

A pinon pine, 14 ins. dia., bears N.87°W., 475 lks. dist. mkd. ¼ S 20 B T.

Note: A natural arch of bridge of about 120 ft. span and 80 ft. high, bears N.63°05'W., about 1½ miles dist.

Note: At a point 11.20 chs. north of this cor. is the foot of ledges 300 ftl high, impossible to chain or triangulate fatther; therefore to continue the line north I return to the offset line 25.00 chs. west of sec. line and 35.70 chs. north of point for cor. of secs. 20, 21, 28, and 29, and continue on offset line

N.0°03'W., 44.30 chs. Desc. through scattering timber and

Sub.T.32 S.,R.20 E.-Continued.

Chains

undergrowth.Over sand ledges.

At 25.16 chs.point on sandstone ridge, bears N.20°E.and S.20°W.From this point the north east cor.of a hewed log cabin claimed by L.Peachman bears S.86°W.,4.58 chs.

At 27.10 chs.Leave ledges,bears E.and W.

At 27.20 chs.Trail,bears E.and W.

Leave scattering timber,enter dense undergrowth,bears E.and W.

At 34.90 Taih,bears NE and SW.

At 38.25 chs.Wire fence crossing canon, bears N.62°W.and S.62°E.

At 38.50 chs.Trail,bears E.and W.

At 41.40 chs.Salt Creek,3 lks.wide,2 in Deep,in Salt Creek Canon,in wash, 70 lks.wide,15 ft.deep,course NE.

At 43.60 Same Creek in wash,3 lks.wide, 2 ins.deep,course N.10°W.

At 44.30 chs.making altogether

80.00 Offset east 20.13 chs.to foot of ledge,200 ft.high,bears N,70°W.and S.70°E. Impossible to chain or triangulate farther ;Therefore at this point I Set a sandstone,24x8x6 ins.,18 ins.in the ground,mkd. for cor.of secs.16,17,20and 21 with 3 notches on S and 4 notches on E edges and WC on NE.face;from which

The face of 200 ft.ledge,bears N.46°30'E.,8 lks. dist..mkd.X B 0 S 16 .

Same ledge,bears N.72°30'W.,47 lks. mkd.X B 0.S 17.

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

Note:In order to set a witness cor.on the north and south sec.line I offset from this witness cor. S.0°03'E.,6.55 chs.thence East 4.87 chs.to sec.line;80.00 - 6.55 makes distance from south

Chains

73.45 point on sec.line bet.secs.20 and 21;at foot of sandstone ledge 200 ft.high,bears N.80°W.and S.80°E.

Set ansandstone,16x8x8 ins.,12 ins.in the ground,for witness cor.to cor.of secs.16,17,20,and 21,mkd.with 3 notches on S and 4 notches on E edges;and W.C.on NE face;from which

The face of 200 ft.ledge,bears N.57°E.,13 lks. dist..mkd.X B O DS 21

A cedar,6 ins.dia.,bears S.6°15'E.,200 lks. dist..mkd.W C T 32 S R 20 E S 21 B T.

A cedar,6 ins.dia.,bears S16°30'W.,191 lks. dist.mkd.T 32 S R 20 E S 20 B T.

The face of 200 ft.ledge,bears N.31°30'W.,20 lk dist ;mkd.X B O S 17 .

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

80.00 Point on inaccessable ledges.

Land,mountainous very rough.

Soil,sandy except on ledges.1 to 2 ft.deep.Most of the mile is smooth sandstone surfaces without soil and without vegetation.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass in patches.

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

October 6,1911.

October 7,1911:At 7 h 48 m a.m.m.t.,I set off 38°59' N.onthe lat.arc;5°12'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.5,6,31,and 32, on S.bdy.of Tp.,heretofore described.

Thence I run

N.0°03'W.,bet.secs.31 and 32.

Over mountainous land;through heavy timber and scatteri

Chains	
	undergrowth.
	Desc.
2.90	Ledge,30 ft.high,bears E.and W.
7.00	Head of hollow,150 ft.below ledges,course NE.
	Asc.gently.
18.50	Trail,bears NE and SW.
22.00	Top of ridge,40 ft.above hollow,bears N.70°E.and S.70°W.
	Desc.gently.
36.90	Begin abrupt descent over ledges,bears E.and W.
39.50	Foot of ledges,leave heavy and enter scattering timber bears E.and W.
40.00	Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on rock,and surrounded by mound of stone, for ¼ sec.cor..mkd.on brass cap ¼ S 31 in W half and S 32 in E half;from which
	A pinon pine,7 ins.dia.,bears N.82°40'E.,24 lks. dist..mkd.¼ S 32 B T.
	A pinon pine,5 ins.dia.,bears S.50°W.,26 lks. dist..mkd.¼ S 31 B T.
45.60	Bottom of canon,350 ft.below ridge,course NW.
	Asc.over ledges.
56.00	Top of ridge,and ledges,250 ft.above canon,bears E.and W.
	Desc.over ledges.
62.00	Enter heavy timber,bears E.and W.
76.90	Begin more abrupt descent ,bears E.and W.
80.00	Set a sandstone,18x9x7 ins.,12 ins.in the ground,for cor.of secs.29,30,31,and 32,mkd.with 1 notch on S.,and 5 notches on E. edges;from which
	A pinon pine,5 ins.dia.,bears N.48°30'E.,70 lks. dist..mkd.T 32 S R 20 E S 29 B T.
	A sand ledges,4 feet high,bears S.80°15'E.,13 lks.dist..mkd.X B O S 32
	A pinon pine,6 ins.dia.,bears S.80°30'W.,33 lks. dist..mkd.T 32 S R 20 E S 31 B T.
	A pinon pine,8 ins.dia.,bears N.6°30'W.,12 lks. dist..mkd.T 32 S R 20 E S 30 B T.

Set.T.32 S.,R.20 E.-Continued.

Chains Land,mountainous.Very rough.

Soil,sandy 1 to 2 ft.deep,subsoil,sandstone.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

October 7,1911:At this cor I set off 5°17'S.,on the decl. arc;and at 11 h 48 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 39°00'N.,which is the proper lat.nearly.

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

40.00 Set temp.¼ sec.cor.

78.90 Intersect N.and S.line,9 lks.S.of the cor.of secs.28,29, 32,and 33.

Thence I run

S.89°30'W.,on a true line bet.secs.29 and 32.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.

27.70 Top of ascent,500 ft.above cor.,bears N.30°W.and S.30°E.

Thence over mesa.

39.95 Set an iron post;3 ft.long,1 in.in dia.,18 ins.in the ground,on rock,and surrounded by mound of stone,2 for ¼ sec.cor..mkd.on brass cap ¼ S.29 in N half and S 32 in South half;from which

A pinon pine,10 ins.dia.,bears N.34°40'E.,49 lks. dist..mkd.¼ S 29 B T.

A pinon pine,12 ins.dia.,bears S.34°45'W.,24 lks. dist.mkd.¼ S 32 B T.

43.00 Leave mesa,bears NE and SW.

Desc.over ledges.

51.00 Foot of ledges,bears NE and SW.

63.00 Trail,bears NE and SW.

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

Sub.T.32 S.,R.20 E.-Continued.

Chains	
79.90	The cor.of secs.29,30,31,and 32.
	Land,mountainous and high mesa.
	Soil,sandy loam;2nd rate.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,79.90 chs.

October 7,1911.

October 9,1911:At 7 h 48 m a.m.,l.m.t.,I set off 38°00' N.,on the lat.arc;5°58'S.,on the decl.arc;and determine a meridian with the solar at the cor.of secs.29,30,31, and 32.

Thence I run

N.0°03'W.,bwt.secs.29 and 30.

Over mountainous land;through scattering timber.

Desc.over sloping ledges.

4.75	Head of hollow,in solid rock,200 ft.below cor.,course W.
	Asc.
20.00	Leave ledges,bears E.and W.
22.00	Top of ridge,200 ft.above hollow,bears N.60°W.and S.60°E.
	Desc.over ledges.
28.00	Head of hollow,in solid sandstone,200 ft.below ridge,course W.
	Asc.
31.00	Top of ridge,or sand ledge,100 ft.above hollow,bears E.and W.
	Desc.
32.50	Bottom of hollow,80 ft.below ridge,course W.
	Asc.
34.50	Top of sandstone ridge,100 ft.above hollow,bears E.and W.
	Desc.over sloping ledges.
39.50	Head of hollow,i solid rock,120 ft.below ridge,course W.

Chains

40.00 Set an iron post,3 ft.long,1½n.in dia.,12 ins.in the ground,on rock,and surrouned by mound of stone,for ¼ sec.cor..mkd.on brass cap ¼ S 30 in W half and S 29 in E half;from which

A pinon pine,8 ins.dia.,bears N.24°E.,71 lks. dist..mkd.¼ S 29 B T.

A pinon pine,12 ins.dia.,bears N.56°30'W.,7 lks. dist..mkd.¼ S 30 B T.

42.80 Top of ledge,20 ft.above ¼ sec.cor.,bears N.20°E.and S.20°W Desc.abruptly.

46 50 Wash,100 lks.wide,6 ft.deep,in bottom of Salt Creek canon, 200 ft.below ¼ sec.cor.,course N.20°E.

Asc.

47.60 Trail,bears N.E.and SW.

50.80 Top of ridge,100 ft.above canon,bears N.70°E.and S.70°W.

Desc.

56.00 Bottom of hollow,60 ft.below ridge;course N.80°E.

Asc.

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

Desc.

66.00 Enter dense oak brush,bears E.and W.

66.60 Wash,40 lks.wide,20 ft.deep,in bottom of hollow,60 ft. below ridge,course N.60°E.

Asc.

71.30 Top of ridge,80 ft.above hollow,bears N.70°E.and S.70°W.

Desc.

78.25 Trail,bears E.and W.

79.00 Wash,30 lks.wide,6 ft.deep,in bottom of hollow,60 ft.below ridge,course S.60° E.

Asc.

80.00 Set a sandstone,24x12x6 ins.,18 ins.in the ground,for cor.of secs.19,20,29,and 30,mkd.with 2 notches on S. and 5 notches on E edges;from which

A face of a 250 ft.sand ledge,bears N.23°10'E. 68.lks.dist..mkd. X B O'S 20

Sub.T.32 S.,R.20 E.-Continued.

Chains	
	An oak,6 ins.dia.,bears S.10°30'E.,130 lks. dist..mkd.T 32 S R20 E S 29 B T.
	An oak,6 ins.dia.,bears S.6°15'W.,138 lks. dist..mkd.T 32 S R 20 E S 30 B T.
	A 250 ft.sand ledge,bears N.7°15'W.,72 lks. dist..mkd.X B O S 19.
	Land,very rough and mountainous.
	Soil,sandy loam 1 to 2 ft.deep,on solid rock.
	Timber,cedar and pinon pine.
	Undergrowth,oak brush .
	Good grass .
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	October 9,1911:At this cor.I set off 6°02'S.,on the decl. arc;and at 11 h 48 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°01'N.,which is the proper lat.nearly.
	N.89°56'E.,on a random line bet.secs.20 and 29.
40.00	Set temp.¼ Sec.cor.
79.96	Fall 10 lks.N.of the point for cor.of secs.20,21,28,and 29,which is S.0°03'E.,20 lks. from the witness cor.
	Thence I run
	West,on a true line bet.secs.20 and 29.
	Over mountainous land;through scattering timber .
	Asc.over ledges.
5.00	Top of ridge,30 ft.above cor.,bears N.80°E.and S.80°W.
	Desc.
8.60	West edge of ledge,60 ft.high,bears NE and SW.
11.00	Foot of ledges,and foot of descent enter bottom of branch of Salt Creek canon,bears NW and SE.
	Leave timber,bears NW and SE.
	Enter dense undergrowth,bears NW and SE.
13.60	Trail,bears NW and SE.

Chains

15.00 Leave undergrowth and enter meadow,bears N.W and SE.

24.00 Leave meadow,bears NW and SE.

Enter dense undergrowth,bears NW and SE.

27.00 Leave canon bottom,bears N.20°W.and SE.

Asc.over ledges. through scattering timber.

39.98 Set an iron post,3 ft.long,1 in.in dia.,12 ins.in the ground,on solid rock,and surrounded with mound of stone, 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,10 ins.dia.,bears N.48°W.,101 lks. dist..mkd.¼ S 20 B T.

A pinon pine,10 ins.dia.,bears S.1°30'W.,54 lks. dist..mkd.¼ S 29 B T.

46.00 Begin more abrupt ascent over ledges,bears N.and S.

54.00 Top of ridge,500 ft.above canon,bears N.and S.

Desc.abruptly over ledges.

62.35 Foot of ledges,500 ft.below ridge,bears N and S.

Enter bottom of Salt Creek Canon.

62.70 Trail,bears N and S.30°W.

64.35 Wash,40 lks.wide,5 ft.deep,course N.10°E.

Note:There are a few scattering cottonwoods in canon.

66.70 Wash,15 lks.wide,4 ft.deep,course N.20°E.

69.50 Trail,bears N.10°E.and S.10°E.

Leave undergrowth,bears N.10°E.and S.10°E.

69.60 Leave canon bottom,bears N.and S.10°E.

Asc.over ledges.

77.00 Top of smooth sandstone ridge or ledge,250 ft.above canon,bears N.80°W.and S.80°E.

Desc.

78.20 Foot of ledge,250 ft.below ridge,bears N.60°W.and S.60°E.

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

Land,mountainous very rough.

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

Timber,cedar and pinon pine.and cottonwood.

Undergrowth,oak sage and willows in canon.

Chains	
	Good grass for grazing
	Mountainous land, or land covered with dense undergrowth,
	79.96 chs.
	October 9,1911.
	October 10.1911:At. 7 h 47 m a.m.,l.m.t.,I set off 38°01'N.,
	on the lat.arc;6°21'N.,on the decl.arc;and determine
	a meridian with the solar,at the cor.of secs.19,2o,29,
	and 30.
	Thence I run
	N.0°03'W.,bet.secs.19 and 20.
	Over mountainous land;through scattering timber and
	scattering undergrowth.
	DAsc.abruptly.over ledges.
0.60	Foot of ledge,250 ft.high,bears N.80°W.and S.80°E.
2.00	Top of sandstone ridge,or ledge,250 ft.above cor.,bears
	N.80°W.and S.60°E.
	Desc.over smooth sandstone ledges.
12.50	Bottom of hollow,in solid sandstone,200 ft.below ridge,
	course NE
	Asc.
19.50	Top of sandstone ridge,140 ft.above hollow,bears N.80°E.
	and S.80°W.
	Desc.
26.00	Bottom of hollow,80 ft.below ridge,course N.60°E.
	Asc.
30.90	Top of ridge;40 ft.above hollow,bears E.and W.
	Desc.
37.80	Bottom of hollow,course S.80°E.,80 ft.below ridge.
	Asc.
39.58	Foot of sloping sandstone ledge,400 ft.high,bears N.60°W.
	and S.60°E.
	The ½ sec.cor.will fall on this ledge;therefore at this
	point I

Chains	
	Set an iron post,3 ft,long,1 in.in dia.,26 ins.in the ground,for ½ sec.cor.(witness),mkd.on brass cap T 32 S R 20 E in N half.;W C ¼ S 19 in.W half.and S 20 in E half;from which
	The face of ledge,bears N.82°45'E.,10 lks. dist..mkd.X B O S 20
	The same ledge,bears N.6°30'W.,18 lks. dist..mkd.X B O S 19.
45.00	Top of solid sandstone ridge,450 ft.above hollow,bears N.60°W.and S.60°E.
	Desc.over sloping ledge.
52.00	Head of hollow,in solid sandstone 150 ft.below ridge, course E.
	Asc.
60.60	Top of sandstone ridge,150 ft.above hollow,bears E.and W.
	Desc.over ledges.
63.10	Top of sand ledge,80 ft.high,bears E.and W.
74.80	Bottom of hollow,250 ft.below ridge,course E.
	Asc.
78.00	Top of ridge,20 ft.above hollow,bears E.and W.
	Desc.
80.00	Falls on north edge of ledge 2 ft.high,extending 20 ft. NE and SW.I mark a cross at the exact point for cor. of secs.17,18,19,and 20,mkd.with 3 notches on S and 5 notches on E.edges.;from which
	A pinon pine,10 ins.dia.,bears N.54°E.,155 lks. dist..mkd.T 32 S.R 20 E S 17 B T.
	A ledge 6 ft.high,100 ft.long,bears NE and SW. bears S.64°E.,8 lks.dist.;mkd.X B O.S 20
	A cedar,8 ins.dia.,bears S.40°W.,47 lks. dist..mkd.T 32 S R 20 E S 19 B T.
	A pinon pine,6 ins.dia.,bears N.36°45'W.,83 lks dist..mkd.T 32 S R 20 E S 18 B T.
	Note:The center of a natural bridge or arch,120 ft.span and 80 ft.high,bears N.61°45'W.,about 40.00 chs.dist.
	Land,mountainous very rough and steep.

Chains

Soil,sandy and very shallow;and most of the mile is smooth sandstone surfaces with no soil or vegetation.

Timber,cedar and pinon pine,very scattering .

Undergrowth,sage brush ,very scattering .

Mountainous land,80.00 chs.

October 10,1911.

October 11,1911:At 7 h.47 m.a.m.,I,m.t.I set off 38°01' N.,on the lat.arc;6°43' S.,on the decl.arc;and determine a meridian,with the solar,at the cor.of secs.17,18,19,and 20.

Thence I run

East on a random line bet.secs.17 and 20.

40.00 Set temp.¼ Sec.cor.

75.13 Intersect the witness cor.to cor.of secs.16,17,20,and 21,which is 4.87 chs.west of the true cor.point.

Thence I run

West,on a true line bet.secs.17 and 20.,

(Distances counting from point for cor.of secs.16,17, 20 and 21.)

Over mountainous land;through dense undergrowth.

Desc.

4;87 The witness cor. Enter Bottom of Salt Creek canon.N.70°W.

6.30 Wash,20 lks.wide,3 ft.deep;course N.80°W.,

19.00 Trail,bears N.20°E.and S.20°W.

25.30 Salt Creek,3 lks.wide,2 ins.deep,in wash 100 lks.wide,20 ft.deep,course N.20°W.

Asc.gently.

32.00 Leave canon bottom,bears N.and S.

Enter scattering timber,bears N.and S.

Asc.over ledges.

40.00 Point 250 ft.above canon,

Set an iron post,3 ft.long,1 in.in dia.,16 ins.in the ground,on solid rock,and surrounded by mound of stone,

Sub.T.32 S.,R.20 E.-Continued.

Chains	
	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,8 ins.dia.,bears N.75°E.,7 lks. dist.mkd.¼ S 17 B T.
	A cedar,5 ins.dia.,bears S.77°E.,31 lks. dist.mkd.¼ S 20 B T.
41.50	Top of sandstone ridge,300 ft.above canon,bears N.60°W.and S.60°E.
	Desc.abruptly.
42.30	Foot of ledge,180 ft.high,bears N.70°W.and S.70°E.
49.70	Bottom of hollow,200 ft.below ridge,course S.70°E.
	Asc.
51.30	Asc.over ledges,bears N.and S.
64.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
66.30	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
68.00	Top of ridge,60 ft.above hollow,bears N.70°W.and S.70°E.
	Desc.
77.00	Bottom of hollow,30 ft.below ridge,course S.70°E.
	Asc.
80.00	The cor.of secs.17,18,19,and 20.
	Land,mountainous very rough
	Soil,sandy with some clay loam in bottom of Salt Creek canon.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush very tall and dense in canon bottoms.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	October 11,1911.At this cor I set off 6°48½'S.,on the dec. arc;and at 11 h 47 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.

Scott P. Stewart

October 11,1911. U.S.Transitman

Chains

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GENERAL DESCRIPTION.

This fractional township is very rough and rugged except along the Salt Creek and Brabch of Salt Creek canon; The soil in the canon is a sandy loam with a clay subsoil, But the major part of the land is bare sandstone ledges and surfaces with not enough soil to support vegetation. Salt Creek which rises near the center of sec.20 and flows northeraly is the only water in the township. L.Peachman has a house ,some ditch work,a little fencing, about 30 acres of meadow land which produces a good crop of hay,when it is cared for;but this season no hay was cut because the meadow was used as a pasture.Mr.Peachman was not living on the claim at the time of the survey, but I was informed that he had been living there earlier in the season.The house is better than the ordinary log house and is fairly well furnished.There are some corrals near the center of sec.20,not seen from line.

Total value of improvements about $400.00.

There is no mineral in the township;and no indications of oil.

The unsurveyed portion of this township is composed of smooth sandstone ledges and surfaces with very little vegetation and would be practically impossible to survey. The part surveyed is probably the smoothest part and we had considerable difficulty in making the survey of these sections.Salt Creek canon continues on through the township in a northerly direction;it is about one quarter mile wide between canon walls,has deep soil and an abundant growth of dense undergrowth and grass.It is possible that settlers may later occupy this canon bottom below our survey.

Scott P. Stewart.
U.S.Transitman.

October 11,1911.

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CERTIFICATE OF ASSISTANTS.

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

.....

.....

For certificate of assistants see book "M" T.33 S., R.31 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.
	Hours.	Dates.	

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

.....

1—754 *U. S. Surveyor.*

FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oath of Transitman see book "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 Subdivision of Township No. 32 South, Range No. 20 East of the Salt Lake Base and Meridian, Utah

executed by Scott P. Stewart under his 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.

Thomas Reed

U. S. Surveyor General.

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

_____

U. S. Surveyor General.

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BOOK A-387

FILED
MAR 15 1912

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines
of
Secs. 5, 6, 7 and 8; Township No. 33 South
Range No. 21 East,

Of the Salt Lake Base and Meridian,
In the State of Utah

EXECUTED BY

Eric H. Anderson

In the capacity of U. S. ~~Surveyor~~ Dependent Resurveyor, under instructions dated Mar. 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 October 6, 1911

Survey completed October 11, 1911

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INDEX DIAGRAM.

Township 33 South, Range 21 East.

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

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Subdivision of T33S. R.21E.

Survey commenced October 6 1911 - and executed with a young and Sons solar compass S.G.U. No. 1 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 transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during am. and pm. hours, with a meridian determined by observations on Polaris, I proceed as follows;
At cor of secs 5, 6, 31, and 32 on the N boundary of Tp heretofore described; latitude 37°59'04" N., longitude 109°41' W; I set off 37°59' N. on the lat. arc; 5°00' S. on the decl. arc; and at 3h 49m pm lmt. determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs N of cor.
At 6h 35m pm. lmt., I observe Polaris at eastern elongation, in accordance with manual of instructions, and mark a point in the line thus determined on a rock firmly set, 5 chs N of my station,

October 6. 1911 -

October 7; At 7:00 am. I lay off the azimuth 1°29' to the west, and mark

the meridian thus determined by a mark on the stone set Oct. 6 on which the meridian falls 0.36 ins east of the mark determined by the solar.

At 7h 48m am. lmt. I set off 37°59' on the lat. arc; 5°12' S on the decl. arc; and mark a point in the meridian determined with the solar, by a mark on a stone already set 5 chs N. of my station; this mark falls 0.40 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and am. observations, defines positions for meridians, respectively about 0'19" west and 0'21" east 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 am is N 16°8' W; the angle thus determined gives the Mag. decl. 16°8' E

Thence I run
S 0°3' E alt secs 5 and 6
Over Mountainous land through sagebrush and grass; descend gently

1.60 Center of wash 50 lks wide 6 ft. deep in bottom of Stevens canyon. Small stream of water 3 lks. wide 2 ins deep in wash; ascend gently

2.50 Trail bears E and W
Note. This trail is the remnant of an old road between Cottonwood Ranch and Mormon Pasture.

10.00 Enter cedar and pinon pine timber and oak and serviceberry undergrowth.

Subdivision of T 33 S R 21 E.

	Begin ascent of knoll
12.80	Top of knoll 80 ft. above foot bears E and W.; descend gently
15.80	Bottom of small hollow or swale 10 ft below knoll course E.; Begin abrupt ascent over boulders and broken sandstone ledge.
26.80	Top of ledge N edge of mountain mesa 500 ft above Stevens canyon bears N 70° E and S 70° W; Live oak and serviceberry undergrowth; ascend gently over mesa through heavy timber.
35.80	Leave heavy timber enter sagebrush flat. bears NE and SW.
40.00	Set an iron post 3 ft. long, 1 in. in dia. 26 ins. in the ground for 1/4 sec cor bet. secs 5 and 6 Marked on brass cap 1/4 S 6 on W., and S 5 on E half. from which A pinon pine 8 ins. diam bears S 59° 09' E 149 lks. dist. Marked 1/4 S 5 BT. A pinon pine 10 ins diam. bears S 37° W 121 lks. dist. Marked 1/4 S 6 BT
41.30	Leave sagebrush flat enter heavy timber bears N 10° W and S 10° E
48.50	Top of gentle ascent bears E and W descend gently
72.50	Wash 30 lks. wide, 4 ft. dup course S 50° E.; ascend gently
73.70	Top of small ascent bears E and W descend gently
75.20	Trail bears N 30° E and S 30° W
80.00	Set a gray sandstone 20 x 8 x 8 ins., 10 ins. in the ground, for cor of secs 5, 6, 7 and 8, marked with 5 notches on S., and 5 notches on E. edge, from which A pinon pine 8 ins diam bears N 23° 30' E. 56 lks dist. Marked T 33 S R 21 E S 5 BT A cedar 10 ins. diam. bears S 51° 30' E

20 lks. dist. marked T 33 S R 21 E S 8 B T
a cedar 10 ins. diam. bears S 30° S 3' W
46 lks. dist. marked T 33 S R 21 E S 7 B T
a cedar 12 ins diam bears N 5° 29' W
38 lks. dist. Marked T 33 S R 21 E S 6 B T
Note, Due to a violent flood in Cottonwood
creek which overflowed its banks
and swept away a number of iron
posts, which after diligent search
could not be found, makes stone
corners necessary for a
number of these sections.
Rolling Mountainous land; E slope;
soil, gravely loam, slightly washed
on slopes, with good sand and clay
loam in valleys; on clay and
decomposing sandstone subsoil
Heavy cedar and pinon pine 65 lks.
Dense sagebrush 15 lks.

Sect 7:
At 1h 48m a.m. Gnd. ☉ set off
5° 18' S on the decl. arc. and
observe the sun on the meridian
at cor. above described; the resulting
lat is 37° 58'; thence I run
W on a random line bet. secs 6 and 7
40.00 Set temp 1/4 sec cor.
78.38 Intersect W. bdy of Tp. 2 lks. S of cor
of secs 1, 6, 7 and 12, heretofore described
Thence I run
S 89° 59' E on a true line bet secs
6 and 7
Over Mountainous land through
cedar and pinon pine timber; and
scattering sagebrush.
ascend abruptly
11.70 Top of spur 300 ft above sec cor
bears N 10° E and S 10° W; base of
ledge 1 ch S of line; descend

Subdivision of T 33 S. R 21 E.

18.30	Bottom of hollow 200 ft. below spur Course N 15° E ascend
29.10	Top of ridge 100 ft above hollow heads N and S; descend over broken surface
38.38	Bottom of gentle hollow, 60 ft below ridge Course N. 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 1/4 sec cor. bet. secs 6 and 7 marked on brass cap 1/4 S 6 on N., and S 7 on S half from which A pinon pine 18 ins. diam. bears N 62 44' W. 89 lks. dist Marked 1/4 S 6 B T A pinon pine 12 ins. diam. bears S 14° 25' W 68 lks. dist. marked 1/4 S 7 B T. ascend
45.60	Top of spur, at base of vertical ledge NE terminal of Maverik Point Mesa, bears N E and S W; Note; ledge is S of line. 80 ft above 1/4 sec cor. descend abruptly
50.20	Bottom of hollow 250 ft. below spur course S 50° E; ascend
60.40	Top of ridge 50 ft. above hollow bears N W and S E descend gently
78.38	The cor of secs 5, 6, 7 and 8 Mountainous land; northerly slope; Soil, gravelly loam 6 to 12 ins deep on rock or gravel subsoil, with some clay in hollows; dry; coarse texture, Timber, cedar and pinon pine Undergrowth, scattering sage brush

October 7 1911
Eric A Anderson
U. S. Transitman

Subdivision of T 33 S R 21 E

October 9; at 7h 48m ann. lmt.
I set off 37°58' on the lat. arc;
5°57 S on the decl. arc and determine a meridian with the solar at. cor. of secs 5 6 7 and 8

Thence I run
S 0°03' E bet secs 7 and 8
Over mountainous mesa land through heavy timber and scattering sagebrush; descend gently

0.70 Small hollow 6 ft below sec. cor. course N 80° E ascend gently

5.20 Top of ascent bears E and W; descend

14.10 N edge of small canyon bears N 60° E and S 60° W; descend abruptly over ledges

15.90 Foot of ledges 50 ft. below top bears same descend abruptly over talus

20.00 Descend over ledges bears N 70° E and S 70° W

21.60 Bottom of canyon 200 ft below top, course N 80° E; ascend abruptly over ledges

29.00 S edge of canyon 200 ft above bottom bears E and W; thence over rolling mesa; ascend gently

31.00 Top of gentle ascent bears E and W descend gently

35.00 Bottom of gentle swale course E ascend gently

40.00 Set an iron post 3 ft. long 1 in in dia. 26 ins. in the ground for 1/4 sec cor bet. secs 7 and 8 marked on brass cap 1/4 S 7 on W, and S 8 on E half from which
A pinon pine 6 ins. diam. bears N 37°46' E 24 lbs. dist. marked 1/4 S 8 BT.
A cedar 12 ins. diam bears S 55°00' W 30 lbs. dist. marked 1/4 S 7 BT

41.00 Top of gentle ascent bears E and W

descend gently

48.80 N edge of small canyon bears N 80° W and S 80° E; descend abruptly over broken ledges

50.00 Foot of ledges 70 ft. below top, bears same descend abruptly over talus

56.10 Bottom of canyon 175 ft below top, course N 80° E; ascend

62.85 Top of canyon, N edge of mesa, 200 ft above bottom bears N 70° W and S 70° E; ascend gently over mesa

66.35 Top of gentle ascent bears E and W. descend gently

75.00 Bottom of swale course S 80° E ascend

80.00 Set a red sandstone 24 x 9 x 5 ins. 12 ins. in the ground for cor. of secs 7, 8, 17 and 18 marked with 4 notches on S., and 5 notches on E. edge. from which
A cedar 16 ins. diam bears N 25°48' E 15 lks. dist. Marked T 33 S R 21 E S 8 BT
A pinon pine 6 ins. diam. bears S 28°18' E 43 lks. dist. marked T 33 S R 21 E S 17 BT.
A pinon pine 12 ins. diam bears S 10°5' W 73 lks. dist. Marked T 33 S R 21 E S 18 BT.
A pinon pine 8 ins. diam. bears N 30°57' W 42 lks. dist. Marked T 33 S R 21 E S 7 BT.

Oct. 9. At 11h 48m am. lmt. I set off 6° 24' S on the decl. arc and observe the sun on the meridian at this cor, the resulting lat is 37°57'

Mountainous mesa land; E slope; Soil, a mixture of sand and gravel, 6 to 18 ins deep on gravel and rock subsoil; medium moist, coarse texture

Timber heavy cedar and pinon pine Undergrowth scattering sagebrush and a little bunch grass

Subdivision of T 33 S R 21 E

	W. on a random line bet. secs 7 and 18
4.00	Set temp 1/4 sec cor
7.86	Intersect W bdy of Tp, 1/4 lks. S of cor of secs 7, 12, 13 and 18 heretofore described
	Thence N
	S 89° 54' E bet. secs 7 and 18, on a true line, Over mountainous land through heavy timber and sagebrush and buckbrush undergrowth; ascend gently
1.25	Top of gentle ascent bears N and S
1.90	Begin more abrupt descent bears N 80° W and S 80° E
14.90	Head of canyon 60 ft. below sec cor. Course N 50° E; descend
28.60	Top of ascent bears N and S; descend gently
33.90	Bottom of gentle swale, course N 25° E. ascend gently
38.61	Set a red sandstone 24 x 10 x 7 ins., 12 ins in the ground, for 1/4 sec. cor. bet secs 7 and 18, Marked ± on N face; from which
	A pinon pine 6 ins. diam. bears N 43° 40' W 5 1/2 lks. dist. Marked 1/4 S 7 B T.
	A cedar 10 ins. diam. bears S 26° 00' E 14 lks. dist. Marked 1/4 S 18 B T; enter serviceberry undergrowth bears N and S
47.10	Top of ridge 50 ft. above 1/4 sec cor bears N and S;
Lot 9	At 3h 52m p.m. Lmt. D set off 37° 58' on the Lat. arc; 6° 6' 5 on the Decl. arc and determine a meridian with the solar at this point; descend
48.60	Bottom of small swale course N 15° W ascend gently over small ridges and hollows, too numerous to mention
60.80	Ridge, 40 ft. above swale bears N and S; descend gently

Subdivision of T 33 S R 21 E.

67.40	Bottom of hollow 50 ft. below course N 10° E; ascend gently
76.50	Top of small ridge 20 ft. above hollow bears N and S. descend gently
78.61	The cor of secs 7, 8, 17 and 18
	Rolling mountainous land; NE Slope; soil gravely loam of medium quality and texture 16 to 18 ins. deep on sandstone in place, medium moist;
	Timber, heavy cedar and pinon pine, Undergrowth, scattering sagebrush, buckbrush and service berry and some grass.
	October 9 1911 Eric H. Anderson U.S. Transitman
	October 10; at 8h 13m am. Lmt. I set off 37°59' on the lat. arc; 6°22' N on the decl. arc: and determine the meridian with the solar at cor of 4 5 32 and 33 on N bdy of Tp. heretofore described. Thence I run
	S 0°03' E bet secs 4 and 5.
	Over mountainous land through heavy cedar, pinon pine and sagebrush; descend over ledges.
18.60	Bottom of hollow 100 ft. below sec. cor., course W; ascend
21.50	Wash 20 lks. wide, 2 ft. deep, course W.
29.05	Top of steep ascent and edge of rolling mesa, 100 ft. above hollow bears E and W. ascend gently
34.40	Forest reserve line bears E and W.
37.70	Wash 10 lks. wide, 3 ft. deep, course NE
39.75	Trail bears NE and S.W.
40.00	Set a sandstone 18 x 8 x 5 ins., 12 ins. in

the ground for 1/4 sec cor bet. secs. 4 and 5, marked 1/4 on W face; from which
A pinon pine 14 ins. diam bears N 59°0' E 71 lks. dist. Marked 1/4 S 4 B T
A cedar 12 ins. diam bears N 56°0' W 16 lks. dist. Marked 1/4 S 5 BT
Leave timber enter sagebrush flat bears E and W, thence along edge of sagebrush flat,

48.50 Leave sagebrush flat. enter timber bear N 10° E and S W

77.00 Bottom of hollow 15 ft. deep course W. ascend

78.00 Top of ridge 25 ft. above hollow bears N 60° E and S 60° W. descend

80.00 Set a gray sandstone 30 x 12 x 7 ins. 22 ins. in the ground for cor. of secs 4, 5, 8 and 9, marked with 5 notches on the S., and 4 notches on E. edge. from which
A pinon pine 10 ins. diam. bears N 38°15' E 93 lks. dist. Marked T 33 S R 21 E S 4 BT
A pinon pine 10 ins. diam. bears S 37°45' E 42 lks. dist. Marked T 33 S R 21 E S 9 B.T.
A pinon pine 12 ins. diam bears S 23°15' W 42 lks. dist. Marked T 33 S R 21 E S 8 BT
A sandstone boulder 8 x 8 x 6 ft. bears N. 61°5' W 6 lks dist. Marked + B 0 S 5.

Oct. 10. At 11h 48m am. Ent. I set off 6°26' S on the deel arc and observe the sun on the meridian at this cor; the resulting lat. is 38°58'
Mountainous land; W slope; soil, sand and gravel loam 6 to 12 ins. deep on gravel or rock subsoil, dry; medium texture
Timber, cedar and pinon pine undergrowth, sagebrush and grass

Subdivision of T 33 S R 21 E.

	W on a random line bet. secs 5 and 8
40.00	Set temp 1/4 sec cor
79.80	Intersect N and S line 14 lks. N of cor of secs 5 6 7 and 8
	Thence 2 runs
	N 89° 54' E on a true line bet. secs 5 and 8
	Over Mountainous land through heavy timber and scattering sagebrush descend gently
13.80	E. edge of Mountain mesa, bears N 20° E and S 20° W; descend abruptly over ledges into cottonwood canyon,
14.50	Foot of ledges 60 ft. below top bears same descend
22.00	Foot of slope descent bears N and S, descend gently
27.80	Leave timber, enter sagebrush and rabbitbrush bears N and S
28.95	Wagon road to Cottonwood ranch bears N 30° E and S 30° W
32.80	Center of wash 50 lks. wide 4 ft. deep in bottom of cottonwood canyon, in which flows cottonwood creek 10 lks. wide, 1 ft. deep, course N. Note, - very muddy water. ascend gently
38.25	Leave sagebrush and rabbitbrush enter timber bears N and S
39.90	Set a gray Sandstone 28 x 9 x 7 ins. 16 ins in the ground for 1/4 sec cor bet secs 5 and 8 Marked 1/4 on face from which
	A cedar 4 ins. diam bears N 63° 00 E 29 lks. dist. Marked 1/4 S 5 B T
	A pinon pine 18 ins. diam. bears S 49° E 49 lks. dist. Marked 1/4 S 8 B T
45.00	Begin more abrupt ascent bears N and S
48.35	E. edge of low mesa 100 ft. above canyon bears N 20° E and S 20° W thence over rolling mesa

Subdivision of T 33 S R 21 E

75.00	Wash 50 lks. wide 4 ft. deep in which flows a small stream of fresh water 1 lk wide 2 ins deep course N 20° W Note, There is a small grove of Mountain cottonwoods 3 chs. S of line.
79.80	The cor of secs 4 5 8 and 9 Rolling mountainous land, Northerly slope; soil gravely loam on slopes and ridges and good sandy loam with some clay in the valleys, 6 to 24 ins. deep on decomposing sandstone; Timber, cedar and pinon 70 chs No timber 10 chs; Undergrowth sagebrush, rabbitbrush and grass. October 10, 1911. Eric H Anderson U.S. Transitman
	October 11. At 8h 47m am. lent. I set off 37°58' on the lat. arc; 6°45' S on the decl. arc and determine a meridian with the solar at cor. of secs 4, 5, 8 and 9 heretofore described Thence I run S 0° 3' E bet secs 8 and 9 Over Mountainous land, through heavy timber, scattering serviceberry, sagebrush and mountainrush undergrowth descend
9.10	Bottom of canyon 50 ft. below sec. cor. small stream in bottom 1 lk wide 2 ins. deep course N 30° W ascend
18.30	Head of hollow 150 ft. above canyon course N 80° E; ascend abruptly
22.00	Edge of high mesa, 500 ft above canyon bears N 80° E and S 80° W; ascend gently

Subdivision of T 33 S R 21 E

26.70	Top of mesa bears E and W. descend gently
40.00	Set a red sandstone 24 x 10 x 6 ins. 14 ins. in ground of stone for 1/4 Sec. Cor bet secs 8 and 9 Mpalged + on W face; from which A pinon pine 6 ins. diam bears N 60° 14' E 65 lks. dist. Marked 1/4 S 9 B T A cedar 10 ins. diam. bears S 59° 00' W 32 lks. dist. Marked 1/4 S 8 B T.
53.30	Descend abruptly over ledges bear NW and SE.
54.00	Foot of ledges 60 ft. below top bears some descend over boulders
59.10	Bottom of canyon 200 ft. below top course W. Ascend abruptly
66.50	S edge of canyon 200 ft. above bottom, beds N 50° E and S 50° W. ascend gently
67.50	Top of mesa spur bears E and W. descend gently
68.25	Descend abruptly over ledges bear E and W.
70.00	Bottom of hollow 75 ft. below spur course S 50° W; ascend along W edge of ledges
76.50	Top of spur 100 ft above hollow bears E and W. descend
79.51	Set a red sandstone 30 x 10 x 6 ins 18 ins in the ground for witness Cor of secs 8, 9, 16 and 17 marked with 4 notches on the S. and 4 notches on the E. edges and WC on NE face raise a mound of stone 2 ft. base 1½ ft. high W of cor.
80.00	Point falls on smooth sandstone in place, marked by cross cut in rock, no cor - set. Cloud prevents lat. observation. Mountainous land; W slope; Soil gravelly loam, rather poor quality

6 to 12 ins dep on sandstone in place;
Timber, cedar and pinon pine
Undergrowth, service berry sagebrush and Mountain mahog.

W. on a random line bet. secs 8 and 17

40.00 Set temp 1/4 sec cor.

79.80 Intersect N and S line at cor of secs 7 & 17 and 18

Thence I run
East on a true line bet. secs. 8 and 17
Over mountainous mesa land, through cedar and pinon pine timber and scattering sagebrush; descend gently

6.50 W. edge of mesa, descend abruptly over boulders, down small ravine,

11.00 Foot of abrupt descent bears N and S

12.50 1.60 ch N. from this point is proposed site for Forest rangers cabin, cabin to be built of stone. 100 ft. below edge of mesa; below timber, enter sagebrush and rabbit brush bears N and S descend gently

17.20 Cottonwood Creek 16 lks. wide 8 ins deep course N, in center of wash 50 lks. wide 6 ft. dep; ascend gently

25.50 Leave sagebrush enter timber bears N and S

29.00 Begin abrupt ascent bears N and S

39.90 Set a red sandstone 18 x 8 x 7 ins, 12 ins in the ground for 1/4 sec cor bet secs 8 and 17, Marked + on N face from which
a pinon pine 4 ins. diam bears N 13° 30' E 27 lks. dist. marked 1/4 S 8 B T
a cedar 5 ins. diam bears S 33° E 42 lks. dist. marked 1/4 S 17 B T.

550 ft. above cottonwood creek

40.30 Foot of red sandstone ledge bears N 10° E and S 10° W.; ascend abruptly

41.00 Top of mountain 100 ft. above 1/4 Sec cor. bears N and S; descend over steep Mountain slope

52.00 Foot of steep descent 450 ft. below top of Mountain

62.00 Hop creek, 550 ft. below top of Mountain 8 lks. wide 2 ins. deep course N 30° W Enter dense birch and oak 6 to 10 ft. in height.; ascend

64.00 Small stream of fresh water 2 lks wide 4 ins. deep from spring flows S 80° W into Hop creek.

Note, There are numerous water seeps and small springs of good, fresh, and very clear water which drain into Hop creek in this vicinity.

66.80 Leave birch and oak, enter scattering cedar and pinon pine bears N and S

71.80 Small stream 1 lk wide 3 ins. deep from spring above flows S W into Hop creek

76.00 Begin more abrupt ascent beds N and S.

79.80 Point on W cor of secs 8 9 16 and 17

Mountainous land; northerly slope; soil a mixture of sand and gravel with some clay in valleys 1 2 to 3 ft. deep on rock subsoil; washed gravelly loam on slopes 3 to 10 ins. deep on bed rock.

Timber cedar and pinon pine 70 cls Undergrowth, sagebrush, oak, and birch brush and some grass.

Note., Hop creek flows Northwesterly into Cottonwood creek, clear water

October 11 1911

Eric H Anderson

U.S. Transitman

General Description

Secs 5, 6, 7 and 8 of this township contains land ranging from a good sandy loam in Cottonwood and stephens canyons steep 1 to 3 ft dup on sand and gravel subsoil, to a poor gravely loam 6 to 14 ins. dup on sandstone, on the mountainous portions. The soil in the above named canyons will produce abounddant crops with irrigation. The other parts of these secs may be classed as mountainous mesa land, and is fit for grazing only.

Pinon and cedar timber is found throughout except in bottoms of Cottonwood and stevens canyons which are covered with a dense growth of sagebrush.

Cottonwood cruk flows through secs 6 and 8 and Hop cruk a clear stream of fruck water flows through a portion of sec 8. into the cottonwood cruk. There are numerous small springs in S. E. cor of sec 8. which drain into Hop cruk.

A small stream of water flows in Stevens Canyon through sec. 6

The cabin site for Asst rangers Cabin is located near the SW cor. of sec 8. by the West edge of cottonwood canyon. It is to be built of stone, lumber for cabin is on the ground.

The S. portion of cottonwood ranch extends into S 5.

Eric H Anderson
U.S. Transitman

I found no mineral in this Tp. There are no settlers, but David Gowdelocks cultivated field extends into Sec. 5

Eric H. Anderson

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Scott P. Stewart and Eric H. Anderson, U. S. ~~Surveyor~~ Transitmen, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of the South, West, East, and North Bdrs. T. 32 S., R. 21 E.; East and North, and ~~Retracement~~ of South Bdrs. T. 32 S., R. 22 E.; East and West Bdrs. T. 31 S., R. 21 E.; Sixth Standard Parallel South, through Rs. 21 and 22 E.; North, South, East, and West Bdrs. of T. 33 S., R. 20 E.; and the Subdivision of Townships 31, 32, and 33 S., R. 21 E.; Tps. 31 and 32 S., R. 22 E.; and Tps. 32, 33, and 34 S., R. 20 E.

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

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Sterling D Reay	May 17, 1911	July 31, 1911.	Flagman.
Simeon Oliver	Aug. 19, 1911	Aug. 31, 1911.	Flagman.
Kimball Young	May 25, 1911	May 31, 1911	Axman
	June 1, 1911	Oct. 16, 1911	Cornerman
David Mayer	July 8, 1911	Oct. 16, 1911	Axman
Hellman Dalley	May 15, 1911	Oct. 16, 1911	Lead Chainman Cornerman
Rudolf Hurst	May 17, 1911	June 4, 1911	
	June 5, 1911	Oct. 16, 1911	Rear Chainman
	June 4, 1911	Oct. 16, 1911	Rear Chainman
Raymond C Urard	May 15, 1911	June 4 1911	Rear Chainman
J Edward Rogerson	June 7, 1911	July 31, 1911	Flagman
Menzies McFarlane	May 25, 1911	Sept. 2, 1911	Lead Chainman
James Jensen	Aug 19, 1911	Oct. 10, 1911	Flagman
	May 17 1911	Sept. 2, 1911	Cornerman
Jesse Porter	Sept 2, 1911	Oct. 16, 1911	Lead Chainman
Vaughan Olsen	July 8, 1911	Oct. 16, 1911	Axman

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

Scott P. Stewart

U. S. ~~Surveyor~~ Transitman

6—2761

TRANSITMAN.

FINAL OATH OF UNITED STATES ~~SURVEYOR~~.

I, Scott P. Stewart, Transitman, U. S. ~~Surveyor~~, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 27 day of March, 1911, 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 S.W.E.& N. Bdrs.T.32 S., R.21 E.; the North Boundary of T.32 S.R.22 E.; Sixth Standard Parallel S., Through Rs.21 and 22 E.; N.S.E.& W.Bdrs.T.33 S., R.20 E.; and the subdivision of Tp.32 S.R.21 E.; T.32 S.R.22 E.; T.31 S.R. 22 E.; T.33 S., R.20 E. T.34 S.R.20 E.; and T.32 S.R.20 E.: and the W. Bdy.T.31 S., R.21 E. of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

in books A.B.C.D.G.H.I.J.K.& L.

Scott P. Stewart
~~U. S. Surveyor.~~
U.S.Transitman.

Subscribed by said Scott P.Stewart, and sworn to before me this 27 day of April, 191 2

SEAL

U.S.Surveyor-General for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, 191

The foregoing field notes of the survey of the

executed by

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

U. S. Surveyor General.

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

U. S. Surveyor General.

6—2761

BOOK A-387

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.

TRANSITMAN.

FINAL OATH OF UNITED STATES ~~SURVEYOR~~.

I, Eric H.Anderson, 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 27 day of March, 1911, 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 S.W.E.& N. Bdrs.T.32 S., R.21 E.; East ~~xx~~ and South.Bdrs.T.32 S.R.22 E.; East ~~xx~~ Bdrs.T.31 S., R.21 E.; N.S.E.& W.Bdrs.T.33 S., R.20 E.; and the Subdivision of T.32 S., R.21 E.; T.32 S.R.22 E.;T.31 S.R.21 E.;T.31 S.R. 22 E.; T.33 S.R.20 E.; and T.33 S., R.21 E.

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

in books A.B.C.D.E.F.H.I.J.& M.

Eric H. Anderson

~~U.S.Surveyor.~~

U.S.Transitman.

Subscribed by said Eric H.Anderson, and sworn to before me this 25 day of May, 1912

SEAL

Thomas Riell

U.S.Surveyor-General for Utah.

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 in Township No.33 S., R.21 E.of the Salt Lake Base and Meridian, Utah

executed by Eric H.Anderson under his 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.

Thomas Riell

U. S. Surveyor General.

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

6—2761

U. S. Surveyor General.