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R0376

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FIELD NOTES

OF THE SURVEY OF THE

Of the ..... *Meridian,*

State of .....

EXECUTED BY

e capacity of U. S. Surveyor....., under instructions dated....., 191....,

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

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

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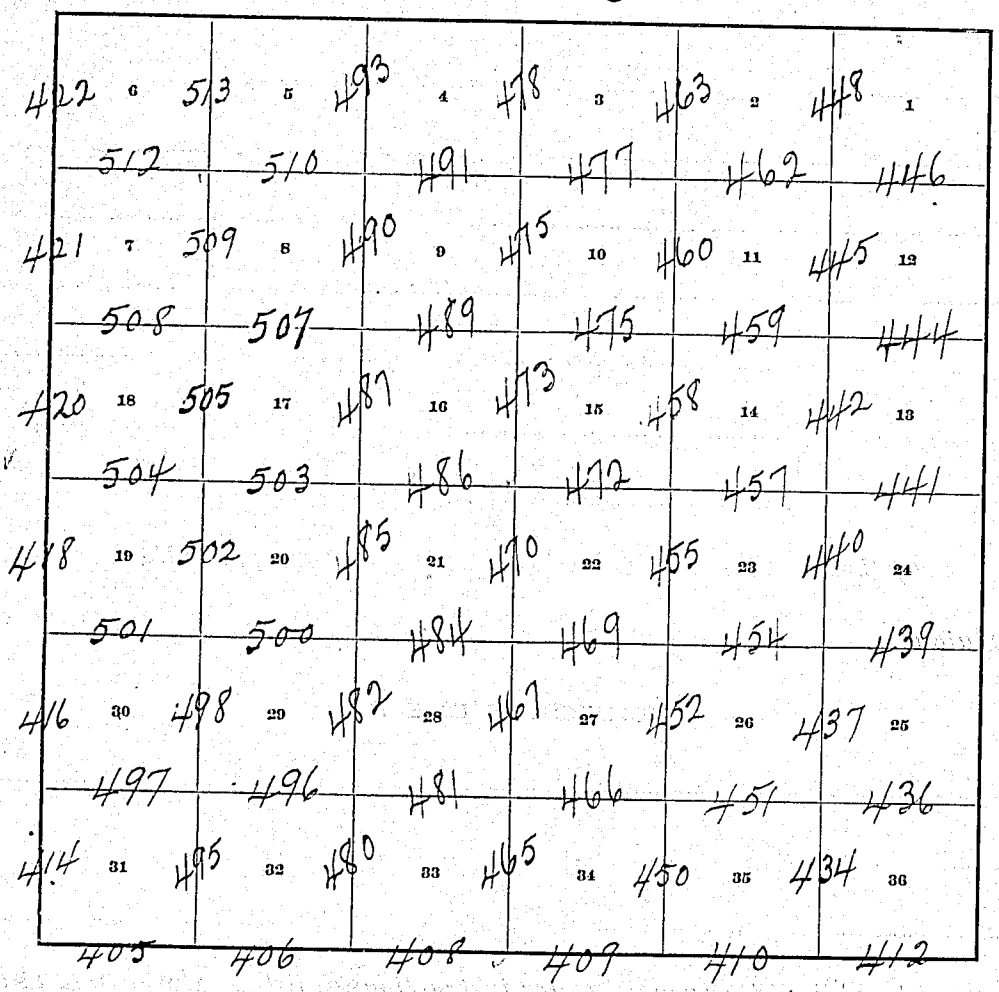

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Ex.G.N. 4—679 WSH.

BOOK A-376

C.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 35 SOUTH,

RANGE NO. 12 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

ANDREW NELSON

In the capacity of U. S. ~~Surveyor~~ Transitman, *under instructions dated* Aug.6, *191*0, *issued by the United States Surveyor General to govern surveys included in Group No.* 2, *which were approved by the Commissioner of the General Land Office,* August 25, *191*0, *pursuant to authority contained in the Act of Congress dated* ....., *191*...

Survey commenced August 22, *191*0

Survey completed August 25, *191*0.

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Jack Barker, Chainman.
Harry F.Wood, Chainman.
George Schroeder, Moundman.
John Ad Millyard, Flagman and Axman.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Jack Barker and Harry F. Wood 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 subdivision, retracement and resurveys of frac'l sub. T 35 S., R 12 W. S.L.B.& M., Utah.

Jack Barker, Chainman.

Harry F. Wood, Chainman.

Subscribed and sworn to before me this 21 day of August, 1900

SEAL

Andrew Nelson

Instrumentman G.L.O.

WE, I George Schroeder and do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me us, to the best of our my skill and ability, in the survey of subdivision, retracement and resurveys of frac'l sub. T 35 S., R 12 W. S.L.B.& M., Utah.

George Schroeder, Moundman.

, Moundman.

Subscribed and sworn to before me this 21st day of August, 1900

SEAL

Andrew Nelson

Instrumentman G.L.O.

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

, Axman.

, Axman.

Subscribed and sworn to before me this day of , 190

SEAL

I, John Ad Millyard, do solemnly swear that I will well and truly perform the duties of flagman axman according to instructions given me, to the best of my skill and ability, in the survey of subdivision, retracement and resurvey of frac. sub. T 35 S., R 12 W. S.L.B.& M., Utah.

John Ad Millyard, Flagman. axman

Subscribed and sworn to before me this 21st day of August, 1900

SEAL

Andrew Nelson

~~Instrumenman G.L.O.~~

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Retracement of subdivision of T 35 S., R 12 W.

chains	
	Survey commenced August 22, 1910, and executed with a W. & L. E. Gurley light mountain transit, No. 9624, with solar attachment. For description see book "A" of this survey. I know my instrument to be in adjustment from observations on Polaris, taken August 18; See book "A"; And also by comparisonof meridians made during a. m. and p.m. hours, on August 21, with the meridian establised by observations on Polaris August 18. Therefore I do not deem it necessary to take the usual observation at the commencement of this survey.
	August 22, 1910: At 9h 3m a.m.,l.m.t.,I set off 37° 46' N. on the lat. arc; 11° 57'N. on the decl. arc; and determine a meridian with the solar, at the cor of secs. 16-17-20 and 21, which is a sandstone 12 x 10 x 5 ins. above the ground, properly marked and witnessed as described by the Surveyor General.
	Thence I run
	S 89° 56'E. retracing bet. secs. 16 and 21.
	Over rough mountainous land, through dense forest of cedar and pinon pine.
	Ascend steep land, facing SW, 200 ft. to
19.00	Top of rocky spur, projects S.
21.00	Descend abruptly, 150 ft. over SE. slope.
33.70	Ravine, course S.
	Thence gradually ascend land, facing nearly S.
39. 50	Ravine, 15 ft. deep, course S.
40.12	After careful and diligent search over a radius of 5 chs. I am unable to find any trace of the ¼ sec. cor.
	Continue gradual ascent over land, sloping S. and SW.
55.10	Draw, course SW.
	Begin more abrupt ascent.
61.75	Ridge, 100 ft. high, bears N. and S 20°W.

Retracement of subdivision of T 35 S.,R 12 W.

chains

Descend 50 ft. to

69.00 Ravine, course S.

Thence over land, facing S.

76.00 Low spur, projects S.

80.57 Fall 18 lks. N. of the cor. of secs. 15-16-21 and 22, which is a granite stone 16 x 12 x 8 ins. lying on the ground, dimly marked with proper notchesand witnessed by two bearing trees. I re-establish cor. at same point as follows:

Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, marked on brass cap

T 35 S S 16 in NW,

R 12 W S 15 in NE,

S 22 in SE. and

S 21 in SW. quadrant; from which

A cedar,10 ins.dia.,bears N 77½°E.112 lks. dist.,marked T35S R12W S15 BT

A cedar,10 ins.diam.,bears S 51½°E. 29½ lks. dist.,marked T35S R12W S22 BT

A cedar, 9 ins.diam.,bears S 8° W. 27½ lks. dist.,marked T35S R12W S21 BT

A cedar,14 ins.diam.,bears N 3½° W. 29½ lks. dist.,marked T35S R12W S16 BT

Note: I destroy all trace of old sec. cor.
The course of this line is therefore S.89°48'E.80.57 chs.
August 22: At this sec. cor., I set off 11° 54 'N. on the decl. arc; and, at 12h 3m l.m.t., observe the sun on the meridian; the resulting lat. is. 37° 46'.

Land, mountainous, S. slope.

Soil, rocky; 3rd rate. Granite formation.

Timber, dense scrub cedars and scattering pinon pine.

Undergrowth, some scattering sagebrush.

Subdivision of T 35 S., R 12 W.

chains	
	From the cor. of secs. 15-16-21 and 22,
	I run
	North on a random line, bet. secs. 15 and 16.
40.00	Set temp. ½ sec. cor.
80.00	Set temp. cor. for secs. 9-10-15 and 16.

	From temp. cor. of secs. 9-10-15 and 16, I run
	East on a random line, bet. secs. 10 and 15.
40.00	After a careful and diligent search, over a radius of
	4 chs., I am unable to find any trace of the ¼ sec. cor.;
	therefore I continue my random line East, and at
82.69	Intersect N. and S. line, 133 lks. S. of the cor. of
	secs. 10-11-14 and 15, which is a granite 13 x 10 x 5
	ins. above the ground, firmly set, properly marked,
	witnessed by
	A cedar, 6 ins.diam.,bears N. 33° E. 53 lks.
(remark)	dist.,marked T35S R12W S11 BT
	A cedar, 6 ins.diam.,bears S 4¾° E. 99 lks.
(remark)	dist.,marked T35S R12W S14 BT
	A cedar, 6 ins.diam.,bears S 61½° W. 129 lks.
(new)	dist.,marked T35S R12W S15 BT
	A cedar, 5 ins.diam.,bears N 22½° W. 126 lks.
(new)	dist.,marked T35S R12W S10 BT

August 22, 1910.

Subdivision of T 35 S.,R 12 W.

chains	
	August 23, 1910: At 8h 3m a.m.,l.m.t.,I set off 37° 47' on the lat. arc; 11° 38'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
	West on true line, resurveying bet. secs. 10 and 15.
	Over mountainous land, through dense forest of cedar and pinon.
	Gradually ascend land, facing E.
13.00	Base of high peak, bears NW. and S.
	Ascend 600 ft.
37.50	Top of ascent on N. slope of peak; peak bears S. 3 chs.
	Gradually descend
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for re-established ¼ sec. cor.,marked on brass cap ¼ S 10 on N. and S 15 on S. half; from which
	A cedar, 8 ins.diam.,bears N 20½°W. 47 lks. dist.,marked ¼ S 10 B T ; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
	No suitable B T in sec. 15 available.
	Again make careful search for old ¼ sec. cor.,but fail to find any trace.
	From ¼ sec. cor.,I run West on true line.
	Descend steep rocky NW. slope, 500 ft.to
58.00	Base of peak, bears NE. and SW.
67.00	Hollow, course N.
	Gradually ascend land, facing SE.
82.69	Intersect the N. and S. line, 133 lks. N. of the temp. cor. of secs. 9-10-15 and 16.
	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 9-10-15 and 16, marked on brass cap

Subdivision of T 35 S., R 12 W.

chains	
	T 35 S S 9 in NW,
	R 12 W S 10 in NE,
	S 15 in SE. and
	S 16 in SW. quadrant; from which
	A piñon, 8 ins.diam.,bears N 55° E. 79 lks. dist.,marked T 35 S r 12 W S 10 B T
	A pinon, 8 ins.diam.,bears S 61° E. 60 lks. dist.,marked T35S R12W S15 BT
	A cedar, 10, ins.diam.,beras S 43° W. 28 lks. dist.,marked T35S R12W S16 BT
	Acedar, 10 ins.diam.,bears N 72° W. 25 lks. dist.,marked T35S R12W S9 BT
	Land, mountainous.
	Soil, rocky; 3rd rate.
	Timber, dense cedar and pinon. on mile
	Undergrowth, scattering sagebrush.
	Note: I destroy all trace of temp. cor. set.
	South on true line, bet. secs. 15 and 16.
	Over mountainous land, through dense forest of cedar and pinon .
.90	Hollow near head, course E.
	Ascend land, facing NE.
10.00	Ridge, 100 ft. high, bears NW. and E.
	Descend
19.00	Hollow, course SE.
29.00	Spur, 100 ft. high, projects E.
34.00	S. foot of spur, bears E. and W.
	Thence over land, sloping E.
41.33	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 16 on W. and S 15 on E. half; from which

Subdivision of T 35 S., R 12 W.

chains.	
	A pinon, 9 ins.diam.,bears S 31° E. 29 lks. dist.,marked ¼ S 15 B T.
	A cedar,18 ins.diam.,bears N 70° W. 14 lks. dist.,marked ¼ S 16 B T
61.50	Spur, 100 ft. high, projects E.
73.35	Ravine, course SE.
	Continue gradual descent.
81.33	The cor. of secs. 15-16-21 and 22.
	Land, mountainous, E. slope.
	Soil, stony and rocky; 3rd rate; granite formation.
	Timber, dense cedar and pinon on mile.
	Good indications of iron ore along line.

August 23:At the cor. of secs. 9-10-15 and 16, I set off 11° 34' N. on the decl. arc; and at 12h 3m l.m.t., observe the sun on the meridian; the resulting lat. is 37° 47', which is proper lat.

Thence I run

	North on a random line, bet. secs. 9 and 10.
40.00	Set temp. ½ sec. cor.
81.21	Intersect E. and W. line, 2.33 chs. S 89°16'W. of the cor. of secs. 3-4-9 and 10, which is a sandstone 10 x 12 x 10 ins. above the ground, marked and witnessed as described by the Surveyor General. At point of intersection with E. and W. line,
	Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground, for closing cor. of secs. 9 and 10, marked on brass cap

Subdivision of T 35 S., R 12 W.

chains	
	T 35 S R 12 W CC S 3 S 4 on N. half,
	S 10 in SE. and
	S 9 in SW. quadrant; from which
	A cedar, 8 ins.diam.,bears S. 71¾°E. 53 lks.
	dist.,marked T35S R12W S10 BT
	A pinon,10 ins.diam.,bears S 25¾° W. 24 lks.
	dist.,marked T35S R12W S9 BT
	Note: I destroy all marks and accessories on old cor.
	pertaining to secs. 9 and 10.
	Thence I run
	South on true line, bet. secs. 9 and 10.
	Over mountainous land, through dense forest of cedar
	and pinon.
	Ascend 100 ft. over land, facing NW. to
14.00	Ridge, bears NE. and SW.
	Descend 250 ft.
22.40	Wash in Gulch, course SW.
	Ascend 60 ft.
27.40	Spur, projects W. of lime formation.
	Descend abrupt S. slope.
31.00	Wash in gulch, 100 ft. deep, course NW.
	Ascend
36.00	Gulch, course NE.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the
	ground, for ¼ sec. cor.,marked on brass cap ¼ S 9 on W.
	and S 10 on E. half; from which
	A cedar, 8 ins.diam.,bears S 28° E. 59 lks.
	dist.,marked ¼ S 10 B T
	A cedar,13 ins.diam.,bears S 89¼° W. 64 lks.
	dist.,marked ¼ S 9 B T
	Gradually ascend land facing NE.
45.00	Ridge, bears NW. and SE.

Subdivision of T 35 S.,R 12 W.

chains	
	Descend 100 ft. to
55.70	Wash in hollow, 25 lks. wide, course NW.
	Ascend steep N. slope 350 ft. to
74.50	Top of rocky peak; bears E. 3 chs.,and W. 2 chs. dist.
	Descend S. slope, 200 ft. to
81.21	The cor. of secs. 9-10-15 and 16.
	Land, mountainous.
	Soil, rocky; 3rd and 4th rates.
	Timber, cedar and pinon on mile.
	Undergrowth, scattering sagebrush.
	August 23, 1910.

August 24, 1910: At 7h 32m a.m.,l.m.t.,I set off 37° 47'N. on the Eath. arc; 11° 18 'N on the Decl. arc; and determine a meridian with the solar at the cor. of secs. 8-9-16 and 17, which is a sandstone 34 x 6 x 4 ins. lying on the ground, dimly marked with proper notches, witnessed by a scattered mound of stone about the cor. I re-establish cor: at same point as follows:

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

T 35 S S 8 in NW,
R 12 W S 9 in NE,
S 16 in SE. and
S 17 in SW. quadrant; from which

A pinon,12 ins.diam.,bears N 78° E. 116 lks. dist.,marked T35S R12W S9 BT

A pinon,10 ins.diam.,bears S 54½° E. 72 lks. dist.,marked T35S R12W S16 BT

Subdivision of T 35 S., R 12 W.

chains	
	A cedar, 11 ins. diam., bears S 63½° W. 22 lks. dist., marked T35S R12W S17 BT
	A pinon, 12 ins. diam., bears N 17½° W. 78 lks. dist., marked T35S R12W S8 BT
	Thence I run
	S. 89° 56' E. on a random line bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
81.12	Intersect the N. and S. line, 2.82 chs. S. of the cor. of secs. 9-10-15 and 16.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 9 and 16, marked on brass cap
	T 35 S R 12 W in N. half,
	S 10 S 15 C C in E. half,
	S 16 in SW. and
	S 9 in NW. quadrant; from which
	A cedar, 9 ins. diam., bears S 88¾° W. 48 lks. dist., marked T35S R12W S16 BT
	A pinon, 9 ins. diam., bears N 30½° W. 34 lks. dist., marked T35S R12W S9 BT
	Note: I destroy all marks on old cor. pertaining to secs. 9 and 16.
	Thence I run
	N 89° 56' W. on true line, bet. secs. 9 and 16.
	Over mountainous land, through dense forest of cedar and pinon.
	Ascend steep NE. slope, 250 ft.
11.00	Top of ascent on N. slope of peak; peak bears SE. 3 chs.
	Descend 600 ft. over steep W. slope.
41.12	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 9 on N. and S 16 on S. half; from which

Retracement of subdivision of T 35 S., R 12 W.

chains

August 26, 1910: At 7h 2m a.m., l.m.t., I set off 37° 46' on the lat. arc; 10° 59'W. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 16-17-20 and 21, heretofore described.

Thence I run

North on a blank line, retracing bet. secs. 16 and 17.

79.22 Fall 11 lks. E. of the ¼ sec. cor., which is a sandstone 6 x 6 x 4 ins. above the ground, marked and witnessed as described by the Surveyor General.

Note: Course of this ½ mile is N 0° 18'W.

From ¼ sec. cor. I run North.

79.04 Fall 19 lks. E. of the cor. of secs. 8-9-16 and 17, heretofore described.

Course of N. ½ mile is N. 0° 16' W.

From cor. of secs. 8-9-16 and 17 I run

North on blank line retracing bet. secs. 8 and 9.

40.52 Fall 11 lks. E. of the ¼ sec. cor., which is a sandstone 10 x 10 x 5 ins. above the ground, marked and witnessed as described by the Surveyor General.

From the ¼ sec. cor. I run North.

41.49 Fall 178 lks. W. of the cor. of secs. 4-5-8 and 9, which is a sandstone 8 x 9 x 5 ins. above the ground, marked and witnessed as described by the Surveyor General.

Course of S. ½ mile is N. 0° 09'W. and dist. 40.52 chs.

Course of N. ½ mile is N 2° 24' E. and dist. 42.53 chs.

Retracement of subdivision of T 35 S., R 12 W.

chains	
	S. 89° 48' E. on blank line retracing bet. secs. 4 and 9.
40.30	After a long and careful search, I am unable to find any trace of the ½ sec. cor.
81.75	Fall 104 lks. S. of the cor. of secs. 3 and 4, heretofore described.
	True course of mile is N. 89° 16' E. 81.76 chs.

August 25, 1910.

General Description of T 35 S., R 12W.

The portion of this township as surveyed by me, consists of rough mountainous land. It is located in the center of the Iron mountian and takes in several high granite peaks, which are on the main dividing ridge, or backbone of the mountain, having a northerly and southerly trend. It is covered with a dense forest of scrub cedar and pinon pine and undergrowth of black sagebrush, some mahogany and oak brush. The soil is nearly all rocky, 4th rate, of granite and blue limestone formations.

Valuable iron ore and silver bearing quartz, is found through out these secs. I return these as mineral lands.

Numerous mineral claims and prospect holes, are located in this portion.

There are no settlers, nor any water in thes fractional township.

Andrew Nelson

Instrumentman G.L.O.

Retracement of subdivision of T 35 S., R 12 W.

chains

August 25, 1910: At 7h 2m a.m., l.m.t., I set off 37° 46' on the lat. arc; 10° 59' N. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 16-17-20 and 21, heretofore described.

Thence I run

North on a blank line, retracing bet. secs. 16 and 17.

39.23 Fall 21 lks. E. of the ¼ sec. cor., which is a sandstone 6 x 6 x 5 ins. above the ground, marked and witnessed as described by the Surveyor General.

Note: Course of this ½ mile is N 0° 18' W.

From ¼ sec. cor. I run North.

39.04 Fall 19 lks. E. of the cor. of secs. 8-9-16 and 17, heretofore described.

Course of N. ½ mile is N. 0° 16' W.

From cor. of secs. 8-9-16 and 17 I run

North on blank line retracing bet. secs. 8 and 9.

40.52 Fall 11 lks. E. of the ¼ sec. cor., which is a sandstone 10 x 10 x 5 ins. above the ground, marked and witnessed as described by the Surveyor General.

From the ¼ sec. cor. I run North.

42.49 Fall 178 lks. W. of the cor. of secs. 4-5-8 and 9, which is a sandstone 8 x 9 x 5 ins. above the ground, marked and witnessed as described by the Surveyor General.

Course of S. ½ mile is N. 0° 09' W. and dist. 40.52 chs.

Course of N. ½ mile is N 2° 24' E. and dist. 42.53 chs.

Retracement of subdivision of T 35 S., R 12 W.

chains	
	S. 89° 48' E. on blank line retracing bet. secs. 4 and 9.
40.30	After a long and careful search, I am unable to find any trace of the ¼ sec. cor.
81.75	Fall 104 lks. S. of the cor. of secs. 3 and 4, heretofore described.
	True course of mile is N. 89° 16' E. 81.76 chs.

August 25, 1910.

General Description of T 35 S., R 12W.

The portion of this township as surveyed by me, consists of rough mountainous land. It is located in the center of the Iron mountian and takes in several high granite peaks, which are on the main dividing ridge, or backbone of the mountain, having a northerly and southerly trend. It is covered with a dense forest of scrub cedar and pinon pine and undergrowth of black sagebrush, some mahogany and oak brush. The soil is nearly all rocky, 4th rate, of granite and blue limestone formations.

Valuable iron ore and silver bearing quartz, is found through out these secs. I return these as mineral lands.

Numerous mineral claims and prospect holes, are located in this portion.

There are no settlers, nor any water in this fractional township.

Andrew Nelson

Instrumentman G.L.O.

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Page

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

LIST OF NAMES.

A list of the names of the individuals employed by Andrew Nelson Instrumentman G.L.O., ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of subdivision, retracement and resurveys of frac'l sub. T 35 S., R 12 W. S.L.B.& M., Utah, showing the respective capacities in which they acted:

Jack Barker, *Chainman.*

Harry F. Wood, *Chainman.*

George Schroeder, *Moundman.*

, *Moundman.*

John Ad Millyard, *Axman.*

, *Axman.*

John Ad Millyard, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew Nelson Instrumentman G.L.O., ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the subdivision, retracement and resurveys of subdivision fractional T 35 S., R 12 W of the Salt Lake Base and meridian, state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Jack Barker, *Chainman.*

Harry F. Wood, *Chainman.*

George Schroeder, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

John Ad Millyard, *Flagman.* and axman

Subscribed and sworn to before me this 28th day of August, 1910.

SEAL

Andrew Nelson

Instrumentman G.L.O.

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____ United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____ bearing date of the _____ day of _____, 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____ the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

_____

For final oath of transitman see book "U" T.34 S., R. 14 W.

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

_____
United States Deputy Surveyor.

Described by said _____ and sworn to before me this _____ day of _____, 190

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, March 7, 1914

The foregoing field notes of the survey of the subdivisional lines of fractional township No. 15 South, Range No. 12 West of the Salt Lake Base and Meridian, Utah,

_____

Entered by _____ Andrew Nelson

for the Special Instructions, August 6, 1910 having been carefully examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

_____
United States Surveyor General.

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

_____
United States Surveyor General.

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Filed Feb.3, 1911.
WSH.

4-679

D.

BOOK A-376

FIELD NOTES

RE
OF THE SURVEY OF THE

EAST AND NORTH BOUNDARIES

OF

TOWNSHIP NO. 32 SOUTH

RANGE NO. 12 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

ANDREW NELSON

In the capacity of U. S. ~~*Surveyor*~~ Transitman, *under instructions dated* Aug. 6, *1910, issued by the United States Surveyor General to govern surveys included in Group No.* 2, *which were approved by the Commissioner of the General Land Office,* August 25, *1910, pursuant to authority contained in the Act of Congress dated* _____, *191*__

Survey commenced August 29, *1910*

Survey completed September 5, *1910.*

6—151

Jack Barker, Chainman.

Harry F.Wood, Chainman.

George Schroeder, Moundman.

John Ad.Millyard, Flagman and Axman.

BOOK A-376

INDEX DIAGRAM.

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

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19	20	21	22	23	24
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31	32	33	34	35	36

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BOOK A-376

INDEX DIAGRAM.

Township 32S, *Range* 12W

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

Meanders Page X

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Jack Barker and Harry F. Wood 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~~ Resurvey of East and North bdrs. of T 32 S., R 12 W., S.L.B.& M. Utah.

Jack Barker, Chainman.

Harry F. Wood, Chainman.

Subscribed and sworn to before me this 28 day of August, 1900

SEAL

Andrew Nelson
Instrumentman G.L.O.

~~WE~~ I George Schroeder ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the ~~survey of~~ Resurvey of East and North bdrs. of T 32 S., R 12 W., S.L.B.& M. Utah.

George Schroeder, Moundman.

, Moundman.

Subscribed and sworn to before me this 28 day of August, 1900

SEAL

Andrew Nelson
Instrumentman G.L.O.

~~WE~~ I John Ad Millyard ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the ~~survey of~~ Resurvey of East and North bdrs. of T 32 S., R 12 W. S.L.B.& M. Utah.

John Ad Millyard, Axman.

, Axman.

Subscribed and sworn to before me this 28 day of August, 1900

SEAL

Andrew Nelson
Instrumentman G.L.O.

I, John Ad Millyard, 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 East and North bdrs. of T 32 S., R 12 W., S.L.B.& M., Utah.

John Ad Millyard, Flagman.

Subscribed and sworn to before me this 28 day of August, 1900

SEAL

Andrew Nelson
Instrumentman G.L.O.

6—151

Resurvey of East bdy. of T 32 S., R 12 W.

Survey commenced August 29, 1910, and executed with a W. & L. E. Gurley light mountain transit, with solar attachment. For description of instrument see book "A" of this survey.

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

At the cor. of Tps. 32 and 33 S., R 12 W.; latitude 37° 59' 04"N., longitude 113° 06' 05"W.; I set off 37° 59' on the lat. arc; 9° 26'N. on the decl. arc; and, at 5h 1m p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stake firmly driven in the ground, 5 chs. N. of the cor.

At 9h 3m p.m. by my watch which carries correct l.m.t. I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

August 29, 1910.

- -

August 30: At 7h 31m a.m., l.m.t., I lay off the azimuth of Polaris 1° 29½' to the west, and mark the meridian thus determined, by driving a small nail in the stake set August 29, this meridian coincides with that determined by the solar.

At 8h 1m a.m., l.m.t., I set off 37° 59' N. on the lat. arc; 9° 12' N. on the decl. arc; and mark a point in the meridian determined with the solar, by a nail driven in the stake already set, 5 chs. N. of my station; this meridian falls 0.2 ins. west of the meridiam established

Resurvey of East bdy. of T 32 S., R 12 W.

chains

by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, practically coincides with the meridian established by observation on Polaris; therefore I conclude that the adjustments of the instrument are satisfacory.

The magnetic bearing of the true meridian, at 8h 16m a.m., is N. 15° 48' W.; the angle thus determined gives the mag. decl. 15° 48' E.

Preliminary to commencing the subdivision of this tp. I run N. 0° 14' E. on a blank line, on the east boundry of the township; At 6 miles 16.25 chs., intersect the E. and W. line, 44 lks. E. of the cor. of Tps. 31 and 32 S., R 12 W., and asthese townships have not been subdivided I resurvey the east boundry of T 32 S., R 12 W as follows:

From cor. of Tps. 32 and 33 S., R 12 W., which is a 3 in. iron post, heretofore described.

I run

N. 0° 11' E. on resurvey line bet. secs. 31 and 36.

Over mountainous land, thru short undergrowth of sage., and over rocky ground.

Descend 75 ft. over N. slope of ridge.

5.80 Hollow, course W.

Ascend land facing S. 150 ft.

At 10.58 chs. Find old closing cor. of Tps. 32 and 33 S R 11 W. which is a granite stone, 17 x 11 x 7 ins.

I destroy all trace of cor.

18.25 Ridge, bears NE. and SW.

Descend 150 ft. over land facing NW.

20.60 Wash, in hollow, course S 80° W.

Ascend 250 ft.

40.00 On S. end of spur, bears N.

Resurvey of east bdy. T 32 S., R 12 W.

chains	
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 36 on W. and S 31 on E. half; raise a mound of stone, 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
	Thence along top of spur.
49.00	Ridge, bears E. and W.
	Begin descent.
	At 50.70 chs. find old ¼ sec. cor., which is a granite stone, 13 x 12 x 7 ins. I destroy all trace of cor.
	Descend steep N. slope, 275 ft. to
72.75	Ravine, course N 30° W.
	Thence over land, facing W.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap
	T 32 S in N. half,
	S 30 in NE,
	S 31 R 11 W in SE,
	S 36 R 12 W in SW and
	S 25 in NW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Land, rough mountainous.
	Soil, rocky; 4th rate.
	Undergrowth, short sagebrush. No timber.
	- -
	N. 0° 11' E. Resurveying bet. secs. 25 and 30.
	Over mountainous land., thru undergrowth of short sage.
	Gradually ascend land, facing nearly W.
	- -
	No trace of old sec. cor. found.
13.00	W. end of spur, 75 ft. high, bears E.
	Descend 50 ft. to
17.25	Draw, course S 80° W.

Resurvey of east bdy T 32 S., R 12 W.

chains

28.00 Ridge, bears NE. and SW.

Thence along W. side near top.

40.00 On spur, projects W.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ½ S 25 on W. and S 30 on E. half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.

Descend 150 ft.

At 50.75 chs., W. 10 lks. of my line, I find the old ¼ cor., which is a granite 19 x 11 x 7 ins. I destroy all trace of cor.

51.35 Wash, 10 lks. wide, 3 ft. deep, course NW.

Ascend 125 ft.

61.00 Spur near W. end, bears E.

Gradually descend land draining W.

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

T 32 S in N. half,

S 19 in NE,

S 30 R 11 W in SE,

S 25 R 12 W in SW. and

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

Land, mountainous, general slope to the W.

Soil, hard, coarse gravelly and rocky; 3rd rate.

Undergrowth, scattering short sagebrush. No timber.

- -

N. 0° 11' E. Resurveying bet. secs. 19 and 24.

Over rolling mountainous land.

2.10 Small wash, course E.; gradually ascend.

6.00 Low, ridge, bears NE. and S 60° W.

Resurvey of East bdy. T 32 S., R 12 W.

chains	
	At 11.07 chs. I find the old sec. cor., I destroy all trace of it.
16.50	Same ridge, bears NW. and SE.
	Descend 75 ft. over land, facing NE.
32.00	Wide, shallow, hollow, course NE.
	Ascend 50 ft.
40.00	On ridge, bears E. and SW.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 24 on W. and S 19 on E. half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	August 30: At this ¼ sec. cor., I set off 9° 8' N. on the decl. arc; and at apparent noon, observe the sun on the meridian; the resulting lat. is 38° 01½'.
41.00	Descend 60 ft. to
51.50	Wash, 20 lks. wide, 5 ft. deep, course W.
	Ascend 20 ft.
	At 54.00 chs. Find the old ½ sec. cor.; I destroy all trace of the cor.
54.00	Leave mountainous land, bears NE. and SW.
	Thence over gently rolling land, sloping W., thru dense sagebrush, 2 to 3 ft. high.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked on brass cap
	T 32 S in N. half,
	S 18 in NE,
	S 19 R 11 W in SE,
	S 24 R 12 W in SW. and
	S 13 in NW. quadrant; dig pits 24 x 18 x 12 ins in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, S. 54 chs., rolling mountainous; soil coarse gravelly and stony; 3rd rate, with short sagebrush:

Resurvey of East bdy. T 32 S.,R 12 W.

chains

N. 26 chs.,gently rolling,slopes to the W.; soil gravelly and sandy loam, 2nd rate, with dense black sagebrush, 2 to 3 ft. high. No timber.

- -

N. 0° 11' E. Resurveying bet. secs. 13 and 18.

Over gently rolling land, sloping W.,thru dense sagebrush

At 14.35 Find old sec. cor.,I destroy all trace of it.

40.00 Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 13 on W. and S 18 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base. 1½ ft. high W. of cor.

48.00 Center of a hollow, 15 ft. deep, 6 chs. wide, course W.

At 54.65 chs. Find old ¼ sec. cor.; I destroy all trace of cor.

73.00 Center of hollow, 10 ft. deep, 4 chs. wide, course W.

80.00 Set an iron post, 3 ft. long, 3 ins.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,

S 7 in NE,

S 18 R 11 W in SE,

S 13 R 12 W in SW. and

S 12 in NW. quadrant; from which

A cedar,12 ins.diam.,bears S 36½°W. 343 lks. dist.,marked T 32 S R 12 W S 13 B T

A cedar,12 ins.diam.,bears N 32½°W. 295 lks. dist.,marked T 32 S R 12 W S 12 B T and

raise a mound of earth and stone, 2 ft. base, 1½ ft.high W of cor. No other bearing trees within limits.

Land, gently rolling.

Soil, gravelly and sandy loam; 2nd rate.

Undergrowth, dense sagebrush, 2 to 3 ft. high .
Timber, scattering cedar.

- - - - - - - - - - - - - - - - -

Resurvey of East bdy. T 32 S.,R 12 W.

chains	
	N. 0° 11' E. resurveying bet. secs. 7 and 12.
	Over rolling land, thru undergrowth of sagebrush.
20.80	Old road, bears NE. and SW.
31.40	Wash, 20 lks. wide, 3 ft. deep, course S 20°W.
40.00	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 12 on W. and S 7 on E. half; dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft.dist.,and raise a mound of earth, 3½ft. base, 1½ ft.high W. of cor.
	At 55.18 chs.,Find old ¼ sec. cor.; I destroy all trace of cor.
76.00	Wash, 30 lks. wide, course SE.
	Enter cedar timber, bears NW. and SE.
80.00	Set an iron post, 3 ft.long, 3 ins.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,
	S 6 in NE,
	S 7 R 11 W in SE,
	S 12 R 12 W in SW. and
	S 1 in NW. quadrant; from which
	A Cedar,8 ins.diam.,bears S 80½° W. 138 lks. dist.,marked T 32 S R 12 W S 12 B T
	A cedar,8 ins.diam,.bears N 30¼° W. 115 lks. dist.,marked T 32 S R 12 W S 1 B T and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	No other bearing trees within limits.
	Land, rolling, sloping to the S.
	Soil, gravelly loam, 8 to 12 ins. deep; subsoil, hardpan of gravel; undergrowth, sagebrush, 2 ft. high.
	Timber, cedar on N 4 chs.

- -

Resurvey of East bdy. T 32 S.,R 12 W.

chains

N. 0° 11' E. resurveying bet. secs. 1 and 6.

Over rolling mountainous land, thru dense forest of scrub cedars.

Ascend land, facing S.

At 15.64 chs., I find old ¼ sec. cor.; I destroy stone and deface the B. Ts.

39.00 Low ridge, bears NW. and S 10°E.

40.00 Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 1 on W. and S 6 on E. half; from which

A cedar,6 ins.diam.,bears N 14½° E. 80 lks. dist.,marked ¼ S 6 B T

A cedar,10 ins.diam.,bears N 7½° W. 85 lks. dist.,marked ¼ S 1 B T; and also raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.

Descend gradually NE. slope

48.00 Ravine, course SE.

Ascend.

At 55.98 chs.,I find the old ¼ sec. cor.; Destroy all trace of cor.

96.25 On W. slope of high ridge.

Intersect the old cor. of Tps. 31 and 32 S.,R 12 W., which is a gray granite stone 30 x 10 x 8 ins., firmly set in a mound of stone, marked and witnessed as described by the Surveyor General.

Land, rolling mountainous, slopes to the SW.

Soil,gravelly and rocky; 3rd rate.

Timber, dense cedars on 96. 25 chs.

Note: This cor. was afterwards moved 18.25 chs. S. for description see N. bdy. of tp.

August 30, 1910

- -

Resurvey of North bdy. T 32 S.,R 12 W.

chains

Sept. 3: At 9h 0m a.m.,l.m.t.,I set off 38° 04¼' N. on the lat. arc; 7° 44'N. on the decl. arc; and determine a meridian with the solar, at the cor. of Tps. 31 and 32 S., R 12 W.

Thence I run

West, on a random line, on N. bdrs. of secs. 1 and 2. At 168.88 chs.,fall 15.98 chs. N. of cor. of secs. 2, 3, 34 and 35, which is a granite stone, 23 x 10 x 6 ins., lying on the ground, marked and witnessed as described by the Surveyor General; therefore I continue my random line West, along the north bdy. of the township, and at 6 miles, 8.17 chs.,intersect the N. and S. line, 18.25 chs. north of the cor. of Tps. 31 and 32 S.,Rs. 12 and 13 W.,which is a granite stone, 9 x9 x 10 ins, firmly set in the ground, dimly marked with proper notches, no accessories; I re-establish cor. at same point as follows:

Set an iron post, 3 ft. long, 3 ins.dia.,24 ins. in the ground, marked on brass cap

T 31 S in N. half,

T 32 S in S. half,

R 12 W S 31 in NE,

R 12 W S 6 in SE,

R 13 W S 1 in SW. and

R 13 W S 36 in NW. quadrant; dig pits 24 x 24 x 12 ins.,on each line, N.,E.,and W.,4 ft.,and S. of post, 8 ft.dist.; raise a mound of earth, 5 ft.base, 2½ ft. high S. of cor.

Note: 3 p.m., heavy rain prevents further field work.

Sept. 3, 1910

Resurvey of North bdy. T 32 S., R 12 W.

chains	
	Sept. 5: At 6h 59m a.m., l.m.t., I set off 38° 04½' on the lat. arc; 7° 03' N. on the decl. arc; and determine a meridian with the solar, at the cor. of Tps. 31 and 32 S., Rs. 12 and 13 W.
	Thence I run
	East, on true line, resurveying bet. secs. 6 and 31.
	Over land nearly level, slight slope to the W.
24.00	Swale, drains NW.
48.17	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 31 on N. and S 6 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
	Note: No trace of old ¼ sec. cor. found.
88.17	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked on brass cap
	T 31 S S 31 in NW,
	R 12 W S 32 in NE,
	R 12 W S 5 in SE and
	T 32 S S 6 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, nearly level.
	Soil, deep sandy loam; subsoil gravelly.
	Undergrowth, scant short sagebrush.
	No timber.
	- -
	East, on true line resurveying bet. secs. 5 and 32.
	Over gently rolling land, sloping W.
30.36	Road, Parowan to Milford, via Warm Spr., bears NW. & SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 32 on

Resurvey of North bdy. T 32 S., R 12 W.

chains	
	N. and S 5 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft.dist.,and raise a mound of earth and stone, 4 ft. base, 1½ ft.high N. of cor.
58.00	Shallow wash, 50 lks. wide, course SW.
72.00	Small wash, 5 lks. wide, course S 60°W.
80.00	Set an iron post, 3 ft.long, 3 in.dia.,24 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, marked on brass cap T 31 S S 32 in NW, R 12 W S 33 in NE, R 12 W S 4 in SE. and T 32 S S 5 in SW. quadrant; raise a mound of stone, 2 ft.base, 1½ ft.high W. of cor.
	Land, rolling, sloping to the W.
	Soil, light poor sandy loam and gravelly; subsoil, hard gravelly and stony; 2 and 3rd rates.
	Undergrowth, scant short sagebrush. No timber.
	East, on true line resurveying bet secs. 4 and 33.
	Over gently rolling land, sloping W.
	At 32.74 chs.,I find old ¼ sec. cor, which is a limestone, 16 x 16 x 7 ins.,properly marked and witnessed. I destroy all trace of cor.
33.00	Enter scattering cedar timber, bears N. and SE.
	Dense timber bears N. 10 chs. dist.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 33 on N. and S 4 on S. half; from which A cedar,14 ins.dia.,bears S 84½°W. 168 lks. dist.,marked c ¼ S 4 B T and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. No other trees within limits.

Resurvey of North bdy. T 32 S., R 12 W.

chains

Gradully ascend over rolling hills, at foot of mountain.

63.60 Wash, 20 lks. wide, 3 ft. deep, course SW. and

Leave timber, bears N. and S.

At 72.92 chs., I find the old sec. cor.; I destroy all trace of cor.

80.00 At foot of mountain.

Set an iron post, 3 ft. long, 3 ins.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 12 W S 34 in NE,

R 12 W S 3 in SE. and

T 32 S S 4 in SW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.

Land, rolling, with slope to the W.

Soil, hard gravelly and stony; 3rd rate.

Timber, some scattering cedars on E. ½ mile.

Undergrowth, scattering black sagebrush.

East, on true line resurveying bet. secs. 3 and 34.

Over rough mountainous land.

Ascend 240 ft. over W. slope

19.00 High ridge, bears NE. and SW.

Descend 75 ft. to

24.00 Draw, near head, drains S.

Ascend 40 ft.

27.50 Spur, projects S.

32.00 Draw, course S.

At 32.32 chs.,I find old ¼ sec. cor.; I destroy all trace of cor.

35.00 Ridge, bears N. and S.

Thence descend land, facing nearly S.

Resurvey of North bdy. T 32 S.,R 12 W.

chains	
40.00	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 34 on N. and S 3 on S. half; raise a mound of stone, 2 ft.base, 1½ ft. high N. of cor.
48.00	Wash, in hollow, 150 ft.deep, course SW.
	Ascend rocky SW. slope, 125 ft. to
56.50	Summit of ascent on S. slope of rocky knoll.
	Descend 75 ft.
61.50	Hollow, course SW.
	Ascend steep land, facing NW.,225 ft. to cor.
	At 71.12 chs.,and N. of my line, 2.27 chs. is the old cor. of secs. 2, 3, 34 and 35; I destroy all trace of cor.
80.00	On S. slope of high ridge. Highest point on boundry.
	Set an iron post, 3 ft. long, 3 ins.dia.,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 12 W S 35 in NE,
	R 12 W S 2 in SE. and
	T 32 S S 3 in SW.quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, rough mountainous.
	Soil, all rocky; 4th ra te.
	Undergrowth, sagebrush. No timber.
	Sept. 5: At this sec. cor.,I set off 6° 56½'N. on the decl. arc; and at apparent noon observe the sun on the meridian; the resulting lat. is 38° 04', which is proper latitude.

North boundry of T 32 S.,R 12 W.

chains	
	East, on true line bet. secs. 2 and 35.
	Over mountainous land.
5.00	Begin descent over E. slope of ridge.
10.00	Enter forest of cedar, bears N. and S.
40.00	400 ft. below top of ridge.
	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 35 on N. and S 2 on S. half; from which
	A cedar,14 ins.diam.,bears S 25°E. 34 lks. dist.,marked ¼ S 2 B T
	A cedar,9 ins.diam.,bears N 16½° W. 60 lks. dist.,marked ¼ S 35 B T
45.00	Wash, in hollow, 50 ft. below ¼ cor.,course S.
50.00	Low ridge, bears N. and S.
	Thence over high rolling hills, draining S.,thru dense forest of cedar.
55.00	Wash, 15 lks. wide, in hollow 45 ft. deep, course S.
76.00	Low ridge, bears N. and S 10°E.
80.00	Set an iron post, 3 ft. long, 3 ins.dia.,24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap
	T 31 S S 35 in NW,
	R 12 W S 36 in NE,
	R 12 W S 1 in SE. and
	T 32 S S 2 in SW. quadrant; from which
	A cedar,16 ins.diam,.bears N 29°E. 121 lks. dist.,marked T 31 S R 12 W S 36 B T
	A cedar,10 ins.diam.,bears S 48¾°E. 52 lks. dist.,marked T 32 S R 12 W S 1 B T
	A pinon, 9 ins.diam.,bears S 32¾°W. 113 lks. dist.,marked T 32 S R 12 W S 2 B T
	A cedar,10 ins.diam.,bears N 10¼°W. 76 lks. dist.,marked T 31S R12W S35 BT

North boundry of T 32 S.,R 12 W.

chains	
	Land, rolling mountainous, general slope to the S.
	Soil, gravelly and stony; 3rd rate.
	Undergrowth, scattering black sagebrush.
	Timber, dense cedars on E. 70 chs.
	- - - - - - - - - - - - - - - - -
	East, on true line, bet. secs. 1 and 36.
	Over rolling mountainous land, thru dense forest of cedar
28.00	Hollow, course S. Ascend.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 36 on N. and S 1 on S. half; from which
	A cedar,12 ins.diam.,bears S 47¾°W. 80 lks. dist.,marked ¼ S 1 B T
	A cedar,10 ins.diam.,bears N 19½°E. 62 lks. Dist.,marked ¼ S 36 B T
	Note: cor. situated on low spur, projects S. Descend.
47.80	Hollow, course S 20°W.
56.00	Low spur, bears N. and S.
64.00	Hollow, course SW.
	Ascend 185 ft. to
80.00	Intersect the E. bdy. of the Tp., 18.25 chs., S 0° 11'W. of the cor of Tps. 31 and 32 S.,R 12 W., heretofore described.
	Set an iron post, 3 ft. long, 3 ins.dia.,24 ins. in the ground, for cor. of Tps. 31 and 32 S.,R 12 W.,marked on brass cap
	T 31 S in N. half,
	R 11 W in E. half,
	T 32 S in S. half,
	R 12 W S 1 in SW. and
	R 12 W S 36 in NW. quadrant; from which
	A cedar,12 ins.dia.,bears S 30¼°W. 44 lks. dist.,marked T 32 S R 12 W S 1 B T

North boundry of T 32 S., R 12 W.

chains	
	East, on true line bet. secs. 2 and 35.
	Over mountainous land.
5.00	Begin descent over E. slope of ridge.
10.00	Enter forest of cedar, bears N. and S.
40.00	400 ft. below top of ridge.
	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 35 on N. and S 2 on S. half; from which
	A cedar,14 ins.diam.,bears S 25°E. 54 lks. dist.,marked ¼ S 2 B T
	A cedar,9 ins.diam.,bears N 16½° W. 60 lks. dist.,marked ¼ S 35 B T
45.00	Wash, in hollow, 50 ft. below ½ cor.,course S.
50.00	Low ridge, bears N. and S.
	Thence over high rolling hills, draining S.,thru dense forest of cedar.
55.00	Wash, 15 lks. wide, in hollow 45 ft. deep, course S.
76.00	Low ridge, bears N. and S 10°E.
80.00	Set an iron post, 3 ft. long, 3 ins.dia.,24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap
	T 31 S S 35 in NW,
	R 12 W S 36 in NE,
	R 12 W S 1 in SE. and
	T 32 S S 2 in SW. quadrant; from which
	A cedar,16 ins.diam.,bears N 29°E. 121 lks. dist.,marked T 31 S R 12 W S 36 B T
	A cedar,10 ins.diam.,bears S 48¾°E. 52 lks. dist.,marked T 32 S R 12 W S 1 B T
	A pinon, 9 ins.diam.,bears S 32¾°W. 113 lks. dist.,marked T 32 S R 12 W S 2 B T
	A cedar,10 ins.diam.,bears N 10½°W. 76 lks. dist.,marked T 31S R12W S35 BT

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

LIST OF NAMES.

A list of the names of the individuals employed by Andrew Nelson Instrumentman G.L.O. ~~, United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the resurvey of East and North bdrs. of T 32 S.,R 12 W. S.L.B.& M.,Utah, showing the respective capacities in which they acted:

Jack Barker, *Chainman.*

Harry F. Wood, *Chainman.*

George Schroeder, *Moundman.*

, *Moundman.*

John Ad Millyard, *Axman.*

, *Axman.*

John Ad Millyard, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew Nelson Instrumentman G.L.O. ~~, United States Deputy Surveyor~~, in surveying all those parts or portions of the Resurvey of East and North bdrs. T 32 S.,R12W 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

Jack Barker, *Chainman.*

Harry F. Wood, *Chainman.*

George Schroeder, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

John Ad Millyard, *Flagman.*

Subscribed and sworn to before me this 6 day of September, 1910

SEAL

Andrew Nelson

Instrumentman G.L.O.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 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 "V" T. 33 S., R. 16 W.

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

_____

United States Deputy Surveyor.

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

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 7, 1914

The foregoing field notes of the re survey of the east and north boundaries of Township No. 32 South, Range No. 12 West of the Salt Lake Base and Meridian, Utah,

executed by Andrew Nelson under his ~~contract No.~~ special instructions, dated August 6, 1910, ~~190~~ , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hall

United States Surveyor General.

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

_____

United States Surveyor General.

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FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP 32 SOUTH

RANGE 12 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

ANDREW NELSON AND WALTER A.STUMM

In the capacity of U. S. ~~*Surveyor*~~ Transitmen, *under instructions dated* Aug.6, *191*0, *issued by the United States Surveyor General to govern surveys included in Group No.* 2, *which were approved by the Commissioner of the General Land Office,* Aug.25, *191*0 *pursuant to authority contained in the Act of Congress dated* _____, *191*__

Survey commenced August 30, *191*0

Survey completed September 8, *191*0.

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Clarence C.Shelby,	Chainman.
Jack Barker,	Chainman.
Harry F.Wood,	Chainman.
Park Stumm,	Chainman.
George Schroeder,	Moundman.
George A.Faust,	Moundman.
John Ad.Millyard,	Flagman and Axman.
Louis F.Racine,	Flagman.

BOOK A-376

INDEX DIAGRAM.

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

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INDEX DIAGRAM.

Township 32S, *Range* 12 W

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Jack Barker, Harry F. Wood and Park Sturm, Clarence C. Shelby 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

Subdivision of T 32 S., R 12 W S.L.B.& M., Utah.

Jack Barker, Harry F. Wood, Chainmen.
Park Sturm, Clarence C. Shelby, Chainmen.

Subscribed and sworn to before me this 28 day of August, 1900

SEAL

Andrew Nelson
Instrumentman G.L.O.

WE, George Schroeder and George A. Faust 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

Subdivision of T 32 S., R 12 W. S.L.B.& M., Utah.

George Schroeder, Moundman.
George A. Faust, Moundman.

Subscribed and sworn to before me this 28 day of August, 1900

SEAL

Andrew Nelson
Instrumentman G.L.O.

~~WE~~, I John Ad Millyard ~~and~~ do solemnly swear that ~~we~~ will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of

Subdivision of T 32 S., R 12 W. S.L.B.& M., Utah.

John Ad Millyard, Axman.
, Axman.

Subscribed and sworn to before me this 28 day of August, 1900

SEAL

Andrew Nelson
Instrumentman G.L.O.

~~I~~ We Louis F. Racine, John Ad Millyard do solemnly swear that ~~I~~ we will well and truly perform the duties of flagman according to instructions given ~~me~~ us, to the best of ~~my~~ our skill and ability, in the survey of Subdivision of T 32 S., R 12 W. S.L.B.& M., Utah.

Louis F. Racine, Flagman.
John Ad Millyard, Flagman

Subscribed and sworn to before me this 28 day of August, 1900

SEAL

Andrew Nelson
Instrumentman G.L.O.

Subdivision of T 32 S., R 12 W.

chains

Survey commenced August 30, 1910, and executed with a W. & L. E. Gurley light mountain transit, no. 9624, with solar attachment, and a Young & Sons solar compass. For description see book "A" of this survey.

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

At the cor. of secs. 35 and 36, in the S. bdy. of the tp.; latitude 37° 59' 04" N., longitude 113° 06' 05" W., I set off 37° 59'N. on the lat. arc; 9° 05'N. on the decl. arc; and, at 5h 0m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stake firmly driven in the ground, 5 chs. N. of the cor.

At 8h 59m p.m. by my watch, which carries correct l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

August, 30, 1910.

- -

August 31: At 7h 30m a.m. l.m.t., I lay off the azimuth of polaris, 1° 29½' to the west, and mark the meridian thus determined, by a nail driven in the stake set August 30, this meridian agrees with that determined by the solar.

At 8h 0m.a.m., l.m.t., I set off 37° 59' on the lat. arc; 8° 50½'N. on the decl. arc; and determine a meridian with the solar. This meridian agrees with the meridian established by Polaris observation.

The solar apparatus, by p.m. and a.m. observations, agrees with the meridian established by the Polaris

Subdivision of T 32 S., R 12 W.

chains	
	observation; therefore I conclude that the adjustments of the instrument are satisfactory.
	- -
	From the cor. of secs. 35 and 36, heretofore described.
	I run
	N. 0° 10' E. bet. secs. 35 and 36.
	Over mountainous land.
3.50	Ravine, course SW.
	Ascend 100 ft. over land, facing SE.
27.00	Top of ridge, bears NE. and SW.
	Descend 65 ft.
31.66	Ravine, course SW.
	Ascend 65 ft. to
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for ½ sec. cor., marked on brass cap ½ S 35 on W. and S 36 on E. half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Continue ascent.
50.00	Spur, 140 ft. above ravine, projects SW.
	Descend 140 ft. to
60.00	Ravine, course SW.
	Ascend, 150 ft. to
70.00	Spur, projects SW.
	Thence along E. slope.
76.00	Head of ravine, course E.
79.00	To top of spur, bears N 20°E. and S 20°W.
80.00	Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked on brass cap T 32 S S 26 in NW, R 12 W S 25 in NE, S 36 in SE. and S 35 in SW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Land, mountainous, general slope to the W.

Subdivision of T 32 S.,R 12 W.

chains	
	Soil, coarse gravelly and rocky; 3rd rate.
	Undergrowth, short shadscale and sagebrush, on mile.
	No timber.
	- - - - - - - - - - - - - - - - - - - -
	East on random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
79.88	Intersect the N. and S. line, 5 lks. N. of cor. of secs. 25, 30, 31 and 36 in the E. bdy. of Tp. heretofore described.
	Thence I run
	N. 89° 58'W. on true line bet. secs. 25 and 36.
	Over mountainous land.
	gently descend to
4.00	Ravine, course NW.; gradually ascend.
20.00	Spur, projects N.; descend 140 ft. to
32.00	Ravine, course SW.
	Ascend 175 ft. to
39.94	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 25 on N. and S 36 on S. half; raise amound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.
	Continue to ascend 100 ft. to
46.00	Ridge, bears NE. and SW.
	DEscend 100 ft.
58.00	Ravine, course SW.
	Ascend 65 ft.
66.00	Spur, projects SW.; descend 50 ft. to
68.50	Ravine, course SW. gently ascend.
78.00	Spur, projects SW.
79.88	The cor. of secs. 25, 26, 35 and 36.
	Land, mountainous.
	SSoil, coarse gravelly and rocky; 3rd rate.
	Undergrowth, short shadscale and black sagebrush.
	No timber.
	August 31: At this sec. cor. I set off 8° 46½'N. on the decl. arc; and, at apparent noon observe the sun on the meridian; the resulting lat is 38° 0'.

Subdivision of T 32 S., R 12 W.

chains

N. 0° 10' E. bet, secs. 25 and 26.

Over mountainous land, facing W.

Descend 190 ft. to

12.00 Ravine, course SW.

Thence over rolling hills, sloping SW.

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

54.19 Wood road, bears NE. and SW.

73.00 Spur, 80 ft. above last ravine, projects W.

descend 20 ft. to

80.00 Set an iron post, 3 ft.long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 23,24,25 and 26, marked on brass cap

T 32 S S 23 in NW,

R 12 W S 24 in NE,

S 25 in SE. and

S 26 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec.,5½ ft.dist.,and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Land, S. 12 chs. high mountainous, W. slope; N. 68 chs. rolling hills, sloping W.;soil light sandy loam and gravelly, subsoil gravel hardpan; 2nd rate.

Undergrowth, short shadscale and sagebrush on mile.

No timber.

- - - - - - - - - - - - - - - - - - - -

S. 89° 58'E. on random line bet. secs. 24 and 25.

40.00 Set temp. ¼ sec. cor.

79.92 Intersect E. bdy. of the tp.,9 lks. N. of cor. of secs. 19,24,25 and 30, heretofore described.

Thence I run

N. 89° 54'W. on true line bet. secs. 24 and 25.

Subdivision of T 32 S., R 12 W.

chains	
	Over rolling mountainous land.
	Ascend 30 ft. to
.50	Spur, projects SW.
8.00	Ravine, course SW.
	Ascend, 70 ft.
14.00	Ridge, bears NE. and SW.
	Descend 190 ft. to
39.96	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 24 on N. and S 25 on S. half; raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.
	Continue descent of 40 ft. to
57.00	Ravine, course NW.; ascend 40 ft.
62.00	Spur, projects NW.
	Descend 145 ft. to
79.92	The cor. of secs. 23,,24, 25 and 26 .
	Land, rolling mountainous.
	Soil, gravelly and stony; 3rd rate.
	Undergrowth, short black sagebrush. No timber.
	- -
	N. 0° 10' E. bet. secs. 23 and 24.
	Descend over hilly land.
10.00	Leave hilly land, bears SW. and E.
	Thence over gently rolling land, thru dense short sagebrush.
20.85	Old road, bears N. 80° E. and S. 80° W.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 23 on W. and S 24 on E. half; dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 13,14,23 and 24, marked on brass cap

Subdivision of T 32 S.,R 12 W.

chains	
	T 32 S S 14 in nw,
	R 12 W S 13 in NE,
	S 24 in SE. and
	S 23 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec.,5½ft. dist.,and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, S. 10 chs.,hilly, on N. slope; soil gravelly.
	N. 70 chs.,gently rolling, slight slope to the W., with deep rich sandy loam, subsoil gravel; dense sagebrush, 1 ft. high. No timber.
	- - - - - - - - - - - - - - - - - - - -
	S. 89° 54'E. on random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect E. bdy. of tp.,2 lks. N. of cor. of secs. 13, 18,19 and 24, heretofore described.
	Thence I run
	N. 89° 53'W. on true line bet. secs. 13 and 24.
	Over gently rolling land, sloping W.,thru dense short sagebrush and greasewood.
39.95	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 13 on N. and S 24 on S. half; dig pits 18 x 18 x 12 ins.,E. and W. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
79.90	The cor. of secs. 13, 14, 23 and 24.
	Land, gently rolling,
	Soil, deep rich sandy loam; 1st rate.
	Undergrowth, dense sagebrush and greasewood, 1ft. high.
	No timber.
	August 31, 1910.
	- -

chains	
	Sept. 2: At 10h.0m.a.m.,l.m.t.,I set off 38° 01¾' on the lat. arc; 8° 4¾'N. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 13, 14, 23 and 24.
	Thence I run
	N. 0° 10' E. bet. secs. 13 and 14.
	Over rolling land, thru dense undergrowth of sagebrush.
13,86	Old road, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 14 on W. and S 13 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft.long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 11,12,13 and 14, marked on brass cap
	T 32 S S 11 in NW,
	R 12 W S 12 in NE,
	S 13 in SE. and
	S 14 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec.,5½ft.dist.,and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, rolling, slight slope to the SW.
	Soil, deep rich sandy loam; subsoil gravel; 1st rate.
	Undergrowth, dense sagebrush, 1 ft. high.
	No timber.
	- -
	S. 89° 53'E. on random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect E. bdy. of the tp.,2 lks. N. of cor. of secs. 7,12,13 and 18, heretofore described.
	Thence I run
	N. 89° 52'W. on true line bet. secs. 12 and 13.
	Over gently rolling land, facing W.,thru dense sagebrush.

Subdivision of T 32 S.,R 12 W.

chains
6.80 Wash, 20 lks. wide, 6 ft.deep, course SW.

13.85 Road, bears NE. and SW.

40.01 Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 12 on N. and S 13 on S. half; dig pits 18 x 18 x 12 ins.,E. and W. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.

80.02 The cor. of secs. 11,12,13 and 14.

Land, gently rolling, slopes to the W.

Soil, sandy loam and gravelly; 1st rate.

Undergrowth, dense sagebrush, 1 ft. high.

No timber.

Walter A. Stimson

Instrumentman G.L.O.

- -

Sept. 6: At 6h.59m a.m.,l.m.t.,I set off 38° 02½' on the lat. arc; 6° 40¾'N. on the decl. arc; and determine a meridian with the solar transit, at the cor. of secs. 11,12,13 and 14.

Thence I run

N. 0° 10' W. bet. secs. 11 and 12.

Over rolling land, sloping SE.

Gently ascend, thru dense sagebrush, 2 to 3 ft.high.

40.00 At base of hilly land, bears N 15° E. and SW.

Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 11 on W. and S 12 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.

Thence ascend over rolling E. slope of ridge, enter rocky soil.

55.00 Enter few scattering cedars, bears NE. and 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

chains	
	brass cap
	T 32 S S 2 in NW,
	R 12 W S 1 in NE,
	S 12 in SE. and
	S 11 in SW. quadrant; from which
	A cedar,10 ins.diam.,bears N 42° 35'E. 175 lks.
	dist.,marked T 32 S R 12 W S 1 B T
	A cedar,8 ins.diam.,bears S 42° 52'E. 77 lks.
	dist.,marked T 32 S R 12 W S 12 B T
	A cedar, 11 ins.diam.,bears N 12° 22'W. 186 lks.
	dist.,marked T 32 S R 12 W S 2 B T;
	and raise a mound of stone, 2 ft.base, 1½ ft. high W.
	of cor. No tree in sec. 11 suitable for a bearing tree.
	S. 40 chs.,gently rolling,SE. slope; soil gravelly loam,
	8 to 12 ins.deep; subsoil, a gravel hardpan ; dense
	sagebrush, 2 to 3 ft.high, and some bunch grass:
	N. 40 chs.,rolling SE. slope of high ridge, rocky, with
	few cedars. undergrowth, sagebrush.
	- - - - - - - - - - - - - - - - - -
	S. 89° 52'E. on random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec . cor.
79.98	Intersect E. bdy. of the tp. at the cor. of secs.1,6,7
	and 12 heretofore described.
	Thence I run
	N. 89° 52'W. on true line bet. secs. 1 and 12.
	Over hilly land, sloping S.,thru few scattering cedars.
4.00	Wash, 20 lks wide, course SE.
13.50	Low spur, projects S.
18.95	Wash, 15 lks. wide, course S.
39.99	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the
	ground, for ¼ sec. cor.,marked on brass cap ¼ S 1 on
	N. and S 12 on S. half; from which
	A cedar,10 ins.diam.,bears S 5° 50'W. 253 lks.
	dist.,marked ¼ S 12 B T
	A cedar8 ins.diam.,bears N 9° 15'E. 164 lks.

Subdivision of T 32 S., R 12 W.

chains

dist., marked ¼ S 1 B T

44.70 Wash, course SE.

54.00 Wash, 20 lks. wide, course SE.

68.00 Foot of ridge, bears N. and S.

Ascend 30 ft. to

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

Land, low rolling hills , sloping to the S.

Soil, light loose sandy loam and gravelly; 2nd rate;

Undergrowth, sagebrush, 2 ft. high. on mile.

Timber, few scattering cedars along the line.

- - - - - - - - - - - - - - - - - - - -

N. 0° 10'E. on random line bet. secs. 1 and 2.

40.00 Set temp. ¼ sec. cor.

77.85 Intersect N. bdy. of the tp., at the cor. of secs. 1, 2, 35 and 36. heretofore described.

Thence I run

S. 0° 10'W. on true line bet. secs. 1 and 2.

Over rolling mountainous land, thru dense forest of cedar, and scattering undergrowth of sagebrush.

Gradually ascend land, facing N.

20.00 Top of ridge, bears N 10°W. and S.

Thence along top of ridge.

37.85 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 2 on W. and S 1 on E. half; from which

A cedar, 10 ins. diam., bears S 7½°E. 51 lks. dist., marked ¼ S 1 B T

A cedar, 10 ins. diam., bears N 79½°W. 83 lks. dist., marked ¼ S 2 B T

43.00 Leave top of ridge, bears N. and S 10°W.

Thence descend along E. slope .

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

Land, rolling mountainous.

Soil, rocky; 4th rate.

Timber, dense cedar on mile.

Undergrowth, sagebrush.

Subdivision of T32 S., R 12 W.

chains	
	August 31: At 8h 0m a.m., l.m.t., I set off 37° 59' on the lat. arc; 8° 50½'N. on the decl. arc; and determine a meridian with the solar transit, at the cor. of secs. 34 and 35 in the S. bdy. of tp. heretofore described.
	Thence I run
	N. 0° 10' E. bet. secs. 34 and 35.
	Over gently rolling land, thru undergrowth of short sagebrush. Gently descend.
15.80	Mud Spring wash, 1 ch. wide, 6 ft.deep, course W.
21.17	Road, bears E. and W.
	Enter clayish soil, bears E. and W.
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 34 on W. and S 35 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft.dist., and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
47.64	Small wash, course W.
66.00	Low ridge, 20 ft. high , 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. 26, 27, 34 and 35, marked on brass cap
	T 32 S S 27 in NW,
	R 12 W S 26 in NE,
	S 35 in SE. and
	S 34 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft.dist., and raise a mound of earth, 4 ft. baes, 2 ft. high W. of cor.
	Land, low rolling, general slope to the SW.
	Soil, S. 21 chs., gravelly and N. 59 chs., clayish and light sandy loams; 1 ft.deep; gravel hardpan.
	Undergrowth, short sagebrush. No timber.
	- -
	East on random line bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.

chains	
79.92	Intersect the N. and S. line, 5 lks. N. of cor. of secs. 25,26,35 and 36.
	Thence I run
	N. 89° 58'W. on true line bet. secs. 26 and 35.
	Descend 200 ft. over rocky W. slope of ridge .
15.00	Base of ridge and rocky land, bears NE. and S.
	Thence over rolling land, draining S.
21.40	Wash, 15 lks. wide, course S.
36.42	Wash, 20 lks. wide, course S.
39.96	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ secs cor.,marked on brass cap ¼ S 26 on N. and S. 35 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft.dist.,and raise a mound of earth. 3½ ft. base, 1½ ft. high N. of cor.
50.50	Wash, 10 lks. wide, course S.
61.00	Road, bears N. and S.
68.02	Road, Parowan to Milford, bears NW. and SE.
79.92	The cor. of secs. 26, 27, 34 and 35.
	E. 15 chs.,rocky W. slope of ridge: W 65 chs. low rolling land; soilgravelly, with scattering undergrowth of sagebrush. No timber.
	- - - - - - - - - - - - - - - - - - - -
	N. 0° 10' E. bet. secs. 26 and 27.
	Over rolling land, sloping to the S.
11.50	Wash, 25 lks.wide, course SW.
23.70	Road, Parowan to Milford, bears NW. and SE.
40.00	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 27 on W. and S 26 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft.long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 22,23,26 and 27, marked on brass cap

Subdivision of T 32 S., R 12W.

chains	
	T 32 S S 22 in NW,
	R 12 W S 23 in NE,
	S 26 in SE. and
	S 27 in SW. quadrant; dig pits 18 x 18 x 12 ins.
	in each sec., 5 ft.dist.,and raise a mound of earth, 4ft.
	base, 2 ft. high W. of cor.
	Land, nearly level.
	Soil, gravelly with some clay loam; 2nd rate.
	Undergrowth, scant short sagebrush. No timber.
	The cor. of secs. 23,24,25 and 26 being plainly visible
	I run for said cor.
	S. 89° 57'E. on random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
80.04	The cor. of secs. 23,24,25 and 26.
	Thence I run
	N. 89° 57'W. bet. secs. 23 and 26, on true line
	Over nearly level land.
	Gently descend.
28.00	Base of gently descent, bears NE. and S.
40.02	Set an iron post, 3 ft.long, 1 in.dia,.26 ins. in the
	ground, for ¼ sec. cor.,marked on brass cap ¼ S 23 on
	N. and S 26 on S. half; dig pits 18 x 18 x 12 ins.,
	E. and W. of post, 3 ft.dist.,and raise a mound of
	earth, 3½ ft. base, 1½ ft. high N. of cor.
50.60	Road, bears N 10°E. and S 10°W.
52.30	Wash, 20 lks. wide, course S 20°W.
80.04	The cor. of secs. 22,23,26 and27.
	Land, nearly level.
	Soil, gravelly loam; 2nd rate.
	Undergrowth, short sagebrush. No timber.

Andrew Nelson

Instrumentman G.L.O.

Subdivision of T 32 S., R 12 W.

chains	
	Sept 2: At 2h 0m p.m., l.m.t., I set off 38° 0¾' on the lat. arc; 8° 1'N. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 22,23,26 and 27.
	Thence I run
	N. 0° 10' E. bet. secs. 22 and 23.
	Over nearly level land, thru scant undergrowth of sage.
36.22	Wash, 50 lks. wide, 3 ft. deep, course SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec., marked on brass cap ¼ S 22 on W. and S 23 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
74.00	Old road, bears nearly N. and S.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 14,15,22 and 23, marked on brass cap
	T 32 S S 15 in NW,
	R 12 W S 14 in NE,
	S 23 in SE. and
	S 22 in SW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Land, nearly level.
	Soil, rich sandy and gravelly loams, 12 to 18 ins. deep;
	Undergrowth, scant sagebrush and good bunch grass.
	No timber.
	- -
	S. 89° 57'E. on random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.,
80.02	Intersect the N. and S. line, 7 lks. S. of cor. of secs. 13,14,23 and 24.
	Thence I run
	West on true line bet. secs. 14 and 23.
	Over gently rolling land.

Subdivision of T 32 S.,R 12 W.

Chains	
25.26	Wash, 15 lks. wide, 5 ft.deep, course SW. and Old road, bears N. and S.
40.01	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 14 on N. and S 23 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
78.44	Old road, bears N 35°E. and S 5° W.
80.02	The cor. of secs. 14,15,22 and23.
	Land, gently rolling.
	Soil, sandy loam, 24 ins. deep.
	Undergrowth, short sagebrush.
	No timber.

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Sept 2: At the cor. of secs. 14,15,22 and 23, I set off 8° 03'N. on the decl. arc; and, at 12h 0m l.m.t., observe the sun on the meridian; the resulting lat; is 38° 01½'.

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Sept 2: At 2h 10m p.m.,l.m.t.,I set off 38° 01½' on the lat. arc; 8° 01'N. on the decl. arc; and determine a meridiam with the solar compass, at this sec. cor.

Thence I run

N. 0° 10' E. bet. secs. 14 and 15.

	Over rolling land, gently slope to the S.
28.72	Wash, 10 lks. wide, 3 ft.deep, course SW.
40.00	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 15 on W. and S 14 on E. half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
80.00	Set an iron post, 3 ft.long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked on brass cap

Subdivision of T 32 S., R 12 W.

chains	
	T 32 S S 10 in NW,
	R 12 W S 11 in NE,
	S 14 in SE. and
	S 15 in SW. quadrant; raise a mound of stone,
	2 ft. base, 1½ ft. high W. of cor.
	Land, rolling.
	Soil, gravelly and stony; 2nd and 3rd rates.
	Undergrowth, dense short sagebrush.
	No timber.
	- - - - - - - - - - - - - - - - - -
	East on random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect the N. and S. line, 2 lks. N. of cor. of secs. 11,12,13 and 14.
	Thence I run
	N. 89° 59'W. on true line bet. secs. 11 and 14.
	Over rolling land, facing S., thru dense short sagebrush.
24.80	Wash, 15 lks. wide, 3 ft. deep, course SW.
39.99	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 11 on N. and S 14 on S. Half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
79.98	The cor. of secs. 10,11,14 and 15.
	Land, rolling.
	Soil, coarse gravelly; 2nd rate.
	Undergrowth, dense sagebrush, 2 ft. high.
	No timber.
	Walter A. Stunzo
	Instrumentman G.L.O.
	- -

chains	
	Sept. 6: At 10h 31m a.m.,l.m.t.,I set off 38° 02½' on the lat. arc; 6° 35'N. on the decl. arc; and determine a meridian with the solar transit, at the cor. of secs. 10, 11, 14 and 15.
	Thence I run
	N. 0° 10' E. bet. secs. 10 and 11.
	Over rolling hills, facing SW.,thru dense short sagebrush soil, gravelly with some loose stone,
5.00	Ascend.
14.00	Low ridge, bears N 30°E. and S 30°W.
25.60	Hollow, 30 ft. deep, course SW.
35.20	Low ridge, nears N 30°E. and SW.
40.00	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 10 on W. and S 11 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft.dist., and raise a mound of stone and earth, 4 ft.base, 2 ft. high W. of cor.
43.50	Hollow, course SW.
	Begin gradual ascent of S. face of mountain; enter more rocky soil.
80.00	200 ft. above ¼ sec. cor.,on S. slope.
	Set an iron post, 3 ft.long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 2,3,10 and 11, marked on brass cap
	T 32 S S 3 in NW,
	R 12 W S 2 in NE,
	S 11 in SE and
	S 10 in SW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Land, S. 43 chs.,rolling hills; soil gravelly and stony; N. 37 chs.,mountainous, facing the S.,with rocky; 4th rate soil.
	Undergrowth, dense short sagebrush on mile. No timber.
	Sept. 6: At this sec. cor.,I set off 6° 34½'N. on the decl. arc; and, at apparent noon, observe the sun on

Subdivision of T 32 S., R 12 W.

chains	
	the meridian; the resulting lat. is 38° 03½', which is proper lat.
	- -
	S. 89° 59'E. on random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect the cor. of secs. 1,2,11 and 12.
	Thence I run
	N. 89° 59'W. on true line bet. secs. 2 and 11.
	Over rolling mountainous land, thru few scattering cedars.
	Ascend, 50 ft. to
6.50	Ridge, 200 ft. high, bears N 10°E. and S 10°W.
	Descend W. slope
18.63	Wash, in hollow 100 ft. deep, course S.
24.00	Spur, projects S.
26.31	Hollow, 50 ft. deep, course S.
31.00	Low spur, projects S.; leave scattering timber, N. and S.
38.00	Ridge, bears N. and S.
39.97	On W/ slope of ridge.
	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground; for ¼ sec. cor.;marked on brass cap ¼ S 2 on N. and S 11 on S. half; raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.
45.70	Hollow, 60 ft. deep, course S.
60.00	Ridge, bears N. and S.
68.40	Hollow, 75 ft. deep, course S.
	Ascend E. slope of mountain.
79.94	The cor. of secs. 2,3,10 and11.
	Land, rolling mountainous.
	Soil, coarse gravelly and stony; 3rd rate.
	Undergrowth, short sagebrush.
	Timber, few scattering cedars on E. ½ mile.

Andrew Nelson

Instrumentman G.L.O.

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Subdivision of T 32 S., R 12 W.

chains	
	Sept. 6:
	From the cor. of secs. 2, 3, 10 and 11.
	N. 0° 10'E. on random line bet. secs. 2 and 3.
40.00	Set temp ¼ sec cor.
77.85	Intersect N. bdy. of the tp., at the cor. of secs. 2, 3, 34 and 35, heretofore described.
	Thence I run
	S. 0° 10'W. on true line bet. secs. 2 and 3.
	Over rough mountainous land, facing SE.
	Descend 360 ft. to
30.00	Ravine, course SE.; ascend 48 ft.
34.00	Spur, projects SE.
	Descend 50 ft. to
37.85	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 3 on W. and S 2 on E. half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
40.00	Ravine, course SE.
	Ascend 144 ft. to
52.00	Spur, projects SE.
	Descend 170 ft. to
63.35	Ravine, course SE.
	Ascend 90 ft.
68.35	Spur, projects SE.
	Descend 60 ft. over S. slope
77.85	The cor. of secs. 2, 3, 10 and 11.
	Land, rough mountainous, SE. slope.
	Soil, rocky; 4th rate.
	Undergrowth, Short sagebrush. No timber.

August 6, 1910.

Walter A. Sturmon

Instrumentman G.L.O.

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Subdivision of T 32 S.,R 12 W.

chains	
	August 31: At the cor. of secs. 33 and 34, in the S. bdy. of the tp.,heretofore described; I set off 37° 59' on the lat. arc; 8° 44¾'N. on the decl. arc; and, at 2h 0m p.m.,l.m.t.,determine a meridian with the solar transit.
	Thence I run
	N. 0° 09' E. bet. secs. 33 and 34.
	Gently descend over rolling land.
7.00	Enter flat,with clayish soil, bears E. and W.
	Thence across flat.
29.56	Old road, bears nearly E. and W.
40.00	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 33 on W. and S 34 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
44.76	Mud Spring Wash, 25 lks. wide, 8 ft. deep, course W.
	Thence over land with slight slope to the S.
80.00	Set an iron post, 3 ft.long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked on brass cap
	T 32 S S 28 in NW,
	R 12 W S 27 in NE,
	S 34 in SE. and
	S 33 in SW. quadrant; dig pits 18 x 18 x 12 ins., in each sec.,5½ ft.dist.,and raise a mound of earth, 4 ft.base, 2 ft. high W. of cor.
	Land, nearly level.
	Soil, deep moist clay loam, with some gravel near N. end.
	Undergrowth, some short sagebrush, good bunch grass on N. 20 chs. No timber.

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Subdivision of T 32 S., R 12 W.

chains	
	East on random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
80.03	Intersect the N. and S. line, 5 lks. S. of cor. of secs. 26, 27, 34 and 35.
	Thence I run
	S. 89° 58' W. on true line bet. secs. 27 and 34.
	Over level prairie land.
4.97	Wash, 15 ft. deep, course SW.
40.01½	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 27 on N. and S 34 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
64.00	Leave undergrowth, thence thru heavy bunch grass.
80.03	The cor. of secs. 27, 28, 33 and 34.
	Land, level prairie.
	Soil, deep, rich sandy loam; 1st rate.
	Undergrowth, scant short sagebrush on E. 64 chs.
	Good bunch grass on mile, good agriculture land. No timber.
	- - - - - - - - - - - - - - - - - -
	N. 0° 09' E. bet. secs. 27 and 28.
	Over level prairie land, thru scant undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 28 on W. and S 27 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked on brass cap
	T 32 S S 21 in NW,
	R 12 W S 22 in NE,
	S 27 in SE. and

Subdivision of T 32 S., R 12 W.

chains	
	S 28 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, level prairie.
	Soil, moist gravelly and clay loams, 18ins. deep; 2nd rate.
	Very little undergrowth. good bunch grass. No timber.
	- - - - - - - - - - - - - - - - - -
	N. 89° 58'E. on random line bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect the N. and S. line, 5 lks. N. of cor. of secs. 22, 23, 26 and 27.
	Thence I run
	West on true line bet. secs. 22 and 27.
	Over level prairie land, thru scant undergrowth of sage.
11.30	Small wash, 2 lks. wide; course S.
13.36	Old road, bears N. and S.
32.26	Road, Parowan to Milford, bears NW. and SE.
40.03	Set an iron post, 3 ft. long; .1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 22 on N. and S 27 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
80.06	The cor. of secs. 21, 22, 27 and 28.
	Land, level prairie.
	Soil, deep sandy and gravelly loams; 1st rate.
	Sparse undergrowth of white sage. good bunch grass. No timber.
	August 31, 1910.
	Andrew Nelson
	Instrumentman G.L.O.
	- -

Subdivision of T. 32 S., R. 12 W.

chains	
	Sept. 1: At 4h. 30m. p.m., l.m.t., I set off 38°0¾' on the lat. arc; 8°23½' N. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 21, 22, 27 and 28.
	Thence I run
	N. 0° 09' E. bet. secs. 21 and 22.
	Over nearly level land, thru sparse undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground; for ¼ sec. cor., marked on brass cap ¼ S. 21 on W. and S. 22 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
56.56	Road, Parowan to Milford, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked on brass cap
	T. 32 S. S. 16 in NW.,
	R. 12 W. S. 15 in NE.,
	S. 22 in SE. and
	S. 21 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, nearly level.
	Soil, deep gravelly loam; 2nd rate.
	Undergrowth, sparse short sagebrush. some bunch grass. No timber.
	- - - - - - - - - - - - - - - - - -
	East on random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect the cor. of secs. 14, 15, 22 and 23.
	Thence I run
	West on true line bet. secs. 15 and 22.
	Over nearly level land, thru sparse undergrowth.
	- - - - - - - - - - - - - - - - - -

Subdivision of T 32 S., R 12 W.

chains	
40.02	Set an iron post, 3 ftlong, 1 in.dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 15 on N. and S 22 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft.dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
80.04	The cor. of secs. 15, 16, 21 and 22.
	Land, nearly level prairie.
	Soil, deep gravelly loam; 2nd rate.
	Undergrowth, sparse short sagebrush on mile.
	No timber. Sept. 1, 1910.
	- - - - - - - - - - - - - - - - - - - -
	Sept 2:
	N. 0° 09' E. bet. secs. 15 and 16.
	Over gently rolling land, sloping S., thru dense black sagebrush.
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins. in the ground, for ½ sec. cor., marked on brass cap ¼ S 16 on W. and S 15 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft.dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
45.42	Wash, 10 lks. wide, 3 ft.deep, course SW.
80.00	Set an iron post, 3 ft.long, 2 ins.dia., 24 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked on brass cap T 32 S S 9 in NW, R 12 W S 10 in NE, S 15 in SE. and S 16 in SW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Land, gently rolling, slopes to the S.
	Soil, deep gravelly loam; 2nd rate, and stony near N. end.
	Undergrowth, dense sagebrush, 2 ft. high on mile.
	No timber.
	- - - - - - - - - - - - - - - - - -

Subdivision of T.32 S., R.12 W.

Chains	
	East on random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect the N. and S. line, 7 lks. S. of cor. of secs. 10,11,14 and 15. Thence I run
	S.89°57'W. on true line bet. secs. 10 and 15.
	Over high rolling land, sloping S., through dense sage.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 10 on N. and S 15 on S. half; raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
	Pits impracticable.
80.08	The cor. of secs. 9, 10, 15 and 16.
	Land, rolling, faces to the S.
	Soil, hard gravelly and stony; 2nd and 3rd rates.
	Undergrowth, dense sagebrush, 2 ft. high on mile.
	No timber.
	Sept. 2, 1910.
	Sept. 6:
	N.0°09'E. bet. secs. 9 and 10.
	Over hilly land, sloping S. through dense short sagebrush.
16.00	Foot of rocky ascent, bears NW and NE.
	Ascend 40 ft. to
22.00	Spur, projects SW., descend land facing NW.
39.00	Ravine, course SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 9 on W. and S 10 on E. half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Ascend 90 ft. to
76.00	Spur, projects SW.; descend 15 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground and mound of stone, 4 ft. base, for cor. of secs. 3,4,9 and 10, mkd. on brass cap
	T 32 S S 4 in NW

SUBDIVISION OF T. 32 S., R.12 W.

Chains	
	R 12 W S 3 in NE
	S 10 in SE
	S 9 in Sw. quadrant; raise mound of stone, 2 ft. base, 1½ ft, high, W. of cor.
	Land, hilly W. slope.
	Soil, hard gravelly and stony; 3rd rate.
	Undergrowth, short sagebrush on mile.
	No timber.
	N.89°57'E. on random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect the cor. of secs. 2,3, 10 and 11.
	Thence I run
	S.89°57'W. on true line bet. secs. 3 and 10.
	Over rolling mountainous land. Ascend 65 ft. to
6.00	Spur, projects S.; descend 90 ft.
15.35	Ravine, course S.; ascend 45 ft.
18.00	Spur, projects SE; thence over land facing S.
33.00	Ridge, bears NE. and S.; descend 50 ft.
37.00	Ravine, course SW.; ascend 30 ft. to
40.06	On spur, projects SW.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 3 on N. and S 10 on S. half; raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.
	Descend 45 ft.
56.00	Ravine, course SW.; ascend 55 ft.
62.00	Spur, projects SW.; descend 105 ft.
68.50	Ravine, course SW.
72.50	Spur, projects SW.; descend 35 ft. to
80.12	The cor. of secs. 3,4,9 and 10.
	Land, rolling, mountainous, slopping S. and SW.
	Soil, rocky; 4th rate.
	Undergrowth, scant sagebrush. No timber.

Subdivision of T 32 S., R 12 W.

chains	Sept 8:
	N. 0° 09'E. on random line bet. secs. 3 and 4.
40.00	Set temp. ¼ sec. cor.
77.85	Intersect N. bdy. of the tp., at the cor. of secs. 3, 4, 33 and 34, heretofore described.
	Thence I run
	S. 0° 09'W. on true line bet. secs. 3 and 4.
	Over rolling mountainous land, facing W.
	Ascend 130 ft.
10.35	Conglomerate spur, projects SW.
	Descend 75 ft.
14.00	Ravine, course SW.
	Ascend 40 ft.
20.00	Spur, projects SW.
	Descend 125 ft.
36.00	Ravine, course SW.
37.85	On a spur, projects SW.
	Set an iron post, 3 ft.long, 1 in.dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 4 on W. and S 3 on E. half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
40.60	Ravine, course SW.
46.00	Ridge, bears NE. and SW.
	Descend 60 ft.
67.00	Ravine, course SW.
	Gently ascend.
77.85	The cor. of secs. 3, 4, 9 and 10.
	Land, mountainous, general slope to the SW.
	Soil, rocky and stony; 3rd rate.
	No timber.

September, 8, 1910.

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[illegible]

[illegible]

[illegible] Set off [illegible] on the [illegible] and determine a [illegible] with the solar compass, at the cor. of secs. [illegible] and [illegible] in the S. adj. of the tp., heretofore described.

Thence I run

[illegible] secs. [illegible] and [illegible].

Over gently rolling land, thru scant undergrowth.

[illegible] Set an iron post, 2 ft. long, 1 in. dia., [illegible] ins. in the ground, for [illegible] cor., marked on brass cap [illegible] on N. and [illegible] on E. half; dig pits [illegible] x [illegible] x [illegible] ins., N. and E. of post, 2 ft. dist., and raise a mound of earth, [illegible] ft. base, [illegible] ft. high N. of cor.

[illegible] Old road, bears [illegible] and [illegible].

[illegible] Wash, [illegible] ins. wide, [illegible] ft. deep, course [illegible] (Red Spring Wash).

[illegible] Set an iron post, 2 ft. long, 2 ins. dia., [illegible] ins. in the ground, for cor. of secs. [illegible], [illegible], [illegible] and [illegible], marked on brass cap

[illegible]

[illegible] in [illegible],

[illegible] in [illegible],

[illegible] in [illegible], and

[illegible] in [illegible], quadrant; dig pits [illegible] x [illegible] x [illegible] ins. in each sec., [illegible] ft. dist., and raise a mound of earth, [illegible] ft. base, [illegible] ft. high N. of cor.

Land, gently rolling.

Soil, sandy loam with some clay, [illegible] to [illegible] ins. deep, and gravel.

Undergrowth, [illegible] [illegible].

* * * * * * * * * * * * * * *

[illegible] secs. [illegible] and [illegible].

[illegible] Set [illegible], [illegible].

[illegible] Intersect the [illegible] and [illegible] lines, [illegible] ins. [illegible] of cor. of secs. [illegible], [illegible], [illegible] and [illegible].

Subdivision of T 32 S., R 12 W.

chains	
	Thence I run
	S. 89° 59'W. on true line bet. secs. 28 and 33.
	Over gently rolling land, thru short sagebrush.
39.98	Set an iron post, 3 ft.long,1 in.dia.,26 ins. in the ground, for ½ sec. cor.,marked on brass cap ¼ S 28 on N. and S 33 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft.base, 1½ ft.high N. of cor.
78.86	Wash, 10 lks. wide, 1 ft. deep; course S.
79.96	The cor. of secs. 28, 29, 32 and 33.
	Land, gently rolling.
	Soil, deep, rich sandy loam; 1st rate.
	Undergrowth, short sagebrush.
	No timber.
	- - - - - - - - - - - - - - - - - - - -
	N. 0° 08' E. bet secs. 28 and 29.
	Over gently rolling land, thru scant undergrowth.
40.00	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ½ sec. cor.,marked on brass cap ¼ S 29 on W. and S 28 on E. half; dig pits 18 x 18 x 12 ins.,N. and S. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft.long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 20,21,28 and 29, marked on brass cap
	T 32 S S 20 in NW,
	R 12 W S 21 in NE,
	S 28 in SE. and
	S 29 in SW. quadrant; dig pits 18 x 18 x 18 ins in each sec.,5½ ft.dist.,and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling.
	Soil, deep rich sandy loam; 1st rate.
	Undergrowth, scant short sagebrush. No timber.
	- - - - - - - - - - - - - - - - - - - -

Subdivision of T 32 S.,R 12 W.

chains

N. 89° 59'E. on random line, bet. secs. 21 and 28.

40.00 Set temp. ½ sec. cor.

79.90 Intersect the cor. of secs. 21,22,27 and 28.

Thence I run

S. 89° 59'W. on true line bet. secs. 21 and 28.

Over land nearly level, thru scant undergrowth.

39.95 Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 21 on N. and S 28 on S. half; dig pits 18 x 18 x 12 ins.,E. and W. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft.base, 1½ ft. high N. of cor.

79.90 The cor. of secs. 20,21,28 and 29.

Land, nearly level prairie.

Soil, deep rich sandy loam; 1st rate.

Undergrowth, scant short sagebrush. No timber.

Sept 1: At this sec. cor. I set off 8° 25'N. on the decl. arc; and, at 12h 0m l.m.t. observe the sun on the meridian; the resulting lat. is 38° 01'. which is about proper lat.

- - - - - - - - - - - - - - - - - - - -

Sept 2: At 7h30m a.m.,l.m.t.,Iset off 38° 01' on the lat. arc; 8° 08'N. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 20,21,28 and 29.

Thence I run

N. 0° 08' E. bet. secs. 20 and 21.

Over gently rolling land, thru dense short sagebrush.

40.00 Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec cor.,marked on brass cap ¼ S 20 on W. and S 21 on E. half; dig pits 18 x 18 x 12 ins.,N. and S. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft.base, 1½ ft. high W. of cor.

chains	
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked on brass cap
	T 32 S S 17 in NW,
	R 12 W S 16 in NE,
	S 21 in SE. and
	S 20 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling.
	Soil, deep sandy loam; 1st rate.
	Undergrowth, dense short, black sagebrush.
	No timber.
	- - - - - - - - - - - - - - - - - - - -
	N. 89° 59'E. on random line bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
79.88	Intersect the cor. of secs. 15, 16, 21 and 22.
	Thence I run
	S. 89° 59'W. on true line bet. secs. 16 and 21.
	Over gently rolling land, thru dense short sagebrush.
11.26	Road, Parowan to Milford, bears NW. and SE.
39.94	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 16 on N. and S 21 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
79.88	The cor. of secs. 16, 17, 20, and 21.
	Land, gently rolling.
	Soil, deep rich sandy loam; Ist rate.
	Undergrowth, dense short, black sagebrush.
	No timber.
	- - - - - - - - - - - - - - - - - - - -
	Sept 6: At 6h 59m a.m., l.m.t., I set off 38° 02' on the lat. arc; 6° 41'N. on the decl. arc; and determine a

chains

meridian with the solar compass, at the cor. of secs. 16,17,20 and 21.

Thence I run
N. 0° 08'E. bet. secs. 16 and 17.
Over gently rolling land, facing W., thru dense short
N. 0° 08'E. bet. secs. 16 and 17.
black sagebrush.

40.00 Set an iron post, 3 ft.long, 1 in.dia., 25 ins. in the ground, for ¼ secs. cor., marked on brass cap ¼ S 17 on W. and S 16 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft.dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.

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

T 32 S S 8 in NW,
R 12 W S 9 in NE,
S 16 in SE. and
S 17 in SW. quadrant; dig pits 18 x 18 x 12 ins., in each sec., 5½ ft.dist., and raise a mound of earth, 4 ft. base, 2 ft.high W. of cor.

Land, rolling, sloping to the W.
Soil, light sandy loam, 12 ins.deep; subsoil calcareous.
Undergrowth, dense short sagebrush on mile.
No timber.

- - - - - - - - - - - - - - - - - - -

N. 89° 59'E. on random line bet. secs. 9 and 16.

40.00 Set temp. ¼ sec. cor.

79.84 Intersect the cor. of secs. 9, 10, 15 and 16.

Thence I run
S. 89° 59'W. on true line bet. secs. 9 and 16.
Over rolling land, sloping SW., thru short sagebrush.

39.92 Set an iron post, 3 ft.long, 1 in.dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 9 on N.

chains	
	and S 16 on S. half; raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.
62.43	Road, Parowan to Milford, bears NW. and SE.
79.64	The cor. of secs. 8, 9, 16 and 17.
	Land, rolling; soil light sandy loam; short sagebrush. No timber. -
	Sept 7:
	N. 0° 08' E. bet secs. 8 and 9.
	Over gently rolling land, sloping W.
34.00	Road, Parowan to Milford, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 8 on W. and S 9 on E. half; dig pits 18 x 18 x 12 ins.,N. and S. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked on brass cap
	T 32 S S 5 in NW,
	R 12 W S 4 in NE,
	S 9 in SE. and
	S 8 in SW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Landgently rolling, sloping to the SW.
	Soil, light sandy loam with some gravelly; 2nd rate; subsoil calcareous hardpan .
	Undergrowth, dense short sagebrush. No timber.
	Sept 7, 1910.
	- -
	Sept 8:
	N. 89° 59' E. on random line bet secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
79.64	Intersect the N. and S. line, 16 lks. N. of cor. of secs.

Subdivision of T 32 S.,R 12 W.

chains	
	3, 4, 9 and 10.
	Thence I run
	N. 89° 54'W. on true line bet. secs. 4 and 9.
	Over rolling mountainous land, rocky soil.
	Descend.
16.00	Ravine, course SW.
	Ascend 40 ft. to
24.00	Spur, projects S.
	Descend 145 ft.
36.00	Foot of mountainous land, bears NE. and S.
	Thence over rolling land sloping W., gravelly and stony soil.
39.92	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 4 on N. and S 9 on S. half; dig pits 18 x 18 x 12 ins.,E. and W. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high. N. of cor.
79.84	The cor. of secs. 4, 5, 8 and 9.
	Land, E. 36 chs., rolling mountainous, W. slope; soil rocky; 4th rate: W. 44 chs.,rolling land, sloping W. with coarse gravelly soil, 12 to 18 ins. deep, 2nd rate. Undergrowth, dense sagebrush, 1 ft.high on mlie. No timber.
	- -
	N. 0° 08' E. on random line bet. secs. 4 and 5.
40.00	Set temp. ¼ sec. cor.
77.72	Intersect the N. bdy. of the tp., 2 lks. E. of cor. of secs. 4, 5, 32 and 33. heretofore described.
	Thence I run
	S. 0° 07' W. on true line bet. secs. 4 and 5.
	Over rolling land, thru short sagebrush.
37.72	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 5 on W. and S 4 on E. half; dig pits 18 x 18 x 12 ins., N.

chains	
	and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
43.62	Wash, 30 lks. wide, 2 ft. deep, course W.
72.24	Wash, 15 lks. wide, 2 ft. deep, course NW,
77.72	The cor. of secs. 4, 5, 8 and 9.
	Land, rolling prairie.
	Soil, sandy loam with gravel, 12 ins. deep; 2nd rate.
	Undergrowth, dense short black sagebrush.
	No timber.
	- -
	Sept 3: At 8h 0m a.m., l.m.t., I set off 37° 59' on the lat. arc; 7° 45' N. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 31 and 32 in the S. bdy. of the tp. heretofore described.
	Thence I run
	N. 0° 08' E. bet. secs. 31 and 32.
	Over nearly level land, thru scant undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 31 on W. and S 32 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked on brass cap
	T 32 S S 30 in NW,
	R 12 W S 29 in NE,
	S 32 in SE. and
	S 31 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, nearly level prairie.
	Soil, deep rich sandy loam; 1st rate.
	Undergrowth, scant short sagebrush.
	No timber. - - - - - - - - - - - - - - -

Subdivision of T 32 S., R 12 W.

chains	
	East on a random line bet. secs. 29 and 32.
40.00	Set temp. ½ sec. cor.
80.00	Intersect the N. and S. line, 9 lks. S. of cor. of secs. 28, 29, 32 and 33.
	Thence I run
	S. 89° 56' W. on true line bet. secs. 29 and 32.
	Over nearly level land.
16.40	Wash, 15 lks. wide, 5 ft. deep, course NW.(Mud Spring Wash)
30.94	Road, bears NW. and SE.
40.00	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 29 on N. and S 32 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 5 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
80.00	The cor. of secs. 29, 30, 31 and 32.
	Land, nearly level prairie.
	Soil, moist sandy loam, 18 ins. deep; 1st rate; subsoil gravel.
	Undergrowth, scant short sagebrush. No timber.

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	Knowing that closing cors. will be neccessary on the W. boundry of the tp.
	I run
	West on true line bet. secs. 30 and 31.
	Over nearly level land, thru scant undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 30 on N. and S 31 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post,3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
88.28	Intersect W. bdy. of the Tp., 322 lks. N. of cor. of secs. 25, 30, 31 and 36, which is a granite stone 8 x 5 x 4 ins. above ground, properly marked, no accessories
	I dig pits 18 x 18 x 12 ins. in each sec. 5½ft.dist.,

Subdivision of T 32 S., R 12W.

chains.	
	and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.; at point of intersection,
	Set an iron post, 3 ft. long, 2 ins.dia.;24 ins. in the ground, for closing cor. of secs. 30 and 31., marked on brass cap
	T 32 S in N. half,
	S 30 in NE,
	R 12eW S 31 in SE,
	R 13 W S 36 in SW. and
	S 25 C C in NW. quadrant; dig pits 24 x 18 x 12 ins; across each line, N. and S.,3 ft., and E.,7 ft. dist. of post; and raise a mound of earth, 4 ft. base, 2 ft. high E. of cor.
	Note: I destroy all marks pertaining to secs. 30 and 31 on old cor.
	Land, nearly level.
	Soil, deep, maintsandy loam; 1st rate.
	Undergrowth, scant short sagebrush. No timber.

	Sept. 3: At this sec. cor.,I set off 7° 41'N. on the decl. arc; and, at apparent noon observe the sun on the meridian; the resulting lat. is 38° 00'.

	N. 0° 08' E. bet. secs. 29 and 30.
	Over nearly level land.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 30 on W. and S 29 on E. half; dig pits 18 x 18 x 12 ins.,N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
44.59	Road, from Mud Spr.,bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the

chains	
	ground, for cor. of secs. 19-20-29 and 30. marked on brass cap
	T 32 S S 19 in NW,
	R 12 W S 20 in NE,
	S 29 in SE. and
	S 30 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, nearl level prairie.
	Soil, deep light sandy loam; 1st rate.
	Undergrowth, scant short sagebrush
	No timber.
	N. 89° 56'E. on a random line, bet. secs. 20 and 29.
40.00	Set temp ½ sec. cor.
79.98	Intersect the N. and S. line, 5 lks. N. of cor. of secs. 20-21-28 and 29.
	Thence I run
	S. 89° 58' W. on true line, bet. secs. 20 and 29.
	Over gently rolling land.
39.99	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, ¼ S 20 on N. and S 29 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft.dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
68.82	Wash, 10 lks wide, 3 ft.deep, course NW.
77.03	Wash, 1 ch. wide, 6 ft.deep, course NW.(Mud Spring Wash).
79.98	The cor. of secs. 19, 20, 29 and 30.
	Land, gently rolling prairie.
	Soil, deep sandy loam; 1st rate.
	Undergrowth short sage brush. No timber.
	Note: 3 p.m., heavy rain prevents further work this day.
	Sept. 3, 1910.

Subdivision of T 32 S., R 12 W.

chains	
	Sept. 5: At 8h 29m a.m., l.m.t., I set off 38° 01' on the lat. arc; 7° 00¼'N. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 19, 20, 29 and 30.
	Thence I run
	West on true line bet. secs. 19 and 30.
	Over nearly level land.
39.26	Road, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 19 on N. and S 30 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
88.36	Intersect W. bdy. of the Tp., 3.01 chs. N. 0° 07'E. of cor. of secs. 19, 24, 25 and 30, which is a granite stone, 8 x 8 x 8 ins. above the ground, firmly set, marked and witnessed as described by the Surveyor General
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. to secs. 19 and 30, marked on brass cap
	T 32 S in N. half,
	S 19 in NE,
	S 30 R 12 W in SE,
	S 25 R 13 W in SW. and
	S 24 C C in NW. quadrant; dig pits 24 x 18 x 12 ins., N. and S. 4 ft. dist., and E. 7 ft. of post, and raise a mound of earth, 4 ft. base, 2 ft. high E. of cor.
	Note: I destroy all marks on old cor. pertaining to secs. 19 and 30.
	Land, nearly level.
	Soil, sandy loam, 12 to 18 ins. deep; 1st rate.
	Undergrowth, short sagebrush. No timber.

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Retracement and resurvey of W. bdy. T. 32 S.,R.12 W.

Chains	
	Knowing that the cor. of secs.13,18,19, and 24 falls in a reservoir and is not to be found, I retrace and resurvey the west boundary as follows:
	Sept. 5:
	From the cor. of secs.24 and 25 in the E.bdy.of T.32 S., R.13 W., I run
	North, retracing along the E.bdy. of sec.24
40.00	Set temp.$\frac{1}{4}$sec.cor. Failed to find any trace of old $\frac{1}{4}$ sec.cor.
80.00	Set temp.sec.cor. Failed to find any trace of old sec. cor.after a careful search. Thence I continue N.on E. bdy.of sec.13.
120.00	Set temp.$\frac{1}{4}$ sec.cor. Again make careful search for old cor., but am unable to find any trace.
160.28	Intersect E.and W.line,32 lks.W.of cor.of secs.7,12, 13 and 18.
	From this sec.cor. I continue N.retracing E.bdy.sec.12
40.00	Set temp.$\frac{1}{4}$ sec.cor. Unable to find any trace of old cor.
80.24	Fall 5 lks.W.of cor.of secs.1,6,7 & 12.
	From this sec.cor.I run N. on E.bdy. sec.1
40.11	Fall 3 lks.W. of the $\frac{1}{4}$ sec.cor. bet.secs.1 and 6.
	From the $\frac{1}{4}$ sec.cor. bet.secs.1 and 6, which is a cedar post, firmly set in the ground,with traces of marks, which I re-establish as follows:
	Set an iron post;3 ft.long,1 in.dia.,26 ins.in the ground, marked on brass cap $\frac{1}{4}$ S 1 on W. and S.6 on E half;dig pits 18x18x12 ins.N.and S.of post,3 ft.dist., and raise a mound of earth,3$\frac{1}{2}$ ft.base,1$\frac{1}{2}$ ft.high,W.of cor.
	Thence I run
	S.0° 02'W. on true line bet.secs.1 and 6
	Over gently rolling land.
40.11	The cor.of secs.1,6,7 and 12, which is a granite

Resurvey of W. bdy. T. 32 S., R. 12 W.

Chains	
	stone 8x5x4 ins. above the ground, firmly set, and properly marked. I redig pits in accordance with old notes. Sept.5: At this sec. cor. I set off 6° 56' N. on the decl.arc; and, at apparent noon observe the sun on the meridian; the resulting lat.is 38° 03½' Land, gently rolling. Soil, light sandy loam. Undergrowth, short sagebrush. No timber.
	S. 0° 02'W., resurveying bet.secs.7 and 12 Over nearly level land.
40.12	Set an iron post, 3 ft.long, 1 in.dia.,26 ins.in the ground, for ¼ sec.cor., marked on brass cap ¼ S 12 on W. and S 7 on E.half; dig pits 18 x 18 x 12 ins.N.and S. of post, 3 ft.dist., and raise a mound of earth,3½ ft.base, 1½ ft.high, W. of cor.
80.24	The cor. of secs. 7,12,13 and 18, which is a granite 8 x 8 x 6 ins.above ground, firmly set, properly marked renew pits in accordance with old notes. Land, nearly level. Soil, light sandy loam. Undergrowth, short sagebrush. No timber.
	S. 0° 07'W. resurveying bet.secs.13 and 18 Over gently rolling land.
40.07	Set an iron post, 3 ft.long, 1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap ¼ S 13 on W. and S 18 on E half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft.dist., and raise a mound of earth, 3½ ft.base, 1½ ft.high, W. of cor.
41.00	Enter shifting sand hills, bears E. and W.

Resurvey of W. bdy. T 32 S., R 12 W.

chains	
60.00	Leave shifting sand hills, bears E. and W.
74.30	Enter reservoir, bears NW. 5 chs. and SE. 5 chs.
77.50	Leave reservoir, bears NW. 4 chs. and SE. 6 chs.
80.14	Set an iron post, 3 ft. long, 3 ins.dia.,24 ins. in the ground, for cor. of secs. 13 and 24, marked on brass cap T 32 S in N. half, R 12 W in E. half, S 24 R 13 W. in SW and S 13 in NW. quadrant; dig pits 24 x 18 x 12 ins. in each sec.,6 ft.dist.,and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling.
	Soil, light sandy loam and loose shifting sand.
	Undergrowth, short black sage. No timber.
	- -
	S. 0° 07'W. resurveying bet secs. 19 and 24.
	Over nearly level land.
37.65	Road, bears NW. and SE.
40.07	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ½ sec. cor.,marked on brass cap ½ S 24 on W. and S 19 on E. half; dig pits 18 x 18 x 12 ins.,N. and S. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
77.13	The closing cor. to secs. 19 and 30.
80.14	The cor. of secs. 24 and 25.
	Land nearly level.
	Soil, light deep sandy loam.
	Undergrowth, scant short black sage.
	No timber.
	Sept. 5, 1910.
	- -

chains

Sept 7: At 6h 58m a.m.,l.m.t.,I set off 38° 01' on the lat. arc; 6° 18'N. on the decl. arc; and determine a meridian with the solar compass, at the cor of secs. 19, 20, 29 and 30.

Thence I run

N. 0° 08' E. bet. secs. 19 and 20.

Over gently rolling land, sloping NW.,thru dense short undergrowth of shadscale and sagebrush.

6.34 Mud Spring Wash, 10 lks. wide, 5 ft. deep, course NW.

40.00 Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec.,marked on brass cap ½ S 19 on W. and S 20 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.

80.00 Set an iron post, 3 ft. long ,2 ins.dia.,24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked on brass cap

T 32 S S 18 in NW,

R 12 W S 17 in NE,

S 20 in SE. and

S 19 in SW. quadrant; dig pits 18 x 18 x 12 ins in each sec.,5½ ft.dist.,and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Land, gently rolling, slight slope to the NW.

Soil, deep light sandy loam; 1st rate.

Undergrowth, dense short shadscale and sagebrush.

No timber.

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

40.00 Set temp. ¼ sec. cor.

79.92 Intersect the cor. of secs. 16, 17, 20 and 21.

Thence I run

S. 89° 58' W. on true line bet. secs. 17 and 20.

Subdivision of T 32 S., R 12 W.

chains	
	Over gently rolling land, sloping NW.
39.96	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 17 on N. and S 20 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft.base, 1½ ft.high N. of cor.
79.92	The cor. of secs. 17, 18, 19 and 20.
	Land, gently rolling, slight slope to the NW.
	Soil, deep, rich sandy loam; 1st rate.
	Undergrowth, short black sagebrush. No timber.
	- -
	West, on true line bet. secs. 18 and 19.
	Over gently rolling land, thru dense short sagebrush.
40.00	Set an iron post, 3 ft.long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 18 on N. and S 19 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
74.00	Enter reservoir NW. and SE.
87.85	Wash, 10 lks. wide, 3 ft. deep, course NW.
88.32	Intersect the W. bdy. of the TP., 282 lks. N. 0° 07'E. of the cor. of secs. 13 and 24, heretofore described.
	Set an iron post, 3 ft.long, 2 ins.dia.,24 ins. in the ground, for closing cor.,to secs.,18 and 19, marked on brass cap
	T 32 S in N. half,
	S 18 in NE,
	S 19 R 12 W in SE,
	S 24 R 13 W in SW. and
	S 13 C C in NW. quadrant; dig pits 24 x 18 x 12 ins., N. and S. 4 ft.dist.,and E. 7 ft. of post, and raise a mound of earth, 4 ft.base, 2 ft. high E. of cor.
	Land, gently rolling.
	Soil, sandy loam; 1st rate.
	Undergrowth, short sagebrush. No timber.
	- -

Subdivision of T 32 S., R 12 W.

chains	
	N. 0° 08' E. bet secs. 17 and 18.
	Over gently rolling land, sloping NW. thru dense short shadscale and sagebrush.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 18 on W. and S 17 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked on brass cap
	T 32 S S 7 in NW,
	R 12 W S 8 in NE,
	S 17 in SE. and
	S 18 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling.
	Soil, deep, light sandy loam; 1st rate. No timber.
	Undergrowth, dense short sagebrush and shadscale.
	- -
	Sept. 7: At this sec. cor., I set off 6° 12' N. on the decl. arc; and at apparent noon observe the sun on the meridian; the resulting lat. is 38° 02½'.
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	N. 89° 58' E. on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.92	Intersect the cor. of secs. 8, 9, 16 and 17.
	Thence I run
	S. 89° 58' W. on true line bet. secs. 8 and 17.
	Over rolling land, sloping NW.
39.96	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 8 on N. and S 17 on S. half; dig pits 18 x 18 x 12 ins., E.

Subdivision of T 32 S.,R 12 W.

chains

and W. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.

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

Land, gently rolling, slopes to the NW.

Soil, sandy loam, 8 to 12 ins. deep; subsoil calcareous.

Undergrowth, dense sagebrush, 1½ ft. high.No timber.

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West on true line bet. secs. 7 and 18.

Over gently rolling land, facing NW.,thru dense short sagebrush.

40.00 Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 7 on N. and S 18 on S. half; dig pits 18 x 18 x 12 ins. , E. and W. of post, 3 ft.dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.

88.42 Intersect W. bdy of the Tp.,269 lks. N.0° 02'E. of cor. of secs. 7, 12, 13 and 18, heretofore described.

Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for closing cor. to secs. 7 and 18, marked on brass cap

T 32 S in N. half,

S 7 in NE,

S 18 R 12 W in SE,

S 13 R 13 in SW. and

S 12 C C in NW. quadrant; dig pits 24 x 18 x 12 ins.,N. and S. 4 ft.dist.,and E. 7 ft. of post, and raise a mound of earth, 4 ft. base, 2 ft. high E. of cor.

Note: I destroy all marks on old cor. pertaining to secs. 7 and 18.

Land, gently rolling, with slope to the NW.

Soil, light sandy loam, 12 to 18 ins. in depth; subsoil calcareous.

Undergrowth, dense short sagebrush. No timber.

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Subdivision of T 32 S., R 12 W.

chains	
	Sept. 8: At 7h 28m a.m., l.m.t., I set off 38° 02½' on the lat. arc; 5° 55' N. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 7, 8, 17 and 18.
	Thence I run
	N. 0° 08' E. bet. secs. 7 and 8.
	Over gently rolling land, facing W., thru dense short sagebrush.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 7 on W. and S 8 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked on brass cap
	T 32 S S 6 in NW, R 12 W S 5 in NE, S 8 in SE, and S 7 in SW quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling, with slope to the W.
	Soil, sandy loam, 12 to 18 ins. deep; 1st rate.
	Undergrowth, dense short sagebrush. No timber.
	- -
	N. 89° 58' E. on a random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
79.92	Intersect the cor. of secs. 4, 5, 8 and 9.
	Thence I run
	S. 89° 58' W. on true line bet. secs. 5 and 8.

Subdivision of T 32 S., R 12 W.

chains	
	Over rolling land, facing W., gradually descend over stony ground.
22.17	Road, to Milford, via Warm Spr., bears NW. and SE.
39.96	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 5 on N. and S. 8 on S. half; raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.
	Enter more gravelly and sandy loam land.
79.92	The cor. of secs. 5, 6, 7 and 8.
	Land, rolling, with slope to the W.
	Soil, E. 40 chs., stony and gravelly; 3rd rate: W. 39.92 chs.
	Gravelly and light sandy loam, 2nd rate.
	Undergrowth, dense short sagebrush. No timber.
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	West, on true line bet. secs. 6 and 7.
	Over gently rolling land.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 6 on N. and S 7 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
88.49	Intersect W. bdy. of the tp., 251 lks. N. 0° 02' E. of cor. of secs. 1, 6, 7 and 12, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. to secs. 6 and 7, marked on brass cap
	T 32 S in N. half,
	S 6 in NE,
	S 7 R 12 W in SE,
	S 12 R 13 W in SW. and
	S B C C in NW. quadrant; dig pits 18 x 18 x 12 ins. N. and S. 4 ft. dist., and E. 7 ft. of post, and raise a mound of earth, 4 ft. base, 2 ft. high E. of cor
	Note: I destroy all marks on old cor. pertaining to secs.

chains	
	6 and 7.
	Land, gently rolling.
	Soil, light sandy loam, 12 to 18 ins. deep; subsoil, a hard calcareous gravel.
	Undergrowth, short black sagebrush. No timber.
	- - - - - - - - - - - - - - - - - - -
	N. 0° 08' E. on a random line bet. secs. 5 and 6.
40.00	Set temp. ¼ sec. cor.
77.78	Intersect N. bdy. of the tp., 25 lks. E. of cor. of secs. 5, 6, 31 and 32, heretofore described.
	Thence I run
	S. 0° 03' E. on true line bet. secs. 5 and 6.
	Over gently rolling land, facing W.
36.00	Foot of knoll, bears NE. and SW.
37.78	On N. slope
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 6 on W. and S 5 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
41.00	Top of knoll, bears E. 3 chs. and W. 1 ch.
44.00	S. foot of knoll, bears NE. and SW.
77.78	The cor. of secs. 5, 6, 7, and 8.
	Land, gently rolling, with slope to the W.
	Soil, light sandy loam, 12 ins. deep; subsoil, gravelly.
	Undergrowth, short sagebrush, 1 ft. high. No timber.
	Sept. 8: At this esc. cor., I set off 5° 49½' N. on the decl. arc; and at 11h 58m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 38° 03½'.
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General Description.

This township consists principally of gently rolling, and rolling prairie lands, with high rolling hills in the SE. portion, thru secs. 25-35 and 36, and the S. slope of a mountain in the N., in secs. 1-2-3 and parts of secs. 10 and 11. The township lies to the E. of the Escalante Valley and has a general slope to the SW. and W.

The soil is chiefly a light, deep sandy loam with fine gravel; subsoil is a stiff calcareous clay and gravel. the soil in the rough portions is coarse gravelly and stony.

Considerable undergrowth of black sage brush, from 1 to 3 ft. in height extends thruout the township. Some scrub cedar timber is found in the north east cor. of the tp.

The soil in the central part is adaptable for Dry farming.

Mud Spring, a small spring of pure water, is located in the SW. ¼ of sec. 35. No other water nor indications of water found in the township. No water in reservoir, shown between secs. 18 and 19, at time of survey.

There are no settlers in the tp. We found no trace of mineral in the township.

Andrew Nelson
Walter A. Stumm

Instrumentmen G. L. O.

FINAL OATH OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Andrew Nelson and Walter A. Stumm Instrumentman G.L.O. ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision of T 32 S., R 12 W S.L.B.& M., Utah, showing the respective capacities in which they acted:

Jack Barker, Harry F. Wood, *Chainmen.*

Park Stumm, Clarence C. Shelby, *Chainmen.*

George Schroeder, *Moundman.*

George A. Faust, *Moundman.*

John Ad Millyard, *Axman.*

, *Axman.*

John Ad Millyard and Louis F. Racine, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew Nelson and Walter A. Stumm Instrumentman G.L.O. ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the Subdivision of T 32 S., R 12 W.

of the Salt Lake Base and meridian, state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Jack Baker, Harry F. Wood, *Chainmen.*

Park Stumm, Clarence C. Shelby, *Chainmen.*

George Schroeder, *Moundman.*

George A. Faust, *Moundman.*

, *Axman.*

, *Axman.*

Louis F. Racine, *Flagman.*

John Ad. Millyard, *Flagman Axman*

Subscribed and sworn to before me this 11 day of September 1, 1960

SEAL

Andrew Nelson

Instrumentman G.L.O.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 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 Transitmen see book "W" T.33 S., R. 16 W.

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

_____
United States Deputy Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 7, 1914

The foregoing field notes of the survey of the subdivisional lines of Township No.32 South, Range No. 12 West of the Salt Lake Base and Meridian, Utah,

executed by Andrew Nelson and Walter A. Stumm under ~~his contract~~ their special instructions No. _____, dated August 6, 1910 ~~x 190x~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hill
United States Surveyor General.

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

_____
United States Surveyor General.

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Ex.A.K.G. Filed Feb.18, 1911.

F. WSH.

BOOK A-376

FIELD NOTES

OF THE RE SURVEY OF THE

EAST AND WEST BOUNDARIES

OF

TOWNSHIP NO.31 SOUTH,

RANGE NO. 12 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

ANDREW NELSON

In the capacity of U.S. Transitman *under instructions dated* Aug.6 *, 1910, issued by the United States Surveyor General to govern surveys included in Group No.* 2 *, which were approved by the Commissioner of the General Land Office,* August 25 *, 1910, pursuant to authority contained in the Act of Congress dated* *, 191*

Re*Survey commenced* September 6 *, 1910*

Re*Survey completed* November 16 *, 1910.*

NAMES AND DUTIES OF ASSISTANTS.

Jack Barker,	Chainman.
Harry F.Wood,	Chainman.
George Schroeder,	Moundman.
John Ad.Millyard,	Axman and Flagman.

BOOK A-376

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BOOK A-376

INDEX DIAGRAM.

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Meanders Page X.

PRELIMINARY OATHS OF ASSISTANTS.

We, Jack Parker and Percy F. Wood, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the East and West boundaries of T 31 S R 12 W, S.L.B. & M. Utah.

Jack Parker, Chainman.
Percy F. Wood, Chainman.

Subscribed and sworn to before me this 3rd day of September, 1940.

Andrew Nelson
Instrumentman G.L.O.

I, A. George Schroeder and do solemnly swear that I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me, to the best of my skill and ability, in the survey of the East and West boundaries of T 31 S, R 12 W. S.L. B. & M. Utah.

George Schroeder, Moundman.
..... Moundman.

Subscribed and sworn to before me this 3rd day of September, 1940.

Andrew Nelson
Instrumentman G.L.O.

I, John A. Millyard and do solemnly swear that I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the survey of Boundary of East & West Bdies. of T 31 S., R 12 W. S.L.B. & M. Utah.

John A. Millyard, Axman.
..... Axman.

Subscribed and sworn to before me this 3rd day of September, 1940.

Andrew Nelson
Instrumentman G.L.O.

I, John A. Millyard 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 the East and West boundaries of T 31 S R 12 W. S.L.B. & M. Utah.

John A. Millyard, Flagman.

Subscribed and sworn to before me this 3rd day of September, 1940.

Andrew Nelson
Instrumentman G.L.O.

Resurvey of the E bdy of T31S R12W.

Chains - Survey commenced Sept. 6. 1910 and executed with a Ward S.E. Gurley light mountain transit No. 9624

For description of instrument of instrument see Book "A" of this survey.

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

At the re-established cor. of Tps. 31 and 32 S., R 12 W.; latitude 38°04'17", longitude, 113°06'05" W., I set off 38°04¼' on the lat. arc, 6°31½' N on the decl arc, and at 4h 28½m. p.m. l.m.t., determine with the solar, a meridian and mark a point thereof on a stone firmly set in the ground, 5 chs. N of the cor.

At 8h 31m. p.m. by my watch which carries correct 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.

Sept. 6, 1910.

Sept. 7: at 8 am. l.m.t. I lay off the azimuth of Polaris, 1°29½' to the west. The meridian thus determined agrees with the meridian established September 6.

At 8h. 28m. a.m. l.m.t. I set off 38°04¼' on the lat. arc, 6°15¾' N

Resurvey of the E. bdy of T 31 S R. 12 W.

aux. on the decl. arc, and determine a meridian with the solar transit.

This meridian agrees with the meridians established by p.m. and Polaris observations.

The solar apparatus by p.m. and a.m. observations agrees with the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h 28m. P.M.T. is 15°45' W.; the angle thus determined gives the Mag. decl. 15°45' E.

From instructions received by letter from the U.S. Surveyor General for Utah, dated Sept. 6, 1910, I re-established the cor. for TPs. 31 and 32 S. R 12 W., 18.25 chains S of the side of the TP cor.

This cor. was marked as a cor. for TPs 31 and 32 S, R 12 W. I destroy this cor.

In our special instructions we were instructed as follows:

If you resurvey the E. bdy. of TPs 31 and 32 S., R. 12 W.; you will destroy all closing cors. set thereon from the East.

In our old notes of the survey of this line, 5.60 chains N of the old TP. cor., is a cor., set for the closing cor. for TPs 31 and 32 S, R. 11 W.

I made a careful search for this cor., which I was to destroy, but failed to find any trace of it.

From the re-established cor. of TPs 31 and 32 S, R 12 W., North to the old 1/4 sec. cor., the reported distance is now 58.25 chains, making it

Resurvey of the E. bdy of T 31 S. R 12 W.

Chains	
	Necessary for a resurvey of this bdy; as there are no subdivisions depending upon it. Therefore I commence at the well established cor. of Tps. 31 and 32 S., R. 12 W.; heretofore described, and run North, setting cors. common to this Tp only, noting course and distances to, and destroying all old cors. on this line.
	North on E bdy of sec. 36. Over mountainous land, through dense forest of scrub cedar Scattering undergrowth of short sage brush.
	Descend 60 ft.
18.25	Point of spur, projects W.; The original site of the old Tp. cor. I destroyed all trace of this cor. Asc., over land facing W.
23.85	I make a careful search for failed to find any trace of the old cor. for Tps. 31 and 32 S, R 11 W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins in the ground for 1/4 sec. cor. marked on brass cap, 1/4 S 36 on W half; from which a cedar, 7 ins. diam.; bears N 30 3/4° W.; 60 lks. dist.; marked 1/4 S 36 BT.
	Desc. 150 ft to.
49.00	Ravine, course SW.; asc., over land facing S E.
58.75	West, 7 lks. of my line, I find the old 1/4 sec. cor. I destroy all traces of this cor.
66.00	Small wash, 10 lks. wide, course S E.
77.70	Spur, 125 ft above ravine, projects E.
80.00	On head of draw, course NE.
	Set an iron post, 3 ft. long, 3 ins.

Resurvey of the E. bdy. of T 31 S R 12 W.

in dia.; 24 ins. in the ground.
for cor. of secs. 25 and 36.
Marked on brass cap
T 31 S in N half,
R 12 W S 25 in NW quadrant.
R 11 W in E half and
S 36 in SW quadrant; from which
a cedar, 20 ins. diam.; bears
S 43 1/4° W.; 94 lks. dist.; marked.
T 31 S R 12 W S 36 BT.
a cedar, 10 ins. diam.; bears.
N 37 1/2° W.; 107 1/2 lks. dist.; marked
T 31 S R 12 W S 25 BT.
Land, mountainous.
Soil, rocky, 8 to 15 ins. deep, 3rd rate.
Timber, dense scrub cedar.
Undergrowth, short sage brush.
Land, heavily timbered, 80.00 chains.

North on the E. bdy of sec. 25-
Over mountainous land thru dense
cedars and undergrowth of short sage
brush.
Gradually, asc.; over land facing
N and NW.; 50 ft.
18.00 I make a careful search but
failed to find any trace of old sec. cor.,
33.50 Head of hollow, course SW.
Gradually, asc.; 60 ft.
40.00 Set an iron post, 3 ft. long, 1 in. in
dia.; 26 ins. in the ground for 1/4
sec. cor.; marked on brass cap;
1/4 S 25-; on N. half from which
a cedar, 8 ins. diam.; bears
S 22° W.; 98 lks. dist.; marked
1/4 S 25 BT.

Sept. 7: at this 1/4 sec. cor. I see Bf.
6° 12' N on the decl arc. and at
11h. 58m. a. m. l. m. t. observe the sun

Resurvey of the E. bdy of T 31 S R 12 W.

Chains.	
	on the meridian, the resulting bar. is 38° 05 ½'.
62.85	East, 5 lks. of my line, is the cor. ¼ sec. cor. I destroy all trace of this cor.
77.00	Leave dense timber, bears NE and SW. Commence ascent of high peak, bears E and W.; asc. 30 ft.
80.00	Set an iron post 3 ft. long, 3 ins. dia.; 24 ins. in the ground for cor. of secs. 24 and 25. Marked on brass cap. T 31 S on N half, R 12 W. S 24 in NW quadrant. R 11 W on E half and S 25 in SW quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 6 to 12 ins. deep, 3rd. rate. Subsoil, granite formation. Timber, dense cedar on S 77 Chains. Undergrowth sage brush. Land, mountainous. 80.00 Chains.
	North on the E. bdy. of sec. 24. Over, mountainous land, through scattering cedar and dense undergrowth of sage brush.
	Asc., on S face of peak, 200 ft.
14.50	Top of peak and ridge, bears SE and N 80° W.; desc., on N slope 200 ft.
18.00	I make a careful search but failed to find any trace of old sec. cor.
21.75	Wash, 10 lks. wide, 1 ft. deep, in hollow, course E.; asc., along S. slope of spur, 150 ft.
30.00	Spur, projects E.; desc., 125 ft.
35.50	Draw, course NE.; asc. 20 ft.
39.00	Spur, projects NE.; desc., 10 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for

Resurvey of the E. bdy of T 31 S R 12 W.

Chains: 1/4 sec. cor.; marked on brass cap.
1/4 S 24 on W half; raise
a mound of stone, 2 ft. base, 1 1/2 ft.
high W. of cor. Pits impracticable
Desc., gradually.
62.88 Edge, 24 lks. of my line, is the
old 1/4 sec. cor. I destroy all traces of this cor.
71.80 Wash, 10 lks. wide, 1 ft. deep, course N E.
74.20 Main wash, 40 lks. wide, 2 ft. deep, course E.
Enter dense cedar, bear, N E and S W.
Asc., 75 ft.
79.00 Spur, projects E., desc. 10 ft.
80.00 Set an iron post, 3 ft. long, 3 ins. in
dia.; 24 ins. in the ground for cor. of
secs. 13 and 24; marked on brass cap
T 31 S on N half,
R 12 W S 13 in N W quadrant.
R 11 W on E half and
S 24 in S W quadrant; from which
a cedar, 10 ins. diam.; bears
S 3° W.; 20 lks. dist.; marked
T 31 S R 12 W S 24 B.T.
a cedar, 12 ins. diam.; bears
N 66° W.; 96 lks. dist.; marked
T 31 S R 12 W S 13 B.T.
Land, mountainous.
Soil, gravelly and rocky, 12 ins. deep, 3rd rate.
Timber cedar.
Undergrowth, sage brush.
Land, mountainous, 80.00 chains.
Heavily timbered, 5.80 chains.

North on the E. bdy. of sec. 13.
Over rolling, mountainous land,
dense forest of cedar, and scattering
undergrowth of sage brush,
Gradually desc.; over broken land
facing E.; 30 ft.
14.00 Wash, 50 ft. deep, course E.
20.25 Wash, 30 ft. deep, course S 80° E.

Resurvey of the E. bdy. of T 31 S R 12 W.

Chains

25.00 Wash, 30 ft. deep, course NE.

25.22 East, 38 lks. of my line is the old sec. cor. I destroy all traces of this cor. Leave dense timber, bears E and W. Continue through scattering timber.

34.90 Wash, 40 ft deep, course SE, asc. 50 ft.

38.75 Spur, projects E.

40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap,

1/4 S 13 on W half, from which

Cedar, 11 ins. diam.; bears

N 78° W.; 4 1/2 lks. dist.; marked

1/4 S 13 B.T.

September 7, 1910.

September 8: At 7h 58m A. M. l. m. t. I set off 38° 57' on the lat. arc, 5° 34' N on the decl. arc., and determine a meridian with the solar. at this 1/4 sec. cor.;

Thence I run

North.

41.40 Hollow, course SE., asc., over S face of ridge, 200 ft.

54.00 High ridge, bears NW and SE.

Desc., abruptly over N. slope

62.00 Desc., more gradually, over land facing NE.,

65.22 I make careful search, but fail to find any trace of old 1/4 sec. cor.,

78.76 400 ft below ridge.

Wash, 20 lks. wide, 1 ft. deep, in hollow, course NW.

80.00 From this cor. point a coal shaft 4 X 6 X 12 ft. deep, bears, S 61° E., 3.64 chains, dist.: The outcropping bears NW and SE.

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

Resurvey of the E. bdy. of T 31 S R 12 W.

Chains, on brass cap:
T 31 S on N half,
R 12 W S 12 in NW quadrant,
R 11 W in E half and
S 13 in SW quadrant raise a
mound of stone 2 ft. base 1½ ft. high
W. of cor. Pits impracticable.
Land rolling mountainous.
Soil, gravelly and rocky, 10 ins. deep; 3rd rate
Timber, cedar,
Undergrowth, sage brush
Land, rolling mountainous 80.00 chains
heavily timbered 25.22 chains.

North on the E bdy. of sec. 12.
Over rolling mountainous land,
through scattering cedar, scattering
Mahogany and dense sagebrush,
undergrowth: asc. 40 ft.
5.50 Spur projects W.; desc. 50 ft.
7.90 Draw, course W.; asc. 30 ft.
11.50 Spur, projects N 80° W.; desc. gradually
25.00 I make a careful search but fail
to find any trace of old sec. cor.
38.00 Foot of mountainous land, bears E. and W.
thence over gently rolling land sloping W.
40.00 Set an iron post, 3 ft. long, 1 in in
dia; 26 ins in the ground for ¼ sec.
cor.; marked on brass cap.
¼ S 12 on W half; dig pits
18 X 18 X 12 ins. N and S of post. 3 ft. dist.,
and raise a mound of earth, 3½ ft.
base, 1½ ft high. W. of cor.
46.00 Leave Mahogany, bears NE and SW.
65.74 East, 92 lks. from my line is the
old ¼ sec. cor.; I destroy all traces
of this cor.
68.70 Wash, 20 lks. wide 1 ft. deep, course
N W.
76.60 Old road, bears NW and SE.

Resurvey of the E. bdy of T 31 S R 12 W.

Chains.

80.00 Set an iron post, 3 ft long, 3 ins. in dia.; 24 ins. in the ground for cor. of secs. 1 and 12, marked on brass cap,
T 31 S in N. half,
R 12 W, S 1 in NW quadrant,
R 11 W in E half and
S 12 in SW quadrant. dig pits 24 x 24 x 12 ins. in each sec. 6 ft dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W of cor.
Land rolling mountainous and rolling.
Soil, gravelly, 12 to 15 ins. deep, 3rd rate.
Timber, a few scattering cedar.
Undergrowth, dense short sage brush and mahogany.
Land rolling, mountainous 38 chains.
Sept. 8: At this sec. cor. I set off 5° 49½' N on the decl. arc. and at 11h 58m. a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 38° 08½'.

North on the East bdy of sec. 1.
Over rolling land land sloping W.
Dense undergrowth of sage brush, 2 ft. high.

26.28 East, 127 lks of my line is the old sec. cor.; I destroy all traces of this cor.
Thence over land, facing N.

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

September 8, 1910.

Resurvey of the E bdy of T31S R12W.

chains Nov. 16: By letter dated Nov. 9. 1910. from the U.S. Surveyor General for Utah I was instructed to establish the Standard cor. for Tps 30 S R 11 and 12 W. as follows: Commence at the Standard 1/4 sec. cor. on the S bdy. of sec. 34 and run East on a true line in the regular manner prescribed for running Standard lines, a distance of 2 1/2 miles, and establish the Standard cor. for Tps 30 S, R's 11 and 12 W.

Having already, erroneously, established this Standard Tp cor. and closed thereon when letter was received, I return at the mile of E bdy. sec 1 from the 1/4 sec. cor. as follows. North.

52.65 Wash, 15 lks. wide, course N.W. Base of rocky knoll, bears E and W. Asc., 50 ft.

54.50 Top of knoll, desc. 50 ft.

57.00 Foot of knoll, bears E and W.

66.83 East, 155 lks. from my line is the old 1/4 sec. cor. I destroy all traces of this cor.

Thence over land sloping E.

104.60 Wash, 20 lks wide 1 ft deep, course NE.

108.35 Intersect 6th Standard Parallel South, 419 chains W of the Standard cor. of Tp 30 S, R's. 11 and 12 W., heretofore described where I set an iron post, 3 ft. long, 3 ins in dia, 24 ins. in the ground for closing cor. of Tp 31 S, R's 11 and 12 W., marked on brass cap.

T30S in N half,
R12W S36 in NW and
R11W S31 in NE quadrants of N half.
CCT31S in S half.
S6 R11W in SE and
S1 R12W in SW quadrants of S half.

Resurvey of the E bdy of T 31 S R 12 W.

Chains.	Raise a mound of stone, 2 ft. base, 1½ ft. high S of cor. After a careful search, I failed to find any trace of the old Closing Tp cor. I destroy all traces of Closing Tp. Cor, erroneously established Sept. 8, Land rolling. Soil, gravelly, 12 to 20 ins deep, 2nd rate. Subsoil, lime formation. Undergrowth, sage brush. No timber

Resurvey of the W. bdy of T 31 S R 12 W.

Chain. Survey commenced Sept. 12, 1910 and executed with a Warren & E. Gurley light mountain transit No. 9624 with solar attachment.

For description of instrument see Book "A" of this survey.

I examine the adjustments of the transit and correct the level and collimation errors, then to test the solar apparatus, by comparing its indications, made during A.M. and P.M. hours, with a meridian determined by Polaris, I proceed as follows;

At the established cor of Ts. 31 and 32 S, Rs 12 and 13 W. latitude 38°04'17" N., longitude 113°12'39" W.; I set Lat 38°04¼' on the lat. arc.; & 15½' N on the decl. arc, and at 4h 26½m. p.m. l.m.t. determine with the solar, a meridian, and mark a point, thereon on a peg, driven in the ground, 5 chs. N of the cor.

At 8h. 4.8m. by my watch, which carries correct 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. S of my station

September 12, 1910.

Sept. 13. At 7h. 26m. l.m.t. I lay off the azimuth of Polaris, 1°29½' to the West. The meridian, thus determined agrees with the meridian established Sept. 12.

At 7h 56m. A.M. l.m.t. I set Lat 38°04¼' on the lat. arc, 4°0' N on the decl. arc. and determine a meridian with the solar transit

Resurvey of the W bdy of T 31 S R 12 W.

Chains. This meridian agrees with the meridian established by p. m. and Polaris observations.

The solar apparatus by p.m. and a.m. observations, agrees with 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 7h 56m a.m. l.m.t. is 15°45' W; the angle thus determined gives the mag. dec. 15°45' E.

Preliminary to commencing the resurvey of this line I run North on a blank line bet secs. 31 and 36. at 40.00 Chains, East, 36 lks of my line is the old 1/4 sec. cor; 80.23 chs. 59 lks. East of my line is the old cor. of secs. 25, 30, 31 and 36, North bet secs. 25 and 30; 40.00 chains. after a careful search, I failed to find any trace of the old 1/4 sec. cor. 80.00 chs. I failed to find any trace of the old sec. cor. I continue North and at 121.58 chains, East of my line 1.13 chains is the old 1/4 sec cor. for secs 19 and 24.

I find this portion of the bdy, out in, alinement, distance, the cors. nearly all obliterated, and it necessary to establish closing cors. when the subdivisions of T 31 S, Rs 12 and 13 W are closed on this bdy.

As these TPs are not subdivided I resurvey this range line, noting courses and distances and destroying all old cors.

North bet secs. 31 and 36.

Over nearly level land, through dense undergrowth of short sage brush and

Resurvey of the W bdy of T 31 S R 12 W

Chains: shad scale.
2.80 Old road, bears N E and S W.
16.00 Wash, 10 lks. wide, 1 ft. deep, course N W.; thence over land sloping W.
40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap.
1/4 S 36 on W half and
S 31 on E half; dig pits 18 X 18 X 12 ins., N and S of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
40.90 East, 36 lks from my line, is the old 1/4 sec. cor. I destroy all traces of this cor.
80.00 Set an iron post, 3 ft. long, 3 ins. in dia.; 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36.
Marked on brass cap.
T 31 S on N half,
R 13 W S 25 in N W
R 12 W S 30 in N E
S 31 in S E and
S 36 in S W quadrant; dig pits 18 X 18 X 12 ins., in each sec., 5 1/2 ft dist.; and raise a mound of earth, 4 ft. base, 2 ft high, W of cor.
Land, nearly level,
Soil, sandy and clay loams, 1st rate.
Subsoil, lime formation,
Undergrowth sage brush and shad scale.
no timber

North bet. secs. 25 and 30.
Over nearly level land, sloping N E.
Dense undergrowth of short sage brush,
.23 East of my line, 59 lks. is the old cor. of secs. 25, 30, 31 and 36. I destroy all traces of this cor.
40.00 Set an iron post, 3 ft. long, 1 in. in

Resurvey of the W bdy of T 31 S R 12 W.

Chains.	
	dia.; 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S 25 on W half and S 30 on E half; dig pits 18 X 18 X 12 ins., N and S of post, 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor. After a diligent search, I failed to find any trace of the old 1/4 sec. cor.
79.95	Old road, bears NE and SW.
80.00	Blue rock well, bears N 69° E. 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 31 S on N half, R 13 W S 24 in NW. R 12 W S 19 in NE S 30 in SE and S 25 in SW quadrants, dig pits 18 X 18 X 12 ins., in each sec., 5 1/2 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W of cor. After a diligent search, I failed to find any trace of the old sec. cor. Land, nearly level. Soil, sandy and clay loams, 1st rate. Undergrowth, short sage brush; No timber. Sept. 13: At this sec. cor. I set off 3° 56' N on the decl. arc and at 11h 56m. A.M. l.m.t. observe the sun on the Meridian; the resulting latitude is 38° 06'
	North bet. secs. 19 and 24. Over gently rolling land sloping S. Usual dense undergrowth of sage brush
5.40	Old road, bears E and W.
11.60	Old road, bears E and W.
32.00	Base of Blue Butte, bears NE and SW

Resurvey of the W Bdy of T 31 S R 12 W.

Chains	
	Asc., over rocky S slope, 160 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap 1/4 S 24 on W and S 19 on E half.; raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Asc. 240 ft.
41.58	East 1.13 chains from my line is the old 1/4 sec. cor. I destroy all trace of this cor.
52.50	Ridge, bears N E and S W.; descend over steep, rocky, N. slope 200 ft. to
60.00	Hollow, course W.; asc. 150 ft. to
68.00	Spur, projects W.; desc. 40 ft.
80.00	Head of hollow, course N 80° W. 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, marked on brass cap, T 31 S in N half, R 13 W S 13 in N W, R 12 W S 18 in N E, S 19 in S E and S 24 in S W quadrant; raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. After a careful search, I failed to find any trace of the old sec. cor. Land, gently rolling, S 32 chs. rocky, mountainous N 48 chs. Soil, clay and rocky, 2nd and 3rd rates. Undergrowth, short sage brush.

Notices

North bet. secs. 13 and 18.
Over rocky, mountainous land.
Dense undergrowth of short sage brush.
Asc. over land facing S W., 75 ft.
5.00 Ridge, bears N W and S E.

Resurvey of the W bdy of T 31 S R 12 W.

Chains	
	Desc., over rocky land facing N E. 200 ft.
16.00	Hollow, course N E.
40.00	Base of Blue Butte, bears N W and S E. Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap, 1/4 S 13 on W half and S 18 on E half; raise a mound of stone 2 ft. base, 1 1/2 ft. high W of cor. Pits impracticable.
41.58	West of my line, 113 lks. dist., is the old 1/4 sec. cor. I destroy all traces of this cor.
	Thence over level desert land.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia.; 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18. Marked on brass cap, T 31 S in N half. R 13 W S 12 in N W. R 12 W S 7 in N E. S 18 in S E and S 13 in S W quadrant; raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. Land, mountainous and desert land. Soil, rocky and sandy loams, 3rd and 12th rates. Undergrowth, dense shrub sage brush. No timber.
	North bet. secs. 7 and 12. Over level land through dense undergrowth of sage brush, shad scale and scattering greasewood.
1.74	West, of my line, 110 lks. dist. is the old sec. cor. I destroy all traces of this cor.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 1/4 sec. cor.; marked on brass cap;

Resurvey of the N. bdy of T 31 S R 12 W

Chains	
	1/4 S 12 on W half and S 7 on E half; dig pits 18 X 18 X 12 ins., N and S of post, 3 ft. dist; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W of cor. After a diligent search, I failed to find any trace of the old 1/4 sec. cor.
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, marked on brass cap, T 31 S on N half, R 13 W S 1 in NW, R 12 W S 6 in NE, S 7 in SE and S 12 in SW quadrant; dig pits 18 X 18 X 12 ins. in each sec., 5 1/2 ft. dist; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level, Soil, sandy and clay loams, 2nd rate. Undergrowth, sage brush, shadscale and grease wood. No timber
	North bet. secs. 1 and 6. Over level land, through dense undergrowth of sage brush, shadscale and grease wood.
2.18	W 1/4 of my line 1.48 chs. is the old sec. cor.. I destroy all traces of this cor.
40.00	Set an iron post, 3 ft long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; Marked on brass cap: 1/4 S 1 on W half and S 6 on E half; dig pits 18 X 18 X 12 ins., N and S of post, 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft high W of cor.
	September 13, 1910.
	Nov. 16. For reasons as explained

Resurvey of the W. bdy of T 31 S R 12 W

chains	in Notes of line run bet. secs 1 and 2, T 31 S R 12 W. in Book "C" of this survey, I commence at this 1/4 sec. cor and rerun this line North.
42.40	West of my line, 276 lks. is the old 1/4 sec cor. I destroy all traces of this cor.
46.70	Road, Lund to Milford, bears N E and S W.
108.60	Intersect Sixth Standard Parallel South, 10.05 chains. W of the Standard Cor. of TP 30 S. R's 12 and 13 W. heated desc. Where I set an iron post, 3 ft. long, 3 ins. in dia, 24 ins. in the ground for closing cor. of T 31 S R's 12 and 13 W. Marked on brass cap.

T 30 S in N half.
R 13 W S 36 in N W and
R 12 W S 31 in N E quadrant of N half.
C C T 31 S in S half.
S 6 R 12 W in S E and
S 1 R 13 W in S W quadrant of S half;
dig pits 30 x 24 x 12 ins. on each line, E and W of post, 4 ft. dist., and S of post, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2 1/2 ft. high, S of cor. ✓

After a careful search, I failed to find any trace of the old closing cor. I destroy all traces of closing cor. erroneously set by me Sept. 13. ✓

Land, level.
Soil, Sandy and clay loams 2nd rate
Undergrowth, Sage brush, Shadscale and grease wood. No timber

November 16, 1910

Boundaries of T 31 S TP 12 W.
Latitudes, Departures and Closing errors.

Lines Designated.	True bearing.	Distance	Latitude North.	Latitude South	Departures East	Departures West
N-bdy of sec. 1	West	80.23				80.23
N-bdy of sec 2.	West	79.80				79.80
E½-N bdy of sec. 3.	West	35.78				35.78
W½-N bdy of sec 3	N 89°50' W	44.14	.12			44.14
N-bdy of sec. 4	N 89°50' W	77.90	.23			77.90
N-bdy of sec. 4	West	2.35				2.35
N-bdy of sec 5	West	79.88				79.88
N-bdy of sec. 6	West	87.82				87.82
W-bdy T31S R12W	South	508.60		508.60		
S-bdy T31S R12W	East	488.17			488.17	
E-bdy T31S R12W	North	508.35	508.35			
Convergency						.57
Totals			508.70	508.60	488.17	488.47
			508.60			488.17
Errors in lat.			.10	in dep.	.87	.30

For general description see Subdivisions of this T.P.

Andrew Nelson,
Instrumentman, G. L. O.

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

LIST OF NAMES.

A list of the names of the individuals employed by Andrew Nelson Instrumentman, G. L. O., ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ resurvey of the East and West boundaries of T 31 S R 12 W S. L. B. & M. Utah.

showing the respective capacities in which they acted:

Jack Barker, Chainman.
Harry F. Wood, Chainman.
George Schroeder, Moundman.
, Moundman.
John A. Millyard, Axman.
, Axman.
John A. Millyard, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew Nelson Instrumentman G. L. O. resurveying, ~~United States Deputy Surveyor~~, in ~~surveying~~ all those parts or portions of the East and West boundaries of T 31 S R. 12 W.

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Jack Barker, Chainman.
Harry F. Wood, Chainman.
George Schroeder, Moundman.
, Moundman.
, Axman.
, Axman.
John A. Millyard, Flagman. with Axman

Subscribed and sworn to before me this 16th day of November, 1910.

Andrew Nelson
Instrumentman G. L. O.

SEAL

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BOOK A-376

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 "V" T. 33 S., R.16 W.

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

.....
United States Deputy Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 7, 1914

The foregoing field notes of the re survey of the East and West Boundaries of Township No. 31 South, Range No.12 West, of the Salt Lake Base and Meridian, Utah,

executed by Andrew Nelson under his ~~contract No.~~ special instructions, dated August 6, 1910, ~~190xx~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

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

.....
United States Surveyor General.

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Ex. AKG.

Filed Feb. 18, 1911.

4—679

G.

BOOK A-376

FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N

O F

TOWNSHIP NO. 31 SOUTH

RANGE NO. 12 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

ANDREW NELSON AND WALTER A. STUMM

In the capacity of U. S. Transitmen *Surveyor, under instructions dated* Aug. 6, *191* 0 *issued by the United States Surveyor General to govern surveys included in Group No.* 2, *which were approved by the Commissioner of the General Land Office,* August 25, *191*0, *pursuant to authority contained in the Act of Congress dated* , *191*

Survey commenced September 9, *191*0

Survey completed November 16, *191*0.

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NAMES AND DUTIES OF ASSISTANTS.

Jack Barker,	Chainman.
Harry F.Wood,	Chainman.
Park Stumm,	Chainman.
Clarence C.Shelby,	Chainman.
George Schroeder,	Moundman.
Troy Beaver,	Moundman.
George A.Faust,	Moundman.
John Ad.Millyard	Axman.
George A.Faust,	Axman.
Louis F.Racine	Flagman.
George A.Faust,	Flagman.
John Ad.Millyard,	Flagman.

BOOK A-376

INDEX DIAGRAM.

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

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

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BOOK A-376

INDEX DIAGRAM.

Township 31 S, *Range* 12 W.

6	64	5	51	4	41	3	29	2	14	1
63		62		51		40		28		13
7	61	8	50	9	40	10	27	11	12	12
61		60		49		39		26		10
18	59	17	48	16	38	15	24	14	9	13
58		57		47		36		23		7
19	56	20	46	21	35	22	22	23	6	24
56		55		45		34		21		5
30	54	29	44	28	33	27	19	26	3	25
54		53		43		32		18		2
31	52	32	42	33	31	34	17	35	1	36

Meanders Page X

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Jack Barker, Harry F. Wood, Park Stumm and Clarence C. Shelby 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 Subdivision of Tp 31 S., R 12 W., of the Salt Lake Base and Meridian Utah.

Jack Barker, Chainman.
Harry F. Wood, Chainman.
Park Stumm, Clarence C. Shelby, Chainman.

Subscribed and sworn to before me this 3rd day of September, 1910

SEAL

Andrew Nelson
Instrumentman G.L.O.

WE, George Schroeder, Troy Beaver and George A. Faust 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 Subdivision of T 31 S, R. 12 W., of the Salt Lake Base and Meridian Utah.

George Schroeder, Moundman.
Troy Beaver, George A. Faust, Moundmen.

Subscribed and sworn to before me this 3rd day of September, 1910

Subscribed and sworn to by Troy Beaver, Sept 26, 1910.

SEAL

Andrew Nelson
Instrumentman G.L.O.

WE, John Ad. Millyard and George A. Faust 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 Subdivision of T 31 S R 12 W., of the Salt Lake Base and Meridian Utah.

John Ad. Millyard, Axman.
George A. Faust, Axman.

Subscribed and sworn to before me this 3rd day of September, 1910

SEAL

Andrew Nelson
Instrumentman G.L.O.

We, Louis F. Racine, George A. Faust, and John Ad. Millyard do solemnly swear that we will well and truly perform the duties of flagman according to instructions given ~~me~~ us, to the best of ~~my~~ our skill and ability, in the survey of Subdivision of T 31 S R 12 W., of the Salt Lake Base and Meridian Utah.

George A. Faust, Louis F. Racine, Flagman.
John Ad. Millyard, Flagman.

Subscribed and sworn to before me this 26th day of September, 1910

Subscribed and sworn to before me George A. Faust, this 26th day of Sept. 1910.

SEAL

Andrew Nelson
Instrumentman G.L.O.

Andrew Nelson
Instrumentman G.L.O.

Subdivision of T 31 S R 12 W.

Chains	
	Survey commenced Sept. 9, 1910 and executed with a W and S. E. Gurley light mountain transit No. 9624 with solar attachment and a Young and Sons solar compass.
	For description of instruments see Book "A" of this survey. Showing my instrument to be in adjustment from test on Polaris, Sept. 6, 1910, given in book "F". I commence at the cor. of secs. 1, 2, 35 and 36 in the S. bdy. of the Tp. heretofore described.
	At 7h. 57½m. A.M. I set off 38°04'¼' on the lat. arc, 5°31' N on the decl. arc and determine a meridian with the solar transit at this sec. cor.
	Thence I run
	N 0°01' W bet. secs. 35 and 36.
	Over rocky, mountainous land, through dense forest of scrub cedar, with growth of short sage brush.
	Asc 4.00 ft
12.00	Leave dense timber, bears E and W.
	Continue through scattering timber
40.00	On S.E. slope of high peak of ridge set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, marked on brass cap
	¼ S 35 on W half and S 36 on E half; raise a mound of stone 2 ft. base, 1½ ft. high to cor. Pits impracticable. No suitable bearing trees available.
	Ascend 50 ft to
52.00	Top of volcanic peak of ridge, bears N and S.W.; descend
58.00	Begin abrupt descent on N slope of peak.

Subdivision of T 31 S R 12 W.

Chains.

72.00 Foot of descent and saddle of ridge, 300 ft below top of peak, bears N and S. Gradually asc. along top of ridge

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

T 31 S S 26 in NW.
R. 12 W S 25 in NE.
S 36 in SE and
S 35 in SW quadrant from which
a cedar, 8 ins. diam.; bears
N 17¼° E, 42 lks. dist.; marked
T 31 S R 12 W S 25 BT.
a cedar, 7 ins. diam.; bears
S 70¾° E.; 54 lks. dist.; marked
T 31 S R 12 W S 36 BT.,
raise a mound of stone, 2 ft base, 1½ ft. high W. of cor.
Land, mountainous.
Soil, rocky, 6 to 12 ins. deep, 4th rate.
Subsoil, granite rock.
Timber, scrub. cedars.
Undergrowth short sage brush.
Land, heavily timbered 12.00 Chains.

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

40.00 Set temp. ¼ sec. cor.

79.96 Intersect E. bdy. of the Tp.; 21 lks. N of cor. of secs. 25, 36, 31 and 36 heretofore described.

Thence

N 89° 51' W on a true line bet. secs. 25 and 36.

Over Mountainous land.
Scattering cedar and undergrowth of short sage brush.
Asc. 50 ft to

2.00 Ridge, bears N 20° E and S W.
Descend 30 ft to.

Subdivision of T 31 S R. 12 W.

Chains.	
8.00	Head of hollow, course N.
	Ascend, 75 ft. to
14.25	Ridge, bears N W and S E.
	Descend, 50 ft. to
30.50	Hollow, course S W.
	Ascend, 40 ft. to
33.50	Spur, projects S W.
	Descend, 75 ft. to
38.25	Hollow, course S 5° E.
	Ascend, 15 ft to
39.98	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap 1/4 S 25 on N half and S 36 on S half; from which Cedar, 6 ins. diam.; bears S 66° W. 43 lks. dist.; marked 1/4 S 36 BT. Cedar, 6 ins. diam.; bears N 17 1/4° E.; 37 lks. dist.; marked 1/4 S 25 BT.
	Ascend, 400 ft. on E slope of rocky ridge
79.96	The cor. of secs. 25, 26, 35 and 36.
	Land, mountainous.
	Soil, gravelly and rocky, 6 to 12 ins.
	depth. 3rd rate.
	Subsoil, granite rock.
	Timber, scattering cedar.
	Undergrowth, sage brush.
	Land, mountainous and timbered
	79.96 chains.
	Sept. 9. At this secs. cor. I set off 5° 27' N for the decl. arc. and at 11h 57m. l. m. t, observe the sun on the meridian; the resulting lat. is 38° 05'.
	N 0° 01' W. bet. secs. 25 and 26 Are mountainous land, thin scattering cedar and undergrowth

Subdivision of T 31 S R 12 W

Chains	
	of short sage brush.
	Ascend along rocky W slope of ridge
	200 ft to
35.00	Head of hollow, course W.
	Ascend, 50 ft to
40.00	Set an iron post, 3 ft. long, 1 in. in diam.; 26 ins. in the ground for
	1/4 sec. cor. marked on brass cap.
	1/4 S 26 on W half and
	S 25 on E half, from which
	a cedar, 8 ins. diam.; bears
	S 42° E.; 85 lbs. dist.; marked
	1/4 S 25 BT.
	a cedar, 12 ins. diam.; bears
	N 52 3/4° W.; 15 lbs. dist.; marked
	1/4 S 26 BT. ✓
58.80	Head of hollow, course W.; ascend 40 ft to
70.00	Low saddle of ridge, bears E and N W.
	Thence along rocky W. slope.
80.00	Set an iron post, 3 ft. long, 2 in. in dia.; 24 ins. in the ground for
	cor. of Secs. 23, 24, 25 and 26
	marked on brass cap
	T 31 S S 23 in N W
	R 12 W S 24 in N E
	S 25 in S E and
	S 26 in S W quadrant; from which
	a cedar, 12 ins. diam.; bears
	N 17 1/4° E.; 80 lbs. dist.; marked
	T 31 S R 12 W S 24 BT.
	a cedar, 12 ins. diam.; bears
	S 57 1/4° E.; 56 lbs. dist.; marked
	T 31 S R 12 W S 25 BT.
	a cedar, 10 ins. diam.; bears
	S 48 3/4° W.; 72 lbs. dist.; marked
	T 31 S R 12 W S 26 BT.
	a pinion pine, 10 ins. diam.; bears
	N 21 1/2° W.; 14 lbs. dist.; marked
	T 31 S R 12 W S 23 BT. ✓
	Land, mountainous.
	Soil, rocky and gravelly, 10 ins deep.

Subdivision of T 31 S R 12 W.

Chains	3rd rate.
	Subsoil granite rock.
	Timber, scattering cedars.
	Undergrowth, sage brush.
	Land mountainous and timbered
	80.00 Chains.
	Sept. 9. 1910.
	Sept. 10: At 7h 27m A.M. l.m.t. I
	set off 38° 06' on the lat. arc.
	5° 09½' N on the decl. arc. and
	determine a meridian with the
	solar transit at the cor. of secs.
	23. 24. 25 and 26.
	S 89° 51' E on a random line bet. secs.
	24 and 25
40.00	Set temp. ¼ sec. cor.
80.06	Intersect E. bdy of the Tp., 14 lks.
	S of the cor. of secs. 19, 24, 25 and
	30 heretofore described.
	Thence I run
	N 89° 57' W on a true line bet secs.
	24 and 25.
	Over mountainous land thru
	dense undergrowth of short sage brush
5.50	Hollow. Course S. 125 ft. below sec.
	Cor:
	Ascend 125 ft to
27.00	Ridge bears N 10° E and S W.
	Enter dense cedar and pinion pine
	timber bears N and S.
	Descend 150 ft. to
37.50	Hollow. Course, S 20° W; asc. 100 ft to
40.03	On E slope of spur.
	Set an iron post. 3 ft long. 1 in
	in dia.; 26 ins. in the ground, for
	¼ sec. cor.; marked on brass cap.
	¼ S 24 on N half and
	S 25 on S half; from which
	a cedar, 8 ins diam.; bears
	S 12° E.; 11½ lks dist.; marked

Subdivision of T 31 S R 12 W.

Chains.	
	1/4 S 25 BT.
	a cedar. 9 ins. diam.; bears
	N 14½° E.; 25½ lks. dist.; marked
	1/4 S 24 BT.
	Leave dense timber, bears N and S.
	Continue thru scattering timber.
	Ascend 50 ft. to
44.00	Spur, projects S.; desc. 125 ft to
50.50	Hollow, course S 10° E.;
	Ascend over rocky E slope of ridge, 200 ft
71.50	Rocky ridge, bears N and S.
	Descend 200 ft to
80.06	The cor. of secs. 23, 24, 25 and 26.
	Land, mountainous.
	Soil, rocky, 6 to 12 ins. deep, 3rd rate.
	Timber cedar and pinion pine.
	Undergrowth, short sage brush.
	Land heavily timbered E. 40.00 chs.
	N 0° 01' W bet. secs. 23 and 24.
	Over, rocky, mountainous land thru dense cedars, scattering sage brush,
	Gradually descend, over land facing SW; 100 ft to
24.00	Hollow, course W.; ascend 100 ft. to
32.00	Spur, projects W.; descend 60 ft. to
40.00	Set an iron post, 3 ft. long, 1½ in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap
	1/4 S 23 on W half and
	S 24 on E half, from which
	a cedar, 10 ins. diam.; bears
	S 20° E.; 5 lks. dist.; marked
	1/4 S 24 BT.
	a cedar, 8 ins. diam.; bears
	S 89° W.; 3½ lks. dist.; marked
	1/4 S 23 BT.
	Descend 130 ft. to
57.00	Hollow, course W.
	Leave dense timber, bears N E and W.

Subdivision of T 31 S R. 12 W.

Chains	
	Ascend, thru scattering timber, 140 ft to
59.50	Spur, projects W.; desc. 40 ft to
65.00	Hollow, course SW.; Ascend, over
	S slope of ridge, 150 ft to
80.00	On top of ridge, bears S 80° E and W.
	Set an iron post, 3 ft long, 2 ins.
	in drain; 24 ins. in the ground
	for cor. of secs. 13, 14, 23 and 24
	Marked on brass cap.
	T 31 S S 14 in NW,
	R 12 W S 13 in NE.
	S 24 in SE and
	S 23 in SW. quadrant; from which
	A cedar, 6 ins. drain; bears
	N 29½° E.; 83 lks. dist.; marked
	T 31 S R. 12 W S 13 BT.
	A cedar 8 ins. drain; bears
	S 65° E.; 53 lks. dist.; marked
	T 31 S R 12 W S 24 BT.
	A cedar, 8 ins. drain; bears
	S 2° 40' W.; 149 lks. dist.; marked
	T 31 S R 12 W S 23 BT.
	A cedar, 10 ins. drain; bears
	N 59½° W.; 180 lks. dist.; Marked
	T 31 S R 12 W S 14 BT.
	Land, mountainous.
	Soil, gravelly and rocky, 6 to 12 ins
	Deep, 3rd rate
	Subsoil, granite rock,
	Timber Cedar.
	Undergrowth, scattering sage brush.
	Land, heavily timbered S 51.00 Chains.
	Sept. 10. At this sec. cor. I set off
	5° 04' N on the decl. arc. and
	at 11h 57m 1. m. t., observe the sun
	on the meridian; the resulting
	lat. is 38° 06¾'
	S 89° 57' E on a random line bet.
	secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.

Subdivision of T 31 S. R 12 W.

Chains.	
80.10	Intersect E. bdy of Tp., at the cor. of secs. 13, 18, 19 and 24 heretofore described.
	Thence I run
	N 89° 57' W on a true line bet. secs. 13 and 24.
	Over mountainous land thru dense forest of cedar.
	Ascend along rocky N slope of ridge, 30 ft.
3.10	Ridge, bears W and S E.; thence along top of ridge.
25.10	Leave top of ridge, bears E and S W..
	Ascend 200 ft. to
26.85	Wash, 15 lks. wide, 1 ft. deep, in hollow, course N 60° E.
	Ascend over land facing S E.; 150 ft. to
40.05	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. Cor.; marked on brass cap.
	1/4 S 13 on N half and
	S 24 on S half from which
	a cedar, 14 ins. diam.; bears
	S 70 1/2° W.; 60 lks. dist.; marked
	1/4 S 24 BT.
	a cedar, 10 ins. diam.; bears
	N 72 3/4° W.; 74 lks. dist.; marked
	1/4 S 13 BT.
	Continue asc. over land facing S E. 200 ft.
63.10	Rocky ridge. bears N 30° E and S 30° W.
	Top of high peak. bears. S W, 3 chs. dist..
	Leave dense timber bears N and S.
	Descend over land facing N W.; thru scattering timber, 300 ft. to
73.60	Head of hollow, course N.
80.10	The cor. of secs 13, 14, 23 and 24.
	Land mountainous.
	Soil, gravelly and rocky, 6 to 12 ins. deep 3rd rate.
	Timber Cedars.

Subdivision of T. 31 S. R. 12 W.

Chains.	
	Undergrowth scant. sage brush. Land, heavily timbered 63.10 Chains: September 10. 1910.
	Sept. 15: At 7h. 55½m. a.m. l. m.t. I set off 38°. 06¾' on the lat. arc. 3°-15': Now the decl. arc. and determine a meridian with the solar transit 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 thru forest of scattering cedars and undergrowth of short sage brush.
	Descend, over land facing N.W. 100 ft.
12.00	Hollow, course N.E.; descend, over land sloping E.
16.50	The top of a peak, bears N 69° E.
40.00	The top of same peak, bears S 69° E.
	Set an iron post 3 ft. long, 1 in. in dia.; 26 ins. in the ground for ¼ sec. cor. marked on brass cap ¼ S 14 on W half and S 13 on E half from which a cedar, 5 ins. diam.; bears S 19¾° E.; 55 lks. dist.; marked ¼ S 13 BT a cedar, 6 ins. diam.; bears S 89° W.; 120 lks. dist.; marked ¼ S 14 BT.
41.00	500 ft. below sec. cor. Hollow, course N.W., ascend 50 ft. to
46.50	Spur, projects N.W.; Top of a peak bears N 80° E. Descend 60 ft. to
57.08	Hollow, course W.; ascend 30 ft.
60.00	Spur, projects W.; descend 25 ft.
65.25	Hollow, course N.W.; ascend 50 ft.
69.75	Spur, projects N.W.; descend 75 ft.
75.50	Wash, 15 lks. wide 1 ft. deep, course N.W.

Subdivision of T 31 S R 12 W.

Chains	
78.50	Wash, 20 lks wide, 1 ft. deep, course NW,
80.00	Top of a peak, bears S 5 E.
	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor of secs. 11, 12, 13 and 14 marked on brass cap.
	T 31 S S 11 in NW.
	R 12 W S 12 in NE
	S 13 in SE and
	S 14 in SW quadrant, from which
	a cedar, 8 ins. diam.; bears
	N 21½° E.; 215½ lks. dist.; marked
	T 31 S R 12 W S 12 BT.
	a cedar, 7 ins. diam.; bears
	S 43½° E.; 25 lks. dist.; marked
	T 31 S R 12 W S 13 BT.
	a cedar, 13 ins. diam.; bears
	S 15° W; 111 lks. dist.; marked
	T 31 S R 12 W S 14 BT.
	a cedar, 6 ins. diam.; bears
	N 12½° W.; 233 lks. dist.; marked
	T 31 S R 12 W S 11 BT.
	Land mountainous.
	Soil rocky, 6 to 12 ins. deep. 3rd rate.
	Timber cedar.
	Undergrowth short sage brush.
	Land mountainous and timbered
	80.00 chains.
	Sept. 15: At this sec. cor. I set off 3° 10' N on the decl. arc, and at 11h 55½m. l.m.t. observe the sun on the meridian; the resulting lat. is 38° 08'.
	S 89° 57' E on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.15	Intersect E bdy of the Tp., 7 lks. S of the cor. of secs. 7, 12, 13 and 18 heretofore described.
	Thence I run
	West on a true line bet. secs. 12 and 13

Subdivision of T 31 S R 12 W.

Chains.	
	Over mountainous land thru dense undergrowth of short sage brush. Descend, 30 ft to
1.95	Wash, 15 lks wide, 1 ft. deep, in hollow course N W.; ascend, 200 ft to
12.00	Spur, projects N E.; descend, 30 ft to
14.00	Hollow, course N E.; ascend, 75 ft to
20.50	Spur, projects N.; descend, 100 ft to
24.65	Hollow, course N.; ascend 75 ft. to
29.00	Top of spur, projects N.; descend, 100 ft to
32.30	Hollow, course N.; ascend, 75 ft. to
36.50	Spur, projects N. Enter scattering cedars, bears N and S. Descend, 60 ft
40.07½	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for ¼ sec. cor. marked on brass cap. ¼ S 12 on N half and S 13 on S half from which a pinion pine, 8 ins. diam.; bears N 34° E., 76 lks. dist.; marked ¼ S 12 BT.; raise a mound of stone 2 ft. base, 1½ ft high N of cor. Pits impracticable. No suitable bearing tree in Sec. 13. Desc. 15 ft.
43.00	Hollow, course N.; ascend 75 ft to
52.50	Spur, projects N W.; descend, 75 ft. to
58.00	Hollow, course N W.; ascend 100 ft to
60.50	Spur, projects N W.; descend, 30 ft. to
68.60	Wash, 30 lks wide, 30 ft. deep, course N W.; Ascend over land facing W and N W, 50 ft.
80.15	The cor. of secs. 11, 12, 13 and 14. Land, mountainous. Soil, rocky, 6 to 12 ins deep, 3rd rate. Subsoil, granite rock. Timber, scattering cedar, on W. 43.65 chains. Undergrowth, sage brush. Land, mountainous 80.15 chains.

September 15, 1910.

Subdivision of T 31 S R 12 W.

Chains | Sept. 16: at 9h 55m a.m. l.m.t. I set off 38° 08' on the lat. arc, 2° 48¾' N on the decl. arc, and determine a meridian with the solar, at the Cor. of secs. 11, 12, 13 and 14.
Thence I run.
N 0° 01' W bet secs. 11 and 12.
Over hilly land thru forest of scattering cedars and undergrowth of short sage brush.
Descend 15 ft to
2.15 Wash 20 lks. wide, 1 ft deep, course NW.; ascend 50 ft to
12.00 Spur, projects NW.; desc. 75 ft. to
20.00 Wash, 10 lks. wide, 1 ft deep, course NW., descend on rolling land sloping NW.
27.00 Sheep corral, bears W., 8 chs. dist.;
40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins in the ground for ¼ sec. cor.; marked on brass cap
¼ S 11 on W half and
¼ S 12 on E half from which
a cedar, 8 ins. diam.; bears
S 66° E.; 40 lks dist.; marked
¼ S 12 BT.
a cedar, 12 ins. diam.; bears
N 53° W.; 41 lks. dist.; marked
¼ S 11 BT.
46.10 Wash, 15 lks. wide, 1 ft. deep, course NW.
52.00 Leave scattering timber, bears E and W.
80.00 Set an iron post, 3 ft. long, 2 in. in diam.; 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 12 W S 1 in NE
S 12 in SE and
S 11 in SW quadrant., raise a mound of stone, 2 ft base, 1½ ft.

Subdivision of T 31 S R 12 W.

Chains.	
	high W. of cor.
	Pits impracticable
	Land hilly and rolling.
	Soil rocky and gravelly, 3rd rate
	Subsoil lime formation.
	Timber; scattering cedar on S 52.00 chains.
	Undergrowth, short sage brush.
	Land hilly, S 20.00 chains
	Sept. 16. At this sec. cor. I set off 2°46 3/4' N on the decl. arc; and at 11h 55m. l. m. t. observe the sun on the meridian; the resulting lat. is 38°08 1/2'
	East on a random line bet. secs. 1 and 12.
40.00	Set temp 1/4 sec. cor.
80.20	Intersect E. bdy of Tp. 9 lks. S of cor. of secs. 1, 6, 7 and 12, heretofore described.
	Thence I run
	S 89°56' W on a true line bet. secs. 1 and 12.
	Over gently rolling land sloping W., thru dense undergrowth of sage brush 2 ft high.
2.00	Old road bears N W and S E.
5.50	Wash. 30 lks. wide, 1 ft. deep, course N W
40.10	Set an iron post. 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap. 1/4 S 1 on N half and S 12 on S half from which a cedar, 10 ins. diam.; bears N 84 1/4° W.; 217 lks. dist.; marked 1/4 S 1 BT.; raise a mound of stone 2 ft. base, 1 1/2 ft high. N of cor. Pits impracticable.
52.15	Wash. 10 lks wide, 1 ft Deep, course N W.

Subdivision of T 31 S R. 12 W.

Chains	
80.20	The cor. of secs. 1, 2, 11 and 12.
	Land, gently rolling.
	Soil, gravelly and sandy loam, 6 to 10 ins. deep, 2nd rate.
	Subsoil, lime formation.
	Timber, a few scattering cedar.
	Undergrowth dense sage brush.
	N 0°01' W on a true line bet. secs. 1 and 2
	Over gently rolling prairie land, sloping N.W.; thru dense undergrowth of sage brush.
20.00	Wash, 10 lks. wide 1 ft. deep, course N.W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap.
	1/4 S 2 on W half and
	S 1 on E half. Elig. pits
	18 X 18 X 12 ins.; N and S of post, 3 ft. dist.; and raise a mound of earth 3 1/2 ft base 1 1/2 ft. high W. of cor.
	Sept. 16. 1910.
	By letter dated Nov. 9. 1910 from the U. S. Surveyor General, for W. I was instructed to project the 6th Standard Parallel South as follows.
	Commence at the Standard 1/4 sec. cor. on the S bdy of sec. 34, T 30 S. R 12 W, previously established and run East on a true line, in the regular manner prescribed for running standard lines, a distance of 2 1/2 miles and establish the Standard cor. for T 30 S, Rgs. 11 and 12 W.
	Commence at the the cor. of secs. 32 and 33. Tp. 30 S. R 12 W., and run W. a distance of 2 miles and establish the Standard cor. to T 30 S, Ranges 12 and 13 W. From this cor. run West setting cor's. at intervals

Subdivision of T 31 S R 12 W.

Chains. of 40 and 80 chains, through Ranges 13, 14, 15 and 16 W. in the manner prescribed for running Standard lines.
Having erroneously established the Sixth Standard Parallel South through R. 12 W. and closed thereon when letter was received
I rerun this line from the 1/4 sec. cor. as follows.
Nov. 16: at 8 h. 45 m. a.m. l.m.t. I set off 38° 09' on the lat. arc. 18° 36 1/2' S on the decl arc. and determine a meridian with the solar transit at the 1/4 sec. cor. bet secs. 1 and 2.
N 0° 01' W on a true line bet. secs. 1 and 2.
108.13 Road, bears N E and S W.
108.43 Intersect the 6th Standard Parallel South. 4.42 Chains W of the S.C. of secs. 35 and 36, T 30 S R 12 W. Where I set an iron post, 3 ft long 2 ins. in dia.; 24 ins. in the ground for closing cor. to secs. 1 and 2. T 31 S R 12 W., marked on brass cap.
CC T 30 S R 12 W S 35 S 36 on N half
S 1 in S E and
S 2 in S W quadrant; dig pits 24 X 18 X 12 ins.; crosswise on each line E and W, 3 ft. dist., and S of post, 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high S of cor.
I destroy all traces of the closing cor. established Sept. 16, 1910.
Land, gently rolling.
Soil gravelly and sandy loam 2nd rate.
Subsoil. gravel hardpan.
Undergrowth short sage brush.
No timber.

Andrew Nelson
Instrumentman G.L.O.

Subdivision of T. 31 S. R. 1920.

Chain. Sept. 8. For description of solar compass see book "A" of this survey.

I examine the adjustment of the solar compass and correct the level error. Then to test the solar apparatus by comparing its indications, resulting from solar observations made during A.M. and P.M. hours, with a meridian determined by observation on Polaris.

I proceed as follows:

At the Cor. of secs. 2, 3, 34 and 35 in the S. bdy. of the Tr. heretofore described, lat. 38° 04' 17" N., long. 113° 08' 17" W., I set off 38° 04' on the lat. arc, 5° 47' N. on the decl. arc, and at 4 h. 57½ m. P.M. l.m.t. determine with the solar compass a meridian and mark a point thereof on a peg driven in the ground, 6 chains N. of the Cor.

At 8 h. 23½ m. P.M. l.m.t. by my watch which carries correct 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, 6 chains N. of my station.

September 8, 1910.

Sept. 9. At 7 h. 45 m. A.M. l.m.t. I lay off the azimuth of Polaris 1° 29½' to the W. which falls at the same point as my meridian determined.

September 8.

At 7 h. 57½ m. A.M. l.m.t. I set off 38° 04' on the lat. arc 5° 37' N. on the decl. arc and determine a meridian

Subdivision of T 31 S, R 12 W.

chains | with the solar compass, which corresponds with the meridian already determined.
The Solar apparatus by P.M. and Am. observations, agrees with the meridian established by the Polaris observations, therefore, I conclude that the adjustments of the instrument are satisfactory.
The magnetic bearing of the true meridian at 7h 57½m a.m. l.m.t. is 15° 45' W., the angle thus determined gives the mag. decl. 15° 45' E.

From the cor of secs. 2, 3, 34 and 35 heretofore described
I run
N. 0° 01' W. bet secs. 34 and 35.
Over rough mountainous land, thru dense undergrowth of short sage brush; ascend over rocky S face of mountain.
6.00 Enter scattering cedar, bears NW and S.E.
7.25 120 ft. above sec. cor.
Rocky ridge bears NW and S.
Descend 460 ft. to
16.00 Ravine, course S.E.; ascend 30 ft. to
22.00 Spur, projects S.E.; descend 50 ft.
25.40 Ravine, course S.E.; ascend 50 ft
31.50 Spur, projects N.E.; descend 125 ft.
36.00 Hollow, course N.E.; ascend 80 ft.
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor. marked on brass cap
1/4 S 34 on W half and
S 35 on E half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
No suitable bearing trees available
Ascend over slides of granite rock. 410 ft. to
56.00 Top of same ridge, bears NE and SW.
Descend over slides of granite rock

Subdivision of T. 31 S., R. 12 W.

chains

470 ft. to
70.00 Hollow, course N.W.; ascend 30 ft.
74.00 Spur, projects N.W.; descend 64 ft.
78.00 Hollow, course N.W.; ascend 20 ft.
80.00 On spur, projects N.W.
Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked on brass cap
T 31 S S 27 in N W
R 12 W S 26 in N E
S 35 in S E and
S 34 in S W quadrant; from which
a cedar, 8 ins. diam., bears
S 73½° W., 52 lks dist., marked
T 31 S R 12 W S 34 B T
a cedar, 6 ins. diam., bears
N 10½° W., 3 7½ lks. dist., marked
T 31 S R 12 W S 27 B T.; raise a mound of stone 2 ft base, 1½ ft high W. of cor.
Note; No other bearing trees within limits.
Land, rough mountainous
Soil, rocky, 4th rate.
Subsoil, granite rock.
Timber, scattering cedar.
Undergrowth, sage brush.
Land rough mountainous 80.00 ch.

East on a random line bet. secs. 26 and 35.
40.00 Set temp 1/4 sec. cor.
80.02 Intersect N and S line, 21 lks. S. of cor of secs. 25, 26, 35 and 36.
Thence I run
S. 89° 51' W. on a true line bet secs. 26 and 35.
Over rough mountainous land thru scattering cedars and dense undergrowth of short sage brush.
Descend rocky bank facing S.E. 270 ft.

Subdivision of T 31 S R 12 W.

chains.	
24.20	Hollow, course SE.; ascend, 40 ft
31.75	Ridge. bears NW and SE.; desc, 50 ft.
34.00	Hollow course SE.; ascend, 40 ft to
38.00	Spur, projects SE.; descend, 30 ft
40.01	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor. marked on brass cap. 1/4 S 26 on N half and S 35 on S half from which a cedar, 5 ins. diam.; bears S 57 1/4° W.; 100 lks. dist.; marked 1/4 S 35 BT. a cedar, 5 ins. diam.; bears N 18° E.; 55 lks. dist.; marked 1/4 S 26 BT. ✓
	Desc. 30 ft to
42.00	Hollow, course S.; ascend, 40 ft to
46.00	Spur, projects S.; descend 40 ft.
48.00	Hollow, course S.; ascend 240 ft
61.50	Spur, projects S.; descend over granite boulders, 80 ft to.
68.00	Hollow. Course SE.; ascend 120 ft.
74.00	High ridge. bears NE and S.; Desc., over rocky land facing SW.; 110 ft. to
80.02	The cor. of secs. 26, 27, 34 and 35. Land. Mountainous Soil. rocky. 12 ins. deep, 4th rate Subsoil. granite rock. Timber, cedars. Undergrowth. dense short sage brush. Land mountainous and timbered 80.02 chains. ✓ Sept. 9: at this sec. cor. I set off 5° 27' N on the decl. arc. and at 11h 57 1/2 m. l.m.t. observe the sun on the meridian; the resulting latitude is 38° 05'.

N 0° 01' W bet. secs. 26 and 27. Over, rough, mountainous land thru scattering cedars and

Subdivision of T 31 S. R. 12 W.

Chains.	
	Dense undergrowth of short sagebrush. Descend, over slides of granite boulders, 100 ft. to
4.00	Hollow, course N W.; ascend, 100 ft to
10.00	Ridge bears E and W.; descend over slide rock, 170 ft to
21.00	Hollow, course N W.; ascend 20 ft
32.00	Spur, projects N W.; Enter dense cedar, bear N E and S W.; Descend, 20 ft to
37.00	Ravine, course W.; ascend, 40 ft.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap 1/4 S 27 on W half and S 26 on E half, from which a cedar, 5 ins. diam.; bears S 60 3/4° E.; 105 lks. dist.; marked 1/4 S 26 B T. ✓ a cedar, 6 ins. diam.; bears N 56 1/4° W.; 13 1/2 lks. dist.; marked 1/4 S 27 B T. ✓
	Asc. 20 ft
52.00	Spur, projects W, descend 40 ft.
63.00	Ravine, course W.; ascend, 30 ft.
77.00	Spur, projects W.; descend, 40 ft.
79.50	Ravine course W.; ascend, 40 ft.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground, for cor. of secs. 22, 23, 26 and 27 marked on brass cap T 31 S S 22 in N W. R 12 W S 23 in N E S 26 in S E and S 27 in S W quadrant. from which a cedar, 6 ins. diam.; bears N 45 1/2° E.; 85 lks. dist.; marked T 31 S R 12 W S 23 B T. a cedar, 6 ins. diam. bears S 67° E.; 71 lks. dist.; marked

Subdivision of T 31 S R 12 W.

Chains.	
	T 31 S R 12 W S 26 BT ✓
	a cedar, 8 ins. diam.; bears
	S 29° W.; 52 lks. dist.; marked
	T 31 S R 12 W S 27 BT
	a cedar, 6 ins. diam.; bears
	N 5 2¼° W.; 27 lks. dist.; marked
	T 31 S R 12 W S 22 BT ✓
	Land, rough mountainous.
	Soil, rocky, 12 ins. deep, 3rd rate
	Subsoil, granite formation.
	Timber, S 32 chs. scattering cedar,
	N 48 chs. dense cedar.
	Undergrowth, dense short sage brush,
	Land, rough mountainous
	80.00 Chains.
	N 89° 51' E on a random line bet.
	secs. 23 and 26.
40.00	Set temp ¼ sec. cor.
	Sept. 9, 1910.
	Sept. 10., At 7h 57m A.M. l.m.t., I set
	off 38° 06' on the lat. arc., 5° 08¾' N
	on the decl. arc. and determine a
	meridian with the solar compass
	at this temp ¼ sec. cor.
	Thence I run
	N 89° 51' E from temp ¼ sec. cor.
80.06	Intersect Hanks line, 2½ lks. N. of the
	cor. of secs. 23, 24, 25 and 26.
	Thence I run
	S 89° 52' W on a true line bet. secs. 23 and 26
	Over mountainous land, thru dense forest
	of cedar and undergrowth of short
	sage brush; descend, 98 ft.
10.00	Hollow, course N.; ascend, 125 ft.
20.00	Spur, projects N.; descend, 140 ft.
33.00	Hollow, course N 5° W.; ascend, over
	rough mountainous land, 98 ft
40.03	Set an iron post, 3 ft. long, 1 in.
	in dia.; 26 ins. in the ground, for
	¼ sec. cor.; marked on brass cap,

Subdivision of T 31 S R 12 W.

Chains.

¼ S 23 on N half and
S 26 on S half, from which
a cedar, 7 ins. diam.; bears
N 19½° W.; 61 lks. dist.; marked
¼ S 23 B.T.; raise a mound
of stone, 2 ft. base, 1½ ft high, N of cor.
Pits impracticable.
No suitable bearing tree available
in Sec. 26.
Ascend over rocky land facing NE.; 200 ft
50.00 Ridge, bears N and SW.; descend 110 ft.
56.00 Hollow, course NW.; ascend 30 ft
60.00 High rocky ridge, bears N W and S E,
like one side of granite rock, 510 ft.
80.06 The cor. of secs. 22, 23, 26 and 27.
Land, rough mountainous, 40.03
Chains; Mountainous 2, 40.03 Chs.
Soil, rocky, 12 ins. deep, 3rd rate.
Subsoil, granite formation.
Timber, dense cedar.
Undergrowth, dense short sage
brush.
Land, Mountainous and heavily
timbered 80.06 Chains.

Sept 10 At 9h 57m A.M. I m.t. Dec
of 38°06' on the lat. arc, 5°06' N
on the decl. arc, and determined
meridian with the solar compass
at the cor. of secs. 22, 23, 26 and 27.
Thence I run
N 0°01' W Bet. secs. 22
and 23.
Over mountainous land thru
dense forest of cedar and
undergrowth of short sage
brush.
Ascend over land facing W.; 50 ft
6.00 Spur, projects W.; descend 144 ft.
14.50 Ravine, course SW.; ascend 50 ft
20.00 Spur, projects SW.; descend 35 ft.

Subdivisions of T 31 S R. 12 W.

Chains.	
36.00	Ravine course SW.
	Scars dense timber, bears NE and SW.
	Ascend 80 ft. to
40.00	Set an iron post, 3 ft long, 1 in in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap.
	1/4 S 22 on W half and
	S 23 on E half; raise a
	mound of stone, 2 ft. base 1 1/2 ft.
	high W. of cor. Pits impracticable.
	Ascend 100 ft. to
50.00	Spur, projects SW.; desc. 66 ft. to
61.00	Hollow, course SW.; ascend 85 ft to
68.00	Ridge bears E and W.; desc. 225 ft.
76.00	Hollow, course SW.; asc. 35 ft. to
80.00	On top of spur, projects NW.
	Set an iron post, 3 ft. long, 2 in.
	in dia.; 24 ins. in the ground
	for cor. of secs. 14, 15, 22 and 23.
	Marked on brass cap,
	T 31 S S 15 in NW
	R 12 W S 14 in NE
	S 23 in SE and
	S 22 in SW quadrant; raise
	a mound of stone 2 ft. base, 1 1/2 ft.
	high W. of Cor. Pits impracticable.
	Land, mountainous,
	Soil, rocky, 10 ins. deep, 3rd rate.
	Subsoil, granite formation.
	Timber, dense cedar on S 36 chs.
	Mountainous land 80.00 chains.
	Sept. 10; at this sec. cor. I see off 5°04'; N on the decl. arc. and at 11h 57m. l.m.t. observe the sun on the meridian; the resulting lat. is 38°06 3/4'.
	N 89° 52' E on a random line bet. secs. 14 and 23.
40.00	Set temp. 1/4 sec. cor.
80.06	Intersect N and S line, 12 lks N

Subdivisions of T 31 S R 12 W.

Chains.	
	of the cor. of secs. 13, 14, 23 and 24.
	Thence I run
	S 89°57' W on a true line bet. secs.
	14 and 23.
	Over mountainous land thru
	scattering cedar and undergrowth
	of short sage.
	Asc. along N face of ridge 110 ft. to
10.00	Ridge, bears NW, SW and SE
	Descend over rough, rocky land facing
	W. 535 ft. to
35.00	Hollow, course SW.; ascend 15 ft.
40.03	Point of spur projects S 1 chain.
	Set an iron post 3 ft. long, 1 in.
	in. dia.; 26 in. in the ground
	for 1/4 sec. cor.; marked on brass cap
	1/4 S 14 on N half and
	S 23 on S half; raise
	a mound of stone 2 ft. base, 1 1/2 ft.
	high N of cor. Pits impracticable.
	No suitable bearing trees available.
	Desc. 60 ft. to
55.00	Hollow, course SW.; ascend 135 ft. to
61.00	Spur, projects NW.; descend 65 ft.
66.00	Hollow, course NW.; ascend 185 ft.
72.00	Spur, projects NW.; descend over rocky
	land facing NW., 165 ft. to
80.06	The cor. of secs. 14, 15, 22 and 23
	Land, mountainous.
	Soil, rocky, 14 in. deep, 3rd rate.
	Subsoil, granite formation.
	Timber scattering cedars.
	Undergrowth sage brush.
	Mountainous land 80.06 chains.

	N 0°01' W bet. secs. 14 and 15 -
	Over mountainous land thru
	scattering cedars and dense
	undergrowth of short sage brush.
	Descend over lava facing NW., 70 ft. to
6.00	Hollow, course NW.; ascend 20 ft.
15.00	Spur projects NW.; descend 140 ft.

Subdivision of T. 31 S., R. 12 W.

Chains	
26.00	Hollow, course NW.; ascend 20 ft.
35.00	Spur, projects W.; descend 25 ft.
38.72	Hollow, course SW.; ascend 30 ft.
40.00	On top of spur, projects W.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for the 1/4 Sec. cor., marked on brass cap
	1/4 S 15 on W half and
	S 14 on E half; from which
	a cedar 6 ins. diam., bears
	N 80 1/2° E., 87 lks dist., marked
	1/4 S 14 BT
	a cedar, 6 ins diam; bears N 69 1/4° W. 15 lks dist,
	marked 1/4 S 15 BT
	Descend over rolling hilly land facing NW.; 30 ft.
70.00	Leave hills, bears NE and SW; descend.
80.00	Set an iron post 3 ft long, 2 ins in dia;
	24 ins in the ground, for cor. of secs. 10, 11,
	14 and 15 marked on brass cap
	T 31 S S 10 in NW
	R 12 W S 11 in NE
	S 14 in SE and
	S 15 in SW quadrant, from which
	a cedar, 8 ins diam., bears N 54 1/2° E., 110 lks dist.,
	marked T 31 S R 12 W S 11 BT
	a cedar 10 ins diam., bears S 4 1/4° E, 108 lks dist.,
	marked T 31 S R 12 W S 14 BT
	a cedar, 15 ins diam, bears S 30 3/4° W, 60 lks dist,
	marked T 31 S R 12 W S 15 BT
	a cedar, 6 ins diam, bears N 51 1/2° W. 28 lks. dist,
	marked T 31 S R 12 W S 10 BT
	Land, mountainous, S. 40. chs; hilly 30.00 chs. and
	nearly level N. 10 chs.
	Soil, rocky, 6 to 20 ins. deep, 2nd rate
	Subsoil, rock and gravel formations.
	Undergrowth short sage brush.
	Land timbered 80.00 chs.

Walter A. Stumm
Instrumentman G.L.O.
Sept - 10 - 1910.

Subdivision of T. 31 S., R. 12 W.

Chains

This 10th day of September, 1910, Louis F. Racine leaves my service, I employ George A. Faust to perform the duties of flagman. No officer authorized to administer oaths other than myself, being available without great inconvenience, delay and expense, I administer the required preliminary and final oaths.

Andrew Nelson
Instrumentman T.L.O.

Sept. 15, 4h 55½m P.M. l.m.t., I set off 38°08' on the lat. arc.; 3°06½' N on the decl. arc. and determine a meridian with the solar compass at the cor of secs. 10, 11, 14 and 15.

N. 89°57' E. on a random line bet. secs 11 and 14.

4.00 Set temp. 1/4 sec. cor.

19.98 Intersect N and S line, 7 lks. S. of the cor. of secs. 11, 12, 13 and 14

Thence I run

S. 89°54' W. on a true line bet. secs. 11 and 14

Over rolling mountainous land, through scattering cedars and dense undergrowth of short sage brush.

Descend over rolling land sloping NW.; 20 ft.

1.50 Wash, 10 lks. wide, 1 ft. deep, course NW

Ascend 30 ft. to

4.00 Spur, projects NW; descend 30 ft.

20.00 Ravine, course NW.; ascend 25 ft.

26.00 Spur, projects NE.; descend 40 ft. to

34.00 Hollow, course NW.; ascend 40 ft.

39.99 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

1/4 S 11 on N half and S 14 on S half, raise a

Subdivision of T 31 S R. 12 W.

Chains	
	Mound of stone 2 ft. base. 1½ ft. high N of cor. Pits impracticable. No suitable bearing trees available. Asc. 10 ft. to
41.00	Spur, projects NE.; descend 50 ft. to
56.00	Hollow, course, NW; ascend 25 ft. to
64.00	Spur, projects NW.; descend 25 ft
74.00	Leave hills, bear, NE and SW.; desc. gradually.
78.00	Wash, 10 chs wide, 1 ft deep, course N.W.
79.98	The cor. of secs. 10, 11, 14 and 15. Land, rolling mountainous. Soil, gravelly, 12 ins deep 2nd rate. Subsoil lime formation. Timber, scattering cedars. Undergrowth, dense short sage brush. Land timbered 79.98 chains.

September 15, 1910.

Walter A. Stumm,
Instrumentman. G.T.O.

Sept. 16. At 7h. 25m. A.M. 1 m.t. I set off 38°08' on the lat. arc, 2°52' N on the decl. arc. and determine a meridian with the solar transit at the cor. of secs. 10, 11, 14 and 15. Thence I run N 0°01' W bet. secs. 10 and 11. Over rolling prairie land, sloping NW.; gradually, desc.; thru scattering cedars and dense undergrowth of short sage brush.

20.10	Old road to sheep corral, bears E and SW.
40.00	Set an iron post. 3 ft. long, 1 in in dia.; 26 ins. in the ground for ¼ sec. cor. marked on brass cap ¼ S 10 on W half and S 11 on E half; from which a cedar, 10 ins. diam.; bears S 25¼° E.; 473 lks. dist.; marked ¼ S 11. BT.

Subdivisions of T 31S R. 12 W.

Chains.	
	a cedar, 8 ins. diam.; bears S 47 3/4° W; 2 38 lks dist.; marked 1/4 S 10 BT.
	Leave timber, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for Cor. of secs. 2, 3, 10 and 11, marked on brass cap T 31S S 3 in NW T 12 W S 2 in NE S 11 in SE and S 10 in SW quadrant; dig pits 18 X 18 X 12 ins.; in each. sec.; 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land rolling prairie, sloping NW.
	Soil, sandy and gravelly, 12 ins. deep, 2nd rate.
	Subsoil, lime formation.
	Timber, scattering cedar, on S 40 chs.
	Undergrowth dense short sage brush.
	N 89° 54' E on a random line bet. secs. 2 and 11.
40.00	Set temp. 1/4 sec. cor.
79.97	Intersect N and S line. 2 lks. N of the Cor. of secs. 1, 2, 11 and 12. Thence I run S 89° 55' W on a true line bet. secs. 2 and 11.
	Area gently rolling prairie land sloping NW.;
	Dense undergrowth of sage brush about 2 ft. high.
38.30	Wash, 10 lks. wide 1 ft. deep, course NW.
39.98 1/2	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap, 1/4 S 2 on N bdy and S 11 on S bdy.; dig pits

Subdivision of T 31 S R 12 W.

Chains. 18 X 18 X 12 ins., E and W of post. 3 ft. dist.; and raise a mound of earth 3½ ft base 1½ ft. high N of cor.

57.35 Road, bears NW and SE.

79.97 The cor. of secs. 2, 3, 10 and 11.

Land gently rolling, prairie.

Soil, sandy loam; 12 ins, deep, 2nd rate

Subsoil, gravelly and lime formation

Undergrowth, sage brush 2 ft. high.

No timber.

Andrew Nelson
Instrumentman, G.S.O.

Sept. 17: At 4h 25m. p.m. l.m.t. I set off 38° 08½' on the lat. arc., 2° 20' N on the decl. arc, and determine a meridian with the solar compass at the cor. of secs. 2, 3, 10 and 11.

Thence I run

N° 01' W on a true line bet. secs. 2 and 3.

Over gently rolling, prairie land sloping NW.

Dense undergrowth of short sage brush

36.50 Old road bears NE and SW.

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

¼ S 3 on W half and
S 2 on E half; dig pits

18 X 18 X 12 ins. N and S of post. 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W of cor.

Sept. 17, 1910.

Nov. 16: For reasons as explained in the notes of mile run between secs. 1 and 2 of this Tp. I commence at this ¼ sec. cor. and extend my line

N 0° 01' W

Subdivision of T 31 S R 12 W.

Chains.
55.85 Road, bears N E and S W
56.00 Foot of hills, bears N E and S W.
Asc. 70 ft.
68.00 Spur, projects E.; desc. 65 ft.
76.00 Foot of hills, bear N E and S W.
108.37 Intersect 6th. Standard Parallel South; 4.22 chains W. of Standard Cor. of secs. 34 and 35; T 30 S R 12 W. heretofore described; where I set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for closing cor. of secs. 2 and 3. T 31 S R 12 W.; marked on brass cap
CC T 30 S R 12 W S 34 S 35 in N half
S 2 in S E and
S 3 in S W quadrants; dig pits 24 X 18 X 12 ins.; crosswise on each line, E and W. 3 ft. dist. and S of post 7 ft. dist.; and raise a mound of earth. 4 ft. base, 2 ft high S. of cor.
I destroy all traces of closing cor. established Sept. 17. 1910.
Land, gently rolling, S 56.00 chains. hilly, 20.00 chains and, gently rolling. N 32.37 chains.
Soil, sandy loam and gravelly, 14 ins. deep, 2nd rate.
Subsoil, lime formation.
Undergrowth dense, short sage brush.
No timber.

Sept. 19: Heavy rain storm prevents field work. Move camp in late P.M. to T 31 S. R. 12 W.
Sept. 19. 1910.

Sept. 12: At 7h 56½' m. a. m. l.m.t. I sight 38°04' on the lat. arc. 4°23' N on the decl. arc. and determine a meridian with the solar compass, at the cor. of secs.

Subdivision of T 31 S R. 12 W.

Chains 3, 4, 33 and 34, in the S. bdy. of the Tp. heretofore described.
Thence I run.
N 0°02' W bet secs. 33 and 34.
Over mountainous land facing W. thru scattering cedars and dense short sage brush.
Descend over rocky land, 40 ft
12.50 Hollow, course SW.; asc. 20 ft
17.00 Spur, projects SW.; desc. 20 ft.
18.90 Hollow, course SW.; asc. 90 ft.
40.00 On top of spur, projects W.
Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap.
1/4 S 33 on W half and
S 34 on E half; raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable
No suitable bearing trees available.
52.00 Hollow, 190 ft below 1/4 sec. cor., course SW.; asc. 90 ft.
65.00 Spur, projects N 80° W, desc. 70 ft.
70.00 Hollow, course W.; asc. 60 ft.
74.00 Spur, projects NW.; desc. 75 ft to
80.00 Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 27, 28, 33 and 34
Marked on brass cap
T 31 S S 28 in NW
R 12 W S 27 in NE
S 34 in SE and
S 33 in SW quadrants, raise a mound of stone 2 ft. base, 1 1/2 ft. high W of cor. Pits impracticable
No suitable bearing trees available.
Land, mountainous.
Soil, rocky, 12 ins. deep, 3rd rate.
Subsoil, lime formation.
Timber, scattering cedar.
Undergrowth, dense short sage brush.

Subdivision of T 31 S R. 12 W.

Chains.	Mountainous land 80.00 chains.
	East on a random line bet. secs. 27 and 34.
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect N and S line, 5 lks. S of the cor. of secs. 26, 27, 34 and 35. Thence, I run S 89° 58' W on a true line bet. secs 27 and 34. Over rocky, mountainous land. thru scattering cedars and dense under growth of short sage brush. Descend over rocky land facing NW.; 200 ft.
3.50	Hollow, course NW.; descend 60 ft.
5.00	Spur, projects NW.; descend 300 ft.
36.00	Hollow, course NW.; ascend 30 ft
37.00	Spur, projects NW.; descend 20 ft.
40.02	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; Marked on brass cap 1/4 S 27 on N half and S 34 on S half, from which a cedar, 9 ins. diam.; bears S 69 1/4° E.; 84 lks. dist.; marked 1/4 S 34 BT. a cedar, 10 ins. diam.; bears N 74 1/2° W.; 39 lks. dist.; marked 1/4 S 27 BT.; Dist. 25 ft.
45.00	Hollow, course NW.; ascend 10 ft
47.00	Spur, projects NW.; descend 65 ft.
70.00	Hollow, course SW.; ascend 40 ft.
74.00	Spur, projects SW.; descend 90 ft.
78.00	Hollow, course NW.; ascend 10 ft.
80.04	The cor. of secs. 27, 28, 33 and 34. Land, mountainous, slopes West. Soil, rocky, 10 ins. deep, 3rd rate. Subsoil, granite formation. Timber scattering cedars. Undergrowth, dense short sage brush. Mountainous land and timbered 80.04 chains.

Subdivision of T 31 S R. 12 W.

Chains	
	Sept. 12. at this sec. cor. I set off 4°19'. Now the decl. arc. and at 11h 56½m. 1. m.t. observe the sun on the meridian, the resulting lat. is 38° 05'.
	N 0°02' W bet. secs. 27 and 28 Over mountainous land, thru scattering cedar and dense undergrowth of short sage brush. Dist. 15 ft.
0.50	Hollow. course S W.; ascend 250 ft.
14.00	Rocky spur, projects W.; desc. 225 ft
28.00	Hollow, course SW.; ascend 65 ft.
36.00	Spur, projects NW; descend 50 ft.
40.00	Sw hollow, course SW. Set an iron post. 3 ft. long, 1 in. in dia.; 26 ins in the ground, for 1/4 sec. cor.; marked brass cap 1/4 S 28 on W half and S 27 on E half; from which Cedar, 10 ins. diam.; bears N 61½° W.; 124 lks. dist.; marked 1/4 S 28 BT. No suitable bearing tree available in sec. 27.; raise a mound of stone. 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. Asc. 75 ft.
48.00	Spur, projects SW.; desc. 50 ft.
56.00	Hollow, course SW.; ascend 70 ft
66.00	Enter dense timber bears NE and SW.
70.00	Top of ridge, bears NE and SW. Descend 210 ft.
80.00	Hollow, course SW. 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, marked on brass cap T 31 S S 21 in NW R 12 W S 22 in NE

Subdivision of T 31 S R 12 W.

Chains.

S 27 in S E and
S 28 in S W quadrant, from which
a cedar, 5 ins. diam.; bears
N 3½° E.; 21 lks. dist.; marked
T 31 S R 12 W S 22 BT.
a cedar, 16 ins. diam.; bears
S 56½° E.; 73 lks. dist.; marked
T 31 S R 12 W S 27, BT.
a cedar, 10 ins. diam.; bears
S 50½° W.; 38 lks. dist.; marked
T 31 S R 12 W S 28 BT
a cedar, 14 ins. diam.; bears
N 84° W.; 144 lks. dist.; marked
T 31 S R 12 W S 21 BT
Land, mountainous.
Soil, rocky, 12 ins. deep, 3rd rate.
Subsoil, granite formation.
Timber cedars.
Undergrowth, dense short sage brush.
Mountainous land 80.00 chains.
Land, heavily timbered N 14.00 chains

N 89° 58' E on a random line bet.
secs. 22 and 27.
40.00 Set temp 1/4 sec. cor.
79.98 Intersect N and S line, 2 lks. N
of the cor. of secs. 22, 23, 26 and 27.
Thence I run.
S 89° 59' W on a true line bet. secs.
22 and 27.
Over mountainous land, thru dense
forest of cedar and undergrowth of
short sage brush.
Ascended rocky land facing N W., 15 ft
0.50 Hollow, course N W.; desc. gradually
160 ft. along N slope of mountain to
17.50 Hollow, course S 5° W.;
leave dense timber bears N E and S W
Ascend thru scattering timber, 200 ft
34.00 Spur, projects S.; desc. 75 ft.
39.17 Hollow, course S E.; ascend. 40 ft

Subdivision of T 31 S R. 12 W.

Chains	
39.99	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap 1/4 S 22 on N half and S 27 on S half; raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. No suitable bearing trees available. Ascend 100 ft.
44.00	Ridge bears NE and SW.; descend, over land facing SW.; 130 ft.
60.00	Enter hollow, course W.; descend down the hollow, 70 ft. to
79.98	The cor. of secs. 21. 22. 27 and 28 Land, mountainous. Soil, rocky, 12 ins. deep, 3rd rate. Subsoil, lime formation. Timber, cedar. Undergrowth, short sage brush. Mountainous land 79.98 chains. Land heavily timbered E. 17.50 chains.

	N 0° 02' W bet. secs. 21 and 22. Area, rough, rocky mountainous land, thru scattering cedars and dense undergrowth of short sage brush. Asc. 75 ft. to
4.00	Ridge, bears E and W.; desc. 75 ft.
8.00	Hollow, course W.; ascend 30 ft.
13.00	Spur, projects SW.; desc. 80 ft.
19.00	Hollow, course W.; ascend 110 ft.
26.00	Spur, projects SW.; descend 110 ft.
37.75	Hollow, course SW.; asc. 50 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap 1/4 S 21 on W half and S 22 on E half; raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W of cor. Pits impracticable.

Subdivision of T 31 S R 12 W.

Chains. No suitable bearing trees available

Sept. 12, 1910.

Sept. 15: at 7h 55½m a.m. l.m.t. I set off 38°.07' on the lat. arc, 3°15' N on the decl. arc, and determine a meridian with the solar compass at this ¼ sec. cor.

I continue my line N 0°02' W.

Descend, over land facing S.E., 90 ft

45.00 Ridge bears N.E. and N.W.

Descend, along top of spur, bearing N. 30 ft to.

68.00 Thence top of spur bears N.E.. desc. along W slope, over granite bouldels, 130 ft

80.00 Set an iron post, 3 ft long, 2 in. in dia, 24 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked on brass cap,

T 31 S S 16 in N W
R 12 W S 15 in N E,
S 22 in S E and
S 21 in S W quadrants; from which a cedar, 5 ins. diam.; bears S 73¾° E.; 21.9 lks. dist.; marked T 31 S R 12 W S 22 B T.

No bearing trees available in other sections; raise a mound of stone 2 ft. base, 1½ ft high w/ of cor. Pits impracticable.

Land, rough mountainous
Soil, rocky, 8 to 14 ins deep, 3rd rate
Subsoil, granite rock.
Timber, cedar,
Undergrowth, dense sage brush.
Rough mountainous and timbered land, 80.00 Chains.

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

Subdivision of T 31 S R 12 W.

chains.	
40.00	Set temp. 1/4 sec. cor.
79.98	Intersect N and S line. 2 lks N of the cor. of secs. 14, 15, 22 and 23
	Thence I run
	West on a true line bet. secs. 15 and 22
	Over rolling, mountainous land thru scattering cedars and dense undergrowth of short sage brush
	Descended land sloping NW., 60 ft
10.75	Hollow, course NW.; ascend, 40 ft
21.00	Ridge, bears NW and SE.; desc. 60 ft.
33.75	Hollow, course SW.; ascend, 15 ft.
36.00	Spur, projects SW:
	Enter dense timber, bears N and S.
	Descend, 20 ft.
39.99	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec cor.; marked on brass cap
	1/4 S 15 on N half and
	S 22 on S half from which
	a cedar, 6 ins. diam.; bears
	S 46 3/4° W.; 4 lks. dist.; marked
	1/4 S 22 BT.
	a cedar, 7 ins. diam.; bears
	N 33 3/4° E.; 22 1/2 lks. dist.; marked
	1/4 S 15 BT.
	Descended low rolling Mountainous land, 170 ft.
55.80	Hollow, course NW.; ascend, 30 ft.
59.00	Spur, projects NW.; descend, 20 ft.
64.00	Hollow, course NW.; ascend, 170 ft
71.00	Leave dense timber, bears N and S.
77.00	Spur, projects N.; descend, 50 ft.
79.98	The cor. of secs. 15, 16, 21 and 22.
	Land, rolling mountainous.
	Soil, rocky, 8 to 14 ins. deep, 3rd rate.
	Subsoil, granite formation.
	Timber cedar.
	Undergrowth, dense short sage brush.
	Land rolling mountainous 79.98 chains.
	Land heavily timbered, 35.00 chains.

Subdivision of T 31 S R 12 W.

Chains.	N 0° 02' W bet. secs 15 and 16.
	Over rocky, mountainous land through scattering cedar and dense undergrowth of short sage brush.
	Descend over land facing N, 300 ft
20.00	Hollow, course W.; ascend 20 ft.
28.00	Spur, projects W.; descend 20 ft.
36.00	Hollow, course N 10° W.; ascend 10 ft.
40.00	Set an iron post, 3 ft long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap 1/4 S 16 on W half and S 15 on E half. From which a cedar, 8 ins. diam.; bears N 62° E, 30 lks. dist.; marked 1/4 S 15 BT. a cedar, 13 ins. diam.; bears S 60 1/2° W.; 229 lks. dist.; marked 1/4 S 16 BT.
	Sept. 15: at this 1/4 sec. cor. I set off 3° 10' N on the decl. arc. and at 11h 55 1/2m. l. m.t. observe the sun on the meridian; the resulting lat. is 38° 07'
	Asc. 40 ft
47.50	Spur, projects NW.; descend 20 ft.
53.00	Foot of mountain, bears NE and SW. Thence over gently rolling prairie land
55.76	Old road to sheep corral, bears NE and SW
64.00	Leave scattering timber, bears E and W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 9, 10, 15 and 16. Marked on brass cap T 31 S S 9 in NW R 12 W S 10 in NE S 15 in SE and S 16 in SW quadrant; dig pits 18 X 18 X 12 ins.; in each sec. 5 1/2 ft. dist.; and raise a mound of earth

Subdivision of T 31 S R 12 W.

Chains	
	4 ft. base 2 ft high W. of cor.
	Land mountainous and gently rolling prairie.
	Soil. S 53 chs. rocky. 12 ins. deep, 3rd rate
	N 27.00 chains gravelly, 14 ins deep. 2nd rate.
	Subsoil. lime formation.
	Timber scattering cedar.
	Undergrowth. dense short sage.
	Land mountainous S 53.00 Chains.
	East on a random line bet. secs. 10 and 15.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect N and S line at the cor. of secs. 10, 11, 14 and 15.
	Thence I run
	West on a true line bet. secs. 10 and 15
	Over gently rolling prairie land sloping NW; thru dense forest of cedar. and undergrowth of sage brush.
16.80	Wash, 15 lks. wide. 3 ft. deep, course NW.
26.50	Old road to sheep corral, bears NE and SW.
31.80	Leave timber, bears NW and SE.
32.00	Wash, 10 lks wide. 1 ft deep course NW
40.00	Set iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap. 1/4 S 10 on N half and S 15 on S half; dig pits 18 X 18 X 12 ins.; E and W. of post, 3 ft. dist.; and raise a mound of earth 3 1/2 ft base, 1 1/2 ft high, N of cor.
70.24	Wash, 10 lks. wide. 4 ft. deep, course NW.
80.00	The cor. of secs. 9, 10, 15 and 16.
	Land, gently rolling prairie, sloping NW.
	Soil, gravelly, 15 ins deep. 2nd rate.
	Subsoil, lime formation.
	Timber, dense cedars on E., 31.80 Chains
	Undergrowth, dense short sage brush.
	Sept. 12, 1910.

Subdivision of T 31 S R. 12 W.

Chains

Sept. 17: at 8h. 55m. a.m. l.m.t.
I set off 38° 08' on the lat. arc,
2° 26 3/4' N on the decl. arc. and determine
a meridian with the solar compass
at the cor. of secs. 9, 10, 15 and 16.
Thence I run
N 0° 02' W bet secs. 9 and 10.
Over gently rolling prairie land.
Dense undergrowth of short sage brush.
40.00 Set an iron post. 3 ft. long. 1 in. in
dia.; 26 ins. in the ground for 1/4 sec.
cor.; marked on brass cap
1/4 S 9 on W half and
S 10 on E half.; raise a
mound of stone, 2 ft base. 1 1/2 ft high.
W. of cor. Pits impracticable.
80.00 Set an iron post. 3 ft. long. 2 ins.
in dia.; 24 ins. in the ground, for
cor. of secs. 3, 4, 9 and 10, marked on brass cap
T 31 S S 4 in NW
R 12 W S 3 in NE
S 10 in S E and
S 9 in SW quadrant.; dig
pits 18 X 18 X 12 ins.; in each sec., 5 1/2
ft. dist.; and raise a mound of
earth, 4 ft. base, 2 ft. high W. of cor.
Land, gently rolling prairie.
Soil, sandy loam and gravelly
10 to 15 ins. deep, 2nd rate.
Subsoil, lime formation.
Undergrowth, dense short sage brush.
No timber.

East on a random line bet. secs. 3 and 10.
40.00 Set temp. 1/4 sec. cor.
79.96 Intersect N and S line 7 lks. N of the
cor. of secs 2, 3, 10 and 11.
Thence I run
N 89° 57' W on a true line bet. secs.
3 and 10.
Over gently rolling prairie land sloping NW.
Dense undergrowth of short sage brush.

Subdivision of T 31 S R. 12 W.

Chains	
39.98	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap. 1/4 S 3 on N half and S 10 on S half; dig pits 18x18x12 ins. E and W of post, 3 ft. deep; and raise a mound of earth, 3 1/2 ft. base 1 1/2 ft. high, N. of cor.
79.96	The cor. of secs. 3, 4, 9 and 10. Land, gently rolling prairie. Soil, sand loam, 12 to 20 ins. deep, 1st rate. Subsoil lime formation. Undergrowth, dense short sage brush. No timber.
	N 0° 02' W on a true line bet. secs. 3 and 4. Over, gently rolling, prairie land, through dense undergrowth of short sage brush and scattering shad scale.
30.15	Road, bears N E and S W.
32.00	Foot of hills, bear. N E and S W. Asc.; SW rocky land, 70 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked to brass cap. 1/4 S 4 on W half and S 3 on E half; raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable.
40.41	Spur, projects SW., Descend 40 ft. to
48.41	Ravine, Course S W.; asc. 70 ft.
60.50	Spur, projects SW; Desc. 65 ft.
70.00	Ravine, course S W; asc. 50 ft.
77.40	Spur, projects W.; desc. 60 ft.
98.40	Foot of hills, bears N W and S E. Desc. gradually, in prairie land, sloping N E
108.41	Intersect the 6th Standard Parallel South 3.46 chs., N 89° 50' W. of the S.C. of secs. 33 and 34, T 30 S R 12 W., as established on

Subdivision of T31S R12W

Chains this date, heretofore described, where I set an iron post, 3 ft. long, 2 ins. dia.; 24 ins. in the ground for closing cor. of secs. 3 and 4, T31S R12W., marked on brass cap.
C C T30S R12W S33 S34 in N half
S3 in S E and
S4 in SW quadrant; dig pits 24 X 18 X 12 ins., crosswise on each line E and W, 3 ft. dist. and S of post, 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high S of cor.
Land, gently rolling prairie and hilly.
Soil; sandy loam, 15 ins. deep 2nd rate.
rocky soil on hilly land, 6 to 10 ins deep 3rd rate. Subsoil, lime formation.
Undergrowth, short sage brush and shad scale
No timber.

Walter A. Stumm.
Instrumentman. G.T.O.

Sept. 12: at 7h. 56½m. a.m. l.m.t., I set off 38°04¼' on the lat arc. 4°23' Now the decl. arc, and determine a meridian with the solar transit at the cor. of secs. 4, 5, 32 and 33 in the S bdy. of the Tp. heretofore described
Thence I run
N0°03'W bet. secs. 32 and 33.
Over rolling land sloping W.
Scattering undergrowth of sage brush
7.90 Wash, 10 lks. wide, 1 ft. deep, course West.
Enter scattering cedars, bear E and W.
12.90 Wash. 10 lks. wide, 1 ft. deep, course SW.
19.00 Enter dense cedars, bear E and W.
25.70 Wash, 15 lks. wide, 1 ft. deep, course SW.
40.00 Leave dense timber, bears E and W
set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4

Subdivision of T 31 S R. 12 W.

Chains	
	sec. cor., marked on brass cap.
	1/4 S 32 on W half and
	S 33 on E half; from which
	a cedar, 12 ins. diam.; bears
	S 48 1/4° E.; 15 lks. dist.; marked
	1/4 S 33 BT
	a cedar, 14 ins. diam.; bears
	S 39 3/4° W.; 43 lks. dist.; marked
	1/4 S 32 BT.
	Thence through scattering cedars.
50.05	Wash, 20 lks. wide, 1 ft. deep, course W.
	Leave scattering timber, bears E and SW.
64.15	Wash, 10 lks. wide, 1 ft. deep, course W.
68.00	Thence over land sloping N.
80.00	Set an iron post, 3 ft. long, 2 ins. in
	dia.; 26 ins. in the ground, for cor.
	of secs. 28, 29, 32 and 33 marked
	on brass cap.
	T 31 S S 29 in NW
	R 12 W S 28 in NE
	S 33 in SE and
	S 32 in SW quadrant; dig
	pits 18 X 18 X 12 ins.; in each sec.;
	5 1/2 ft. dist.; and raise a mound of
	earth, 4 ft. base, 2 ft. high W of cor.
	Land gently rolling.
	Soil sandy loam and gravelly, 15
	ins. deep, 2nd rate.
	Subsoil, hardpan of clay and
	lime formation.
	Timber, cedars.
	Undergrowth, sage brush.
	Land heavily timbered 21.00 chains.
	East on a random line bet. secs. 28 and 33
40.00	Set temp 1/4 sec. cor.
80.10	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, rolling hilly land, draining SW.,

Subdivision of T 31 S. R 12 W.

Chains.	
	Gradually descend 10 ft to
0.90	Wash, 30 lks. wide, 1 ft. deep, in hollow, course S W.; ascend 40 ft to
3.10	Spur, projects S.; descend 40 ft
12.10	Hollow, course S W.; desc. gradually 40 ft
30.10	Enter dense cedars, bear. N E and S W.
40.05	Hollow. course N W.
	Set an iron post, 3 ft. long, 1 in in dia; 26 ins in the ground for 1/4 sec. Cor.; marked on brass cap:
	1/4 S 28 on N half and S 33 on S half, from which
	a cedar, 10 ins. diam.; bears S 26° E.; 24 lks. dist.; marked 1/4 S 33 B T
	a cedar, 15 ins. diam.; bears N 32 1/4° E.; 26 lks. dist.; marked 1/4 S 28 B T.
41.10	Leave dense timber, bears N E and S E. Continue through scattering cedars.
60.90	Leave scattering timber, bears N E and S W
	Wash, 15 lks. wide, 1 ft. deep, course S W.; ascend 30 ft.
66.50	Ridge bears N E and S W.;
	Descend over rolling hilly land.
80.10	The cor. of secs. 28, 29, 32 and 33.
	Land, rolling, mountainous.
	Soil, gravelly, 8 to 12 ins deep, 2nd rate
	Subsoil, gravelly hardpan.
	Timber: cedar
	Underwoods, sage brush.
	Land heavily timbered 21.00 Chains.
	Land, rolling mountainous 80.10 Chains.
	Sept 12: At this sec. cor. I see of 4° 19'. Now the decl. arc and at 11h 56 1/2m. l.m.t. observe the sun on the meridian; the resulting lat is 38° 05' N
	N 0° 03' W bet. secs. 28 and 29.

Subdivision of T 31 S R 12 W.

Chains.	
	Over gently rolling land sloping W. Dense undergrowth of short sagebrush
14.00	Wash, 10 lks wide, 1 ft. deep, course NW
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap 1/4 S 29 on W half and S 28 on E half; from which a cedar, 16 ins. diam.; bears N 68 3/4° E.; 82 lks. dist.; marked 1/4 S 28 BT. a cedar, 10 ins. diam.; bears S 68° W.; 7 1/2 lks. dist.; marked 1/4 S 29 BT.
40.25	Wash, 20 lks. wide, 1 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. 20, 21, 28 and 29, marked on brass cap. T 31 S S 20 in NW R 12 W S 21 in NE S 28 in SE and S 29 in SW quadrant; dig pits 18 X 18 X 12 ins., on each sec.; 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
	Land, gently rolling.
	Soil, sandy loam and gravelly, 12 ins. deep, 2nd rate;
	Subsoil, lime formation.
	Timber, a few scattering cedars.
	Undergrowth, dense short sage brush.
	East on a random line bet. secs. 21 and 28
40.00	Set temp 1/4 sec. cor.
80.06	Intersect N and S line, 5 lks. N of the cor. of secs. 21, 22, 27 and 28. Thence I run N 89° 58' W on a true line bet. secs. 21 and 28
	Over mountainous land through undergrowth of short shadscale and sage brush.

Subdivision of T 31 S R 12 W.

chains	
	Descend 100 ft along hollow to
6.00	Wash, 10 lks wide, 1 ft. deep, in hollow. Course SW.; ascend 100 ft.
15.00	Ridge, bears NE and SW.; desc. 200 ft
29.00	Hollow, course NW.; ascend 30 ft
31.00	Spur, projects N.; descend 30 ft.
39.10	Hollow, course N.
40.03	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap. 1/4 S. 21 on N half and S 28 on S half; raise a mound of stone 2 ft. base, 1 1/2 ft. high N of cor. Pits impracticable.
52.20	Wash, 20 lks. wide. 1 ft. deep, Course SW.
58.00	Leave mountainous land, bears NE and SW.; desc. over gently rolling land facing NW.
60.35	Same wash, 20 lks. wide 1 ft. deep, Course NW.
80.06	The cor. of secs. 20, 21, 28 and 29. Land, mountainous and gently rolling. Soil, gravelly, 12 ins. deep, 2nd rate. Subsoil, lime formation. Undergrowth, sage brush and shad scale. Mountainous land, East 58 chains. No timber.

	N 0°03' W bet. secs. 20 and 21. Over rolling land facing W. thru undergrowth of scattering sage brush and shad scale.
8.00	Wash 20 lks. wide. 1 ft. deep, Course NW
29.60	Wash, 15 lks wide, 1 ft deep, Course NW. Base of hills bears, NW and SE; Ascend S slope of ridge, 175 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap 1/4 S 20 on W half and S 21 on E half; raise a mound of stone, 2 ft. base, 1 1/2 ft. high

Subdivision of T 31 S R 12 W.

Chains	
	W. of cor. Pits impracticable. Asc. 25 ft. to.
43.50	Ridge bears NE and, W. about 10 chains; descend 200 ft.
62.00	Foot of ridge, bears E. and W.; Descend gradually, 10 ft.
70.00	Wash, 10 lks. wide, 1 ft deep, course SW. Ascend 30 ft
79.00	Rocky spur, projects SW.; descend 10 ft.
80.00	Set an iron post, 3 ft. long, 2 ins. dia; 24 ins. in the ground, for cor. of secs. 16, 17, 20 and 21; marked on brass cap, T 31 S S 17 in NW R 12 W S 16 in NE S 21 in SE and S 20 in SW quadrant; raise a mound of stone, 2 ft base, 1½ ft high. W. of cor. Pits impracticable. Land, gently rolling and mountainous. Soil, sandy loam and rocky, 10 ins deep, 2 and 3rd rates. Subsoil, lime formation. Undergrowth sage brush and shadscale Mountainous land N. 50.40 chains. No timber. September 12, 1910. Andrew Nelson Instrumentman, G.S.O.
	Sept. 16: at 6h 55m a.m. l.m.t. I set off 38° 06¾' on the lat. arc, 2° 53' N on the decl. arc. and determine a meridian with the solar compass at the cor. of secs. 16, 17, 20 and 21. S 89° 58' E on a random line bet. secs. 16 and 21.
40.00	Set. temp. ¼ sec. cor.
80.10	Intersect N and S line, at 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.

Subdivision of T 31 S R. 12 W.

Chains. Over rough, mountainous land. through dense short sage brush and scattering cedars;
Descend, over rocky land facing W.; 200 ft.
12.50 Hollow. course NW.; ascend, 180 ft.
13.00 Leave timber, bears N and S.
26.00 Spur, projects NW.; descend, 110 ft.
33.50 Hollow. course NW.; ascend, 60 ft.
36.50 Spur, projects NW.; descend, 65 ft.
40.05 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor; marked on brass cap, 1/4 S 16 on N half and S 21 on S half, raise a mound of stone 2 ft. base, 1 1/2 ft. high. N of cor. Pits impracticable Descend, 65 ft., over rolling mountainous land facing N W.
41.75 Hollow. course NW.; ascend, 50 ft
48.00 Spur, projects NW.; descend, 25 ft. to
60.00 Hollow, course NW.; ascend, 40 ft.
78.50 Rocky spur, projects SW.; descend 25 ft.
80.10 The cor. of secs. 16, 17, 20 and 21.
Land, rough and rolling mountainous
Soil, rocky, 6 to 12 ins. deep, 3rd rate.
Subsoil, granite formation.
Timber, scattering cedar on E 13 Chains.
Land, rough mountainous E 40.05 Chains.

N 0° 03' W bet. secs. 16 and 17.
Over, rocky, mountainous land.
Desc, thru dense undergrowth of short sage brush, 120 ft.
8.00 Foot of mountain, bears NE and S W.
Thence over rolling prairie land
10.45 Old road to sheep corral, bears N E and SW.
39.50 Road, bears N E and S W.
40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor; Marked on brass cap.

Subdivision of T 31S R 12W.

Chains.	
	1/4 S 17 on W half and S 16 on E half; dig pits 18X18X12 ins; N and S of post, 3 ft. dist; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam; 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17. Marked on brass cap. T31S S 8 in NW. R12W S 9 in NE. S 16 in SE and S 17 in SW. quadrant. dig pits 18X18X12 ins. in each sec.; 5 1/2 ft. dist; and raise a mound of earth. 4 ft. base. 2 ft. high, W. of cor. Land, mountainous and gutty rolling. Soil, rocky, gravelly and sandy loam. 2nd and 1st rates; 6 to 15 ins. deep. Sub-soil, lime formation. Undergrowth, dense short sage brush. Mountainous land 8.00 chains. No timber.
	S 89°55' E on a random line bet. secs 9 and 16.
40.00	Set temp 1/4 sec. cor.
80.12	Intersect N and S line. 5 lks. N of the cor. of secs. 9, 10, 15 and 16. Thence I run. N 89°55'6" W on a true line bet secs. 9 and 16. Over gutty rolling prairie land sloping NW. Undergrowth of dense short sage brush
40.06	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap. 1/4 S 9 on N half and S 16 on S half; dig pits 18X18X12 ins; E and W of post, 3 ft. dist; and raise a mound of earth 3 1/2 ft base 1 1/2 ft high N of cor.

Subdivision of T 31 S R 12 W.

Chains	
51.27	Old road, bears N E and S W.
80.12	The cor. of secs. 8, 9, 16 and 17.
	Land, gently rolling prairie
	Soil, sandy and gravelly loam.
	8 to 16 ins deep, 2nd rate.
	Subsoil, lime formation.
	Undergrowth dense short sage brush.
	No timber. September 16, 1910.

Sept. 17: At 6h 55m a.m. I.M.T. I set of 38° 08' on the lat arc, 2° 30' N on the decl. arc, and determine a meridian with the solar compass at the cor. of secs. 8, 9, 16 and 17.
Thence I run.
N 0° 03' W bet. secs. 8 and 9.
Over nearly level prairie land.
Dense undergrowth of short brush and shad scale.

40.00	Set an iron post, 3 ft. long 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap 1/4 S 8 on W half and S 9 on E half; dig pits 18 X 18 X 12 ins., N and S of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft base 1 1/2 ft. high, W of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked on brass cap T 31 S S 5 in N W R 12 W S 4 in N E S 9 in S E and S 8 in S W quadrant. dig pits 18 X 18 X 12 ins. in each sec.; 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base. 2 ft. high, W. of cor.
	Land, nearly level prairie.
	Soil, sandy loam, 15 ins deep, 1st rate.
	Subsoil, lime formation.
	Undergrowth, dense short sage brush and shad scale. No timber.

Subdivisions of T 31 S R 12 W.

Chains.	S 89° 56' E on a random line bet. secs. 4 and 9.
40.00	Set temp. 1/4 sec. cor.
80.08	Intersect N and S line, 2½ lks. N of the Cor. of secs. 3, 4, 9 and 10.
	Thence Drum
	N 89° 55' W on a true line bet. secs. 4 and 9.
	Over nearly level prairie land through dense undergrowth of short shadscale and sage brush.
40.04	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap 1/4 S 4 on N half and S 9 on S half; dig pits 18 X 18 X 12 ins., E and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft base, 1½ ft high N of cor.
50.00	Road, bears NE and SE.
80.08	The cor. of secs. 4, 5, 8 and 9.
	Land, nearly level prairie.
	Soil sandy loam, 14 ins deep, 1st rate
	Subsoil, white lime formation.
	Undergrowth, dense short shadscale and sage brush. No timber.
	N 0° 03' W on a true line bet. secs. 4 and 5.
	Over nearly level land.
	Dense undergrowth of short shad scale.
6.40	Road, ~~bet~~ N 80 E and S 80° W.
25.35	Road to Warm Springs, bears NE & SW.
40.00	Enter sand dunes, bear NE and SW.
	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap 1/4 S 5 on W half and S 4 on E half; dig pits 18 X 18 X 12 ins.; N and S of post, 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft high W. of cor.

Subdivision of T 31 S R 12 W.

Chains	
	Nov. 16. For reasons as explained in notes of line run between secs 1 and 2 of this Tp. I commence at this 1/4 sec. cor and extend my line N 0° 03' W.
108.40	Intersect 6th Standard Parallel South, 2.35 chs. W. of the S.C. of Secs. 32 and 33, T 30 S R 12 W as reestablished Sept. 17. 1910. Where I set an iron post, 3 ft. long. 2 ins. in dia.; 24 ins in the ground for closing cor. of secs. 3 and 4, T 31 S R 12 W.; marked on brass cap CC T 30 S R 12 W S 32 S 33 in N half, S 4 in S E and S 5 in S W quadrant; dig pits 24 X 18 X 12 ins. crosswise on each line. E and W., 3 ft. dist.; and S of post, 7 ft. dist. and raise a mound of earth. 4 ft. base 2 ft high S of cor. I destroy all traces of old closing cor.
	Land nearly level prairie
	Soil, 8.40 chs. rich sandy loam, 1st rate N, 68.40 chs., shifting sand 2nd rate.
	Subsoil, lime formation
	Undergrowth, 8.40 chs. dense short shad scale, N 68.40 chs. grease wood. No timber.
	Sept. 13: At 7h. 56m. a. m. l. m. t. I set off 38° 04 1/4' on the lat. arc, 4° 0 1/2' N on the decl. arc, and determine a meridian with the solar compass at the cor. of secs. 5, 6, 31 and 32 in the S bdy of the Tp. heretofore described.
	Thence I run
	N 0° 03' W bet. secs. 31 and 32. Over gently rolling prairie land dense under growth of short sage brush.
38.52	Wash, 10 lks wide, 2 1/2 ft dep, course S 88° W.

Subdivision of T 31 S R 12 W.

chains	
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor. marked on brass cap, 1/4 S 31 on W half and S 32 on E half., dig pits. 18X18X12 ins. N and S of post, 3 ft. dist.; and raise a mound of earth 3 1/2 ft base, 1 1/2 ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32. Marked on brass cap T31 S S 30 in NW T12 W S 29 in NE S 32 in SE and S 31 in SW. quadrant.; dig pits 18X18X12 ins. in each sec.; 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base. 2 ft. high, W. of cor. Land, gently rolling prairie. Soil, sandy loam, 15 ins deep, 2nd rate. Subsoil, lime formation. Undergrowth, dense short sage brush No timber.
	East on a random line bet. secs. 29 and 32.
40.00	Set temp 1/4 sec. cor.
80.02	Intersect N and S line, 5 lks. S of cor. of secs. 28, 29, 32 and 33. Thence, I run S 89° 58' W on a true line bet. secs. 29 and 32 Over gently rolling prairie land sloping W Dense undergrowth of short sage brush.
40.01	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor. Marked on brass cap. 1/4 S 29 on N half and S 32 on S half., raise a mound of stone, 2 ft. base, 1 1/2 ft. high N of cor. Pits impracticable.
71.90	Road, Cedar City to Warm Springs, bears NW and SE.

Subdivision of T 31 S R 12 W.

Chains.	
80.02	The cor. of secs. 29, 30, 31 and 32.
	Land, gently rolling prairie.
	Soil, rocky and sandy loam, 12 to 15 ins. deep, 2nd rate.
	Subsoil, lime formation.
	Undergrowth, dense short sage brush. No timber.
	West on a random line bet. secs. 30 and 31.
40.00	Set temp 1/4 sec. cor.
88.16	Intersect the W. bdy of the 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 gently rolling prairie land.
	Dense undergrowth of short sage brush.
21.39	Old road, bears NW and SE.
48.16	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap 1/4 S 30 on N half and S 31 on S half.; dig pits 18X18X12 ins.; E and W of post, 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N of cor.
57.69	Old road bears NW and SW.
88.16	The cor. of secs. 29, 30, 31 and 32.
	Land, gently rolling prairie.
	Soil, sandy loam and gravelly, 12 ins. deep, 2nd rate.
	Subsoil, lime formation.
	Undergrowth, dense short sage brush. No timber.
	N 0° 03' W bet. secs. 29 and 30.
	Over gently rolling prairie land.
	Dense undergrowth of short sage brush.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap 1/4 S 30 on W half and S 29 on E half.; dig pits 18X18X12 ins., N and S of post, 3 ft. dist.;

Subdivision of T 31 S R. 12 W.

Chains.	
	And raise a mound of earth, 3½ ft base, 1½ ft. high W. of cor.
48.36	Road to Warm Springs, bears NE and SW
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 19, 20, 29 and 30, marked on brass cap. T 31 S S 19 in NW. R 12 W S 20 in NE S 29 in SE and S 30 in SW quadrant; dig pits 18 X 18 X 12 ins. in each sec., 3½ ft. dist; and raise a mound of earth 4 ft base, 2 ft. high, W of cor. Land, gently rolling prairie. Soil, sandy loam, 15 ins deep, 2nd rate. Subsoil, lime formation; no timber. Undergrowth, dense short sage brush. Sept 13: At this sec. cor. I set off 3°56' N on the decl. arc. and at 11h 56m l.m.t. observe the sun on the meridian; the resulting lat. is 38°06'
	N 89°58' E on a random line bet. secs. 20 and 29.
40.00	Set temp ¼ sec. cor.
80.00	Intersect N and S line at the cor. of secs. 20, 21, 28 and 29. Thence, I run. S 89°58' W on a true line bet. secs. 20 and 29. Over gently rolling prairie land Dense undergrowth of short sage brush.
37.57	Old road to sheep corral, bears NE and SW.
40.00	Set an iron post, 3 ft. long, 1 in in dia.; 26 ins. in the ground, for ¼ sec. cor.; marked on brass cap. ¼ S 20 on N half and S 29 on S half; dig pits 18 X 18 X 12 ins.; E and W. of post, 3 ft. dist. And raise a mound of earth, 3½ ft. base 1½ ft high N. of Cor.
66.06	Road, Cedar City to Warm Spring, bears NE and SW.

Subdivision of T 31 S R. 12 W.

chains	
80.00	The cor. of secs. 19, 20, 29 and 30.
	Land, gently rolling, prairie.
	Soil, sandy loam 15 ins deep, 2nd rate.
	Subsoil, lime formation.
	Undergrowth, dense short sage brush, no timber.
	West on a random line bet. secs. 19 and 30.
40.00	Set temp. 1/4 sec. cor.
88.13	Intersect W. bdy of the Tp. 14 lks N of the cor. of secs. 19, 24, 25 and 30 heretofore described.
	Thence I run
	N 89° 54' E on a true line bet. secs. 19 and 30.
	Over gently rolling prairie land.
	Dense undergrowth of short sage brush.
0.13	Old road, bears NE and SW.
14.13	Blue rock well, bears N; 5 chs. dist.
14.49	Old road, bears N and S.
36.28	Old road, bears NW and SE
48.13	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground for 1/4 sec. cor, marked on brass cap, 1/4 S 19 on N half and 1/4 S 30 on S half; dig pits. 18 X 18 X 12 ins. E and W of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N of cor.
88.13	The cor. of secs. 19, 20, 29 and 30.
	Land, gently rolling prairie.
	Soil, sandy loam, 10 to 15 ins deep, 2nd rate.
	Subsoil, lime formation.
	Undergrowth, dense short sage brush, no timber.
	N 0° 03' W bet. secs. 19 and 20
	Over gently rolling prairie land.
	Dense undergrowth of short sage brush.
40.00	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap, 1/4 S 19 on W half and S 20 on E half; dig pits.

No Tim

Chains.	
	18 x 18 x 12 ins., N. and S. of post 3 ft. dist; and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.
80.00	Set iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20. Mkd. on brass cap. T 31 S S 18 in NW. R 12 W S 17 in NE S 20 in SE and S 19 in SW quadrant. dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, gently rolling prairie. Soil sandy loam, 10 to 18 ins. deep, 1st rate. Subsoil, Clay and lime Formations Undergrowth, dense short sagebrush. No timber
	September 13, 1910.
	September 14: Heavy rain storm prevents field work.
	This 15th day of September, 1910, I employ Troy Beaver to perform the duties of Moundsman.
	Sept. 16: At 9h 55m A.M. l.m.t. I set off 38° 06¾' on the lat. arc, 2° 49' N. on the decl. arc and determine a meridian with the solar compass at the cor. of secs. 17, 18, 19 and 20.
	Thence I run N 89° 58' E. on a random line bet. secs. 17 and 20.

Subdivision of T. 31 S., R. 12 W.

Chains	
40.00	Set temp. ¼ sec. cor.
79.88	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 16, 17, 20 and 21,
	Thence I run
	West, on a true line
	bet. secs. 17 and 20.
	Ascend, over mountainous land
	facing N W. 145 ft. to
11.60	Foot of mountain, bears N E. and S W.
	Old road to sheep corral, bears N E. and S W.
	Thence over gently rolling land through
	dense sage brush.
39.94	Set an iron post, 3 ft. long, 1 in. dia.
	26 ins. in the ground for ¼ sec. cor.
	Mkd. on brass cap:
	¼ S. 17 on N. half, and
	S 20 on S. half; dig pits
	18 X 18 X 12 ins; E. and W. of post,
	3 ft. dist; and raise a mound of earth
	3½ ft base, 1½ ft. high N of cor.
56.00	Road, Cedar City to Warm Spring,
	bears N 5° E. and S 5° W.
79.88	The cor. of secs. 17, 18, 19 and 20.
	Land, mountainous and gently rolling
	prairie.
	Soil, rocky and sandy loam, 3rd
	and 2nd rates. 6 to 12 ins. deep.
	Subsoil, lime formation; no timber.
	Undergrowth, dense sage brush.
	Mountainous land, bet 11.60 chs.

	S 89° 54' W. on a random line, bet. secs. 18 & 19,
40.00	Set temp. ¼ sec. cor.
88.06	Intersect W. bdy. of Tp., 2½ lks. N. of the cor. of secs. 13, 18, 19 and 24 heretofore described.
	Thence I run
	N 89° 53' E. on a true line, bet. secs. 18 and 19.
	Ascend, over rocky, mountainous land
	through dense undergrowth of sage brush.
	100 ft to
8.00	Ridge, bears N W. and S W.

Subdivision of T 31 S R 12 W.

Chains.	Desc., over steep land facing NE., 275 ft
17.60	Ravine, course NE.; asc. 40 ft. to
22.00	Spur, projects NE.; desc. gradually 75 ft;
28.00	Foot of Spur and Butte, bears NE and SW; thence over gently rolling prairie land sloping NE.
48.06	Set an iron post, 3 ft long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap 1/4 S 18 on N half and 1/4 S 19 on S half; dig pits 18 X 18 X 12 ins., E and W, 3 ft. dist.; and raise a mound of earth, 3½ ft. base 1½ ft. high N of cor. ✓
66.30	Road, Blue rock well to Warm Springs bears NE and SW.
88.06	The cor. of secs. 17, 18, 19 and 20. Land, mountainous and gently rolling prairie. Soil, W., 28 chs. rocky, 6 ins deep 3rd rate E. 60.06 chs. sandy loam; 10 to 15 ins deep, 2nd rate. Subsoil, lime formation; no timber. Undergrowth, dense short sage brush. Land, mountainous 28.00 chains. Sept 16; at this sec. cor. I set off 2° 46½' N on the decl. arc, and at 11h 55m. l.m.t. observe the sun on the meridian; the resulting lat. is 38° 06¾'
	N 0° 03' W bet. secs. 17 and 18. Over nearly level land, through dense undergrowth of short sage brush and scattering rabbit brush.
30.75	Road, Blue Rock well to Warm Springs 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, marked on brass cap, 1/4 S 18 on W half and

Subdivision of T30S R.12W.

Chains	
	S17 on E half; dig pits
	18X18X12 ins, N and S of post, 3 ft.
	dist; and raise a mound of earth
	3½ ft. base 1½ ft. high. W. of cor. ✓
80.00	Set an iron post, 3 ft. long. 2 ins. in
	dia; 24 ins. in the ground, for cor.
	of secs. 7, 8, 17 and 18. marked on
	brass cap.
	T31S S7 in NW.
	R12W S8 in NE
	S17 in SE and
	S18 in SW quadrant; dig pits
	18X18X12 ins. in each sec., 5½ ft.
	dist; and raise a mound of earth
	4 ft. base, 2 ft. high; W of cor ✓
	Land. nearly level prairie.
	Soil. sandy loam, 18 ins. deep, 1st rate
	Subsoil. lime formation.
	Undergrowth. dense short sage brush
	and scattering rabbit brush; no timber.
	East on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.88	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 nearly level prairie land.
	Dense undergrowth of short sagebrush.
37.75	Road Warm Springs to Blue Rock
	Well and Cedar City, bears NE and SW,
39.94	Set an iron post, 3 ft. long, 1 in.
	in dia; 26 ins. in the ground for
	¼ sec. cor., marked on brass cap
	¼ S8 on N half and
	S17 on S half; dig pits
	18X18X12 ins., E and W. of post, 3 ft.
	dist; and raise a mound of earth,
	3½ ft. base, 1½ ft. high. N. of cor. ✓
79.88	The cor. of secs. 7, 8, 17 and 18.
	Land, nearly level, prairie land.

Subdivision of T 31 S R 12 W.

Chains: Soil, sandy loam, 10 to 18 ins deep, 1st rate.
Subsoil, lime formation.
Undergrowth, dense short sage brush, no timber.

S 89° 53' W on a random line bet. secs. 7 and 18.
40.00 Set temp. 1/4 sec. cor.
88.00 Intersect W. bdy of Tp. at the cor. of secs. 7, 12, 13 and 18, heretofore described.
Thence I run.
N 89° 53' E on a true line bet. secs. 7 and 18
Over nearly level prairie land.
Dense undergrowth of short sagebrush and shad scale.
48.00 Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap
1/4 S 7 on N half and
S 18 on S half; dig pits 18 X 18 X 12 ins., E and W of post, 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N of cor.
88.00 The cor. of secs. 7, 8, 17 and 18.
Land, nearly level prairie.
Soil, sandy loam 10 to 15 in. deep; 1st rate
Subsoil, lime formation.
Undergrowth, dense short shad scale and sage brush; no timber.

Sept. 21: At 7h 53m a.m. l. m.t. I set off 38° 08' on the lat. arc, 5° N. on the decl. arc, and determine a meridian with the solar compass at the cor. of secs. 7, 8, 17 and 18
Thence I run
N 0° 03' W bet. secs. 7 and 8.
Over nearly level prairie land.
Dense undergrowth of short shad

Subdivision of T 31 S R 12 W.

Chains.	scale and sage brush
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor, marked on brass cap. 1/4 S 7 on W half and S 8 on E half; dig pits 18 X 18 X 12 ins; N and S of post, 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, W of cor.
64.00	Foot of Butte bears NE and SW.; dec. 130 ft.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia; 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked on brass cap, T 31 S S 6 in NW R 12 W S 5 in NE S 8 in SE and S 7 in SW quadrant; raise a mound of stone, 2 ft. base, 1 1/2 ft high W of cor. Pits impracticable. Land, nearly level and mountainous Soil, S 64 chs., Sandy loam 15 ins. deep, 1st rate. N 16 chs. rocky, 3rd rate. Subsoil, lime formation Undergrowth dense short shadscale and sage brush, no timber.
	East on a random line bet. secs. 5 and 8.
40.00	Set temp 1/4 sec. cor.
79.88	Intersect N and S line, 9 lks. N of 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 nearly level land. Dense undergrowth of sage and shadscale
12.00	Road, to Warm Springs bears NE and SW.
39.94	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap.

Subdivision of T 31 S R 12 W.

Chains.	
	1/4 S 5 on N half and S 8 on S half, dig pits. 18 X 18 X 12 ins. E and W of post, 3 ft. dist; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W of cor.
47.00	Foot of Butte, bears N E and S W. Asc., over rocky land facing S E; 180 ft.
54.00	Spur, projects S E.; Desc. 180 ft.
66.00	Ravine, course S E.; asc. 200 ft.
74.00	Top of Butte, bears N E and N 89° W
79.88	The cor of secs. 5, 6, 7 and 8. Land, nearly level and, Mountainous. Soil, W. 33 chs. rocky 6 to 12 ins deep, 3rd rate, W. 46.88 chs. Sandy loam, 15 in. deep. 1st rate. Subsoil, rock and lime formation. Undergrowth, dense short shad scale and sage brush. No timber. Mountainous land, 32.88 chs.
	S 89° 53' W on a random line bet. secs. 6 and 7.
40.00	Set temp 1/4 sec. cor.
87.94	Intersect W. bdy of Tp. 5 lks. N of the cor. of secs. 1, 6, 7 and 12 heretofore described. Thence I run N 89° 51' E on a true line bet secs. 6 and 7. Over gently rolling prairie land thru dense undergrowth of short shadscale and sage brush.
47.94	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap, 1/4 S 6 on N half and S 7 on S half; dig pits 18 X 18 X 12 ins., E and W of post, 3 ft. dist; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N of cor.
74.94	Foot of Butte, bears N E and S, Asc., over basalt boulders, 130 ft. to
87.94	The cor. of secs. 5, 6, 7 and 8.

Subdivision of T 31 S R. 12 W.

chains	Land gently rolling prairie and E. 13.00 chs, mountainous. Soil, Sandy loam, 12 to 18 ins deep, 1st rate., E. 13 chs. rocky. 6 ins. deep 3rd rate. Subsoil, lime and rock formation. Undergrowth, dense short sage brush and shadscale; no timber. Sept. 21: at this secs. cor. I set off 50½' N on the decl. arc. and at 11h 53m. 1 M.t. observe the sun on the meridian; the resulting lat is 38°08½'
Nov. 16	N 0°03' W on a true line bet secs 5 and 6. Over rolling, mountainous land. Dense undergrowth of short sage brush, asc. 15 ft. to
1.00	Top of Butte bears N W and S 89° E. Desc. 180 ft. to
16.00	Foot of Butte, bears, N E and S W Thence over gently rolling prairie. Enter scattering grease wood and shad scale.
40.00	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground; for ¼ sec. cor., marked on brass cap. ¼ S 6 on W half and S 5 on E half; dig pits 18X18X12 ins., N and S of post, 3 ft. dist, and raise a mound of earth, 3½ ft base, 1½ ft high W. of cor. Nov. 16, For reasons as explained in notes line run between secs. 1 and 2 of this township. I commence at this ¼ sec. cor. and extend my line N 0°03' W.
108.26	Intersect 6th standard Parallel South, 2.23 chs. W. of the S. C. of secs. 31 and 32, T 30 S R 12 W Where

Subdivision of T 31 S R 12 W.

Chains. Set an iron post 3 ft. long, 2 ins. dia.; 24 ins. in the ground for Closing Cor. of secs. 5 and 6, T31SR12W, marked on brass cap.

CC T30SR12WS31S32 on N half, S5 in SE and S6 in SW quadrant; dig pits 24X18X12 ins., crosswise on each line, E and W., 3 ft. dist. and S of post, 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high S of cor.

Land, mountainous and rolling prairie. Soil, S. 16 chs. rocky, 6 ins. dep. 3rd rate. N 92.26 chs. Sandy and clay loam, 20 ins. dep. 2nd rate.

Subsoil, rock and lime formation. Undergrowth, dense short sage brush, shad scale and scattering grease wood; no timber.

Mountainous land, 16.00 chains.

November 16, 1910.

General Description

The southeastern portion of this Tp. consists of rough mountainous land. Several high, rocky peaks, of volcanic formation, rise abruptly from ridges which traverse this portion of the Tp. Scrub cedars and scattering piñon pine, of little value, covers the mountainous portion.

The W and N portion consists of rolling prairie land, covered with a dense undergrowth of short sage brush, some ~~schad~~ shad scale and scattering grease wood.

A low range of hills traverse Sec. 3. In sec. 5, a rocky volcanic butte rises abruptly, 200 ft. above the surrounding country.

In the W. portion of sec's. 18 and 19

Blue Butte, of volcanic formation, rises abruptly 500 ft. above the valley.

In the mountainous portion, soil of granite formations, 6 to 14 ins. in depth is found. While in the rolling and nearly level prairie portions, gravelly and sandy loams of varying qualities, from 10 to 20 ins. in depth is found.

A hard pan of white lime formation underlies the soil.

Blue Rock, well, located in Sec. 19 is the only water in the tp.

In secs. 7, 8, 9, 10, 17 and 18, there is some land suitable to dry farming.

In the N E. quarter of sec. 13, a shaft 4 x 6 x 12 ft. deep is driven on a vein of coal. This coal is of hard quality. The outcropping bears N E and S W. Not sufficient to return as coal land.

There are no settlers in this Tp.

No indications of mineral were found.

Andrew Nelson

Walter A. Stimm

Instrumentman, G.L.O.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Andrew Nelson and Walter A. Stumm Instrumentman, G.L.O. ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision of Tp. 31 South, Range No. 12 West of the Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

Jack Barker, Harry F. Wood, Chainmen.
Park Stumm, Clarence C. Shelby, Chainmen.
George Schroeder, Moundman.
Troy Beaver, and George A. Faust, Moundmen.
John Ad. Millyard, Axman.
George A. Faust, Axman.
Louis F. Racine, George A. Faust and John Ad Millyard, Flagmen.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew Nelson and Walter A. Stumm Instrumentman, G.L.O. ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the Subdivision of Township No. 31 South, Range No. 12 West

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by ~~him~~ them and under ~~his~~ their 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

Jack Barker, Chainman.
Park Stumm, Harry F. Wood, Chainmen.
Clarence C. Shelby, Chainman.
George Schroeder, Moundman.
George A. Faust, Moundman.
Troy Beaver, Moundman, John Ad. Millyard, Axman.
George A. Faust, Axman.
Geo. A. Faust, Louis F. Racine, Flagmen.
John Ad. Millyard, Flagman.

Subscribed and sworn to before me this 15th day of November, 1910

Andrew Nelson
Instrumentman G.L.O.

Subscribed and sworn to before me by Louis F. Racine this 10th day of Sept. 1910.
Andrew Nelson
Instrumentman G.L.O.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 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 transitmen see book "W" T.33 S., R.16 W.

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

_____
United States Deputy Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, March 7, 1914

The foregoing field notes of the survey of the subdivisional lines of Township No. 31 South, Range No. 12 West of the Salt Lake Base and Meridian, Utah,

executed by Andrew Nelson and Walter J. Sturm under their special instructions, dated August 6, 1910, 190x, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

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

_____
United States Surveyor General.

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Ex.F.B.

H.

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BOOK A-376

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 31 SOUTH

RANGE NO. 13 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

ANDREW NELSON AND WALTER A. STUMM

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

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

Group No. 2 *, which were approved by the Commissioner of the General Land*

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

Congress dated _____ *, 191*

Survey commenced September 20 *, 1910*

Survey completed November 17 *, 1910*

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NAMES AND DUTIES OF ASSISTANTS.

Jack Barker,	Chainman.
Harry F.Wood,	Chainman.
Park Stumm,	Chainman.
Clarence C.Shelby,	Chainman.
Troy Beaver,	Moundman.
George Schroeder,	Moundman.
George A.Faust,	Flagman.
John Ad.Millyard,	Flagman.

INDEX DIAGRAM.

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

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BOOK A-376

INDEX DIAGRAM.

Township 31 South, *Range* 13 West

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Meanders Page X.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Jack Barber, Harry F. Wood and Park Stumm & Clarence C. Sh
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; th
we will report the true distances to all notable objects, and the true lengths of all lines that we assist
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey
Subdivision of T 31 S R 13 W. S.L.B & M. Wash.

Jack Barber, Chainme
Harry F. Wood, Chainme
Park Stumm, Clarence C. Shel, Chainme

Subscribed and sworn to before me this 19th day of September, 1910

SEAL

Andrew Nelson
Instrumentman, G. L. O.

WE, Troy Beaver and George Schroeder
do solemnly swear that we will well and truly perform the duties of moundmen in the establishme
of corners, according to the instructions given us, to the best of our skill and ability, in the survey
Subdivision of T 31 S R 13 W. S.L.B & M. Wash

Troy Beaver, Moundma
George Schroeder, Moundma

Subscribed and sworn to before me this 19th day of September, 1910

SEAL

Andrew Nelson
Instrumentman, G. L. O.

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

..... Axma

..... Axma

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

SEAL

WE George A. Faust & John A. Millyard, do solemnly swear that ~~I~~ we will well and tru
perform the duties of flagmen according to instructions given ~~me~~ us, to the best of ~~my~~ our skill and ability, in t
survey of Subdivision of T 31 S R 13 W. S.L.B. & M. Wa

George A. Faust, Flagma
John A. Millyard

Subscribed and sworn to before me this 19th day of September, 1910.
Subscribed and sworn to before me George A. Faust this 10th day of September 1910

SEAL

Andrew Nelson
Instrumentman G. L. O

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Subdivision of T 31 S R 13 W.

Chains. Survey commenced Sept. 20, 1910. And executed with a W. and J. E. Gurley light mountain transit, No. 9624. with solar attachment and a Young and Sons. solar Compass.

For description of instruments see Book "H" of this survey.

Knowing, by retracement, the S bdy. of sec. 36 to deviate more than 21 minutes of arc, from a West line, I commence at the cor. of secs. 25, 30, 31 and 36 in the E bdy of the Tp heretofore described.

At $8^h 54^m$ a.m. l.m.t. I set off $38°05'$ on the lat. arc, $1°17'$ N on the decl. arc, and determine a meridian with the solar compass at this sec. cor. The cor. of Tps. 31 and 32 S., Rs. 12 and 13 W is plainly visible from this cor., and I find that the meridian determined by the solar compass agrees with the meridian established by Polaris Sept 12.

Thence I run
West on a sectional correction line bet. secs. 25 and 36.
Over gently rolling land, through dense undergrowth of short shad scale and sage brush, sloping N E.

12.20 Old road, bears N W and S E.

40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor., marked on brass cap. 1/4 S 25 on N. half and S 36 on S. half; dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

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

2.

Subdivision of T31S R13W.

Chains. For cor. of secs. 25, 26, 35 and 36
Marked on brass cap,
T31S S26 in NW
R13W S25 in NE
S36 in SE and
S35 in SW quadrant; dig
pits 18x18x12 ins. in each sec.;
5½ ft. dist.; and raise a mound of
earth, 4 ft. base, 2 ft. high W of cor.
Land, gently rolling to NE.
Soil, sandy loam, 10 to 20 ins deep, 1st rate
Subsoil lime formation.
Undergrowth, shads cale and sage brush
No timber.

Sept. 21. I examine the adjustments of the solar compass and correct the level errors, then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by Polaris. I proceed as follows.

At the cor. of secs. 25, 26, 35 and 36, latitude 38°05' N, longitude 113°13'45" W, I set off 38°05' on the lat arc, 47½' N on the decl. arc. and at 4h. 23m. p.m. l.m.t., determine with the solar compass, a meridian and mark a point thereof, on a peg driven in the ground, 8 chs. N of the cor.

At 7h 32½m. p.m. by my watch, which carries correct 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, 8 chs. N of my station

Subdivision of T 31 S R. 13 W.

Chains

Sept. 22: at 7 am. 1. m. t. I lay off the azimuth of Polaris, 1°29' to the West. The meridian thus determined agrees with the meridian established Sept. 21.

at 7h. 53m. a. m. l. m. t. I set off 38°05' on the lat arc. 32'. Now the decl. arc. and determine a meridian with the solar compass. The meridian thus determined falls at the same point as the meridian established by Polaris.

The solar apparatus by P. M. and A. M. observations defines positions for meridians which agree with the meridian established by the Polaris observations, therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8 p. m. is N. 15°45' W; the angle thus determined gives the mag. decl 15°45' E.

Thence I run

West on sectional correction line bet. secs. 26 and 35.

Over gully rolling land, thru dense undergrowth of short shad scale and sage brush, sloping N E.

40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap

1/4 S 26 on N half and
S 35 on S half. dig pits 18 x 18 x 12 ins., E and W of post, 3 ft. dist.; and raise a mound of earth. 3½ ft. base 1½ ft. high, N of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins in the ground, for cor. of secs. 26, 27, 34 and 35. Marked on brass cap.

T 31 S S 27 in N W.
R 13 W S 26 in N E
S 35 in S E and
S 34 in S W quadrant; dig

Subdivisions of T 31 S R 13 W.

chains. pits, 18 X 18 X 12 ins. in each sec. 5½ ft. dist; and raise a mound a mound of earth 4 ft base, 2 ft. high W of cor.
Land, gently rolling to N E.
Soil, sandy 2 nd rate 12 ins deep.
Subsoil, lime formation.
Undergrowth, sage brush and shad scale. No timber.

Walter A. Stumm,
Instrumentman, G.L.O.

Sept. 22: At 7h 23m a.m. l.m.t. I set off 38° 05' on the lat arc, 33' N. on the decl. arc, and determine a meridian with the solar transit at the cor. of secs. 26, 27, 34 and 35 -
Thence I run
West on a sectional correction line bet secs. 27 and 34.
Over gently rolling land sloping N E.
Dense undergrowth of short sage brush.

40.00 Set an iron post, 3 ft. long, 1 in in dia; 26 ins. in the ground for ¼ sec. cor.; Marked on brass cap,
¼ S 27 on N half and
S 34 on S half; dig pits 18 X 18 X 12 ins. E and W. of post, 3 ft. dist; and raise a mound of earth. 3½ ft. base, 1½ ft. high N of cor.

80.00 Set an iron post, 3 ft long 2 ins, in dia, 24 ins in the ground for cor. of secs. 27, 28, 33 and 34.
Marked on brass cap.
T 31 S S 28 in N W.
R 13 W S 27 in N E
S 34 in S E and
S 33 in S W quadrant; dig pits 18 X 18 X 12 ins, in each sec; 5½ ft. dist; and raise a mound

Subdivision of T 31 S R 13 W.

Chains

of earth 4 ft. base, 2 ft. high, W of cor.
Land gently rolling.
Soil sandy loam and some clay, 12 to 24 ins deep, 2nd rate.
Undergrowth short sage brush and shad scale on mile. No timber.

Sept. 23: At 7h 22½m a.m. l.m.t. I set of 38°05' on the lat. arc, 9½' N on the decl arc. and determine a meridian with the solar transit at the cor. of secs 27, 28, 33 and 34.
Thence I run
West on a sectional Correction Line bet. secs. 28 and 33.
Over nearly level land, thru dense undergrowth of short sage brush.

40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins in the ground for 1/4 sec. cor.; marked on brass cap.
1/4 S 28 on N half and
S 33 on S half; dig pits.
18 X 18 X 12 ins. E and W of post, 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft high N of cor.

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
Marked on brass cap,
T 31 S S 29 in N W
R 13 W S 28 in N E
S 33 in S E and
S 32 in S W quadrant; dig pits 18 X 18 X 12 ins. in each sec., 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land nearly level.

Subdivision of T 31 S R 13 W.

Chains. Soil, sandy and clay loams, 10 to 30 ins. deep, 2nd rate.
Subsoil, lime and clay hardpan.
Undergrowth, dense short sagebrush.
No timber.

Andrew Nelson
Instrumentman. G.T.O.

Sept. 23: at 7h. 52½m. a.m. l.m.t. I set off 38°05' on the lat. arc, 8½' N on the decl arc and determine a meridian with the solar compass at the cor. of secs. 28, 29, 32 and 33.
Thence I run
West on Sectional Correction Line bet. secs. 29 and 32.
Over nearly level land, thru scattering undergrowth of greasewood,
40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for ¼ sec. cor; marked on brass cap.
¼ S 29 on N half and
S 32 on S half; dig pits 18 X 18 X 12 ins., E and W of post, 3 ft. dist; and raise a mound of earth, 3½ ft. base, 1½ ft. high N of cor.
80.00 Set an iron post, 3 ft. long, 2 ins. in dia; 24 ins. in the ground for cor of secs. 29, 30, 31 and 32.
Marked on brass cap,
T 31 S S 30 in N W,
R 13 W S 29 in N E,
S 32 in S E and
S 31 in S W quadrant; dig pits 18 X 18 X 12 ins. in each sec, 5½ ft. dist; and raise a mound of earth. 4 ft base, 2 ft high W of cor.
Land; nearly level,
Soil, clay loam 12 to 20 ins deep, 2nd rate.

Subdivision of T. 31 S., R 13 W.

Chains — Subsoil, clay hardpan.
Undergrowth - scattering grease wood
No timber
Met on Sectional Correction Line
bet secs. 30 and 31
Over gently rolling land sloping W.
dense undergrowth of short grease wood
and shadscale.
6.60 Road, bears N W. and S E.
35.07 Road, Lund to Milford, bears N E. and S W
36.30 Center of San Pedro, Los Angeles and Salt Lake,
Railroad, bears N44°45'E and S44°45'W
37.32 Telegraph line, bears N44°45'E and S44°45'W.
40.00 Set an iron post, 3 ft. long, 1 in. dia.
26 ins. in the ground for 1/4 sec. cor.
Marked on brass cap.
1/4 S 30 on N half and
S 31 on S half, 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.
75.21 Intersect W. bdy. of Tp. 2.46 chs N. of
the cor. of secs. 25, 30, 31 and 36 in the
W. bdy. of the Tp. heretofore described. where
I set an iron post 3 ft. long, 2 ins. dia.
24 ins. in the ground for Closing Cor.
of secs. 30 and 31 marked on brass cap
T 31 S in N half.
S 30 in N E.
S 31 R 13 W in S E.
S 36 R 14 W in S W and
S 25 CC in N W quadrants.
dig pits 24x18x12 ins. crosswise on each
side N and S. 3 ft dist. and E of post 7 ft
dist., and raise a mound of earth 4 ft.
base, 2 ft. high. E. of Cor.
I destroy all marks on the post set for
Cor. of secs. 25, 30, 31 and 36. T 31 S.
R 13 and 14 W and accessories pertaining to the
Township.
Land, gently rolling

Subdivision of T. 31 S., R. 13 W.

Chains	
	Soil sandy loam. 24 ins deep. 2nd rate Subsoil, gravelly. Undergrowth, short greasewood and shadscale No timber. Walter A. Stumm Instrumentman. G.S.O
	Sept. 20 - S 0°01' E on a random line bet. secs. 35 and 36.
40.00	Set temp. 1/4 sec. cor.
80.63	Intersect S. bdy. of the TP., 19 lks. E. of the reëstablished cor. of secs. 1, 2, 35 and 36. heretofore described. Thence I run N 0°07' E on a true line bet. secs. 35 and 36 Over gently rolling land, through dense undergrowth of short sage brush and shad scale. sloping NE.
40.63	Set an iron post, 3 ft. long. 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor. marked on brass cap. 1/4 S 35 on W. half and S 36 on E. half. dig pits 18 X 18 X 12 ins. N. and S. of post. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft high W. of cor.
80.63	The cor. of secs. 25, 26, 35 and 36. Land, gently rolling. Soil, sandy loam. 20 ins. deep. 1st. rate. Subsoil. lime formation. Undergrowth, dense short sage brush and shad scale No timber
	N 0°01' W. bet. secs. 25 and 26. Over gently rolling land sloping NE., Dense undergrowth of short shadscale and sage brush
40.00	Set an iron post. 3 ft. long. 1 in. in dia.; 26 ins. in the ground for 1/4

Subdivision of T 31 S R 13 W.

Chains	
	sec. cor.; marked on brass cap. 1/4 S 26 on W half and S 25 on E half., dig pits 18 X 18 X 12 ins. N and S of post, 3 ft. dist; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam.; 24 ins in the ground, for cor. of secs. 23, 24, 25 and 26. Marked on brass cap. T 31 S S 23 in NW R 13 W S 24 in NE S 25 in SE and S 26 in SW quadrant, dig pits 18 X 18 X 12 ins, in each sec, 5 1/2 ft. dist; and raise a mound of earth 4 ft. base 2 ft. high, W of cor. Land, gently rolling. Soil, Sandy loam, 20 ins. deep, 1st rate. Subsoil. lime formation. Undergrowth short sage brush and shad scale. No timber. Sept. 20. At this sec. cor. I set off. 1° 14' Now the decl. arc and at 11h. 54m. a.m. 1 mt. observe the sun on the meridian; the resulting lat. is. 38° 06'.
	East on a random line bet. secs 24 and 25.
40.00	Set temp. 1/4 sec. cor.
79.98	Intersect E. bdy. of Tp. at the cor. of secs. 19, 24, 25 and 30 heretofore described. Thence I run West on a true line bet secs. 24 and 25. Over gently rolling land sloping NE Dense undergrowth of short sage brush and shad scale.
39.99	Set an iron post, 3 ft long, 1 in. in.

Subdivision of T 31 S R. 13 W.

Chains dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap
1/4 S 24 on N half and
S 25 on S half; dig pits
18 X 18 X 12 ins., E and W of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
19.98 The cor. of secs. 23, 24, 25 and 26.
Land, gently rolling.
Soil, sandy loam, 20 ins. deep, 1st rate.
Undergrowth short sage brush and shad scale.
Subsoil, lime formation. No timber.

N 0°01' W bet. secs. 23 and 24.
Area gently rolling land sloping NE
Dense undergrowth of short sage brush and shad scale.
40.00 Set an iron post 3 ft long, 1 in in dia.; 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,
1/4 S 23 on W half and
S 24 on E half; dig pits
18 X 18 X 12 ins., N and S of post, 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
80.00 Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 13, 14, 23 and 24, marked on brass cap,
T 31 S S 14 in NW
R 13 W S 13 in NE
S 24 in SE and
S 23 in SW quadrant, dig pits.
18 X 18 X 12 ins. in each sec.; 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor
Land gently rolling.
Soil, sandy loam, 18 ins. deep, 1st rate.
Subsoil, lime formation.
Undergrowth, sage brush and shad scale
No timber.

Subdivision of T 31 S. R. 13 W.

Chains.	East on a random line bet. secs. 13 and 24.
40.00	Set temp 1/4 sec. cor.
79.90	Intersect E bdy of the Tp., 16 lks N of the Cor. of secs. 13, 18, 19 and 24 heretofore described.
	Thence I run
	N 89°53' W on a true line bet. secs 13 and 24.
	Desc. over rocky, mountainous land sloping W.; 200 ft to
11.90	Foot of Blue Butte, bears N and S E; thence over gently rolling land through dense undergrowth of short sage brush and shad scale.
39.95	Set an iron post 3 ft long, 1 in. in dia; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap.
	1/4 S 13 on N half and
	S 24 on S half; dig pits
	18 X 18 X 12 ins.; E and W. of post 3 ft. dist., and raise a mound of earth, 3 1/2 ft base, 1 1/2 ft high, N of cor.
79.90	The cor. of secs. 13, 14, 23 and 24.
	Land mountainous. E. 11.90 chs. Soil, volcanic rock, in the rate.
	West. 68. Chs. Sandy loam. 15 ins. deep "rate"
	Subsoil. lime formation.
	Undergrowth: short sage brush and shad scale on W. 68. chains.
	No timber.
	N 0°01' W bet. secs. 13 and 14.
	Over gently rolling land sloping N E. Dense undergrowth of short sage brush and shad scale.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap
	1/4 S 14 on W half and
	S 13 on E half; dig pits.

Subdivision of T 31 S R 13 W.

Chains. 18 X 18 X 12 ins; N and S of post, 3 ft. dist; and raise a mound of earth 3½ ft. base, 1½ ft high W. of cor.

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

T 31 S S 11 in N W
R 13 W S 12 in N E
S 13 in S E and
S 14 in S W quadrant; dig pits 18 X 18 X 12 ins., in each sec.; 5½ ft. dist; and raise a mound of earth, 4 ft. base, 2 ft high W. of cor.

Land, nearly level, sloping N E.
Soil, sandy loam, 12 to 20 ins deep; 1st rate.
Undergrowth, short sage brush and shad scale.
Subsoil of lime formation.
No timber.

September 20, 1910.

Sept. 21, at 2h 53m p.m. l.m.t. I set off 38° 08' on the lat. arc. 47¾' N on the decl. arc. and determine a meridian with the solar compass at the cor. of secs. 11, 12, 13 and 14.
S 89° 53' E on a random line bet secs. 12 and 13.

40.00 Set temp ¼ sec. cor.

79.90 Intersect E. bdy. of Tp., 2½ lks N of the cor. of secs. 7, 12, 13 and 18, heretofore described.

Thence I run
N 89° 52' W on a true line bet secs. 12 and 13, over gently rolling land sloping N E. Dense undergrowth of sagebrush and shad scale

19.52 Old sheep road, bears N W and S E.

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

Subdivision of T 31 S R 13 W.

Chains.	
	1/4 S 12 on N half and S 13 on S half; dig pits 18 X 18 X 12 ins., E and W of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base 1 1/2 ft. high N of cor.
79.90	The cor. of secs. 11, 12, 13 and 14.
	Land gently rolling.
	Soil; sandy and gravelly, 10 to 20 ins. deep. 2nd rate.
	Subsoil, lime formation.
	Undergrowth: short sage brush and shad scale.
	No timber
	N 0°01' W bet secs. 11 and 12.
	Over gently rolling land sloping N E.
	Dense undergrowth of short sage brush and shad scale.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap, 1/4 S 11 on W half and S 12 on E half; dig pits 18 X 18 X 12 ins., N and S of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W of cor.
50.50	Old sheep road, bears N W and S E.
66.15	Road Lund to Milford, bears N E and S W.
72.75	Old road, bears N W and S E.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 1, 2, 11 and 12, marked on brass cap, T 31 S S 2 in N W, R 12 W S 1 in N E, S 12 in S E and S 11 in S W quadrant; dig pits 18 X 18 X 12 ins. in each sec.; 5 1/2 ft. dist; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling
	Soil, sandy loam, 20 ins. deep, 1st rate.

Subdivision of T 31 S R 13 W.

Chains: Subsoil. lime formation.
Undergrowth, sage brush and shad scale.
No timber.

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

40.00 Set temp. 1/4 sec. cor.

79.86 Intersect E bdy of the Tp., 5 lks. N of the cor. of secs. 1, 6, 7 and 12 heretofore described.

Thence I run,

N 89° 50' W on a true line bet secs. 1 and 12.

Over gently rolling land, sloping N E. Dense undergrowth of short sage brush, shad scale and some scattering grease wood.

39.93 Set an iron 3 ft long, 1 in in dia.; 26 ins. in the ground for 1/4 sec. cor. marked on brass cap,

1/4 S 1 on N half and
S 12 on S half; dig pits.

18 X 18 X 12 ins. E and W of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high N of cor.

62.30 Road, Land to Milford, bears N E and S W.

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

Land, gently rolling.

Soil. sandy loam, 10 to 12 ins deep, 1st rate.

Subsoil. lime formation.

Undergrowth, short sage brush and shad scale, No timber.

Sept. 21, 1910.

Walter A. Sturm
Instrumentman, G. L. O.

Sept. 24: At 7 h 22 m a. m. l. m. t. I set Pf 38° 08 1/2' on the lat. arc, 14' 5 on the dec. arc and determine

Subdivision of T 31 S R 13 W.

Chains.	
	a meridian with the solar transit 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 gently rolling land sloping N E.;
	Dense undergrowth of short sage and shad scale.
38.90	Road, Lund to Nada. bears N E and S W.
39.95	Center of San Pedro, Los angelos and Salt Lake Railroad, bears N 44° 44' E and S 44° 44' W.
40.00	Point for 1/4 sec. cor. follows on railroad track.
40.41	Set an iron post 3 ft. long, 1 in. in dia.; 26 ins. in the ground for Witness 1/4 sec. cor. marked on brass cap.
	WC 1/4 T 31 S R 13 W S 1 S 2 dig pits 18 x 18 x 12 ins. N and S of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft base, 1 1/2 ft. high W of cor.
40.90	Telegraph line, bears N 44° 44' E + S 44° 44' W.
	Nov. 17th 1910. For reasons as explained in notes of line run bet. secs 1 and 2, T 31 S R 12 W in Book "G" of this survey, I commence at this 1/4 sec. cor. and run this line N 0° 01' W.
108.35	Intersect Sixth Standard Parallel South, 9.90 chains W of the standard cor. of secs. 35 and 36, heretofore described where I set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for closing cor. of secs. 1 and 2. Marked on brass cap.
	CC T 30 S R 13 W S 35 S 36 in N half.
	S 1 in S E and
	S 2 in S W quadrant, dig pits 24 x 18 x 12 ins., crosswise on each line, E and W of post, 3 ft. dist., and S of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base 2 ft. high S of cor

Subdivision of T 31 S R. 13 W.

Chains. I destroy all tracts of closing corner erroneously set Sept. 29, 1910.
Land, gently rolling.
Soil, sandy and sandy loam.
12 to 24 ins, deep 2nd rate.
Subsoil, lime and clay hardpan.
Undergrowth, short sage brush and shad scale. No timber.

Andrew Nelson
Instrumentman, G. T. O.

Sept. 22.
S 0°01' E on a random line bet secs 34 and 35.
40.00 Set temp. 1/4 sec. cor.
81.02 Intersect S bdy of the Tp., 45 lks. E of the cor. of secs 2, 3, 34 an 35 ~~on S. bdy of Tp.~~ heretofore described.
Thence I run
N 0°18' E on a true line bet. secs. 34 and 35.
Over gently rolling land, sloping N E.
Dense undergrowth of short sage brush and shad scale.
41.02 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap,
1/4 S 34 on W half and
S 35 on E half.; dig pits
18 x 18 x 12 ins. N and S of post, 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.
81.02 The cor. of secs. 26, 27, 34 and 35.
Land, gently rolling.
Soil, sandy loam, 18 ins deep 1st rate.
Subsoil, lime formation.
Undergrowth, short sage brush and shad scale. No timber.

N 0°01' W bet secs. 26 and 27.
Over gently rolling land, sloping N E

Subdivision of T 31 S R 13 W.

Chains.	
	Dense undergrowth of short sage brush and shad scale.
40.00	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground for 1/4 sec Cor.; marked on brass cap 1/4 S 27 on W half and S 26 on E half; dig pits 18 X 18 X 12 ins., N and S of post. 3 ft dia; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W of cor.
80.00	Set an iron post 3 ft. long. 2 ins. in dia; 24 ins. in the ground for. Cor. of seco. 22. 23. 26 and 27. Marked on brass cap. T31S S 22 in NW R13W S 23 in NE S 26 in SE and S 27 in SW quadrant; dig pits 18 X 18 X 12 ins. in each sec.; 5 1/2 ft. dia: and raise a mound of earth 4 ft base. 2 ft - high W. of cor. Land, gently rolling, to NE. Soil. Sandy loam 20 ins. deep; moderate Subsoil. Lime formation Undergrowth, short. sage brush and shad scale. No timber.
	East on a random line bet. secs. 23 and 26.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect N and S line. 5 lks. S of the Cor. of seco. 23. 24. 25 - and 26. Thence I run S 89° 5' 8" W on a true line bet. secs. 23 and 26. Over gently rolling land sloping NE. Dense undergrowth of short sage brush and shad scale
40.00	Set an iron post. 3 ft - long. 1 in. in dia; 26 ins. in the ground for 1/4 sec. cor, marked on brass cap

Subdivision of T 31 S R 13 W.

Chain. 1/4 S 23 on N half and
S 26 on S half; dig pits
18 x 18 x 12 ins. E and W of post.
3 ft. deep; and raise a mound of
earth 3 1/2 ft. base, 1 1/2 ft. high, N
of Cor.
80.00 The Cor. of secs. 22, 23, 26 and 27.
Land gently rolling.
Soil, sandy loam, 15 ins. deep;
1st rate.
Subsoil, lime formation.
Undergrowth, short sage brush and
shad scale. No timber.

N 0°01' W bet. secs. 22 and 23.
Over gently rolling land sloping N E,
and shifting sand dunes.
Dense undergrowth of short sage brush,
shad scale and scattering rabbit brush.
40.00 Set an iron post, 3 ft. long, 1 in. in
dia., 26 ins. in the ground, for 1/4 sec.
Cor.; marked on brass cap,
1/4 S 22 on W half and
S 23 on E half; dig pits
18 x 18 x 12 ins. N and S of post, 3 ft.
deep; and raise a mound of earth, 3 1/2
ft. base 1 1/2 ft. high W. of Cor.
60.00 Leave sand dunes, bear E and W.
Thence over gently rolling land.
80.00 Set an iron post, 3 ft. long, 2 ins.
in dia., 24 ins. in the ground, for
the Cor. of secs. 14, 15, 22 and 23.
Marked on brass cap,
T 31 S S 15 in N W,
R 13 W S 14 in N E,
S 23 in S E and
S 22 in S W quadrant; dig
pits 18 x 18 x 12 ins.; in each sec. 3 1/2
ft. deep; and raise a mound of
earth, 4 ft. base, 2 ft. high W. of Cor.
Land, gently rolling

Subdivision of T 31 S R 13 W

Chain — Soil. sandy loam 18 to 36 ins deep. 2nd rate — on N 20 chs
Land, shifting. 3rd rate
Subsoil. Lime formation
Undergrowth. Short sage brush, shad scale and some rabbit brush.
No timber
Sept 22 At this sec. cor. I set off 27' N on the decl. arc. and at 11h 33m a.m. l.m.t. observed the sun on the meridian; the resulting lat. is 31°07'

N 89°58' E on a random line bet. secs 14 and 23.
40.00 Set temp 1/4 sec. cor.
80.04 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 a true line bet. secs 14 and 23.
Over gently rolling land, sloping N E.
Dense undergrowth of short sage brush and shad scale.
40.02 Set an iron post. 3 ft long. 1 in. in dia.; 36 ins. in the ground for 1/4 sec. cor.; marked on brass cap.
1/4 S 14 on N half and
S 23 on S half; dig pits
18 x 18 x 18 ins. E and W of post. 3 ft dist; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N of cor.
80.04 The cor. of secs. 14, 15, 22 and 23.
Land gently rolling
Soil. Sandy loam. 20 ins deep, 1st rate.
Subsoil. Lime formation.
Undergrowth, sage brush and shad scale.
No timber

N 0°01' W bet. secs 14 and 15.
Over gently rolling land, sloping N E.
Dense undergrowth of short sage brush and shad scale.
40.00 Set an iron post. 3 ft long. 1 in. in dia.; 36 ins. in the ground for 1/4

Subdivision of T 31 S R 13 W.

Chains. sec. cor.; marked on brass cap.
1/4 S 15 on W half and
S 14 on E half.; dig pits
18 X 18 X 12 ins. N and S of post, 3 ft.
dist.; and raise a mound of earth
3 1/2 ft. base, 1 1/2 ft. high W. of cor.
80.00 Set an iron post, 3 ft. long, 2 ins.
in dia.; 24 ins. in the ground
for cor. of secs. 10, 11, 14 and 15-
Marked on brass cap.
T 31 S S 10 in N W,
R 13 W S 11 in N E,
S 14 in S E and
S 15 in S W quadrant. dig
pits 18 X 18 X 12 ins., in each sec,
5 1/2 ft. dist.; and raise a mound
of earth 4 ft. base, 2 ft. high W. of
cor.
Land, gently rolling.
Soil. Sandy loam, 14 ins. deep, 1st rate
Subsoil. lime formation.
Undergrowth. dense short sage brush
and shad scale. No timber.

N 89° 56' E on a random line bet.
secs. 11 and 14.
40.00 Set temp. 1/4 sec. cor.
80.06 Intersect N and S line at the cor. of
secs. 11, 12, 13 and 14.
Thence I run
S 89° 56' W on a true line bet. secs.
11 and 14.
Over gently rolling land, sloping N E,
Lime undergrowth of short sage brush,
and shad scale.
40.03 Set an iron post, 3 ft long, 1 in. in
dia; 26 ins. in the ground for 1/4
sec. cor.; marked on brass cap.
1/4 S 11 on N half and
S 14 on S half.; dig pits
18 X 18 X 12 ins, E and W of post.

Subdivision of T 31 S R 13 W

Chains.	3 ft. deep; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
80.06	The cor. of secs. 10, 11, 14 and 15. Land, gently rolling. Soil, sandy loam, 14 ins. deep, 1st rate. Subsoil, lime formation. Undergrowth, dense shoot sage brush and shad scale. No timber. September 22, 1910. Walter A. Stumm. Instrumentman, G. L. O.
	Sept. 24, at 8h. 52m. a. m. l. m. t. I set off 38° 08' S on the lat. arc, 16' S on the decl. arc, and determine a meridian with the solar transit at the cor. of secs. 10, 11, 14 and 15. Thence I run N 0° 01' W bet. secs. 10 and 11.
8.30	Road, Lund to Milford, bears NE and SW.
38.00	Road, Lund to Nada, bears NE and SW.
39.26	Center of San Pedro, Los Angeles and Salt Lake R. R. track, bears N 44° 45' E and S 44° 45' W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap. ¼ S 10 on W half and S 11 on E half; dig pits 18 X 18 X 12 ins., N. and S. of post, 3 ft. deep; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
40.25	Telegraph line, bears N 44° 45' E and S 44° 45' W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked on brass cap;

Subdivision of T 31 S R 13 W.

Chains	
	T 31 S S 3 in N W,
	R 13 W. S 2 in N E.
	S 11 in S E and
	S 10 in S W quadrant; dig pits
	18 X 18 X 12 ins., in each sec., 5½
	ft. dist.; and raise a mound
	of earth, 4 ft. base, 2 ft.
	high W. of cor.
	Land, level,
	Soil, sandy and clay loams, 2nd rate,
	Subsoil, clay hard pan,
	Undergrowth, short sage brush,
	No timber
	N 89° 56' E on a random line
	bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N and S line, 5 lks S
	of the cor. of secs. 1, 2, 11 and 12.
	Thence I run
	S 89° 54' W on a true line bet. secs.
	2 and 11.
	Over nearly level land, through undergrowth
	of sage brush, grease wood and shad scale
39.43	Road, Lund to Nada, bears N E and S W.
39.66	Center of San Pedro, Los Angeles, and
	Salt Lake R. R. track, bears N 44° 45' E
	and S 44° 45' W.
40.02	Set an iron post, 3 ft. long, 1 in. in
	dia.; 26 ins. in the ground for
	¼ sec. cor.; marked on brass cap;
	¼ S 2 on N half and
	S 11 on S half; dig pits
	18 X 18 X 12 ins., E. and W. of post,
	3 ft. dist.; and raise a mound of
	earth, 3½ ft. base, 1½ ft. high,
	N of cor.
40.64	Telegraph line bears N 44° 45' E and
	S 44° 45' W.
80.04	The cor. of secs. 2, 3, 10 and 11.
	Land, nearly level,
	Soil, Sandy and clay loams, 2nd rate
	Subsoil, lime and clay, hard pans.

Subdivision of T 31 S R 13 W.

Chains.	Undergrowth, sage brush, shadscale and grease wood. No timber.
	N 0° 01' W on a true line bet secs. 2 and 3.
	Over level land, thru undergrowth of rabbit brush and grease wood.
40.00	Set an iron post, 3 ft long, 1 in. in dia; 26 ins. in the ground for 1/4 sec. cor; marked on brass cap 1/4 S 3 on W half and S 2 on E half; dig pits 18 X 18 X 12 ins, N and S of post 3 ft dist; and raise a mound of earth, 3 1/2 ft base 1 1/2 ft high W of cor.
	Nov. 17. For reasons, as explained in notes of line run bet. secs. 1 and 2, T 31 S R 13 W, in Book "G" of this survey. I commence at this 1/4 sec. cor and return this line N 0° 01' W.
108.47	Intersect Sixth Standard Parallel South. 9.79 chains W of the Standard Cor. of secs. 34 and 35; heretofore described, where I set an iron post, 3 ft. long, 2 ins. dia, 24 ins. in the ground for closing cor. of secs. 2 and 3, marked on brass cap, CC T 30 S R 13 W S 34 S 35 on N half S 2 in S E and S 3 in SW quadrant; dig pits 24 X 18 X 12 crosswise on each line, E and W, 3 ft. dist; and S of post, 7 ft. dist; and raise a mound of earth 4 ft. base, 2 ft. high S of cor.
	Land, level,
	Soil, sandy and clay loams, 2nd rate
	Subsoil, Clay hard pan.

Subdivision of T 31 S R 13 W.

Chain. Undergrowth, rabbit brush and greasewood on mile; no timber. I destroy all traces of the closing cor. erroneously established Sept. 24, 1918.

Sept. 22:

Proceeding, from the length of the S bdy of sec. 33, and the course of the line run bet secs. 34 and 35, that I will have to set closing cors. on the S bdy. I run S 0° 02' E on a true line bet secs. 33 and 34. Over gently rolling land sloping N. through dense undergrowth of sage brush, greasewood and rabbit brush

40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap.

1/4 S 33 on W half and
S 34 on E half; dig pit, 18 X 18 X 12 ins.; N and S of post, 3 ft. distant; and raise a mound of earth 3 1/2 ft base, 1 1/2 ft high W. of cor.

81.47 Intersect S. bdy of the Tp., 77 lks N 89° 43' E of the cor. of secs. 3, 4, 33 and 34, heretofore described.

I destroy all marks on this post and accessories pertaining to secs 33 and 34

At point of intersection I set an iron post, 3 ft. long, 2 ins. dia.; 24 ins in the ground for closing cor of secs. 33 and 34, marked on brass cap.

S 33 in NW and
S 34 in NE quadrant.

COT 32 S R 13 W S 3 S 4 on S half; dig pits 24 X 18 X 12 ins. crossing on each line. E and W of post, 3 ft. dist; and N of post 7 ft. dist; and raise a mound of earth 4 ft. base 2 ft. high N of cor.

Land, gently rolling

Subdivision of T 31 S, R 13 W.

Chains. Soil, sandy and clay loams, 2nd rate, 12 to 20 ins. deep.
Subsoil lime formation.
Undergrowth, sage brush, greasewood and rabbit brush on mile. No timber.

N 0° 02' W bet. secs. 27 and 28.
Over gently rolling land, thru undergrowth of sage and rabbit brush.
40.00 Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground for 1/4 sec. cor; marked on brass cap
1/4 S 28 on W half and
S 27 on E half; dig pits 18 x 18 x 12 ins. N and S of post, 3 ft. dist; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft high. W. of cor.
80.00 Set an iron post, 3 ft long, 2 ins. in dia; 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked on brass cap
T 31 S S 21 in NW
R 13 W, S 22 in NE.
S 27 in SE and
S 28 in SW quadrant; dig pits 18 x 18 x 12 ins. in each sec, 5 1/2 ft. dist; and raise a mound of earth. 4 ft. base, 2 ft high W. of cor.
From this sec. cor. a well, 40 ft. deep, and brought bear. N 15° 40' E.
Land, gently rolling.
Soil, sandy and clay loams 24 ins deep, 2nd rate.
Subsoil, clay hardpan.
Undergrowth, sage and rabbit brush.
No timber.

East on a random line bet. secs. 22 and 27.
40.00 Set temp. 1/4 sec. cor.
80.00 Intersect N and S line, 5 lks. S of the cor of secs. 22, 23, 26 and 27.

Subdivision of T 31 S R 13 W.

Chains. Thence I run
S 89° 58' W on a true line bet. secs.
22 and 27.
Over nearly level land, through
dense shad scale, sage brush
and grease wood.
40.00 Set an iron post, 3 ft long, 1 in. in
dia; 26 ins. in the ground for 1/4
sec. cor.; marked on brass cap
1/4 S 22 on N half and
S 27 on S. half; dig pits
18 X 18 X 12 ins. E and W. of post, 3 ft.
diat; and raise a mound of earth
3 1/2 ft. base, 1 1/2 ft. high. N. of cor.
80.00 The cor. of secs. 21, 22, 27 and 28
Land, nearly level,
Soil sandy and clay loam, 2nd rate.
Subsoil clay hardpan.
Undergrowth, shad scale, sage brush
and greasewood on mile. No timber
Sept. 22: at this sec. cor I set Sol 27' N on
the decl. arc and at 11h 53m a.m.
l.m.t. observe the sun on the meridian,
the resulting lat. is. 38° 06'.

N 0° 02' W bet secs. 21 and 22.
Over level land. through dense
undergrowth of shad scale and
grease wood. and sage brush.
40.00 Set an iron post, 3 ft. long, 1 in.
in dia; 26 ins. in the ground for
1/4 sec. cor.; marked on brass cap
1/4 S 21 on W half and
S 22 on E half; dig pits
18 X 18 X 12 ins., N and S of post, 3 ft.
diat; and raise a mound of earth
3 1/2 ft. base, 1 1/2 ft. high. W. of cor.
From this 1/4 sec. cor. a well
bears S 21° E.
80.00 Set an iron post, 3 ft. long, 2 ins.
in dia; 24 ins. in the ground for

Subdivision of T 31 S R 13 W.

chains. Cor. of secs. 15, 16, 21 and 22.
Marked on brass cap
T 31 S S 16 in N W
R 13 W S 15 in N E
S 22 in S E and
S 21 in S W quadrant; dig pit
18 X 18 X 12 ins. in each sec.; 5½
ft. dist.; and raise a mound of
earth 4 ft. base, 2 ft. high W.
of cor.
Land level,
Soil sandy and clay loams. 2 undrate.
Subsoil. Clay hardpan,
Undergrowth sage brush, shad
scale and greasewood. No timber.

N 89° 58' E on a random line
bet. secs. 15 and 22.
40.00 Set temp. ¼ sec. cor.
79.97 Intersect N and S line, 2½ chs.
S of the cor. of secs. 14, 15, 22 and 23
Thence I run
S 89° 57' W on a true line bet. secs.
15 and 22.
Over level land through dense
undergrowth of greasewood, shad
scale, sage and rabbit brush,
39.98½ Set an iron post. 3 ft. long, 1 in.
in dia.; 26 ins. in the ground for
¼ sec. cor.; marked on brass cap
¼ S 15 on N half and
S 22 on S half; dig pits
18 X 18 X 12 ins. E and W of post; 3 ft.
dist.; and raise a mound of earth
3½ ft. base, 1½ ft. high N of cor.
79.97 The cor. of secs. 15, 16, 21 and 22.
Land level.
Soil sandy and clay loams. 2 undrate.
Subsoil. Clay hardpan.
Undergrowth. sagebrush. shadscale,
greasewood and rabbit brush. No timber.

Subdivision of T 31 S R 13 W.

Chains. N 0°02' W bet secs. 15 and 16.
Gru level land, through dense
undergrowth of shad scale, greasewood and sage brush.
29.40 Road, Lund to Milford, bears NE and SW.
38.50 Center of San Pedro, Los Angeles and Salt Lake Railroad, bears N 44°45' E and S 44°45' W.
40.00 Telegraph line bears N 44°45' E and S 44°45' W.
Set an iron post, 3 ft long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap
1/4 S 16 on W half and
S 15 on E half; dig pits
18 X 18 X 12 ins, N and S of post, 3 ft. dia.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W of cor.
80.00 Set an iron post, 3 ft long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 9, 10, 15 and 16. marked on brass cap
T 31 S S 9 in N W
R 13 W S 10 in N E
S 15 in S E and
S 16 in S W quadrant; dig pits
18 X 18 X 12 ins. in each sec., 3 1/2 ft. dia.; and raise a mound of earth, 4 ft. base, 2 ft high, W of cor.
Land, level,
Soil, sandy and clay loams, 2nd rate.
Subsoil, clay hardpan.
Undergrowth, shadscale, greasewood and sage brush. No timber.

N 89°57' E on a random line bet. secs. 10 and 15.
40.00 Set temp. 1/4 sec. cor.
80.00 Intersect N and S line at the cor. of secs. 10, 11, 14 and 15.
Thence I run

Subdivision of T 31 S R 13 W.

chains.	
	S 89° 57' W on a true line bet secs. 10 and 15.
	Over nearly level land thru dense undergrowth of grease wood and rabbit brush.
11.43	Road, Lund to Milford bears NE and SW.
38.23	Road, Lund to Nada, bears NE and SW
38.90	Center of San Pedro, Los Angeles, and Salt Lake Railroad, bears N 44° 45' E and S 44° 45' W
38.97	Telegraph line, bears N 44° 45' E and S 44° 45' W
40.00	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap, 1/4 S10 on N half and S15 on S half; dig pits 18 x 18 x 12 ins, E and W of post, 3 ft. deep, and raise a mound of earth, 3½ ft. base, 1½ ft. high N of cor.
80.00	The cor. of secs. 9, 10, 15 and 16.
	Land, nearly level.
	Soil, sandy and clay loams, 2nd rate.
	Subsoil, Clay hardpan.
	Undergrowth, grease wood and rabbit brush. No timber.
	September 22, 1910.

Sept. 24: At this sec. cor. I set off 19½' S on the decl. arc, and at 11 h. 52 m. a.m. l.m.t. observe the sun on the meridian; the resulting latitude is 38° 07½

At 1 h. 52 m. p.m. l.m.t. I set off 38° 07½' on the lat. arc, 2½' S on the decl. arc and determine a meridian with the solar transit.

Thence I run

N 0° 02' W bet secs. 9 and 10.

Over nearly level land, through dense undergrowth of grasswood and shadscale,

40.00	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground for 1/4

Subdivision of T 31 S R 13 W.

Chains. sec. cor, marked on brass cap
1/4 S 9 on W half and
S 10 on E half, dig pits
18X18X12 ins., N and S of post, 3 ft.
dist.; and raise a mound of earth
3½ ft. base, 1½ ft. high W. of cor.
80.00 Set an iron post, 3 ft. long, 2 ins.
in dia.; 24 ins. in the ground
for cor. of secs. 3, 4, 9 and 10.
Marked on brass cap
T 31 S S 4 in N W
R 13 W S 3 in N E
S 10 in S E and
S 9 in S W quadrant; dig pits
18X18X12 ins., in each sec. 5½ ft.
dist.; and raise a mound of earth,
4 ft. base, 2 ft. high W. of cor.
Land, nearly level,
Soil, sandy and clay loams, 2nd rate.
Subsoil, Clay hard pan,
Undergrowth, grease wood and
shad scale. No timber.

N 89°57' E on a random line
bet secs. 3 and 10.
40.00 Set temp. 1/4 sec. cor.
80.04 Intersect. N and S line, 7 lks N
of the cor. of secs. 2, 3, 10 and 11.
Thence I run
W on a true line bet. secs. 3 and 10.
Over level land, through dense undergrowth of shad scale and grease wood
40.02 Set an iron post, 3 ft. long, 1 in. in
dia.; 26 ins. in the ground for 1/4 sec.
cor.; marked on brass cap
1/4 S 3 on N half and
S 10 on S half; dig pits
18X18X12 ins., E and W of post, 3 ft.
dist.; and raise a mound of earth
3½ ft. base, 1½ ft. high, N of cor.
80.04 The cor. of secs. 3, 4, 9 and 10.

Subdivision of T 31 S R 13 W.

Chains.	
	Land, level. Soil, sand and clay loam, 2 nd rate. Subsoil, clay hard pan. Undergrowth, shad scale and greasewood. No timber.
	No° 0 2' W on a true line bet. secs. 3 and 4. Over, level land, thru dense undergrowth of shad scale and grease wood
40.00	Set an iron post 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S 4 on W half and S 3 on E half.; dig pits 18 X 18 X 12 ins. N and S of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
	Nov. 17. 1910: For reasons, as explained in notes of line run bet secs. 1 and 2 T 31 S R. 12 W., in Book "G" of this survey, I commence at this 1/4 sec. cor. and run this line No° 0 2' W.
108.47	Intersect Sixth Standard Parallel South, 9.86 chains West of the Standard cor. of secs. 33 and 34, heretofore described when I set an iron post, 3 ft. long, 2 ins. diam., 24 ins, in the ground for closing cor. of secs. 3 and 4 marked on brass cap C.C. T 30 S R 13 W S 33 S 34 in N half, S 3 in S E and S 4 in SW quadrant, dig pits 24 X 18 X 12 ins., crosswise on back line, E and W of post, 3 ft. dist.; and S of post, 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high S of cor. I destroy all trace of the closing cor. erroneously established Sept. 24, 1910.

Subdivision of T 31 S R 13 W.

Chains Land level.
Soil, clay and sandy loams, 2nd rate
Subsoil. clay hardpan.
Undergrowth, shad scale and grease wood NW timber.

Sept. 23: Knowing I have to establish a closing cor. on the S bdy I run S 0° 03' E on a true line bet. secs 32 and 33.
Over level land, thru dense under-growth of shad scale and grease wood.
40.00 Set an iron post, 3 ft long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap
1/4 S 32 on W half and
S 33 on E half; dig pits 18 X 18 X 12 ins., N and S of post, 3 ft dist; and raise a mound of earth. 3 1/2 ft base, 1 1/2 ft high. W. of cor.
81.87 Intersect S bdy of the Tp, 80 lks N 89° 42' E of the cor. of secs. 4, 5, 32 and 33, hereto fore described.
Note: I destroy all marks on this cor, and accessories pretaining to secs. 32 and 33.
At point of intersection I set an iron post. 3 ft. long. 2 ins. dia, 24 ins. in the ground for closing cor. of secs. 32 and 33. marked on brass cap:
S 32 in NW and
S 33 in NE quadrant.
C C T 32 S R 13 W. S 4 S 5 in S half; dig pits 24 X 18 X 12 ins. crosswise on each line, E and W of post. 3 ft. dist and N of post. 7 ft. dist; and raise a mound of earth. 4 ft. base, 2 ft. high N of cor.
Land, level.
Soil, sandy and clay loams, 2nd rate.
Subsoil, clay hardpan.
Undergrowth, shad scale and grease wood.
NW timber.

Subdivision of T 31 S R 13 W.

Chains	N 0° 03' W bet secs. 28 and 29.
	Over level land, through dense under growth of shadscale and greasewood
40.00	Set an iron post, 3 ft. long, 1 in in dia; 26 ins. in the ground for 1/4 sec. cor; marked on brass cap
	1/4 S 29 on W half and
	S 28 on E half; dig pits
	18 X 18 X 12 ins., N and S of post, 3 ft. dist, and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft high. W. of cor.
80.00	Set an iron post, 3 ft long, 2 ins. in dia; 24 ins. in the ground for cor. of secs. 20, 21, 28 and 29,
	Marked on brass cap
	T 31 S S 20 in NW
	R 13 W S 21 in NE
	S 28 in SE and
	S 29 in SW quadrant; dig pits
	18 X 18 X 12 ins., in each sec, 5 1/2 ft. dist; and raise a mound of earth, 4 ft base, 2 ft. high, W of cor.
	Land, level
	Soil, sandy and clay loams. Indrate
	Subsoil, clay hard pan.
	Undergrowth, shad scale and greasewood. No timber.
	East on a random line bet. secs. 21 and 28.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N and S line at the cor. of secs. 21, 22, 27 and 28.
	Thence I run
	West on a true line bet. secs. 21 and 28
	Over level land, thru dense undergrowth of shad scale and grease wood.
40.00	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground for 1/4 sec. cor; marked on brass cap

Subdivision of T31S R13W.

Chains	
	1/4 S 21 on N half and S 28 on S half, dig pits 18X18X12 ins. E and W. of post, 3 ft. dist; and raise a mound of earth, 3½ ft base, 1½ ft high, N. of cor.
80.00	The Cor. of secs. 20, 21, 28 and 29. Land level. Soil, sandy and clay loams, 2nd rate. Subsoil, clay hardpan. Undergrowth grease wood and shad scale. No timber.
	N0°03' W bet. secs. 20 and 21 Over level land, through undergrowth of shad scale, rabbit brush and grease wood.
36.12	Road, Lund to Milford, bears NE and SW
37.52	Center of San Pedro, Los Angelos, and Salt Lake Railroad, bears N44°43'E and S44°43'W.
38.50	Telegraph line, bears N44°43'E and S44°43'W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap. 1/4 S 20 on W half and S 21 on E half; dig pits 18X18X12 ins., N and S of post, 3 ft. dist; and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
51.60	Old road, bears NE and SW.
52.20	Wash, 15 lks. wide 1 ft. deep, course NE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia; 24 ins. in the ground for cor. of secs. 16, 17, 20 and 21. Marked on brass cap, T31S S17 in NW R13W S16 in NE S21 in SE and S20 in SW quadrant; dig pits 18X18X12 ins, in each sec,

Subdivision of T 31 S R 13 W.

Chains.	5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level.
	Soil, clay loam, 2nd rate.
	Subsoil, clay hardpan.
	Undergrowth, shad scale, greasewood and rabbit brush. No timber
	Sept. 23; at this sec. cor. I set off 3¾' N on the decl. arc, and at 11h. 53m. a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 38°.07'.
	East on a random line bet secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
80.01	Intersect N and S line 2½ lks. N. of the cor. of secs. 15, 16, 21 and 22. Thence I run N 84°59' W on true line bet secs. 16 & 21
	Over level land, through dense undergrowth of shad scale and grease wood.
36.00	Road, Lund to Milford, bears NE and SW.
37.64	Latimer siding, bears, N 44°43' E and S 44°43' W.
38.02	Center of San Pedro, Los Angeles and Salt Lake Railroad, bears N 44°43' E, and S 44°43' W. From this point, N 44°43' E, 4.22 ch. dist.; is a wagon road crossing and 6.19 chains dist.; is the Latimer Switch Post.
39.02	Telegraph line, bears N 44°43' E and S 44°43' W.
40.00½	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for ¼ sec cor.; marked on brass cap. ¼ S16 on N half and S 21 on S half; dig pits 18 X 18 X 12 ins; E and W. of post, 3 ft. dist.; and raise a mound of earth

Subdivision of T 31 S R 13 W.

Chains. 3½ ft. base, 1½ ft. high. N of cor.
43.00 Road, bears N E and S W.
80.01 The cor. of secs. 16, 17, 20 and 21.
Land, level,
Soil, clay loam, 2nd rate.
Subsoil, clay hard pan.
Undergrowth, dense shad scale
and grease wood. No timber.

N 0° 03' W bet secs. 16 and 17.
Over level land, through dense
undergrowth of grease wood and shad
scale.
40.00 Set an iron post, 3 ft. long, 1 in. in
dia.; 26 ins. in the ground for ¼
sec. cor.; marked on brass cap,
¼ S 17 on W half and
S 16 on E half; dig pits
18 X 18 X 12 ins. N and S. of post, 3 ft.
dist.; and raise a mound of earth
3½ ft. base 1½ ft. high W of cor.
80.00 Set an iron post, 3 ft. long, 2 ins.
in dia.; 24 ins. in the ground for
cor. of secs. 8, 9, 16 and 17, marked
on brass cap,
T 31 S S 8 in N W
R 13 W S 9 in N E
S 16 in S E and
S 17 in S W quadrant; dig pits
18 X 18 X 12 ins., in each sec.; 5½ ft.
dist.; and raise a mound of earth
4 ft. base, 2 ft. high W. of cor.
Land, level,
Soil, clay loam, 2nd rate, 24 ins. deep.
Subsoil, clay hardpan.
Undergrowth, grease wood and
shad scale. No timber.

S 89° 59' E on a random line bet.
secs. 9 and 16.
40.00 Set temp. ¼ sec. cor.

Subdivision of T 31S R 13W.

Chains	
80.00	Intersect N and S line, 5 lks. N of the cor. of secs. 9, 10, 15 and 16. Thence I run N 89° 57' W on a true line bet. secs. 9 and 16. Over level land, thru dense undergrowth of sage brush and shad scale.
40.00	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap 1/4 S 9 on N half and S 16 on S half; dig pits 18 X 18 X 12 ins. E and W of post, 3 ft. dist; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft high. N of cor.
80.00	The cor. of secs. 8, 9, 16 and 17. Land, level, Soil, clay loam, 2nd rate, 24 ins. deep. Subsoil, clay hardpan. Undergrowth dense, sagebrush and shad scale. No timber.
	N 0° 03' W bet secs. 8 and 9. Over level land thru dense undergrowth of grease wood and shad scale.
11.80	Wash, 15 lks. wide, 1 ft. deep, course E,
40.00	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap 1/4 S 8 on W half and S 9 on E half; dig pits 18 X 18 X 12 ins. N and S of post, 3 ft. dist; and raise a mound of earth, 3 1/2 ft. base 1 1/2 ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia; 24 ins. in the ground for cor. of secs. 4, 5, 8 and 9, marked on brass cap

Subdivision of T 31 S R 13 W.

Chains.

T 31 S S 5 in N W,
R 13 W S 4 in N E,
S 9 in S E and
S 8 in S W quadrant; dig
pits 18 X 18 X 12 ins., in each sec.;
5½ ft. dist.; and raise a mound
of earth, 4 ft. base, 2 ft. high W. of cor.
Land level,
Soil, clay, 2nd rate, 12 ins. deep.
Subsoil, clay hardpan,
Undergrowth, shad scale and
greasewood, No timber.
Sept. 23, 1910.

Sept. 24: at 4h 22m p.m. l.m.t. I
set off 38° 58½' on the lat. arc,
2 2½" S on the decl. arc, and determine
a meridian with the solar transit
at this sec. cor.;
thence I run.
S 89° 57' E on a random line bet. secs.
4 and 9.
40.00 Set temp. ¼ sec. cor.
79.96 Intersect N and S line, 7 lks. S of
the cor. of secs. 3, 4, 9 and 10.
Thence I run
W. on a true line bet. secs. 4 and 9.
Over level land, through dense under-
growth of shad scale and grease wood
39.98 Set an iron post, 3 ft. long, 1½ in. in
dia.; 26 ins. in the ground for ¼ sec.
Cor.; marked on brass cap,
¼ S 4 on N half and
S 9 on S half; dig pit
18 X 18 X 12 ins., E and W. of post, 3 ft.
dist.; and raise a mound of earth 3½
ft. base, 1½ ft. high, N of cor.
79.96 The cor. of secs. 4, 5, 8 and 9.
Land: level,
Soil, clay and sandy loam, 2nd rate.
Subsoil, clay hardpan,

Subdivision of T 31 S R 13 W.

chains. Undergrowth, shadscale and greasewood, no timber.
September 24, 1910.
Andrew Nelson
Instrumentman G.L.O.

Sept. 24: At 1h. 52m. p.m. l.m.t. I set up: 38°08½' S on Lat. arc, 21½' S on the decl. arc and determine a meridian with the solar compass at the cor. of secs. 4, 5, 8 and 9. Thence I run
N 0°03' W on a true line bet. secs. 4 and 5.
Over gently rolling land, thru dense undergrowth of shadscale and greasewood.
40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap, 1/4 S 5 on W half and S 4 on E half; dig pits, 18 x 18 x 12 ins. N and S of post, 3 ft. dist.; and raise a mound of earth 3½ ft base, 1½ ft. high, W. of cor.

Nov. 17: For reasons as explained in notes of line run bet. secs. 1 and 2, T 31 S R 12, in Book "G" of this survey I commence at this 1/4 sec. cor and run this line
N 0°03' W.
108.39 Intersect Sixth Standard Parallel South, 10.04 chains W. of the Standard cor. of secs. 32 and 33 heretofore described, where I set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for closing cor. of secs. 4 and 5, marked on brass cap.

Subdivision of T 31 S R 13 W.

Chains: C C T 30 S R 12 W S 32 S 33 in N half
S 4 in S E and
S 5 in S W quadrant; dig
pits 24 X 18 X 12, crosswise on each
line, E and W of post, 3 ft. dist;
and S of post, 7 ft. dist; and raise a
mound of earth, 4 ft. base, 2 ft.
high S of cor.
I destroy all trace of the closing
cor. erroneously established Sept. 24.
Land gently rolling.
Soil, sandy loam 1st rate 15 ins. deep.
Subsoil, lime formation.
Undergrowth, greasewood and
shadscale. No timber.

Sept. 23: Knowing that I have
to establish a closing cor. on the
S bdy of Tp, I run
S 0°03' E on a true line bet
sec. 31 and 32.
Over gently rolling land thru dense
undergrowth of grease wood and shad
scale.
6.00 Road, bears N W and S E.
40.00 Set an iron post, 3 ft. long, 1 in. in
dia; 26 ins. in the ground for 1/4
sec. cor.; marked on brass cap
1/4 S 31 on W half and
S 32 on E half; dig pits
18 X 18 X 12 ins. N and S of post, 3 ft.
dist, and raise a mound of earth
3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
82.06 Intersect S bdy of the Tp. 1.32 chs
N 89° 46' E, of the cor. of secs. 5, 6, 31
and 32 heretofore described.
Note, I destroy all marks on this
cor and accessories pertaining to
secs. 31 and 32.
At point of intersection I set an
iron post, 3 ft. long, 2 ins. in dia;

Subdivision of T 31 S R 13 W.

Chains. 24 ins. in the ground for closing cor. of secs. 31 and 32. Marked on brass cap.
S 31 in N W, and
S 32 in N E quadrans
C C T 32 S R 13 W S V S 6 in S half. dig pits 24 X 18 X 12 ins. crosswise on each line, E and W of post 3 ft. dist., and N of post. 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high N of cor.
Land, gently rolling.
Soil, heavy clay loam, 20 ins deep, and rate; Subsoil, clay hardpan.
Undergrowth, greasewood and shad scale. No timber.

N 0° 0 3' W bet. secs. 29 and 30.
Over gently rolling land, through dense undergrowth of shad scale and greasewood.

33.48 Road, from Milford, bears N E and S W.

36.66 Center of San Pedro, Los Angeles, and Salt Lake Railroad, bears N 44° 45' E and S 44° 45' W.

37.79 Telegraph line, bears N 44° 45' E and S 44° 45' W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap,
1/4 S 30 on W half and
S 29 on E half, dig pits 18 X 18 X 12 ins., N and S of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 19, 20, 29 and 30; marked on brass cap,
T 31 S S 19 in N W.

Subdivision of T 3 S R 13 W.

Chains	
	R 13 W S 20 in N E.
	S 29 in S E and
	S 30 in S W quadrant. dig pits
	18 x 18 x 12 ins. in each sec.; 5½
	ft. dist.; and raise a mound of earth
	4 ft base, 2 ft. high W. of cor.
	Land gently rolling.
	Soil sandy loam, 24 ins. deep, 1st rate.
	Subsoil gravel formation.
	Undergrowth, shad scale and
	grease wood. No timber.
	Sept. 23: at this sec. cor. I set off
	3¾' N on the decl. arc, and at
	11 h. 52½ m. a.m. l.m.t. observe the
	sun on the meridian; the
	resulting latitude is 38°06'.
	East on a random line bet. secs.
	20 and 29.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect. N and S line at the cor.
	of secs. 20, 21, 28 and 29.
	Thence I run
	West on a true line bet. secs. 20 and 29.
	Over level land, thru dense under-
	growth of grease wood and shad scale.
35.70	Road, leud to Milford, bears N E and
	S W.
37.07	Center of San Pedro, Los Angeles
	and Salt Lake Railroad, bears
	N 44° 45' E and S 44° 45' W.
38.12	Telegraph line, bears N 44° 45' E and
	S 44° 45' W.
40.03	Set an iron post, 3 ft. long, 1 in.
	in dia.; 26 ins. in the ground,
	for ¼ sec. cor.; marked on brass cap
	¼ S 20 on N half and
	S 29 on S half; dig pits
	18 x 18 x 12 ins. E and W. of post, 3 ft.
	dist.; and raise a mound of earth
	3½ ft. base, 1½ ft. high, N. of cor.

Subdivision of T 31 S R 13 W.

~~Chains~~ 80.06 I Pass corner of secs. 19, 20, 29 and 30.
Land level,
Soil sandy loam, 24 ins deep, 1st rate.
Subsoil, clay hardpan.
Undergrowth, grease wood and shad scale. No timber.

Knowing that I will have to establish a closing cor. on the W. bdy of the Tp., I run
West on a true line bet secs. 19 and 30
Over gently rolling land through dense undergrowth of shad scale and grease wood.

11.72 Road, 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.; marked on brass cap.
1/4 S 19 on N half and
S 30 on S half; dig pits 18 X 18 X 12 ins., E and W of post, 3 ft. dist; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N of Cor.
Leave grease wood and enter shad white sage brush, bears NE and SW.

75.09 Intersect W. bdy. of the Tp., 2 x 43 chains N of the cor. of secs. 19, 24, 25 and 30 heretofore described.
I destroy all marks on post and accessories pertaining to Secs 19 and 30
At point of intersection I set an iron post, 3 ft. long, 2 ins. diam, 24 ins. in the ground for closing cor. of secs. 19 and 30, marked on brass cap.
T 31 S on N. half.
S 19 in NE.
S 30 R 13 W in SE
S 25 R 14 W in SW and
S 24 CC in NW quadrants
dig pits 24 X 18 X 12 ins, crosswise

Subdivision of T 31 S R 13 W.

Chains. on each line, N and S of post, 3 ft. dist.; and East of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high E of cor.
Land, gently rolling.
Soil, Sandy loam, 36 ins. deep, 1st rate.
Subsoil, gravel formation.
Undergrowth, shad scale and grease wood. No timber.

N 0° 03' W. bet. secs. 19 and 20.
Over gently rolling land, thru dense undergrowth of grease wood.
5.70 Old road, bears NE and SW.
19.69 Wash, 10 lks. wide, 4 ft. deep, course SE.
40.00 Set an iron post 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap:
1/4 S 19 on W half and
S 20 on E half, dig pits 18 X 18 X 12 ins. N and S of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
80.00 Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20; marked on brass cap
T 31 S S 18 in NW;
R 13 W S 17 in NE;
S 20 in SE and
S 19 in SW quadrant; dig pits 18 X 18 X 12 ins. in each sec.; 3 1/2 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W of cor.
Land, gently rolling.
Soil, Sandy loam, 24 ins. deep, 1st rate.
Subsoil, gravel formation.
Undergrowth, grease wood, No timber.

Chains	
	East on a random line bet. secs. 17 and 20.
40.00	Set temp. 1/4 sec. cor.
80.10	Intersect N and S line at the cor. of secs. 16, 17, 20 and 21.
	Thence I run
	West on a true line bet. secs. 17 and 20
	Over level land through dense undergrowth of grease wood.
40.05	Set an iron post. 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; Marked on brass cap. 1/4 S 17 on N half and S 20 on S half; dig pits.
	18 X 18 X 12 ins. E. and W. of post, 3 ft dist; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
80.10	The cor. of secs. 17, 18, 19 and 20.
	Land, level.
	Soil, Sandy loam, 20 ins. deep, 1st rate.
	Subsoil, gravel formation.
	Undergrowth, grease wood, No timber.
	~~For reasons already explained I run~~
	West on a true line bet. secs. 18 and 19,
	Over gently rolling land, thru dense undergrowth of grease wood and white sage brush
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; Marked on brass cap. 1/4 S 18 on N half and S 19 on S half; dig pits
	18 X 18 X 12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
74.94	Intersect. W. bdy. of Tp., 2.50 chains, N of the cor. of secs 13, 18, 19 & 24 heretofore described.
	I destroy all marks and accessories of this cor. pertaining to secs. 18 and 19. and at point of intersection.

Subdivision of T 31 S R 13 W.

Chains

Set an iron post 3 ft. long, ½ in. in dia.; 24 ins. in the ground for closing cor. of secs. 18 and 19, marked on brass cap.

T 31 S on N half.
S 18 in N E.
S 19 R 13 W in S E.
S 24 R 14 W in S W. and
S 13 C C in N W quadrants. dig pits 24 x 18 x 12 ins., crosswise on each line, N and S of post, 3 ft. dist, and E of post 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor.

Land, gently rolling.
Soil, sandy loam, 24 ins. deep, 1st rate.
Subsoil, lime and gravel formations.
Undergrowth, grease wood and sage brush, no timber. September 23, 1910.

Sept. 24: At 7h. 22m. a.m. l.m.t. I set off 38°07½' on the lat arc. 13¾' S on the decl. arc. and determine a meridian with the solar compass at the cor. of secs. 7, 8, 17 and 18. Thence I run.
N 0°03' W bet. secs. 17 and 18.
Over gently rolling land thru dense undergrowth of grease wood and shad scale.

40.00 Set an iron post, 2 ft. long, ½ in. in dia.; 26 ins. in the ground, for ¼ sec. cor.; marked on brass cap
¼ S 18 on W half and
S 17 on E half; dig pits 18 x 18 x 12 ins. N and S, of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.

80.00 A well bears N 59° 04' E from this cor. points.

Subdivision of T 31 S R 13 W.

Chains.	
	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 7, 8, 17 and 18. Marked on brass cap, T 31 S S 7 in NW R 13 W S 8 in NE S 17 in SE and S 18 in SW quadrant; dig pits 18 X 18 X 12 ins., in each sec., 5 ½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land gently rolling Soil, sandy loam, 16 ins deep, 1st rate Subsoil, clay and gravel formation Undergrowth, grease wood and shad scale No timber.
	East on a random line bet secs. 8 and 17
40.00	Set temp. ¼ sec. cor.
80.10	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 gently rolling land thru dense undergrowth of grease wood and shad scale.
40.05	A well bears N 8° 13' E from this cor. point. Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for ¼ sec. cor.; marked on brass cap ¼ S 8 on N half and S 17 on S half; dig pits 18 X 18 X 12 ins, E and W. of post, 3 ft. dist.; and raise a mound of earth, 3 ½ ft. base, 1½ ft high N of cor.
80.10	The cor. of secs. 7, 8, 17 and 18. Land, gently rolling. Soil sandy loam, 20 ins deep, 1st rate Subsoil, clay hardpan.

Subdivision of T 31 S R 13 W.

Clearing. Undergrowth dense greasewood and shadscale. No timber.

~~For reasons already explained I run.~~
West on a true line bet. secs. 7 and 18.
Over gently rolling land through dense undergrowth of grease wood and shadscale.

40.00 Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap.
1/4 S 7 on N half and
S 18 on S half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high N of cor.

74.89 Intersect W. bdy of Tp., 2.55 chs. N of the cor. of secs. 7, 12, 13 and 18 hereto for described destroy all marks and accessories of cor. pretaining to Secs. 7 and 18. at point of intersection set an iron post, 3 ft. long, 2 ins. in dia; 24 ins. in the ground for closing cor. of secs. 7 and 18, marked on brass cap.
T 31 S on N half
S 7 in N E,
S 18 R 13 W in S E,
S 13 R 14 W in S W,
S 12 C C in N W quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, N and S of post, 3 ft. dist. and E. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high E. of cor.
Land, gently rolling.
Soil. Sandy loam; 12 ins. deep.
Subsoil, gravel formation.
Undergrowth, grease wood and shad scale on mile. No timber.

Subdivision of T 31 S R 13 W.

Chains	N 0° 0 3' W bet. secs. 7 and 8.
	Over gently rolling land through dense undergrowth of greasewood and shad scale.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap: 1/4 S 7 on W half and S 8 on E half; dig pits 18 X 18 X 12 ins. N and S of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked on brass cap, T 31 S S 6 in NW, R 13 W S 5 in NE, S 8 in SE and S 7 in SW quadrant; dig pits 18 X 18 X 12 ins. in each sec.; 5 1/2 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling.
	Soil, Sandy loam, 12 to 20 ins. deep, 1st rate.
	Subsoil, gravel formation.
	Undergrowth greasewood and shad scale. No timber.
	East on a random line bet. secs. 5 and 8.
40.00	Set temp. 1/4 sec. cor.
80.10	Intersect. N. and S. line at the cor. of secs. 4, 5, 8 and 9.
	Thence I run
	West on a true line bet. secs. 5 and 8.
40.05	Set an iron post, 3 ft. long, 1 in. in

Subdivision of T 31 S R 13 W

chains dia.; 26 ins in the ground for 1/4 sec. cor; marked on brass cap.
1/4 S 5 on N half and
S 8 on S half; dig pits
18 X 18 X 12 ins., E and W of post, 3 ft. dist; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N of cor.

80.10 The cor. of secs. 5, 6, 7 and 8.
Land, gently rolling.
Soil, sandy loam. 8 to 15 ins deep, 1st rate.
Subsoil, lime formation.
Undergrowth dense grease wood and shad scale. No timber
Sept. 24; at this sec. cor. I set off. 19 1/2' S on the decl. arc. and at 11h. 52m. a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 38° 08 1/2'.
~~For reasons already explained I run~~
West on a true line bet secs. 6 and 7.
Over gently rolling land, through dense undergrowth of grease wood and shad scale.

40.00 Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground for 1/4 sec. cor; marked on brass cap.
1/4 S 6 on N half and
S 7 on S half; dig pits
18 X 18 X 12 ins. E, and W, of post. 3 ft. dist; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

74.83 Intersect. W. bdy of Tp., 2.61 chs. N. of the cor. of secs. 1, 6, 7 & 12, heretofore described
I destroy all marks, and accessories pretaining to Secs. 6 and 7; and at point of intersection.
Set an iron post. 3 ft. long, 2 ins. in dia; 24 ins. in the ground for closing cor. of secs. 6 and 7, marked on brass cap.

Subdivision of T 31 S R 13 W.

Chains.

T 31 S in N half.
S 6 in N E.
S 7 R 13 W in S E
S 12 R 14 W in S W and
S 1 C C in N W quadrant; dig pits 24 X 18 X 12 ins. crosswise on each line, N and S of post, 3 ft. dist; and E of post, 7 ft. dist; and raise a mound of earth, 4 ft base, 2 ft. high East of cor.
Land, gently rolling.
Soil, sandy loam, 12 to 20 ins deep, 1st rate.
Subsoil, lime formation.
Undergrowth, grease wood and shad scale.
No timber.

N 0° 03' W on a true line bet secs. 5 and 6.
Over gently rolling land, thru dense grease wood and shad scale.
40.00 Set an iron post, 3 ft. long, 7 in. in dia; 26 ins. in the ground, for 1/4 sec. cor; marked on brass cap,
1/4 S 6 on W half and
1/4 S 5 on E half; dig pits 18 X 18 X 12 ins., N and S of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft high. W of cor.

September 24, 1910.

Nov. 17. For reasons as explained in notes of line run bet secs. 1 and 2, T 31 S R 13 W. in Book "G" of this survey, I commence at the 1/4 sec. cor. and return this line N 0° 03' W. in
69.69 Stage Road, Bridge to Milford, bears N E and S W
108.40 Intersect Sixth Standard Parallel, South. 10.12 chains W. of the Standard cor. of secs. 31 and 32, heretofore described, where I set

Subdivision of T 31 S., R 13 W.

Chains an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for closing cor. of secs. 5 and 6. Marked w brass cap:
CCT 30 S R13W S 31 S 32 in N half, S 5 in S E and
S 6 in S W quadrant; dig pits 24 X 18 X 12 ins. crosswise on each line, E. and W. of post, 3 ft. dist.; and S of post 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft high S of cor.
I destroy all trace of closing cor. erroneously established by me Sept. 24, 1910.
Land, gently rolling.
Soil, sandy loam, 12 to 20 ins.
Agr, 1st. rate.
Subsoil, lime formation.
Undergrowth grease wood and shad scale. No timber
November 17. 1910.

General Description.

This township consists of level and gently rolling desert land, with a general slope to the N E., covered with a dense undergrowth of grease wood, sage brush, shad scale and some rabbit brush.

In the E and W portions of this Tp., soils of rich sandy loam, with a subsoil of lime formation is found, while in the central portion, you find soil of adobe clay and subsoil of clay hardpan.

In the eastern portion of secs. 13 and 24, Blue Butte, of Volcanic formation rises abruptly, 500 ft. above the valley.

There are two wells located

Subdivision of T 31 S R 13 W.

Chains. in this TP., in sec's. 8 and 22.

This TP. is used for a winter range, and water drawn from these wells by horsepower, is used for the watering of stock.

There are no indications of alkali around these wells.

The main line of the San Pedro, Los Angeles and Salt Lake Railroad traverses this TP. on a tangent. Nada Station is located in Sec. 16. It consists of a siding, section house and two dwelling houses, occupied by the section men. Water, for their use, is hauled by the railroad and emptied into a large cement cistern.

In sec. 16 is located Saturn switch post and siding. This siding is about 60 chains in length.

In the E and W portions there is some land suitable for dry farming.

There are no settlers in this TP. nor any indications of mineral.

Andrew Kelson
Walter A. Stumm
Instrumentmen, G. L. O.

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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 Andrew Nelson and Walter A. Stumm Instrumentman G. L. O, ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision of Township No. 31 South, Range No. 13 West. S. L. B. & M. Utah; showing the respective capacities in which they acted:

Jack Barker and Harry F. Wood, Chainmen.
Park Stumm and Clarence C. Shelby, Chainmen.
Troy Beaver, Moundman.
George Schroeder, Moundman.
, Axman.
, Axman.
George A. Faust and John A. Millyard, Flagmen.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew Nelson and Walter A. Stumm, Instrumentman G. L. O, ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the Subdivision of Township No. 31 South, Range No. 13 West of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Jack Barker, Harry F. Wood, Chainmen.
Park Stumm, Clarence C. Shelby, Chainmen.
Troy Beaver, Moundman.
George Schroeder, Moundman.
, Axman.
, Axman.
George A. Faust, Flagman.
John A. Millyard, Flagman

Subscribed and sworn to before me this 17 th day of November, 1910.

Andrew Nelson
Instrumentman G. L. O.

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of _____ day of _____, 190 , I have well, faithfully, and truly, in my o proper person, and in strict conformity with the instructions furnished by the United States Surve General for _____, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of _____

For final oath of Transitmen see book "W" T.33 S., R.16 W.

_____ of the _____ meridian, in the _____ of _____, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solem swear that all the corners of said survey have been established and perpetuated in strict accordance w the Manual of Surveying Instructions, and the special written instructions of the United States Surve General for _____ and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

_____

United States Deputy Surve

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

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 7, 19

The foregoing field notes of the survey of the subdivisional lines of Towns No.31 South, Range No. 13 West of the Salt Lake Base and Meridian Utah,

executed by Andrew Nelson and Walter A.Stumm under his ~~contract No.~~ their special instructions, dated August 6, 1910, ~~190x~~, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

United States Surveyor Gen

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

_____

United States Surveyor Gen

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Filed Feb.18, 1911.
WSH.

4—679

I
BOOK A-376

FIELD NOTES

RE
OF THE SURVEY OF THE

SOUTH AND WEST BOUNDARIES

OF

TOWNSHIP NO. 31 SOUTH

RANGE NO.13 WEST,

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

ANDREW NELSON

In the capacity of U. S. ~~*Surveyor*~~ Transitman *under instructions dated* Aug.6, *1910*, *issued by the United States Surveyor General to govern surveys included in Group No.* 2, *which were approved by the Commissioner of the General Land Office,* August 25, *1910*, *pursuant to authority contained in the Act of Congress dated* _____, *191*__

Survey commenced September 20, *1910*

Survey completed November 17, *1910.*

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NAMES AND DUTIES OF ASSISTANTS.

Jack Barker,	Chainman.
Harry F.Wood,	Chainman.
George Schroeder,	Moundman.
John Ad.Millyard,	Flagman.

BOOK A-376

INDEX DIAGRAM.

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BOOK A-376

INDEX DIAGRAM.

Township 31 S, *Range* 13 W.

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PRELIMINARY OATHS OF ASSISTANTS.

We, Jack Barker and Harry F. Wood 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 running, to the best of our skill and ability, and in accordance with instructions given us, in the ~~survey~~ resurvey of the S. and W. boundaries of T 31 S. R 13 W. S.L. B. & M. Utah.

Jack Barker, Chainmen

Harry F. Wood, Chainmen

Subscribed and sworn to before me this 19th day of September, 1910

SEAL

Andrew Nelson
Instrumentman G. L. O.

I, George Schroeder do solemnly swear that I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me, to the best of my skill and ability, in the survey of the S. and W. boundaries of T 31 S. R 13 W. S.L. & M. Utah.

George Schroeder, Moundman

, Moundman

Subscribed and sworn to before me this 19th day of September, 1910

SEAL

Andrew Nelson
Instrumentman, G. L. O.

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

..... , Axmen

..... , Axmen

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

SEAL

I, John A. Millyard, 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 resurvey of the S. and W. Boundaries of T. 31 S. R. 13 W. S.L. B. & M. Utah.

John A. Millyard, Flagman

Subscribed and sworn to before me this 19th day of September, 1910

SEAL

Andrew Nelson
Instrumentman, G. L. O.

Resurvey of the S. bdy of T 31 S R 13 W

Chains. Survey commenced Sept. 20. 1910 and executed with a W. and J. E. Gurley light mountain transit No. 96 24 with solar attachment.

For description of instrument see Book "A" of this survey.

I know my instrument to be in adjustment from tests on Polaris, Sept. 20., 1910, at the cor. of Tps 31 and 32 S.; Rs 12 and 13 W., latitude 38°04'17" N., longitude, 113°12' 39" W. in Book 7 of this survey.

At 7h 24m A.M. L.M.T., I set off 38°04'¼' on the lat. arc., 1°19½' N. on the decl. arc and determine a meridian with the solar transit at the cor. of Tps 31 and 32 S., Rs 12 and 13 W.; heretofore described.

This meridian agrees with the meridian established by Polaris, at this Tp. cor., September 12, 1910.

Preliminary to commencing the subdivision of this Tp., I run S 89° 38' W. bet. secs. 1 and 36. at 40.00 chs., I make a careful search but fail to find any trace of the ¼ sec. cor. I continue my line, S. 89° 38' W., 80.20 chains. S. of my line, 9 lks. dist., is the cor. of secs. 1, 2, 35 and 36. The true course of this mile is S 89° 34' W. From this sec. cor. I run S. 89° 38' W., bet. secs. 2 and 35, 40.14 chs. N. of my line

Resurvey of the S. bdy. of T 31 S R 13 W

Chains. 9 lks. dist.; is the 1/4 sec. cor. The true course of this 1/2 mile is S 89°46' W. From this 1/4 sec. cor. I run S 89°38' W., 40.19 chains N. of my line, 2 lks. dist. is the cor. of secs. 2, 3, 34 and 35. The true bearing of this 1/2 mile is S 89°40' W. From this sec. cor. I run S 89°38' W. bet. secs. 3 and 34., 40.00 chs. After a careful search, I fail to find any trace of the 1/4 sec. cor. I continue my line S 89°38' W., 80.36 chains. N. of my line 12 lks. dist.; is the cor. of secs. 3, 4, 33 and 34. The true course of this mile is S 89°43' W. From this sec. cor. I run S 89°38' W. 40.00 chains. After a careful search I fail to find any trace of the 1/4 sec. cor. I continue my line S 89°38' W 80.16 chains. N. of my line, 9 lks. dist.; is the cor. of secs. 4, 5, 32 and 33. The true course of this mile is S 89°42' W. From this sec. cor. I run S 89°38' W. bet secs. 5 and 32. 40.14 chs.; N. of my line, 10 lks. dist., is the 1/4 sec. cor. The true course of this 1/2 mile is S 89°47' W. From this 1/4 sec. cor. I run S 89°38' W., 40.29 chs. N. of my line; 9 lks. dist.; is the cor. of secs. 5, 6, 31 and 32. The true course of this 1/2 mile is S 89°46' W. From this sec. cor. I run S 89°38' W. bet secs. 6 and 31. 40.00 chs.; after a careful search I

Resurvey of the S. bdy. of T. 31 S R. 13 W.

Chains. Fail to find any trace of the 1/4 sec. cor.
I continue my line S 89° 38' W.
74.05 chs., Intersect W. bdy.
of the Tp., 13 lks. S. of the cor. of Tp's.
31 and 32 S, R's 13 and 14 W.,
which is a granite stone, 8 x 9 x 6
ins. above ground, as witnessed
and described by the Surveyor
General.
The true course of this mile is
S 89° 44' W.
The corners found on this
bdy. are poorly marked and many
are nearly obliterated. The
subdivisions of T 32 S, R 13 W. are
dependent on this bdy. therefore
I return east on the true course
resurveying and reestablishing
the corners.
N 89° 44' E, resurveying bet. secs.
6 and 31
Over level land, through dense
undergrowth of greasewood.
34.05 Set an iron post, 3 ft. long, 1 in. in dia.;
26 ins. in the ground for reestablished
1/4 sec. cor.; marked on brass cap.
1/4 S 31 on N. half and
S 6 on S half., dig pits
18 x 18 x 12 ins., E, and W. of post,
3 ft. dist.; and raise a mound of
earth, 3 1/2 ft. dia.; 1 1/2 ft. high, N.
of cor.
Note: I failed to find any trace of the
old 1/4 sec. cor.
74.05 Marks on the old sec. cor. are nearly
obliterated. I destroy all traces of
this sec. cor. and reestablish it
at the same point as follows:
Set an iron post, 3 ft. long,
3 ins. in dia.; 24 ins. in
the ground, for cor. of secs

Resurvey of the S. bdy. of T 31 S. R 13 W.

Chains

5, 6, 31 and 32, marked on brass cap,
T31S S 31 in NW.
R13W S 32 in NE.
R13W S 5 in SE and
T32S S 6 in SW, quadrant; dig pits 18X18X12 ins. in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land level,
Soil, clay loam, 2nd. rate.
Undergrowth, dense grease wood.
No timber

N 89°46' E, resurveying bet. secs. 5 and 32,
Over level land, through undergrowth of sage brush, and grease wood,
40.29 The old ¼ sec. cor. is a decayed cedar post, marks entirely obliterated. I destroy all traces of this cor. and re-establish it at the same point as follows:
Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for ¼ sec. cor., marked on brass cap,
¼ S 32 on N half and
S 5 on S half; dig pits 18X18X12 ins.; E and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
From this ¼ sec. cor. I run N 89°47' E,
41.73 Old road, bears NW. and SE,
80.43 The old cor. of secs. 4, 5, 32 and 33 is a granite stone, the marks are nearly obliterated, I destroy all traces of this cor. and re-establish it at the same point as follows:
Set an iron post, 3 ft. long, 3 ins. in dia.; 24 ins. in the ground for

Resurvey of the S bdy of T 31 S R 13 W.

Chains. Cor. of secs. 4, 5, 32 and 33, marked on brass cap:
T 31 S S 32 in NW,
R 13 W. S 33 in NE,
R 13 W, S 4 in SE, and
T 32 S. S 5 in SW. quadrant; dig pits 18 X 18 X 12 ins. in each sec., 5½ ft. dist; and raise a mound of earth, 4 ft. base, 2 ft. high. W. of cor. Land level.
Soil, clay loam, 2nd rate.
Undergrowth, sage brush and grease wood; No timber.

N 89° 42' E, resurveying bdy secs. 4 and 33
Over level land, through dense undergrowth of sage brush and grease wood.
40.08 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for reest-ablished ¼ sec cor; marked on brass cap:
¼ S 33 on N half and
S 4 on S half; dig pits 18 X 18 X 12 ins., E and W. of post, 3 ft. dist and raise a mound of earth, 3½ ft. base; 1½ ft. high, N. of cor.
Note: I make a careful search but failed to find any tr ace of the old cor.
80.16 The old sec. cor. is a granite stone, marks nearly obliterated. I destroy all traces of this cor. and reestablish it at the same point as follows:
Set an iron post, 3 ft. long, 3 ins. in dia; 24 ins. in the ground, for cor. of secs., 3, 4, 33 and 34, marked on brass cap,
T 31 S S 33 in NW.
R 13 W S 34 in NE.
R 13 W S 3 in SE, and
T 32 S S 4 in SW. quadrant; dig pits 18 X 18 X 12 ins., in each sec., 5½ ft. dist; and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Resurvey of the S bdy. of T 31 S R 13 W.

Chains: Land, level.
Soil, clay loam; 2nd rate; no timber.
Undergrowth, sagebrush and greasewood.
Sept. 26: at this sec. cor. I set off 1°14' N on the decl. arc; and at 11h 54m a.m.l.m.t. observe the sun on the meridian; the resulting latitude is 38°04¼'.

N 89°43' E, resurveying bet. secs. 3 and 34. Area nearly level land, through undergrowth of sage brush and greasewood.

40.18 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for reëstablished ¼ sec. cor.; marked on brass cap
¼ S 34 on N half and
S 3 on S half; dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high. N. of cor.
Note: I failed to find any trace of the old ¼ sec. cor.

80.36 The old cor. is a granite stone, marks are nearly obliterated. I destroy all traces of this cor. and reëstablish it at the same point as follows:
Set an iron post, 3 ft. long, 3 ins. in dia.; 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35 marked on brass cap
T 31 S S 34 in N W.
R 13 W S 35 in N E,
R 13 W S 2 in S E, and
T 32 S S 3 in S W. quadrant; dig pits 18x18x12 ins., in each sec., 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land, nearly level.
Soil, loose sand and clay loam, 2nd. rate.
Undergrowth, sage brush and grease wood
No timber.

Resurvey of the S bdy. of T 31 S R 13 W.

Chains.	N 89° 40' E. resurveying bet. secs. 2 & 35
	Over nearly level land, through dense
	undergrowth of sage brush.
40.19	The old 1/4 sec. cor. is a decayed cedar
	post: Marks are entirely obliterated.
	I destroy all traces of this cor., and
	reestablish it at the same point as follows:
	Set an iron post, 3 ft. long, 1 in. in
	dia., 26 ins. in the ground for 1/4 sec.
	Cor.; marked on brass cap,
	1/4 S 35 on N half and
	S 2 on S half; dig pits
	18 X 18 X 12 ins. E. and W. of post, 3 ft.
	dist.; and raise a mound of earth,
	3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
	7 rods this 1/4 sec. cor. I run
	N 89° 46' E.
48.33	Enter swale, covered with under-
	growth of rabbit brush, drains N.
52.33	Leave swale, bears N and S.
80.33	The cor. of secs. 1, 2, 35 and 36 is
	a granite stone, marks nearly
	obliterated: I destroy all traces of
	this cor. and reëstablish it at
	the same point as follows:
	Set an iron post, 3 ft. long, 3 ins. in dia.,
	24 ins. in the ground for cor. of secs. 1, 2,
	35 and 36, marked on brass cap:
	T 31 S S 35 in N W.
	R 13 W S 36 in N E,
	R 13 W S 1 in S E and
	T 32 S S 2 in S W quadrant.
	dig pits 18 X 18 X 12 ins. in each sec.,
	5 1/2 ft. dist.; and raise a mound of
	earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, nearly level.
	Soil, rich sandy loam, 1st rate.
	Under growth, sage brush and some
	rabbit brush; no timber.

Resurvey of the S bdy of T 31 S R 13 W.

Chains	
	N 89° 34' E, resurveying bet. secs. 1 and 36.
	Over gently rolling land, through dense undergrowth of sage brush.
40.10	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for reest-ablished 1/4 sec cor; Marked on brass cap: 1/4 S 36 on N half and S 1 on S half; dig pits 18 X 18 X 12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft base, 1 1/2 ft high. N. of cor.
	Note: I failed to find any trace of the old 1/4 sec. cor.
78.40	Old road, bears NE, SW and N.
80.20	The cor. of TP's 31 and 32 S, R's 12 and 13 W, heretofore described.
	Land, gently rolling.
	Soil, sandy loam, 2nd rate.
	Undergrowth, dense sage brush.
	No timber.

Resurvey of the W bdy of T 31 S R 13 W

Chains. Survey commenced Sept. 20, 1910 and executed with a W and T. E. Gurley light mountain transit No. 9624 with solar attachment.

For description of instrument see Book "A" of this survey.

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

At the cor. of TPs 31 and 32 S, R's 13 and 14 W., latitude 38°04'17" N, longitude 113°19'13" W.; I set off 38°04'¼' on the lat arc, 1°11' on the decl. arc and at 3h 54m p.m. l.m.t, determine a meridian with the solar, and mark a point thereof on a peg driven in the ground 6 chs. N of my station

Preliminary to the resurvey of this line I run North on a blank line, bet secs. 31 and 36, at 40.08 chs.: 30 lks. East of my line is the old ¼ sec. cor. I continue my line North, at 80.11 chains, 68 lks. East of my line is the cor. of secs. 25, 30, 31 and 36. From this point I continue my line North bet secs. 25 and 30. At 40.15 chains, 19 lks. East of my line is the ¼ sec. cor. 80.80 chains, 29 lks. East of my line is the cor. of secs. 19, 24, 25 and 30. From this point on my line I continue North bet secs. 19 and 24 at 39.15 chs.: 37 lks. W of my line is the ¼ sec. cor. 79.92 chs.: East of my line 47 lks.

Resurvey of the W bdy of T 31 S R 13 W.

Chains

is the cor. of secs. 13, 18, 19 and 24. I find this portion of this bdy. out in alinement and distance, and it necessary to establish closing cors., when the subdivisions of T31S R13 and 14 close on this bdy. As these Tps are not subdivided, I resurvey the range line, noting courses and distances to, and destroying all old cors.

At 7h 36m pm by my watch, which carries correct 1m 7s, 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 6 lks. N of my station.

September 20, 1910.

Sept. 21: At 7h 30m a.m. 1m 7s I lay off the azimuth of Polaris 0° 29' ½' to the West and mark the meridian thus determined by driving a tack in the peg set Sept. 20, on which the meridian falls 0.2 lks. E of the meridian determined by the solar.

September 20.

At 7h 53m a.m. 1m 7s I set R.A. 3.8° 0.4¼' on the lat. arc, 5° 5' N on the decl. arc, and determine a meridian with the solar.

This meridian agrees with the meridian determined by Polaris observation.

The solar apparatus by p.m. and a.m. observations, practically agree with the meridian established by the Polaris observation, therefore I conclude

Chains.	that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian, at 8h 0m am. is N. 15° 30' W., the angle thus determined gives the mag. dec. 15° 45' E.
	North bet secs. 31 and 36.
	Crew level land, through undergrowth of grease wood.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap.
	1/4 S 36 on W half and
	S 31 on E half; dig pits
	18X18X12 ins., N and S of post, 3 ft. dist.; and raise a mound of earth,
	3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
40.08	East of my line, 30 lks. dist; is the old 1/4 sec. cor. I destroy all traces of this cor.
42.00	Road, Lund to Milford, bears, NE and SW.
43.00	Center of San Pedro, Los Angeles, and Salt Lake Railroad track,
	bears, N 44° 42' E and S 44° 42' W.
44.00	Telegraph line, bears N 44° 42' E and
	S 44° 42' W.
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.
	Marked on brass cap.
	T 31 S on N half.
	R 14 W S 25 in NW.
	R 13 W S 30 in NE,
	S 31 in SE and
	S 36 in SW quadrant; dig
	pits 18X18X12 ins. in each
	sec., 5 1/2 ft. dist.; and raise a
	mound of earth, 4 ft. base, 2 ft.
	high, W of cor.
	Land level,
	Soil, Clay loam, 2nd rate.
	Undergrowth, grease wood.
	No timber.

Resurvey of the W bdy. of T 31 S R 13 W.

Chains.	
	North bet secs. 25 and 30.
	Over level land, through scattering undergrowth of grease wood.
.11	East of my line, 68 lks. dist. is the old sec. cor. I destroy all traces of this cor.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins in the ground for 1/4 sec. cor.; marked on brass cap, 1/4 S 25 on W half and S 30 on E half; dig pits 18 X 18 X 12 ins., N and S of post, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high. W of cor.
40.26	East of my line, 19 lks. dist., is the old 1/4 sec. cor., I destroy all traces of this cor.
44.60	Old road, bears N E and S W.
55.15	Old road, 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. marked on brass cap, T 31 S in N half. R 14 W S 24 in N W, R 13 W S 19 in N E, S 30 in S E and, S 25 in S W quadrant; dig pits 18 X 18 X 12 ins. in each sec., 5 1/2 ft. dist.; and raise a mound of earth, 4 ft. base. 2 ft high, W. of cor.
	Land, level,
	Soil, sand and clay loam. 2nd rate.
	Undergrowth, scattering grease wood,
	no timber.
	North bet. secs. 19 and 24.
	Over level land sloping E.

Resurvey of the W bdy of T 31 S R 13 W.

Chains. Scattering undergrowth of grease wood
.90 East of my line, 29 lks. dist., is the old sec. cor. I destroy all traces of this corner.
40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap, 1/4 S 24 on W half and S 19 on E half; dig pits 18 X 18 X 12 ins. N and S of post, 3 ft dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft high, W. of cor.
40.05 West of my line, 37 lks. dist; is the old 1/4 sec. cor. I destroy all traces of this cor.
80.00 Set an iron post, 3 ft long, 1 in. in dia; 24 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked on brass cap,
T 31 S in N half,
R 14 W S 13 in N W,
R 13 W S 18 in N E,
S 19 in S E and
S 24 in S W quadrant; dig pits 18 X 18 X 12 ins. in each sec, 5 1/2 ft dist; and raise a mound of earth, 4 ft. base, 2 ft high. W of cor.
Land, level,
Soil, Sandy loam, 1st rate.
Subsoil, gravel formation.
Undergrowth, grease wood; no timber.

North between secs 13 and 18.
Over level land, through scattering greasewood
.62 East of my line, 47 lks. dist; is the old sec. cor. I destroy all traces of this cor.
40.00 Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground for 1/4 sec cor.; marked on brass cap,
1/4 S 13 on W half and

Resurvey of the W bdy. of T 31 S R 13 W.

Chains	
	S 18 on E half; dig pits 18 x 18 x 12 ins. N and S of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high. W of cor.
	I make a careful search, but failed to find any trace of the old ¼ sec. cor.
52.00	Enter undergrowth of Sage brush.
74.00	Wash, 2 chains wide, drains N E.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked on brass cap.
	T 31 S in N half.
	R 14 W S 12 in N W.
	R 13 W S 7 in N E,
	S 18 in S E and
	S 13 in S W quadrant; dig pits 18 x 18 x 12 ins., in each sec., 6½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land level,
	Soil, sandy and clay loam, 1st rate.
	Undergrowth of sage brush and grease wood; no timber.

	North bet. secs. 7 and 12.
	Over, nearly level land, facing East.
	Scattering undergrowth of short sage and rabbit brush,
.86	East of my line, 64 lks. dist., is the old sec. cor. I destroy all traces of this cor.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor; marked on brass cap,
	¼ S 12 on W half and
	S 7 on E half; dig pits.
	18 x 18 x 12 ins., N and S of post, 3 ft.

Resurvey of the W bdy of T 31 S R 13 W.

Chains.	
	dist.; and raise a mound of earth 3½ ft. base 1½ ft. high, W of cor.
40.99	East of my line, 74 lks dist.; is the old ¼ sec. cor. I destroy all traces of this cor.
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, marked on brass cap.
	T 31 S in N half.
	R 14 W S 1 in N W,
	R 13 W S 6 in N E,
	S 7 in S E and
	S 12 in S W quadrant; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high; W of cor.
	Land nearly level,
	Soil, sandy loam and gravelly, 1st rate.
	Undergrowth of sage and rabbit brush, no timber.
	Sept. 211 at this sec. cor. I set off 50½' N on the decl. arc, and at 11h. 53m. a.m. l.m.t. observe the sun on the meridian; the resulting latitude is 38° 08½'.
	North bet secs. 1 and 6.
	Over level land, through undergrowth of sage and rabbit brush.
1.10	East of my line, 85 lks. dist is the old sec. cor. I destroy all traces of this cor.
11.50	Road, Proche to Milford bears N E and S W.
40.00	Set an iron post, 3 ft. long, 1 in in dia.; 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
	¼ S 1 on W half and
	S 6 on E half. dig pits

Resurvey of the W bdy of T 31 S R 13 W.

18 X 18 X 12 ins., N and S of post, 3 ft dist and raise a mound of earth. 3½ ft base, 1½ ft high, W of cor.

Sept. 21, 1910.

Mr. 17: For reasons as explained in notes of line run bet. secs. 1 and 2, T 31 S R 12 W, in Book "G" of this survey, I commence at this ¼ sec. cor. and return this line North.

41.21 East of my line, 92 lks. dist., is the old ¼ sec. cor. I destroy all trace of this cor.

80.00 Enter grease wood, bears NE and SW,

111.05 Intersect Sixth Standard Parallel South, 4.91 chains W. of the Standard cor. of Tp. 30 S., Rs 13 and 14 W., where I set an iron post 3 ft. long, 3 ins. in dia; 24 ins. in the ground, for closing cor of Tps. 31 S., Rs 13 and 14 W. Marked on brass cap.

T 30 S in N half.
R 14 W S 36 in NW and
R 13 W S 31 in NE quadrant of N half.
T 31 S in S half,
R 13 W S 6 in SE and
R 14 W S 1 in SW quadrant of S half.

dig pits. 30 X 24 X 12 ins. on each line, E and W. of post, 4 ft dist.; and S. of post. 8 ft dist; and raise a mound of earth, 5 ft base, 2½ ft high, S of cor.

East of my line 102 lks. dist. is the old Tp. cor. I destroy all trace of this cor, and the closing cor. erroneously set by me. Sept. 21,

Land level.

Soil, sandy loam and gravelly;
Undergrowth, sage and rabbit brush; no timber.

November 17, 1910.

Boundaries of T 31 S. R 13 W.
Latitudes, Departures and Closing Errors

Lines Designated.	True Bearing.	Distance	Latitudes North.	Latitudes South.	Departures East	Departures West.
		chs.	chs.	chs.	chs.	chs.
N-bdy T31S R13W.	West	474.86				474.86
W-bdy-T31S R13W	South.	511.05		511.05		
S-bdy-T31S R13W.						
S-bdy of Sec. 31	N89°44'E	74.05	.35		74.05	
W½ S-bdy of Sec 32.	N89°46'E	40.29	.16		40.29	
E½ S-bdy. of Sec 32	N89°47'E	40.14	.15		40.14	
S-bdy- of Sec 33	N89°42'E	80.16	.42		80.16	
S-bdy. of Sec. 34	N89°45'E	80.36.	.40		80.36	
W½ S-bdy. of Sec. 35	N89°40'E	40.19	.23		40.19	
E½ S-bdy of Sec. 35	N89°46'E	40.14	.16		40.14	
S-bdy. of Sec. 36.	N89°54'E	80.20	.60		80.20	
E-bdy-T31S R13W	North.	508.60	508.60			
Convergency						.57
Totals.			511.07	511.05	475.53	475.43
			511.05		475.43	
Errors in Lat.			.02	in dep.	.10	

For general description see Subdivision of this township.

Andrew Nelson
Instrumentman G. L. O

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Page

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

LIST OF NAMES.

A list of the names of the individuals employed by Andrew Nelson Instrumentman, G.L.O., ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the S. and W. boundaries of T 31 S., R 13 W S.L.B.&M., Utah; showing the respective capacities in which they acted:

Jack Barker, Chainman.
Harry F. Wood, Chainman.
George Schroeder, Moundman.
Moundman.
Axman.
Axman.
John A. Millyard, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew Nelson Instrumentman G.L.O., ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the S. and W. boundaries of T 31 S., R 13 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Jack Barker, Chainman.
Harry F. Wood, Chainman.
George Schroeder, Moundman.
Moundman.
Axman.
Axman.
John A. Millyard, Flagman.

Subscribed and sworn to before me this 15th day of November, 190

SEAL

Andrew Nelson
Instrumentman, G.L.O.

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ... United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ..... bearing date of the ..... day of ....., 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of transitman see book "V" T.3[illegible] S., R.16 W.

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

United States Deputy Surveyor.

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 7, 1910

The foregoing field notes of the survey of the South and West Boundaries of the Township No.31 South, Range No., 13 West of the Salt Lake Base and Meridian, Utah;

executed by Andrew Nelson under his ~~contract~~ special instructions, dated August 6, 1910, ~~[illegible]~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

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

United States Surveyor General.

8—151

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Page

Ex.V.I.F.

Filed March 11, 1911
WSH.

4—679

J.
BOOK A-376

FIELD NOTES

RE
OF THE SURVEY OF THE

WEST BOUNDARY

OF

TOWNSHIP NO.31 SOUTH

RANGE NO.14 WEST

Of the SALT LAKE BASE AND *Meridian,*

In the State of U T A H

EXECUTED BY

ANDREW NELSON

In the capacity of U. S. ~~Surveyor~~ Transitman *, under instructions dated* August 6 *, 191*0*,*

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

Group No. 2 *, which were approved by the Commissioner of the General Land*

Office, August 25 *, 191*0*, pursuant to authority contained in the Act of*

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

Survey commenced September 27 *, 191*0

Survey completed November 19 *, 191*0.

6—151

NAMES AND DUTIES OF ASSISTANTS.

Jack Barker,	Chainman.
Harry F.Wood,	Chainman.
George Schroeder,	Moundman.
John Ad.Millyard,	Flagman and Axman.

BOOK A-376

INDEX DIAGRAM.

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

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

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BOOK A-376

INDEX DIAGRAM.

Township 31 S, *Range* 14 W.

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

Meanders Page 1

PRELIMINARY OATHS OF ASSISTANTS.

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

Resurvey of W. bdy. of T 31 S., R 14 W. S.L.B.& M., Utah.

Jack Barker, Chainman
Harry F. Wood, Chainman

Subscribed and sworn to before me this 27 day of September, 1900

SEAL

Andrew Nelson
Instrumentman G.L.O.

We, I. George Schroeder and
do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the ~~survey~~

Resurvey of W. bdy. of T 31 S., R 14 W. S.L.B.& M., Utah.

George Schroeder, Moundman
, Moundman

Subscribed and sworn to before me this 27 day of September, 1900

SEAL

Andrew Nelson
Instrumentman G.L.O.

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

, Axman
, Axman

Subscribed and sworn to before me this day of, 190

SEAL

I, John Ad Millyard, 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~~

Resurvey of W. bdy. of T 31 S., R 14 W. S.L.B.& M., Utah.

John Ad Millyard, Flagman and Axman

Subscribed and sworn to before me this 27 day of September, 1900

SEAL

Andrew Nelson
Instrumentman G.L.O.

Resurvey of west boundry T 31 S., R 14 W.

Survey commenced September 27, 1910, and executed with a W. & L. E. Gurley light mountain transit No. 9624, with solar attachment. For description of instrument see book "A" of this survey.

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

At the cor. of Tps. 31 and 32 S., Rs. 14 and 15 W.; latitude 38° 04' 17" N.; longitude 113° 25' 48" W.; I set off 38° 04¼' on the lat. arc; 1° 33'S. on the decl. arc; and, at 3h51m p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stake firmly driven in the ground, 5 chs. N. of the cor.

At 7h 9m p.m. by my watch, which carries correct 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.

September, 27, 1910.

September 28: At 8½a.m., I lay off the azimuth of Polaris, 1° 29¼' to the west, and mark the meridian thus determined, by driving a small nail in the stake set Sept. 27, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h 51m a.m., l.m.t., I set off 38° 04¼' on the lat. arc; 1° 50'S. on the decl. arc; and mark a point in the meridian determined with the solar, by a nail driven in the stake already set 5 chs. N. of my station; this mark falls 0.4 ins. east of the meridian established

Resurvey of west boundry of T 31 S.,R 14 W.

chains	
	by the Polaris observation.
	The solar appartus by p.m. and a.m. observations, defines positions for meridians, respectively about 0' 21" west and east of the meridian established by the Polaris observation; therefore as the angles are so small, I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian, 9h a.m., is N. 15° 45'W.; the angle thus determined gives the mag. decl. 15° 45' E.

	From the cor. of Tps. 31 and 32 S.,Rs. 14 and 15 W., which is a 3in. iron post, 12 ins. above the ground, firmly set, marked and witnessed as described by the Surveyor General.
	I run North on a blank line, bet. secs. 31 and 36; at 40.20 chs. west, 90 lks. dist. I find the ¼ sec. cor., and at 80.68 chs.,the cor. of secs. 25-30-31 and 36, bears west, 68 lks.dist.; from sec. cor. I continue North bet. secs. 25 and 30; at 40.63 chs., east of my line, 10 lks.dist. I find the ¼ sec. cor., and at 81.46 chs.,the cor. of secs. 19-24-25 & 30, east 37 lks. dist. Therefore as there are no subdivisions dependent upon this range line, and as I have found from previous resurveys that many of the old cors. are missing or nearly oblitered. I resurvey this range line as follows:

	From the Tp. cor. already described I run North resurveying bet. secs. 31 and 36.
	Over rolling mountainous land, through dense forest of cedar and pinon. Land facing the E.
13.20	Wash, 30 lks. wide, 3 ft. deep, course SE.

Resurvey of West bdy. of T 31 S.,R 14 W.

chains	
22.10	Small wash, course SE.
27.72	Top of quartzite reef, solid rock, 30 ft. high, 50 lks. wide, bears NE. and SW.
32.15	Wash, 45 lks. wide, 2 ft. deep, course SE.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for re-established ¼ sec. cor.,marked on brass cap ½ S 36 on W. and S 31 on E. half; from which
	A pinon,14 ins. diam.,bears N 31½° W. 37 lks. dist.,marked ¼ S 36 B T
	A cedar, 16 ins.diam.,bears S 73¾° E. 16 lks. dist.,marked ¼ S 31 B T
	40.20 chs.,west 90 lks. dist.,is old ½ sec. cor. I destroy all trace of cor.
	Ascend SW. slope of peak, 150 ft. to
57.00	Top of ascent on W. slope; peak bears NE. 5 chs. dist.
	Descend 150 ft. over NW. slope
64.75	Hollow, course NE.; ascend 75 ft. over S. slope
69.00	Low spur, projects NE.; descend land, facing NW.75 ft.
75.00	Small ravine, course N 20°E.
	Continue gentle descent.
80.00	Set an iron post, 3 ft. long, 3 ins.dia.,24 ins. in the ground, for re-established cor. of secs. 25-30-31 and 36, marked on brass cap
	T 31 S in N. half,
	R 15 W S 25 in NW,
	R 14 W S 30 in NE,
	S 31 in SE. and
	S 36 in SW. quadrant; from which
	A cedar, 6 ins.diam.,bears N 34° E. 26 lks. dist.,marked T31S R14W S30 BT
	A cedar, 6 ins.diam.,bears S 63° E. 41 lks. dist.,marked T31S R14W S31 BT

Resurvey of W. bdy. of T 31 S.,R 14 W.

chains

A cedar, 8 ins.diam.,bears S 28½°W. 52 lks. dist.,marked T31S R15W S36 BT

A cedar, 8 ins.diam.,bears N 52° W. 13 lks. dist.,marked T31S R15W S25 BT

Land, S. 40 chs.,high rolling, facing the E.; N. 40 chs., mountainous.

Soil, gravelly and stony; 3rd rate.

Timber, dense cedar and pinon on mile..

Undergrowth, scattering short sagebrush.

September 28: At this sec. cor.,I set off 1° 53'S. on the decl. arc; and, at 11h 51m a.m.,l.m.t., observe the sun on the meridian; the resulting lat. is 38° 05'.

Note: A spring of pure water, with tank and troughs, situated near E. foot of steep mountain, bears N. 52° W., drains SE.

Note: N. 68 lks.dist.,and W.68 lks. of line is old sec. cor. I destroy all trace of same.

North resurveying bet. secs. 25 and 30.

Over rolling mountainous land, facing E.,through dense forest of cedar and some pinon.

1.00 Wash, course NE.

2.20 Low spur, projects NE.

4.00 Wash, course NE.

11.25 Wash, 15 lks. wide, 3 ft. deep, course E.

21.00 Wash, 15 " " " " " " E.

37.70 Wash, 20 " " " " " " SE.

40.00 Set an iron post, 2 ft. long, 1 in.dia.,26 ins. in the ground and a mound of stone for ¼ sec.corner; marked on brass cap ½ S 25 on W. and S 30 on E. half; from which

A cedar, 8 ins.diam.,bears N 48½° E. 49 lks. dist.,marked ½ S 30 B T

Resurvey of W. bdy. of T 31 S., R 14 W.

chains	
	A cedar, 10 ins. diam., bears S 70° W. 32 lks. dist., marked ¼ S 25 B T
	Note: Owing to natural obstacles it is impossible to set cor. more then 12 ins. in the ground.
	Same spring as noted from cor. of secs. 25-30-31 & 36, bears S. 54° W.
	41.31 chs. W. 58 lks. of line, is the old ¼ sec. cor. I destroy all trace of cor.
	Gradually ascend land, facing SE.
54.00	Wash, course SE.
59.00	Wash, 20 lks. wide, 3 ft. deep, course SE.
74.95	Wash, 15 lks. wide, 2 ft. deep, course SE.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 19-24-25 and 30, marked on brass cap
	T 31 S on N. half,
	R 15 W S 24 in NW,
	R 14 W S 19 in NE,
	S 30 in SE. and
	S 25 in SW. quadrant; from which
	A cedar, 10 ins. diam. bears N 45° E. 34 lks. dist., marked T31S R14W S19 BT
	A cedar, 14 ins. diam., bears S 37½° E. 24 lks. dist., marked T31S R14W S30 BT
	A cedar, 8 ins. diam., bears S 82° W. 5 lks. dist., marked T31S R15W S25 BT
	A pinon, 8 ins. diam., bears N 21½° W. 71 lks. dist., marked T31S R15W S24 BT
	Land, rolling mountainous, E. and SE. slope.
	Soil, gravelly and stony; 3rd rate.
	Timber, dense cedar and some pinon.
	Undergrowth, scattering sagebrush.
	Note: I destroy all trace of old sec. cor.

Resurvey of W. bdy. of T 31S.,R 14W.

chains	
	North resurveying bet. secs. 19 and 24.
	Over rolling mountainous land, through dense forest of cedar and pinon.
	Ascend SW. slope.
12.70	Hollow, course SE.
19.00	A peak, bears W. continue ascent.
25.40	High dividing ridge, 150 ft. above sec. cor.,bears NE. and W.; descend steep N. slope.
30.00	Base of steep, slope, thence gradual NE. slope.
40.00	175 ft. below high ridge.
	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 24 on W. and S 19 on E. half; from which
	A cedar,12 ins.diam.,bears N 75° E. 5 lks. dist.,marked ¼ S 19 B T
	A cedar, 8 ins.diam.,bears S 80° W. 4 lks. dist.,marked ¼ S 24 B T
	No trace of old ¼ cor. found. September 28, 1910.
	Sept. 29: At 7h 51m a.m.l.m.t.,I set off 38°06½' on the lat. arc; 2° 12 'S. on the decl.arc; and determine a meridian with the solar, at this ¼ sec cor.
	Thence I run North bet. secs. 19 and 24.
	Over low cedar hills, sloping E.
69.60	Wash, 25 lks. wide, course E.
72.20	Wash, 10 lks. wide, course NE.
80.00	Set an iron post, 3 ft. long, 3 ins.diam.,24 ins. in the ground, for cor. of secs. 13-18-19 and 24, marked on brass cap
	T 31 S on N. half,
	R 15 W S13 in NW,
	R 14 W S 18 in NE,
	S 19 in SE. and
	S 24 in SW. quadrant; from which

Resurvey of W. bdy. of T 31 S., R 14 W.

chains

A cedar,10 ins.diam.,bears N. 40½° E. 112 lks. dist.,marked T31S R14W S18 BT

A cedar,14 ins.diam.,bears S 85½° E. 61 lks. dist.,marked T31S R14W S19 BT

A cedar, 6 ins.diam.,bears S 82½° W. 19 lks. dist.,marked T31S R15W S24 BT

A cedar,14 ins.diam.,bears N 39½° W. 56 lks. dist.,marked T31S R15W S13 BT

Land, low rolling hills, general slope to the E.

Soil, mostly gravelly; 6 to 12 ins.deep; subsoil, stony of lime formation.

Timber, dense forest of cedar and pinon.

Undergrowth, some scattering sagebrush.

Note: After a careful search, I am unable to find any trace of the old sec. cor.

North, resurveying bet. secs. 13 and 18.

Over rolling mountainous land, through dense forest of cedar, pinon and some mahogany.

Gradually ascend over rolling land, facing SE.

22.00 Top of ridge,100 ft. above sec. cor.,bears NE. and SW.

Descend NW. slope, 100 ft. to

37.50 Hollow, course NE.; ascend 25 ft. to

40.00 On S. slope.

Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ½ S 17 on W. and S 18 on E. half; from which

A cedar,10 ins.diam.,bears S 62½° E. 89 lks. dist.,marked ¼ S 18 B T

A cedar, 8 ins.diam.,bears S 64½° W. 67 lks. dist.,marked ¼ S 17 B T

Resurvey of W. bdy. of T 31 S., R 14 W.

chains	
	Note: After a careful search, I am unable to find any trace of the old ¼ sec cor.
	Ascend 100 ft. over S. slope.
46.62	Top of high ridge, bears E. and W., and spur projecting N.
	Descend along spur.
68.00	Descend abruptly over rocky N. face.
72.50	Wash, 10 lks. wide, 4 ft. deep, in hollow, 300 ft. below the high ridge, course E.
	Note: A small spring bears E. about 5 chs. (Bull Spring).
	Thence ascend rocky S. slope, 125 ft. to
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground and in a mound of stone, 4 ft. base; for cor. of secs. 7-12-13 and 18, marked on brass cap
	T 31 S on N. half,
	R 15 W S 12 in NW,
	R 14 W S 7 in NE,
	S 18 in SE. and
	S 13 in SW. quadrant; from which
	A cedar, 8 ins. diam., bears N 82° E. 44 lks. dist., marked T31S R14W S7 BT
	A pinon, 10 ins. diam., bears S 12°35' W. 116 lks. dist., marked T31S R15W S13 BT
	A cedar, 6 ins. diam., bears N 30° W. 18 lks. dist., marked T31S R15W S12 BT
	No tree suitable as a bearing tree is within limits in sec. 18. Owing to natural obstacles it is impossible to set this cor. more then 12 ins. in the ground.
	Note: After a careful search, I am unable to find any trace of the old sec. cor.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, dense cedar and pinon. some mahogany.
	Undergrowth, scattering sagebrush.

Resurvey of W. bdy. of T 31 S., R 14 W.

chains	
	North, resurveying bet. secs. 7 and 12.
	Over mountainous land, through scattering forest of cedar, pinon and some scrub mahogany.
	Gradually ascend SE. slope of peak.
17.00	Top of E. slope of peak, which, bears W. about 8 chs. dist., 200 ft. above hollow.
	Descend NE. slope.
36.64	Draw, course E.; ascend 30 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 12 on W. and S 7 on E. half; from which
	A pinon, 16 ins. diam., bears N. 33½° E. 33 lks. dist., marked ¼ S 7 B T
	A cedar, 5 ins. diam., bears N 47½° W. 21½ lks. dist., marked ¼ S 12 B T
	Note: After a careful search, I am unable to find any trace of the old ¼ sec. cor.
48.50	Base of descent, 275 ft. below top, bears E. and W., leave mountainous and rocky land, and enter flat, with rich sandy loam soil.
53.65	Road, Lund to Dotson spring, bears E. and W.
57.50	Main wash and drain, 50 lks. wide, 2 ft. deep, course E. Thence gently ascend over rolling land, fecing SE., through dense forest of cedar and pinon.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 1-6-7 and 12, marked on brass cap
	T 31 S on N. half,
	R 15 W S 1 in NW,
	R 14 W S 6 in NE,
	S 7 in SE. and
	S 12 in SW. quadrant; from which
	A pinon, 22 ins. diam., bears N. 29½° E. 16 lks. dist., marked T31S R14W S6 BT

Resurvey of W. bdy. of T 31 S., R 14 W.

chains

A pinon, 8 ins.diam.,bears S 40½° E. 52 lks. dist.,marked T31S R14W S7 BT

A pinon,12 ins.diam.,bears S 62½° W. 91 lks. dist.,marked T31S R15W S12 BT

A cedar, 8 ins.diam.,bears N 38½° W. 32 lks. dist.,marked T31S R15W S1 BT

Land, S. 48 chs.,mountainous; soil, rocky and gravelly; 3rd rate: N. 32 chs.,level and rolling, with sandy loam and gravelly; 1st and 2nd rates.

Timber, S. 57 chs.,scattering and N. 13 chs.,dense cedars and pinon.

Undergrowth, scattering short sagebrush, except on level land, about main wash, where sagebrush,5 ft.high is found.

No trace of old sec. cor. can be found after careful search.

North, resurveying bet. secs. 1 and 6.

Over low rolling hilly land, gentle slope to the SE., through dense forest of cedar and pinon.

8.50 Enter opening, with only few scattering trees, bears E. and W.

18.00 Leave opening, and enter dense forest, bears E. and W.

36.00 Enter more scattering timber, bears NW. and E.

37.05 Wash, course SE.

40.00 Set an iron post, 3 ft. long, 1 in.dia.26 ins. in the ground, for re-established ¼ sec. cor.,marked on brass cap ¼ S 1 on W. and S 6 on E. half; from which

A cedar,22 ins.diam.,bears S. 65° E. 203 lks. dist.,marked ¼ S 6 B T

A cedar,24 ins.diam.,bears S 70½° W. 297 lks. dist.,marked ¼ S 1 B T

September 29, 1910.

Note: N. half of this mile run and closing cor. established on erroneous 6th stan. par. S.,Sept. 30th.

Resurvey of W. bdy. of T 31 S.,R 14 W.

chains	
	November 19, 1910: for reasons as explained in notes of line run bet. secs. 1 and 2, T 31 S.,R 12 W.,book "G" of this survey. I commence at this ¼ sec. cor.,and re-run this line North, resurveying bet. secs. 1 & 6. Note: I made a careful search for old ¼ sec. cor.,but failed to find any trace of same.
44.00	Drain, course SE.
47.00	Enter dense timber, bears NW. and SE.
60.00	Wash, 10 lks. wide, 3 ft. deep, course SE.
72.00	Top of low ridge, 30 ft. high, bears E. and W. Thence over gentle slope to the NE.
89.70	Wash, 10 lks. wide, course E.
99.00	Wash, 10 lks. wide, course E.
110.36	In S. edge of opening, bears NW. and SE. Intersect the Sixth standard parallel south, 4.71 chs. west of standard cor. of T. 30 S.,Rs. 14 and 15 W., which is a 3in. iron post, heretofore described. Set an iron post, 3 ft. long, 3 ins.dia.,24 ins. in the ground, for re-established closing cor. of T. 31 S., Rs. 14 and 15 W, marked on brass cap T30S R15W S36 R14W S31 in N. half, T31S R15W S1 CC R14W S6 in S. half. from which; A cedar, 14 ins.diam.,bears S 79¾°E. 113 lks. dist.,marked T31S R14W S6 BT A cedar, 12 ins.diam.,bears S 26½°W. 32 lks. dist.,marked T31S R15W S1 BT Note: After a careful and extended search, I am unable to find any trace of the old closing cor. I destroy all trace of closing tp. cor. previously set by me.
	Land, low rolling hills.
	Soil, gravelly, stony and some light sandy loam.
	Timber, dense cedar and pinon, on mile.
	Undergrowth, black sagebrush, 1 to 3 ft. high.

Boundries of T 31 S., R 14 W.

Latitudes, departures, and closing errors.

Line designated	True bearing	Dist. chs	Latitudes. N. chs	Latitudes. S. chs	Departures. E. chs	Departures. W. chs
S. bdy. sec 36	N 89°54'W.	80.30	.14			80.30
S. bdy. tp.	N 89°48'W	398.64	1.39			398.64
W. bdy. tp.	North	510.36	510.36			
6th stan par	East	479.80			479.80	
E. bdy tp.	South	511.05		511.05		
convergency	- - - - -				.57	
Totals - - - - -			511.89	511.05	480.37	478.94
			511.05		478.94	
Errors - - - - - -			.84		1.43	

For general description see subdivision of this township.

Andrew Nelson

Instrumentman G. L. O.

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

LIST OF NAMES.

A list of the names of the individuals employed by Andrew Nelson Instrumentman G.L.O., ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ of Resurvey of W. bdy. of T 31 S., R 14 W. S.L.B.& M., Utah. showing the respective capacities in which they acted:

Jack Barker, *Chainman.*

Harry F. Wood, *Chainman.*

George Schroeder, *Moundman.*

, *Moundman.*

John AD Millyard, *Axman.*

, *Axman.*

John AD Millyard, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew Nelson Instrumentman G.L.O., ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the Resurvey of W. bdy. of T 31 S., R 14 W.

of the Salt Lake Base and meridian, state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Jack Barker, *Chainman.*

Harry F. Wood, *Chainman.*

George Schroeder, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

John Ad. Millyard, *Flagman.* and axman.

Subscribed and sworn to before me this 19th day of November, 1900

Andrew Nelson
Instrumentman G.L.O.

SEAL

6—161

BOOK A-375

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of ..... day of ....., 190 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States 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 "V" T.33 S., R.16 W.

..... of the ..... meridian, in the ..... of ....., which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further 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 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

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 7, 1

The foregoing field notes of the survey of the West Boundary of Township No. [illegible] South, Range No. 14 West of the Salt Lake Base and Meridian, Utah;

.....

Executed by Andrew Nelson

Special Instructions August 6, 1910 XXX having been [illegible], and the necessary corrections and explanations made, the said field notes, and [illegible] are hereby approved.

United States Surveyor General.

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

.....

United States Surveyor General.

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V.I.F.

Filed March 11, 1911.
WSH.

4—679

K

BOOK A-376

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO. 31 SOUTH

RANGE NO. 14 WEST

Of the SALT LAKE BASE AND *Meridian,*

in the State of UTAH

EXECUTED BY

ANDREW NELSON AND WALTER A. STUMM

in the capacity of U. S. ~~*Surveyor*~~ Transitmen, *under instructions dated* August 6, *1910*, *issued by the United States Surveyor General to govern surveys included in Group No.* 2, *which were approved by the Commissioner of the General Land Office,* August 25, *1910*, *pursuant to authority contained in the Act of Congress dated* ....., *191*....

Survey commenced September 25, *1910*

Survey completed November 19, *1910*.

6—151

NAMES AND DUTIES OF ASSISTANTS.

Jack Barker,	Chainman.
Park Stumm,	Chainman.
Harry F.Wood,	Chainman.
Clarence C.Shelby,	Chainman.
George Schroeder,	Moundman.
Troy Beaver,	Moundman.
George Nelson,	Moundman.
Joseph A.Ingram,	Axman.
Harvey Rosenberg,	Axman.
John Ad.Millyard,	Flagman.
George A.Faust,	Flagman.

BOOK A-376

INDEX DIAGRAM.

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

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
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BOOK' A-376

INDEX DIAGRAM.

Township 31S, *Range* 14 W

6	62	5	43	4	30	3	20	2	10	1
61		60		42		29		19		9
7	59	8	40	9	28	10	18	11	8	12
57		57		39		27		17		7
18	55	17	38	16	26	15	16	14	7	13
54		53		37		25		15		6
19	51	20	35	21	25	22	14	23	7	24
50		49		35		24		13		5
30	48	29	33	28	23	27	13	26	4	25
47		46		33		23		12		3
31	44	32	32	33	22	34	11	35	2	36

Meanders Page ~~X~~

6—152

We, Jack Barker, Harry F. Wood and Park Stumm & Clarence Shelly do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; 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

Subdivision of T. 31 S., R. 14 W. S.L.B.& M., Utah.

Jack Barker, Chainman
Harry F. Wood, Chainman
Park Stumm, Chainman
Clarence Shelly, Chainman

Subscribed and sworn to before me this 25th day of September, 1910

SEAL

Andrew Nelson
Instrumentman G.L.O.

We, George Schroeder, Troy Beaver and George Nelson 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

Subdivision of T 31 S., R 14 W. S.L.B.& M., Utah.

Troy Beaver, Moundman
George Nelson, Moundman
George Schroeder, Moundman

Subscribed and sworn to before me this 25 day of September, 1910

Subscribed and sworn to before me by George Nelson Oct. 5, 1910.

SEAL

Andrew Nelson
Instrumentman G.L.O.

We, Harvey Rosenberg and Joseph A. Ingram 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

Subdivision of T 31 S., R 14 W. S.L.B.& M., Utah.

Harvey Rosenberg, Axman
Joseph A. Ingram, Axman

Subscribed and sworn to before me this 1st day of October, 1910

Subscribed and sworn to before me by Joseph A. Ingram Oct. 3, 1910.

SEAL

Andrew Nelson
Instrumentman G.L.O.

We, John A. Millyard & Geo. A. Faunt, do solemnly swear that we will well and truly perform the duties of flagman according to instructions given us, to the best of our skill and ability, in the survey of Subdivision of T 31 S., R 14 W. S.L.B.& M., Utah.

George A. Faunt, Flagman
John A. Millyard

Subscribed and sworn to before me this 25th day of September, 1910

SEAL

Andrew Nelson
Instrumentman G.L.O.

Subdivision of T. 31 S.,R 14 W.

Survey commenced September 25, 1910, and executed with a W. & L. E. Gurley light mountain transit No. 9624, with solar attachment, and a Young and Sons solar compass. For description of instruments see book "A" of this survey. This observstion is made with the solar transit; therefore I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar appartus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 31 and 32 S.,Rs. 13 and 14 W.; latitude 38° 04' 17"N.,longitude 113° 19' 13"W.; I set off 38° 04½'N. on the lat. arc; 0° 46'S. on the decl. arc; and, at 3h 52m. p.m.,l.m.t., determine with the solar a meridian and mark a point therof, on a stake firmly driven in the ground, 5 chs. N. of the cor.

At 7h 17m p.m. by my watch which carries correct 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.

September 25, 1910.

September 26: AT 8 a.m.,l.m.t., I lay off the azimuth of Polaris 1° 29½' to the west, and mark the meridian thus determined, by driving a nail in the stake set Sept. 25, this meridian concides with that determined by the solar.

At 8h 22m a.m.,l.m.t., I set off 38° 04½' on the lat. arc; 1° 02½'S. on the decl. arc; and mark a point in the meridian determined with the solar, by a nail in

chains	
	the stake already set 5 chs. N. of my station; this mark agrees with that established by the Polaris observation. The solar appartus, by p.m. and a.m. observations, defines meridians that agree, with the meridian established by the Polaris observations; therfore I conclude that the instrument is in perfect adjustment. The magnetic bearing of the true meridian, 8h 22m a.m. is N. 15° 45'W.,the angle thus determined gives the mag. decl. 15° 45'E.
	From the Tp. cor. heretofore described, I retrace N 89° 48'W. on the S. bdy. of sec. 36; at 40.16 chs., fall 6 lks. N. of the ¼ sec. cor.; and at 80.30 chs., fall 14 lks. N. of the cor. of secs. 35 and 36, on the S. bdy. of the Tp.; consequently the course of the S. bdy. of sec. 36 is N 89° 54'W.
	I commence at the cor. of secs. 35 and 36 in the S. bdy. of the Tp.,which is a 3 in. iron post, 12 ins. above the ground, marked and witnessed as described by the Surveyor General.
	Thence I run
	N. 0° 01' W. bet secs. 35 and 36.
	Over gently rolling land, sloping S.,through short rabbit brush.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 35 on W. and S 36 on E. half ; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.

Subdivision of T 31 S., R 14 W.

chains	
71.58	Old road, bears NE. and SW., to Sulphur Spring.
80.00	Set an iron post, 3 ft.long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 25-26-35 and 36, marked on brass cap
	T 31 S S 26 in NW,
	R 14 W S 25 in NE,
	S 36 in SE. and
	S 35 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec.,5½ ft. dist.,and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling, slight slope to the S.
	Soil, deep, light sandy loam; 1st rate; subsoil, gravel.
	Undergrowth, rabbit brush, 6 to 12 ins. high.
	No timber.
	S. 89° 54'E. on a random line, bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
80.30	Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 25 and 36 in the E. bdy of the Tp. heretofore described.
	Thence I run
	N 89° 55' W. on true line, bet. secs. 25 and 36.
	Over gently rolling land, sloping S. through greasewood.
10.00	Leave greasewood, thence through rabbit brush, bears N. and S.
28.30	Wash, 15 lks. wide, 4 ft. deep, course S.
40.15	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 25 on N. and S 36 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
67.30	Old road, bears NE. and SW., to Sulphur Spring.

Subdivision of T 31 S.,R 14 W.

chains	
80.30	The cor. of secs. 25-26-35 and 36.
	Land, gently rolling.
	Soil, light sandy loam ,24 ins. deep; 1st rate; subsoil loose gravel.
	Undergrowth, E. 10 chs.,greasewood; W. 70 chs.,short rabbit brush.
	No timber.
	N. 0° 01' W. bet. secs. 25 and 26.
	Over gently rolling land, sloping SW.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 26 on W. and S 25 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 23-24-25 and 26, marked on brass cap
	T 31 S S 23 in NW,
	R 14 W S 24 in NE,
	S 25 in SE. and
	S 26 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each secs.,5½ ft. dist.,and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling, slopes to the S.
	Soil, light sandy and gravelly loams; 1st rate; subsoil,,calacreous gravel.
	Undergrowth, scattering short rabbit brush.
	No timber.

Subdivision of T 31 S., R 14 W.

chains	
	S 89° 55' E. on a random line, bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.30	Intersect E. bdy. of the Tp., 2 lks. S. of the cor. of secs. 24 and 25, heretofore described.
	Thence I run, over gently rolling land.
	N. 89° 56' W. on true line, bet. secs. 24 and 25.
40.15	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 24 on N. and S 25 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
43.35	Old sheep road, bears NW. and SE.
60.05	Main Wash, 50 lks. wide, 4 ft. deep, course S.
80.30	The cor. of secs. 23-24-25 and 26.
	Land, gently rolling, sloping S.
	Soil, sandy and fine gravelly loams; 12 to 18 ins. deep; subsoil, gravel.
	Undergrowth, scattering greasewood and rabbit brush, some bunch grass. No timber.
	Sept. 26: At this sec. cor., I set off 1° 06½' S. on the decl. arc; and at 11h 52m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 38° 06'.

N. 0° 01' W. bet. secs. 23 and 24.

	Over gently rolling land.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 23 on W. and S 24 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
42.35	Wash, 60 lks. wide, 8 ft. deep, course SE.

Subdivision of T 31 S., R 14 W.

chains

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 13-14-23 and 24, marked on brass cap

T 31 S S14 in NW,

R 14 W S 13 in NE,

S 24 in SW. and

S 23 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Land, gently rolling.

Soil, sandy and gravelly loams, 1st rate; 2 ft. deep.

Undergrowth, scant short rabbit brush, and some bunch grass.

No timber.

S 89° 56' E. on a random line, bet. secs. 13 and 24.

40.00 Set temp. ¼ sec. cor.

80.24 Intersect E. bdy. of the Tp., 3 lks. S. of the cor. of secs. 13 and 24, heretofore described.

Thence I run

N. 89° 57' W. on true line, bet. secs. 13 and 24.

Over gently rolling land, sloping NE.

40.12 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 13 on N. and S 24 on S. half; dig pits 18 x 18 x 12 ins., N. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.

80.24 The cor. of secs. 13-14-23 and 24.

Land, gently rolling, slopes to the NE.

Soil, deep sandy and gravelly loam, 1st rate.

Subsoil, gravel.

Undergrowth, short white sagebrush and greasewood.

No timber.

Subdivision of T 31 S., R 14 W.

chains	
	N. 0° 01' W. bet. secs. 13 and 14.
	Over gently rolling land, sloping E., through short white sgebrush and bunch grass.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 14 on W. and S 13 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
52.00	Enter rabbit brush, bears E. and W.; thence over slight slope to the SE.
80.00	Set an iron post, 3 ft, long, 2 ins. dia.,24 ins. in the ground, for cor. of secs. 11-12-13 and 14, marked on brass cap
	T 31 S S 11 in NW,
	R 14 W S 12 in NE,
	S 13 in SE. and
	S 14 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec.,5½ ft. dist.,and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling.
	Soil, sandy and gravelly loams, 24 ins. deep; 1st rate.
	Undergrowth, short white sgebrush and bunch grass.
	No timber.

	S 89° 57'E. on a random line, bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.20	Intersect E. bdy.of the Tp.,2 lks. S. of the cor. of secs. 12 and 13, heretofore described.
	Thence I run
	N. 89° 58' W. on true line, bet. secs. 12 and 13.
	Over gently rolling land, sloping E.
40.10	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the

chains	
	ground, for ¼ sec. cor.,marked on brass cap ¼ S 12 on N. and S 13 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
80.20	The cor. of secs. 11-12-13 and 14.
	Land, gently rolling, sloping to the E.
	Soil, light sandy and gravelly loams, 18 to 24 ins. deep; 1st rate; subsoil, gravel of lime formation.
	Undergrowth, short sagebrush and rabbit brush.
	No timber.
	N. 0° 01' W. bet. secs. 11 and 12.
	Over rolling land, sloping SE.
13.25	Old Pioche road, Milford to Modena, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 11 on W. and S 12 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
45.25	Wash, 1 ch. wide, 3 ft. deep, course SE.
48.30	Road, bears W. to Dotson Spr.,and E. and
	Enter hilly land, bears NE. and W.
54.14	Low ridge, bears E. and W.
56.30	Wash, in hollow 60 ft. deep, course E.
	Ascend 125 ft. over S. slope
68.50	Top of volcanic knoll, bears N 20°E. and S 60°W.
	Descend 100 ft. to
76.80	Hollow, course E.
	Ascend 20 ft. to.
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

Subdivision of T 31 S., R 14 W.

chains

T 31 S S 2 in NW,

R 14 W S 1 in NE,

S 12 in SE. and

S 11 in SW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.

Land, S. 48 chs., rolling, slight slope to the E.; N. 32 chs., hilly.

Soil, S ½ mile sandy and gravelly loams; 1st rate; N. ½ mile, stony and rocky; 3rd rate.

Undergrowth, short scattering sagebrush.

No timber. September 26, 1910.

October 3, 1910: At 1h 49m p.m., l.m.t., I set off 38° 08½' on the lat. arc; 3° 51½'S. on the decl. arc; and determine a meridian with the solar transit, at the cor. of secs. 1-2-11 and 12.

Thence I run

S. 89° 58'E. on a random line, bet. secs. 1 and 12.

40.00 Set temp. ¼ sec. cor.

80.17 Intersect E. bdy. of the Tp., 5 lks. N. of the cor. of secs. 1 and 12, heretofore described.

Thence I run

N 89° 56' W. on true line, bet. secs. 1 and 12.

Over gently rolling land, considerable slope to the E.

12.72 Old Pioche stage road, Milford to Modena, bears NE. & SW.

40.00 Road, Lund to Newhouse, bears N 10°E. and S 10°W.

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

Subdivision of T 31 S., R 14 W.

chains	
65.00	Enter hills, bears N. and SW.
72.00	N. end of low spur, bears SW.
75.00	Hollow, course NE.
	Ascend 35 ft. to
80.17	The cor. of secs. 1-2-11 and 12.
	Land, E. 65 chs., rolling, slopes to the E.; soil, gravelly and light sandy loams, 12 to 18 ins. deep: W. 15 chs., hilly, with rocky land, volcanic formation.
	Undergrowth, sagebrush.
	No timber.

N. 0° 01' W. bet. secs. 1 and 2.

	Over rolling mountainous land, facing E.
2.00	Low spur, projects E.
7.45	Hollow, 50 ft. deep, course E.
9.00	Low spur, projects E.
24.50	Wash, 10 lks. wide, 4 ft. deep, course E.
34.00	Draw, course E.
38.00	Spur, 50 ft. high, projects E.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 2 on W. and S 1 on E. half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Note: N. half of this line run and closing cor. erroneously established on the 6th stan. par., Oct. 3, 1910.
	November 18: For reasons as explained in notes of line run bet. secs. 1 & 2, T 31 S., R 12 W, book "G" of this survey. I commence at this ¼ sec. cor. and rerun this line N. 0° 01' W.
42.00	Draw, course E.
46.00	Low spur, projects E.
50.70	Draw, course E.

Subdivision of T 31 S., R 14 W.

chains	
90.00	Draw, 50 ft. deep, course E.
100.60	Hollow, course SE.
109.00	Wash, 35 lks. wide, course SE.
110.93	Intersect Sixth standard parallel south, 5.10 chs. west of the standard cor, of secs. 35 and 36, which is a 3in. iron post, heretofore described.

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

T30S R14W S35 CC S36 on N. half,

S 1 in SE. and

S 2 in SW. quadrant; from which

A pinon, 8 ins.diam.,bears S 56½° E. 110 lks. dist.,marked T31S R14W S1 BT

A pinon,12 ins.diam.,bears S 35¼° W. 50 lks. dist.,marked T31S R14W S2 BT

Land, rolling mountains, near foot of E. slope.

Soil, gravelly and stony, lime formation; 3rd rate.

Undergrowth, short sagebrush. Timber few cedars and pinon about closing corner.

Note: I destroy all trace of closing cor. erroneously established.

Andrew Nelson

Instrumentman G.L.O.

September 26, 1910: At 8h 52m a.m.l.m.t.,I set off 38° 04¼' on the lat. arc; 1° 03'S. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 34 and 35 in the S. bdy. of the tp.,which is a 3in. iron post, 12 ins. above the ground, marked and witnessed as described by the Surveyor General.

Thence I run

N. 0° 01' W. bet. secs. 34 and 35.

Over gently rolling land, slight slope to the S.

Subdivision of T 31 S.,R 14 W.

chains	
22.75	Old road, bears SW. to Sulphur spr.,and NE.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 34 on W. and S 35 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia.,24 ins. in the ground, for cor. of secs. 26-27-34 and 35, marked on brass cap T 31 S S 27 in NW, R 14 W S 26 in NE, S 35 in SE. and S 34 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec.,5½ ft. dist.,and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor. Land, gently rolling, slight slope to the S. Soil, light sandy loam, 2 ft.deep; 1st rate; subsoil gravel. Undergrowth, short rabbit-brush. No timber.
	S. 89° 48' E. on a random line, bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect the N. and S. line, 14 lks. S. of the cor. of secs. 25-26-35 and 36. Thence I run N 89° 54' W. on true line, bet. secs. 26 and 35. Over gently rolling land, sloping S.
40.06	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 26 on N. and S 35 on S. half;xdig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
80.12	The cor. of secs. 26-27-34 and 35.

Subdivision of T 31 S.,R 14 W.

chains.

Land, gently rolling, slight slope to the S.

Soil, sandy loam, 2 ft. deep; 1st rate; subsoil gravelly.

Undergrowth, short rabbit brush.

No timber.

N. 0° 01' W. bet. secs. 26 and 27.

Over gently rolling land, slight slope to the S.

40.00 Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 27 on W. and S 26 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.

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

T 31 S S 22 in NW,

R 14 W S 23 in NE,

S 26 in SE. and

S 27 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec.,5½ ft. dist.,and raise a mound of earth, 4 ft. base. 2 ft. high W. of cor.

Land, gently rolling.

Soil, sandy loam, 12 to 18 ins. deep; 1st rate; subsoil, calcareous gravel.

Undergrowth, short rabbit brush and bunch grass.

No timber.

S 89° 54'E. on a random line, bet. secs. 23 and 26.

40.00 Set temp. ¼ sec. cor.

80.10 Intersect the N. and S. line, 5 lks. S. of the cor. of

chains

secs. 23-24-25 and 26.

Thence I run

N. 89° 56' W. on true line, bet. secs. 23 and 26.

Over gently rolling land, sloping S.

40.05 Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 23 on N. and S 26 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.

80.10 The cor. of secs. 22-23-26 and 27.

Land, gently rolling.

Soil, light sandy and gravelly loams, 12 ins. deep;

Subsoil, lime.

Undergrowth, short rabbit brush. No timber.

Sept. 26: At this sec. cor.,I set off 1° 06½'S. on the decl. arc; and, at 11h 52m a. m. l.m.t.,observe the sun on the meridian; the resulting lat. is 38° 06'.

N. 0° 01' W. bet. secs. 22 and 23.

Over gently rolling land.

40.00 Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 22 on W. and S 23 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.

40.78 Old Pioche stage road, Milford to Modena,bears NE. & SW.

65.00 Enter low rolling hills and stony ground, bears NE. & SW.

78.41 Old road, bears NE. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 14-15-22 and 23, marked on brass cap

Subdivision of T 31 S.,R 14 W.

chains	
	T 31 S S 15 in NW,
	R 14 W S 14 in NE,
	S 23 in SE. and
	S 22 in SW. quadrant; raise a mound of stone,
	2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Land, S. 65 chs.,gently rolling,slight slope to the S.;
	soil,light sandy and gravelly loams, 12 ins. deep:
	N. 15 chs.,low rolling stony hills.
	Undergrowth, short rabbit brush and some bunch grass.
	No timber.
	S. 89° 56'E. on a random line; bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect the N. and S. line, 3 lks. N. of the cor. of
	secs. 13-14-23 and 24.
	Thence I run
	N. 89° 55' W. on true line, bet. secs. 14 and 23.
	Over gently rolling land, slight slope to the E.,
	through short undergrowth of white sage and bunch grass.
40.03	Set an iron post, 3 ft. long, 1 in.dia.,20 ins. in the
	ground, for ¼ sec. cor., marked on brass cap ¼ S 14 on
	N. and S 23 on S. half; dig pits 18 x 18 x 12 ins., E.
	and W. of post, 3 ft. dist.,and raise a mound of earth,
	3½ ft. base, 1½ ft. high N. of cor.
50.00	Enter wash, 10 ft.deep, course SE.
51.60	Leave wash, course SE.
65.40	Old Pioche stage road, Milford to Modena,bears NE. & SW.
67.10	Old road, bears NE. and SW.
	Thence over more rolling land.
80.06	The cor. of secs. 14-15-22 and 23.
	Land, gently rolling, slight slope to the E.
	Soil, light sandy and gravelly loams, 12 ins. deep, and
	some stony near W. end. Subsoil, calcareous gravel.

chains	
	Undergrowth, short white sage and some bunch grass.
	No timber.

N. 0° 01' W. bet. secs. 14 and 15.

	Over rolling hills, through dense short undergrowth of white sage.
6.00	Main wash, 2 chs. wide, 8 ft. deep, course SE.
	Gradually ascend.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 15 on W. and S 14 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
	Ascend 50 ft. to
53.00	Spur, projects SE.; descend 80 ft.
58.00	Ravine, course SE.; ascend 90 ft. to
68.00	Spur, projects SE.
	Descend 100 ft. along land, facing NE.
79.50	Ravine, course SE.; ascend 10 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 10-11-14 and 15, marked on brass cap

T 31 S S 10 in NW,

R 14 W S 11 in NE,

S 14 in SE. and

S 15 in SW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.

Land, rolling mountainous.

Soil, coarse gravelly and stony, 8 ins.deep; 3rd rate; subsoil, decomposed granite rock and rocky.

Undergrowth, short white sagebrush.

No timber.)

Subdivision of T 31 S., R 14 W.

chains	
	S. 89° 55'E. on a random line, bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect the cor. of secs. 11-12-13 and 14.
	Thence I run
	N. 89° 55' W. on true line, bet. secs. 11 and 14.
	Over rolling land, sloping SE.
11.26	Old Pioche stage road, Milford to Modena, bears NE. & SW.
40.02	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor.; marked on brass cap ¼ S 11 on N. and S 14 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
50.00	Enter mountainous land, bears NE. and SW.
	Ascend 175 ft. over land, facing nearly E.
72.00	Spur, projects SE.
	Descend abruptly 200 ft. to
80.04	The cor. of secs. 10-11-14 and 15.
	Land, E. 40 chs., rolling, sloping to the SE.; soil, sandy and gravelly loams, 12 ins. deep, subsoil, gravel: W. 40 chs., mountainous, with stony and rocky soil.
	Undergrowth, short sagebrush on mile.
	No timber.

September 26, 1910

Walter A. Stumm

Instrumentman G. L. O.

October 3, 1910: At 9h 49m a.m., l.m.t., I set off 38° 07½' on the lat. arc; 3° 47½' S. on the decl. arc; and determine a meridian with the solar transit, at the cor. of secs. 10-11-14 and 15.

Thence I run

chains	
	N. 0° 01' W. bet secs. 10 and 11.
	Over rolling mountainous land, through short sagebrush.
.25	Ravine, course SW.
3.50	Same ravine, course SE.
	Thence ascend along land, facing SW.,over stony ground.
34.00	Ridge, 100 ft. above the sec. cor.,bears E. and W.
	Gradually descend, NW. slope.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 10 on W. and S 11 on E. half; raise a mound of stone, 2 ft, base, 1½ ft. high W. of cor. Pits impracticable.
42.00	Descend 100 ft. abruptly over N. slope.
47.00	Wash,and base of descent, 40 lks. wide, 3 ft. deep, course E.
	Gradually ascend over land, facing S.
50.60	Wash, 10 lks. wide, 3 ft. deep, course SE.
52.10	Old sheep road, bears SW. to Dotson Spr.,and NE.
71.75	Old road, bears NW. and SE.
80.00	Set an iron post, 3 ft.long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 2-3-10 and 11, marked on brass cap
	T 31 S S 3 in NW.
	R 14 W S 2 in NE,
	S 11 in SE. and
	S 10 in SW. quadrant; from which
	A cedar, 12 ins.diam.,bears N 83½°E. 154 lks. dist.,marked T31S R14W S2 BT
	A cedar,10 ins.diam.,bears S 84½° E. 74 lks. dist.,marked T31S R14W S11 BT
	A cedar,12 ins.diam.,bears N 35½° W. 119 lks. dist.,marked T31S R14W S3 BT
	and also raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Note: No trees in sec. 10.

chains	
	Land, rolling mountainous.
	Soil, coarse gravelly and stony; 2nd and 3rd rates.
	Undergrowth, short black sagebrush.
	Timber, few scattering cedars about the sec. cor.
	S. 89° 55'E. on a random line, bet secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the N. and S. line, 2½ lks. S. of the cor. of secs. 1-2-11 and 12.
	Thence I run
	N. 89° 56' W. on true line, bet. secs. 2 and 11.
	Over rolling mountainous land, general slope to the S.
	Descend 20 ft.
2.20	Hollow, 50 ft. deep, course SE.; ascend
6.00	Low ridge, bears NW.,and SE. 2 chs.
	Thence gradually ascend over land, facing nearly S.
32.00	Enter few scattering mahoganys and pinons.
	Ascend more abruptly, over land, facing nearly SE.
40.00	On S slope.
	Set an iron post, 3 fts long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 2 on N. and S 11 on S. half; from which
	A pinon, 6 ins.diam.,bears N. 78½° E. 104 lks. dist.,marked ¼ S 2 B T ; and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
	Note: No tree within limits in sec. 11.
	Continue gradual ascent.
43.00	Spur, 250 ft. above the sec. cor.,projects S.
	Descend 25 ft.
45.00	Draw, course S.; ascend 60 ft. to
51.00	Spur, projects S.

Subdivision of T 31 S., R 14 W.

chains

52.70 Hollow, course S.

Ascend 100 ft. to

61.00 Top of spur, projects S., and leave timber, bears N. & S.

Descend W. slope, 150 ft. to

68.30 Hollow course S.; ascend 35 ft. to

72.00 Low long ridge, bears N. and S.

Thence gently descend.

79.60 Wash, 30 lks. wide, 3 ft. deep, course S.E.

80.00 The cor. of secs. 2-3-10 and 11.

Land, mountainous.on mile.

Soil, coarse gravelly and rocky; 3 rd rate.

Timber, few scattering mahogany and pinon on 29 chs.

Undergrowth, scattering sagebrush.

October 3: At this sec. cor.,I set off 3° 49½'S. on the decl. arc; and, at 11h 49m a.m.,l.m.t., observe the sun on the meridian; the resulting lat. is 38° 08½'.

October 4,1910: At 3h 49m p.m.,l.m.t.,I set off 38° 08½' on the lat. arc; 4° 16'S. on the decl. arc; and determine a meridian with the solar transit, at the cor. of secs. 2-3-10 and 11.

Thence I run

N. 0° 01' W. on true line, bet. secs. 2 and 3.

Over rolling land, considerable slope to the E., gradually ascend, through few scattering cedars.

1.00 Wash, 20 lks. wide, 2 ft.deep, course SE.

21.00 Wash, 10 lks. wide, 2 ft. deep, course SE.

40.00 On gentle E. slope.

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

Subdivision of T 31 S., R 14 W.

chains	
	W. and S 2 on E. half; from which
	A pinon, 8 ins.diam., bears S 57½° W. 320 lks. dist., marked ¼ S 3 B T
	A cedar, 10 ins.diam., bears N. 63½°E. 72 lks. dist., marked ¼ S 2 B T
	Note: N. half of this mile run and closing cor. erroneously established on the 6th stan. par., Oct. 4, 1910.
	November 18: For reasons as explained in notes of line run bet. secs. 1 and 2, T 31 S., R 12 W., book "G" of this survey. I commence at this ¼ sec. cor. and re-run this line N. 0° 01'W.
58.00	Wash, 12 lks. wide, 3 ft. deep, course SW.
68.00	Wash, 15 " " " " " " SW.
110.94	Intersect the 6th. standard parallel south, 5.13 chs. west of the standard cor. of secs. 34 and 35, which is a 3 in. iron post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground, for closing cor. of secs. 2 and 3, marked on brass cap
	T 30 S R 14 W S 34 C C S 35 on N. half,
	S 2 in SE. and
	S 3 in SW. quadrant; from which
	A pinon, 5 ins.diam., bears S 20° E. 193 lks. dist., marked T 31 S R 14 W S 2 B T
	A pinon, 5 ins.diam., bears S 1¾° W. 367 lks. dist., marked T31S R14W S3 BT
	Note: I destroy all trace of closing cor. erroneously established on Oct. 4.
	Land, rolling, faces to the S.
	Soil, coarse gravelly and stony; 2nd and 3rd rates.
	Timber, few scattering cedars and pinon on mile.
	Undergrowth, short sagebrush and some bunch grass.

chains	
	September 27, 1910: At 8h 21m a.m., l.m.t., I set off 38° 04½' on the lat. arc; 1° 26'S. on the decl. arc; and determine a meridian with the solar transit, at the cor. of secs. 33 and 34, which is a 3in. iron post, 12 ins. above the ground, firmly set, marked and witnessed as described by the Surveyor General.
	Thence I run
	N. 0° 02' W. bet. secs. 33 and 34.
	Over gently rolling land, sloping S., through short shadscale undergrowth.
16.00	Leave shadscale and enter rabbitbrush and some greasewood bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 33 on W. and S 34 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
56.00	Leave rabbit brush and greasewood, enter short black sagebrush, 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. 27-28-33 and 34, marked on brass cap
	T 31 S S 28 in NW,
	R 14 W S 27 in NE,
	S 34 in SE. and
	S 33 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling.
	Soil, deep sandy loam; 1st rate; subsoil, gravelly.
	Undergrowth, shadscale, sagebrush, rabbit brush and some greasewood.
	No timber.

Subdivision of T 31 S., R 14 W.

chains	
	S. 89° 48'E. on a random line, bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
80.30	Intersect the N. and S. line, 7 lks. S. of the cor. of secs. 26-27-34 and 35.
	Thence I run
	N. 89° 51' W. on true line, bet. secs. 27 and 34.
	Over gently rolling land, slight slope to the S.
26.30	Wash, 25 lks. wide, 1 ft.deep, course S.
40.15	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 27 on N. and S 34 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
69.76	Road, bears N. to Dotson Spr.,and S. to Lund.
80.30	The cor. of secs. 27-28-33 and 34.
	Land, gently rolling.
	Soil, deep sandy loam; 1st rate.
	Undergrowth, short rabbit and sage brush.
	No timber.

N. 0° 02' W. bet. secs. 27 and 28.

	Over gently rolling land, slight slope to the S.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 28 on W. and S 27 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
49.75	Old Pioche stage road,Milford to Modena,bears NE. & SW.
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 21-22-27 and 28, marked on brass cap

chains

T 31 S S 21 in NW,

R 14 W S 22 in NE,

S 27 in SE. and

S 28 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Land, gently rolling.

Soil, sandy and gravelly loams; 1st rate; subsoil gravel.

Undergrowth, short sage and some rabbit brush.

No timber.

S. 89° 51'E. on a random line, bet secs. 22 and 27.

40.00 Set temp. ¼ sec. cor.

80.29 Intersect the N. and S. line, 2½ lks. N. of the cor. of secs. 22-23-26 and 27.

Sept. 27: At this sec. cor., I set off 1° 29¾'S. on the decl. arc; and, at 11h 51m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38° 06'.

Thence I run

N. 89° 50' W. on true line, bet. secs. 22 and 27.

Over gently rolling land, sloping to the S.W.

40.14½ Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 22 on N. and S 27 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.

51.70 Old Pioche stage road, Milford to Modena, bears NE. & SW.

61.95 Road, Lund to Dotson Spr., bears N. and S.

80.29 The cor. of secs. 21-22-27 and 28.

Land, gently rolling.

Soil, light gravelly loam, 12 to 18 ins. deep; 1st rate.

Undergrowth, short sage and rabbit brush. No timber.

Subdivision of T 31 S., R 14 W.

chains	
	N. 0° 02' W. bet. secs. 21 and 22.
	Over gently rolling land, sloping SW.
17.80	Small wash, 10 lks. wide, 1 ft. deep, course SW.
22.00	Small wash, course SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 21 on W. and S 22 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
53.22	Road, bears SW. to Paramore Spr., and NE.
72.00	Wash, 15 lks. wide, course SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 15-16-21 and 22, marked on brass cap T 31 S S 16 in NW, R 14 W S 15 in NE, S 22 in SE. and S 21 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, gently rolling, sloping to the SW.
	Soil, dark gravelly loam, 12 to 18 ins. deep.
	Undergrowth, short black sage and rabbit brush, 1 to 2 ft. high.
	No timber.

	S. 89° 50' E. on a random line, bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.25	Intersect the N. and S. line, 3 lks. S. of the cor. of secs. 14-15-22 and 23.
	Thence I run

Subdivision of T 31 S.,R 14 W.

chains	
	N. 89° 51' W. on true line; bet. secs. 15 and 22.
	Over gently rolling land, slight slope to the S.
40.12½	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 15 on N. and S 22 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
42.17	Old road, bears NW. and SE.
56.75	Road, Lund to Dotson Spr.,bears N. and S.
80.25	The cor. of secs. 15-16-21 and 22.
	Land, gently rolling, slopes to the S.
	Soil, dark gravelly loam; 2nd rate; subsoil hardpan of gravel, lime formation.
	Undergrowth, black sage and rabbit brush, 1 to 2 ft.high.
	No timber.
	September 27, 1910.

October 3, 1910: At 6h 49m a.m.,l.m.t., I set off 38° 06½' on the lat. arc; 3° 42'S. on the decl. arc; and determine a meridian with the solar transit, at the cor. of secs. 15-16-21 and 22.

Thence I run

N. 0° 02' W. bet. secs. 15 and 16.

chains	
	Over rolling land, gentle slope to the SE., through short black sagebrush. gravelly loam soil.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 16 on W. and S 15 on E. half; dig pits 18 x 18 x 12 ins.,N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.

Subdivision of T 31 S., R 14 W.

chains	
51.60	Main Wash, 50 lks. wide, 4 ft. deep, course SE., and Road, Lund to Dotson spr., bears NW. and SE. Thence across hollow.
66.00	Leave hollow and enter hilly land, bears NW. and SE. Ascend 200 ft. over SW. slope to
80.00	On top of bench. Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground, for cor. of secs. 9-10-15 and 16, marked on brass cap T 31 S S 9 in NW, R 14 W S 10 in NE, S 15 in SE. and S 16 in SW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. Land, S. 66 chs., rolling, gentle slope to the SE.; soil, dark gravelly, 12 ins. deep, 2nd rate: N. 14 chs., hilly on SW. slope; soil, coarse gravelly and stony, washed on slope; 3rd rate. Undergrowth, short black sagebrush, some greasewood along hollow. No timber.

	S. 89° 51'E. on a random line, bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.28	Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 10-11-14 and 15. Thence I run N. 89° 52' W. on true line, bet. secs. 10 and 15. Over hilly land, through short sagebrush. Descend 10 ft. to
.20	Hollow, course SE.

chains	
	Ascend 75 ft. over NE. slope.
12.00	Spur projects N.; thence along land, facing N.
20.00	Top of low ridge, bears NW. and SE.
25.50	Draw, 50 ft. deep, course S.
	Ascend
40.14	On E. slope.
	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 10 on N. and S 15 on S. half; raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.
42.00	Ridge, bears NW. and SE.
	Descend 75 ft. to
53.30	Hollow, course SE.; ascend 40 ft.
59.00	Low spur, projects SE.
80.28	The cor. of secs. 9-10-15 and 16.
	Land, hilly, general slope to the S.
	Soil, shallow coarse gravelly and stony; 3rd rate.
	Undergrowth, short black sagebrush. No timber.

Note: Oct. 4,1910: Heavy sand and wind storm prevents field work during a. m.

October 4: At 1h.49m p.m.,l.m.t.,I set off 38° 07½' on the lat. arc; 4° 14¾'S. on the decl. arc; and determine a meridian with the solar transit, at the cor. of secs. 9-10-15 and 16.

Thence I run

N. 0° 02' W. bet. secs. 9 and 10.

chains	
	Over rolling bench land.
3.50	Low spur, projects SE.
9.00	Head of small hollow, drains SE.

Subdivision of T 31 S., R 14 W.

chains	
18.00	Low ridge, bears NW. and SE.
	Thence over land, facing NW.
38.00	Head of small hollow, drains W., and enter scattering cedars and pinon, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 9 on W. and S 10 on E. half; from which
	A cedar, 8 ins.diam.,bears S 78½°E. 31 lks. dist.,marked ¼ S 10 B T
	A cedar, 8 ins.diam.,bears S 36¾° W. 104 lks. dist.,marked ¼ S 9 B T
40.60	Road, bears SW. to Dotson spr.,and E.,leave timber,E & W.
44.00	Low ridge, bears E. and W.
	Thence over rolling land with slope to the E.
80.00	Set an iron post., 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 3-4-9 and 10, marked on brass cap
	T 31 S S 4 in NW,
	R 14 W S 3 in NE,
	S 10 in SE. and
	S 9 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec.,5½ ft. dist.,and raise a mound of earth, 4 ft. base, 2½ ft. high W. of cor.
	Land, rolling and low hills.
	Soil, gravelly and some light sandy loam, 12 to 18 ins. deep; 2nd rate; subsoil, gravel hardpan of lime formation
	Undergrowth, short sagebrush. Timber some scattering cedar and pinon about the ¼ sec. cor.

S. 89° 52'E. on a random line, bet. secs. 3 and 10.

Subdivision of T 31 S., R 14 W.

chains	
40.00	Set temp. ¼ sec. cor.
80.25	Intersect the N. and S. line, 7 lks. S. of the cor. of secs. 2-3-10-and 11.
	Thence I run
	N. 89° 55' W. on true line, bet. secs. 3 and 10.
	Over rolling land with slope to the S.
6.90	Wash, 10 lks. wide, 1 ft. deep, course S.
26.65	Wash, 20 lks. " 2 " " " S.
40.12½	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 3 on N. and S 10 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
	Thence over land with gentle SE. and E. slope.
51.45	Wash, 50 lks. wide, 2 ft. deep, course SE.
80.25	The cor. of secs. 3-4-9 and 10.
	Land, rolling, general slope to the S. and SE.
	Soil, loose gravelly loam, 12 ins. deep; 2nd rate.
	Undergrowth, short black sagebrush. No timber.

Andrew Nelson

Instrumentman G.L.O.

October 5, 1910: At 9h 49m a.m., l.m.t., I set off 38° 08½' on the lat. arc; 4° 34' S. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 3-4-9 and 10.

Thence I run

N. 0° 02' W. bet. secs. 3 and 4.

Over rolling land, sloping S.

Subdivision of T 31 S.,R 14 W.

chains	
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 4 on W. and S 3 on E. half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Note: N. half of this mile run and and closing cor. established on erroneous 6th stan. par. S., Oct. 5th.
	November 18: For reasons as explained in notes of line run bet. secs. 1 and 2, T 31 S.,R 13 W.,book "G" of this survey. I commence at this ¼ sec. cor. and re-run this line, N. 0° 02' W.
110.76	Intersect the Sixth standard parallel south, 5.42 chs. west of the standard cor. of secs. 33 and 34, which is a 3in. iron post, heretofore described.
	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for closing cor. of secs. 3 and 4, marked on brass cap
	T 30 S R 14 W S 33 C C S 34 on N. half,
	S 3 in SE. and
	S 4 in SW. quadrant; from which
	A pinon,14 ins.diam.,bears S 80½° W. 237 lks. dist.,marked T31S R14W S4 BT ; and dig pits 24 x 18 x 12 ins.,crosswise on each line, E. and W., 3 ft.,and S. of post, 7 ft. dist.,and raise a mound of earth, 4 ft. base, 2 ft. high S. of cor.
	Land, rolling, sloping to the S.
	Soil, gravelly, with gravelly and stony subsoil, of limeformation.
	Undergrowth, short sagebrush. Timber few cedar and pinon about the closing cor.
	Note: I destroy all trace of closing cor. erroneously established.

Subdivision of T 31 S., R 14 W.

chains

September 27, 1910: At 8h 21m a.m., l.m.t., I set off 78° 04½' on the lat. arc; 1° 26'S. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 32 and 33 in the S. bdy. of the Tp., which is a 3in. iron post, 12 ins. above the ground, firmly set, marked and witnessed as described by the Surveyor General.

Thence I run

N. 0° 03' W. bet. secs. 32 and 33.

Over gently rolling land, sloping SE., through dense short shadscale and greasewood.

20.54 Old Pioche road, Milford to Modena, bears NE. and SW.

32.00 Wash. 10 lks. wide, 1 ft. deep, course SE.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 32 on W. and S 33 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.

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

T 31 S S 29 in NW,

R 14 W S 28 in NE,

S 33 in SE, and

S 32 in SW. quadrant; dig pits 18 x 18 x 12 ins. in each sec., 5½ ft. dist., and raise a mound, of earth, 4 ft. base, 2 ft. high W. of cor.

Land, gently rolling, sloping to the SE.

Soil, gravelly and stony, 10 ins. deep; 2nd rate.

Undergrowth, sage brush, shadscale and grease-wood.

No timber.

Subdivision of T 31 S.,R 14 W.

chains	
	S. 89° 48'E. on a random line, bet secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
80.48	Intersect the N. and S. line, 7 lks. S. of the cor. of secs. 27-28-33 and 34.
	Thence I run
	N. 89° 51' W. on true line, bet. secs. 28 and 33.
	Over nearly level land.
5.64	Wash, 15 lks. wide, 6 ft. deep, course SW.
40.24	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 28 on N. and S 33 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
	Thence over rolling land, with slope to the SE.
41.60	Old Pioche road, Milford to Modena, bears NE. and SW.
59.30	Wash, 20 lks. wide, 8 ft. deep. course SE.
80.48	The cor. of secs. 28-29-32 and 33.
	Land, E. half, nearly level; soil sandy loam, 24 ins. deep, with calcareous gravel subsoil: W. 40 chs., rolling, slopes to the SE.,with coarse gravelly and stony soil, 6 to 12 ins.deep.
	Undergrowth,short white sagebrush and grease-wood.
	No timber.
	N. 0° 03' W. bet. secs. 28 and 29.
	Over rolling land, facing SE.
14.65	Wash, 15 lks. wide, 3 ft. deep, course SE.
22.78	Wash, 20 lks. wide, 4 ft. deep, course SE.
34.87	Wash, 10 lks. wide, 4 ft. deep, course SE., and
	Base of mountainous land, bears NE. and SW.
	Ascend 15 ft. to

chains	
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 29 on W. and S. 28 on E. half; dig pits 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high W. of cor.
	Continue ascent of 85 ft.
54.00	Spur, projects SE.; descend 30 ft. to
56.95	Ravine, course SE.; ascend 40 ft. to
62.00	Spur, projects SE.; descend 30 ft.
64.06	Ravine, course SE.; ascend 60 ft.
72.00	Spur, projects SE.; decsend 40 ft.
74.00	Ravine, course SE.; ascend 50 ft. to
79.50	Spur, projects, NE. descend.
80.00	On NE. slope.
	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked on brass cap
	T 31 S S 20 in NW,
	R 14 W S 21 in NE,
	S 28 in SE. and
	S 29 in SW. quadrant; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Land, S. 35 chs.,rolling, sloping to the SE.; soil, gravelly,1 ft. deep: N. 45 chs.,rolling mountainous, SE. slope, rocky quartzite soil, 4th rate.
	Undergrowth, shadscale and sagebrush. No timber.
	Sept. 27: At this sec. cor.,I set off 1° 29¾'S. on the decl. arc; and, at 11h 51m a.m.,l.m.t., observe the sun on the meridian; the resulting lat. is 38° 06'.

Subdivision of T 31 S., R 14 W.

chains	
	S. 89° 51'E. on a random line, bet secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
80.46	Intersect the cor. of secs. 21-22-27 and 28.
	Thence I run
	N. 89° 51' W. on true line, bet. secs. 21 and 28.
	Over rolling land, sloping SE.
18.50	Wash, 40 lks. wide, 7 ft. deep, course SE.
40.22	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 21 on N. and S 28 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.,and raise a mound of earth, 2½ ft. base, 1½ ft. high N. of cor.
70.00	Wash, 50 lks. wide, 3 ft. deep, course SE.,and foot of mountainous land, bears NE. and SW.
	Ascend over quartzite boulders, 170 ft. to
80.46	The cor. of secs. 20-21-28 and 29.
	Land, E. 70 chs.,rolling, with SE. slope; soil, gravelly loam, 2nd rate: W. 10 chs.,E. slope of ridge; rocky,soil.
	Undergrowth, short sagebrush.
	No timber.

N. 0° 02' W. bet. secs. 20 and 21.

Over mountainous land, through black brush.

Descend N. slope 110 ft. to

6.00 Ravine, course E.

8.00 Road, bears SW. to Paramore spr.,and NE. to Dotson spr.

Ascend 90 ft. to

38.00 Ridge, bears NW. and SE.; descend 30 ft. to

39.50 Enter scattering cedar and pinon, bears NE. and SW.

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

chains	
	A cedar, 5 ins.diam., bears N 12½° E. 321 lks. dist., marked ¼ S 21 B T
	A cedar, 6 ins.diam., bears N 42° W. 47 lks. dist., marked ¼ S 20 BT
	Descend 30 ft. to
46.00	Ravine, course SE.
54.00	Enter dense timber, bears NW. and SE.
67.00	Ridge, bears NE. and SW.
72.55	Ravine, course SW.
74.00	Leave dense and enter scattering 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. 16-17-20 and 21, marked on brass cap
	T 31 S S 17 in NW,
	R 14 W S 16 in NE,
	S 21 in SE. and
	S 20 in SW. quadrant; from which
	A cedar, 6 ins.diam., bears N. 52° E. 68 lks. dist., marked T31S R14W S16 BT
	A cedar, 20 ins.diam., bears S. 60½° E. 154 lks. dist., marked T31S R14W S21 BT
	A cedar, 10 ins.diam., bears S. 41° W. 211 lks. dist., marked T31S R14W S20 BT
	A cedar, 24 ins.diam., bears N 81½° W. 188 lks. dist., marked T31S R14W S17 BT
	Land, rolling mountainous, general E. slope.
	Soil, stony and some gravelly; 3rd rate.
	Timber, cedar and pinon on N. half mile.
	Undergrowth, scattering black-brush.

Subdivision of T 31 S., R 14 W.

chains	
	S. 89° 51' E. on a random line, bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
80.48	Intersect the N. and S. line, 7 lks. N. of the cor. of secs. 15-16-21-and 22.
	Thence I run
	N. 89° 48' W. on true line, bet. secs. 16 and 21.
	Over rolling land, sloping SE., through undergrowth of short sagebrush.
22.50	Wash, 10 lks. wide, 4 ft. deep, course SE.
	Ascend 30 ft. to
34.50	Low spur, projects SE.; enter hilly land, bears N. & SW.
	Descend 40 ft.
36.00	Ravine, course SE.
40.24	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 16 on N. and S 21 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
	Ascend 40 ft. to
52.50	Spur, projects NW.; enter scattering cedar timber, bears NE. and SW.
	Descend 40 ft. to
66.50	Ravine, course NE.; ascend 60 ft.
80.48	The cor. of secs. 16-17-20 and 21.
	Land, E. 35 chs., rolling, with gentle SE. slope; soil, gravelly, 12 ins. deep: W. 45 chs., low rolling hills, rocky soil; 4 th rate.
	Undergrowth, short sagebrush: timber, commencing W. 27.98 chs.
	Timber, scattering cedar and pinon, on W. 27.98 chs.

chains

N. 0° 03' W. bet. secs. 16 and 17.

Over rolling mountainous land, through dense forest of cedar and scattering pinon.

Gradually ascend.

28.00 Foot of granite ridge, bears NE. and SW.

Ascend over solid rock slope, 100 ft.

35.00 Ridge, bears NE. and SW.; descend 40 ft.

40.00 On steep rocky slope.

Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 17 on W. and S 16 on E. half; from which

A pinon, 10 ins.diam.,bears S 3½° E. 44 lks. dist.,marked ¼ S 16 B T

A pinon, 10 ins.diam.,bears S 31½° W. 77 lks. dist.,marked ¼ S 17 B T

September 27, 1910.

October 1,1910: At 7h 50m a.m.,l.m.t., I set off 38° 07¼' on the lat. arc; 2° 58½'S. on the decl. arc; and determine a meridian with the solar compass, at the ¼ cor. of secs. 16 and 17.

Thence I run N. 0° 03' W.

Ascend 60 ft. along W. slope

44.00 Top of ridge, bears N. and S 20°E.

Thence along top of ridge.

66.00 Leave ridge, bears S. and W. ,leave timber, bears E & W.

Descend 100 ft. to

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

T 31 S S 8 in NW,

R 14 W S 9 in NE,

S 16 in SE. and

S 17 in SW., quadrant; from which

Subdivision of T 31 S., R 14 W.

chains	
	A cedar, 8 ins.diam., bears N 74° E. 142 lks. dist., marked T31S R14W S9 BT., and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
	Note: No other trees within limits in remaining secs.
	Land, mountainous.
	Soil, stony and rocky; 3rd and 4th rates.
	Timber, cedar and pinon on S. 66 chs.
	Undergrowth, scattering short sagebrush.

	Note: Heavy sand and wind storm prevents field work in a.m. on Oct. 4th.
	October 4, 1910: At 1h 49m p.m., l.m.t., I set off 38° 07½' on the lat. arc; 4° 14¾'S. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 8-9-16 and 17.
	Thence I run
	S. 89° 48'E. on a random line, bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
80.47	Intersect the N. and S. line, 14 lks. S. of the cor. of secs. 9-10-15 and 16.
	Thence I run
	N. 89° 54' W. bet. secs. 9 and 16 on true line.
	Over hilly land, through short sagebrush.
2.00	Descend 130 ft. over SW. slope
7.50	Base of hills, bears NW. and SE.
	Thence across hollow.
15.50	Enter wash, course SE.
18.50	Leave wash, course SE.
21.80	Road, Lund to Dotson spr., bears NW. and SE.
22.50	Leave hollow and base of spur, bears NW. and SE.

Subdivision of T 21 S., R 14 W.

chains

Ascend 60 ft. to

35.50 Top of spur, projects SE.

39.00 Enter scattering cedars, bears NE. and S.

40.23½ Set an iron post, 3 ft. long, 1 in.dia., 25 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 9 on N. and S 16 on S. half; raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.

Note: No trees within limits suitable as bearing trees.

55.00 Ravine, course SE.

Gradually ascend.

60.47 The cor. of secs. 8-9-16 and 17.

Land, low rolling hills, general slope to the S. and SE.

Soil, gravelly and stony, 2nd and 3rd rates.

Undergrowth, short black sagebrush on mile.

Timber, scattering cedars on W. 41.47 chs.

N. 0° 03' W. bet. secs. 8 and 9.

Over mountainous land, through few scattering cedars, and undergrowth of short sagebrush.

Descend 75 ft. to

20.00 Ravine, course NE.; ascend 15 ft.

21.00 Leave scattering timber, bears SE. and W.

26.00 Spur, projects NE.; descend 20 ft.

30.00 Ravine, course NE.

Ascend 125 ft. to

40.00 Set an iron post, 3 ft. long, 1 in.dia., 25 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 8 on W. and S 9 on E. half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.

41.00 Ridge, bears SE. and SW.

Subdivision of T 31 S.,R 14 W.

chains	
	Descend 150 ft. to
60.00	Main ravine, course SE.
70.00	Road, Lund to Dotson spr.,bears SE. and W.
73.00	Enter scattering cedar timber, bears E. and W.
	Gradually ascend.
76.00	Low spur. projects SE.; descend 20 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 4-5-8 and 9, marked on brass cap
	T 31 S S 5 in NW,
	R 14 W S 4 in NE,
	S 9 in SE. and
	S 8 in SW. quadrant; from which
	A cedar, 4 ins.diam.,bears N 43¼° E. 84 lks. dist.,marked T31S R14W S4 BT
	A cedar, 8 ins.diam.,bears S 33⅛° E. 135 lks. dist.,marked T 31 S R 14 W S 9 B T.
	A cedar,14 ins.diam.,bears S 76¼°W. 186 lks. dist.,marked T31S R14W S8 BT
	A cedar,16 ins.diam.,bears N. 66¼° W. 240 lks. dist.,marked T31S R14W S5 BT
	Land, mountainous.
	Soil, gravelly and stony; 3rd rate.
	Undergrowth, short black sagebrush.
	Timber, scattering cedar on S. 21 chs. and on N. 7 chs.

This 5th day of October, 1910, I employ George Nelson, to perform the duties of cornerman. No officer authorized to administer oaths, other than myself, being available, without great inconvenience, delay, and expense, I administer the required preliminary oath.

Andrew Nelson
Instrumentman G.L.O.

chains	
	October 5, 1910: 7h 49m a.m.,l.m.t., I set off 38° 08½' on the lat. arc; 4° 31¼'S. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 4-5-8 and 9.
	Thence I run
	S. 89° 54'E. on a random line, bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
80.48	Intersect the cor. of secs. 3-4-9 and 10.
	Thence I run
	N. 89° 54' W. on true line, bet. secs. 4 and 9.
	Over mountainous land, through short sagebrush.
	Gently ascend.
8.50	Foot of sandstone ridge, bears N. and S.
	Ascend 125 ft. over rocky E. slope.
30.50	Top of high white sandstone ridge, bears N. and S.
	Descend 350 ft. over series of small ledges, bearing N. and S.
38.50	Wash, 40 lks. wide, 2 ft. deep, in ravine, course S.
40.24	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 4 on N. and S 9 on S. half; dig pits 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.,and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
44.90	Road, Lund to a ranch, bears N. and S.
	Thence over rolling mountainous land, facing S.
	Ascend 250 ft. over broken land.
62.50	Ridge, bears NW. and SE.
	Descend 225 ft. to
78.50	Ravine, course SE.; ascend 15 ft. to
80.48	The cor. of secs. 4-5-8 and 9.
	Land, mountainous.
	Soil, rocky and coarse gravel; 4th and 2nd rates.

chains	
	Undergrowth, scattering short sagebrush. No timber.
	October 4th:
	N. 0° 03' W. bet. secs. 4 and 5. on true line. Over rolling mountainous land, through scattering cedars and dense short sagebrush.
3.00	Ravine, course SE.; ascend 70 ft. to
16.00	Spur, projects SW.; descend 40 ft.
20.00	Ravine. course SW.; ascend 15 ft.
36.00	Low spur, projects W.; descend 10 ft.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,36 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 5 on W. and S 4 on E. half; from which
	A cedar,14 ins.diam.,bears N. 74° E. 106 lks. dist.,marked ¼ S 4 B T
	A cedar,12 ins.diam.,bears N. 20° W. 46 lks. dist.,marked ¼ S 5 B T
	October 4, 1910.
	Note: N. half of this mile run and closing cor. established on erroneous 6th stan. par. S.,Oct. 5th.
	November 19: For reasons as explained in notes of line run bet. secs. 1 and 2, T 31 S.,R 12 W.,book "G" of this survey. I commence at this ¼ sec. cor. and re-run this line, N. 0° 03'W.
	Thence over rolling land, facing S.,through dense forest of cedar.
86.58	Wash, 50 lks. wide. 3 ft. deep, course SE.
110.56	Intersect the Sixth standard parallel south, 6.00 chs. west of the standard cor. of secs. 32 and 33, which is a 3in. iron post, heretofore described.

chains

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

T 30 S R 14 W S32 C C S 33 on N. half,

S 4 in SE. and

S 5 in SW. quadrant; from which

A pinon,12 ins.diam.,bears S. 15° E. 38 lks. dist.,marked T31S R14W S4 BT

A pinon,12 ins.diam.,bears S. 42½° W. 51 lks. dist.,marked T31S R14W S5 BT

Note: I destroy all trace of closing cor. erroneously established.

Land, S. 40 chs.,rolling mountainous, general SW. slope; N. 70 chs.,rolling land, sloping to the SW.

Soil, coarse,gravelly and stony; 3rd rate.

Timber, S. 40 chs.,scattering and N. 70 chs.,dense cedars and some pinon.

Undergrowth, dense short sagebrush.

September 28, 1910: At 7h 51m a.m.,.l.m.t.,I set off 38° 04½' on the lat. arc; 1° 48½'S. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs 31 and 32 in the S. bdy. of the Tp.,which is a 3in. iron post, 12 ins. above the ground, firmly set, marked and witnessed as described by the Surveyor General.

Thence I run

N. 0° 03' W. bet. secs. 31 and 32.

Over rolling land, sloping SE.,through short sagebrush.

8.00 Enter scattering cedars, bears NE, and SW.

Subdivision of T 31 S., R 14 W.

chains	
10.60	Wash, 50 lks. wide, 4 ft. deep, course SE.
16.00	Wash, 60 lks. wide, 5 ft. deep, course SE.
38.25	Wash, 60 lks. wide, 4 ft. deep, course SE.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 31 on W. and S 32 on E. half; from which A cedar,12 ins.diam.,bears N. 23° E. 16 lks. dist.,marked ¼ S 32 B T A cedar,11 ins.diam.,bears S. 50½°W. 139 lks. dist.,marked ¼ S 31 B T
40.25	Foot of mountainous land, bears NE. and SW. Ascend 100 ft. over stony S. slope.
46.00	Spur, projects E.; decsend 90 ft.
51.50	Ravine, course E.; ascend 175 ft.
58.00	Spur, projects SE.; descend 20 ft.
63.00	Ravine, course SE.; ascend 20 ft.
66.00	Spur, projects SE.; descend 80 ft.
77.31	Wash, 40 lks. wide, 4 ft.deep, in ravine, course SE.
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 29-30-31 and 32, marked on brass cap T 31 S S 30 in NW, R 14 W S 29 in NE, S 32 in SE. and S 31 in SW. quadrant; from which A cedar, 7 ins.diam.,bears N 57½°E. 257 lks. dist.,marked T31S R14W S 29 BT. A cedar,14 ins.diam.,bears S 13½° E. 114 lks. dist.,marked T31S R14W S32 BT A cedar,10 ins.diam.,bears S 68½° W. 135 lks. dist.,marked T31S R14W S31 BT A cedar,10 ins.diam.,bears N 40½° W. 208 lks. dist.,marked T31S R14W S30 BT

chains	
	Land, mountainous on N. ½ mile and rolling on S. ½ mile, general slope to the SE.
	Soil, coarse gravelly and stony; 3rd rate.
	Timber, scattering cedars on mile.
	Undergrowth, short sagebrush and black brush.
	S. 89° 48' E. on a random line, bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
80.28	Intersect the N. and S. line, 12 lks. S. of the cor. of secs. 28-29-32 and 33.
	Thence I run
	N. 89° 53' W. on true line, bet. secs. 29 and 32.
	Over rolling land, sloping SE., through short sagebrush.
40.14	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ½ S 29 on N. and S 32 on S. half; dig pits 18 x 18 x 12 ins., E. and W., 3 ft. dist., of post, and raise a mound of earth, 3½ ft. base, 1½ ft. high N. of cor.
	Thence over hilly land, bears NE. and SW.
	Ascend 40 ft. to
46.00	Spur, projects SE.
48.30	Ravine, course SE.; enter scattering cedar timber, bears NE. and SW.
	Ascend 30 ft.
52.00	Spur, projects SE.; descend 40 ft.
55.55	Wash, 25 lks. wide, 3 ft. deep, course SE.
	Ascend over land facing SE., 100 ft. to
80.28	The cor. of secs. 29-30-31 and 32.
	Land, E. 40 chs., rolling and W. 40 chs., rolling mountainous, general slope to the SE.

Subdivision of T 31 S.,R 14 W.

chains	
	Soil, coarse gravelly and stony; 2nd and 3rd rates.
	Undergrowth, scattering short sagebrush and grease-wood.
	Timber, scattering cedar on W. 32 chs.
	Sept. 28: At this sec. cor., I set off 1° 53'S. on the decl. arc; and, at 11h 51m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 38° 05'.

	N. 89°.48'W., on a random line, bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor..
78.74	Intersect W. bdy. of the Tp., 23 lks. N. of the cor. of secs. 25-30-31 and 36, heretofore described.
	Thence I run
	S. 89° 58' E. on true line, bet. secs. 30 and 31
	Over mountainous land, through dense forest of cedar and scattering pinon.
1.15	Small ravine, course NE.
	Ascend 50 ft. over W. slope of low spur.
4.75	N. point of low spur, bears S.
	Descend 150 ft.
26.45	Ravine, course SE.
	Thence through scattering timber, bears NW. and SE.
	Ascend SW. slope, 240 ft. to
38.74	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 30 on N. and S 31 on S. half; from which
	A cedar, 4 ins.diam., bears S 58¼° W. 45 lks. dist., marked ¼ S 31 B T
	A cedar, 12 ins.diam., bears N 11½° E. 62 lks. dist., marked ¼ S 30 B T
	Continue to ascend 20 ft.
40.75	Top of high ridge, bears NW. and SE.
	Descend 475 ft. over granite boulders on E. slope.

chains	
78.74	The cor. of secs. 29-30-31 and 32 .
	Land, mountainous.
	Soil, rocky granite formation; 4th rate.
	Timber, cedars and scattering pinon on mile.
	Undergrowth, shadscale and some sagebrush.

September 29, 1910: At 7h 51m a.m.,l.m.t.,I set off 38° 05' on the lat. arc; 2° 12'S. on the decl. arc; and determine a meridian with the solar compass, at the cor. of secs. 29-30-31 and 32.

Thence I run

N. 0° 03' W. bet. secs. 29 and 30.

chains	
	Over mountainous land, through scattering cedars and undergrowth of sagebrush.
	Ascend 300 ft. over rocky SE. slope.
20.50	Top of spur, projects NE.
	Descend 180 ft.
28.50	Ravine, course NE.
	Ascend 150 ft.
40.00	On spur, projects NE.
	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 30 on W. and S 29 on E. half; raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Note: Paramore spring, bears N. 41½° E. 26.20 chs. dist.
	Descend 150 ft.
47.25	Ravine, course SE.; ascend 75 ft.
55.50	Spur, projects E.; descend 80 ft.
60.00	Ravine, course SE.; ascend over rolling land, facing E.
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the

chains	
	ground, for cor. of secs. 19-20-29 and 30, marked on brass cap
	T 31 S S 19 in NW,
	R 14 W S 20 in NE,
	S 29 in SE. and
	S 30 in SW. quadrant; from which
	A cedar, 7 ins.diam.,bears N 38½° E. 143 lks. dist.,marked T31S R14W S20 BT
	A cedar,12 ins.diam.,bears S 64½° E. 151 lks. dist.,marked T31S R14W S29 BT
	A cedar, 7 ins.diam.,bears S 51½° W. 102 lks. dist.,marked T31S R14W S30 BT
	A cedar,14 ins.diam.,bears N 37½° W. 184 lks. dist.,marked T31S R14W S19 BT
	Land, mountainous.
	Soil, stony and rocky; 3rd rate.
	Timber, scattering cedars and pinon on mile.
	Undergrowth, shadscale and sagebrush.

	S. 89° 53'E. on a random line, bet. secs. 20 and 29.
40.00	Set antemp. ¼ sec. cor.
80.30	Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 20-21-28 and 29.
	Thence I run
	N. 89° 54' W. on true line, bet. secs. 20 and 29.
	Over mountainous land, gradually ascend 30 ft.to
2.30	Spur, projects NE.
	Descend 260 ft. over NW. slope to
21.30	Ravine, course NE.
22.00	Road, bears SW. to Paramore and NE. to Dotson spr.
	Ascend 140 ft.
32.30	Top of knoll, bears NE. 8 chs.,and S. 8 chs.

chains	
	Descend 90 ft. to
39.30	Foot of knoll, bears NE. and SW.
39.80	Hollow, course SW. and enter scattering cedars, bears N. and S.
40.15	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 20 on N. and S 29 on S. half; from which
	A cedar,15 ins.diam.,bears S 5° W. 318 lks. dist.,marked ¼ S 29 BT
	A cedar, 6 ins.diam.,bears N 47½° E. 76 lks. dist.,marked ¼ S 20 B T
	Ascend over rolling hills, 150 ft.
80.30	The cor. of secs. 19-20-29 and 30.
	Land, rolling mountainous.
	Soil, coarse gravelly and rocky; 3rd rate.
	Timber, cedars on W. 40 chs.
	Undergrowth, shadscale and rabbit brush.
	Sept. 29: At this sec. cor.,I set off 2° 16½'S. on the decl. arc; and, at 11h51m a.m.,.l.m.t., I observe the sun on the meridian; the resulting lat. is 38° 06'.
	N. 89° 58'W. on a random line, bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
78.66	Intersect W. bdy. of the Tp.,5 lks. S. of the cor. of secs. 19-24-25 and 30, heretofore described.
	Thence I run
	S. 89° 56' E. on true line, bet. secs. 19 and 30.
	Over mountainous land, through dense forest of cedar and pinon.
2.75	Spur, projects SE.; descend 60 ft.
11.00	Ravine, course S.

Subdivision of T 31 S., R 14 W.

chains	
16.70	Spur, projects S.; decsend 25 ft.
20.70	Ravine, course SE.; entermore scattering timber, bears N. and S.
	Ascend 150 ft.
26.70	Spur, projects SE.; descend steep E. slope, 250 ft.
38.66	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 19 on N. and S. 30 on S. half; from which
	A cedar, 6 ins.diam.,bears S 84° W. 47 lks. dist.,marked ¼ S 30 BT
	A cedar, 8 ins.diam.,bears N 41¾° W. 62 lks. dist.,marked ¼ S 19 B T
	Descend 15 ft. to
39.00	Ravine, course SE.
	Ascend 270 ft. to
53.20	Spur, projects S.; descend 220 ft. to
60.00	Ravine, course S.; descend 25 ft.
62.00	Spur, projects S.
	Descend 300 ft. over slide rock.
78.66	The cor. of secs. 19- 20- 29 and 30.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, cedars and some pinon on mile.
	Undergrowth, sagebrush and shadscale.

N. 0° 03' W. bet. secs. 19 and 20.

	Over mountainous land, through scattering forest of cedar, and undergrowth of sagebrush,
	Ascend broken land, 150 ft. to
30.00	Spur, projects E.; descend 75 ft. to
38.00	Ravine, course NE.; ascend 30 ft. to

chains	
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 19 on W. and S 20 on E. half; from which
	A cedar, 8 ins.diam., bears N 11° E. 205 lks. dist., marked ¼ S 20 B T
	A cedar, 6 ins.diam.; bears S 2° W. 45 lks. dist., marked ¼ S 19 B T
	September 29, 1910.
	Sept. 30, 1910: At 6h 50m a.m., l.m.t., I set off 38° 06' on the lat. arc; 2° 32½'S. on the decl. arc; and determine a meridian with the solar compass, at this ¼ sec. cor.
	Thence I run N. 0° 03' W.
	Ascend 160 ft.
52.00	Spur, projects NE.; decsend 50 ft.
56.00	Ravine, course SE.; ascend 25 ft.
58.00	Spur, projects NE.; descend 30 ft.
62.50	Ravine, course SE.; ascend 80 ft.
67.50	Spur, projects NE.; descend 30 ft.
70.00	Ravine, course SE.; ascend 100 ft.
75.00	Spur, projects NE.; enter dense 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. 17-18-19 and 20, marked on brass cap
	T 31 S S 18 in NW,
	R 14 W S 17 in NE,
	S 20 in SE. and
	S 19 in SW. quadrant; from which
	A cedar, 8 ins.diam., bears N 43° E. 93 lks. dist., marked T31S R14W S17 BT
	A cedar, 7 ins.diam., bears S 31½° E. 92 lks. dist., marked T31S R14W S20 BT
	A cedar, 10 ins.diam., bears S 47½° W. 66 lks.

Subdivision of T 31 S.,R 14 W .

chains	
	dist.,marked T31S R14W S19 BT
	A cedar, 8 ins.diam.,bears N 20¾° W. 39 lks.
	dist.,marked T31S R14W S18 BT
	Land, mountainous.
	Soil, stony and rocky; 3rd rate.
	Timber, cedars on mile.
	Undergrowth, short sagebrush and shadscale.

	S. 89° 54'E. on a random line, bet. secs. 17 and 20.
40.00	Set a temp. ¼ sec. cor.
80.28	Intersect the cor. of secs. 16-17-20 and 21.
	Thence I run
	N. 89° 54' W. on true line, bet. secs. 17 and 20.
	Over mountainous land, through dense forest of cedar.
	Ascend 40 ft.
13.00	Ridge, bears N. and S.; descend 40 ft.
21.80	Ravine, course SW.
	Ascend 210 ft.
40.14	On ridge, bears N. and S.
	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 17 on N. and S 20 on S. half; from which
	A cedar, 8 ins.diam.,bears S. 12½° E. 153 lks.
	dist.,marked ¼ S 20 B T ; and also raise a
	mound of stone, 2 ft. base, 1½ ft. high N. of cor.
	No suitable bearing tree within limits in sec. 17.
	Thence through scattering timber, bears N. and S.
	Descend 60 ft.
50.30	Ravine, course SE.; ascend 100 ft.
56.00	Ridge, bears NW. and SE.
	Descend 120 ft. to
66.00	Ravine, course SE.

chains	
	Descend rocky granite slope, 100 ft.
70.00	Enter sec. dense timber, bears N. and S.
80.28	The cor. of secs. 17-18-19 and 20.
	Land, mountainous.
	Soil, rocky granite formation; 4 th rate.
	Timber, cedars on mile.
	Undergrowth, scattering short sagebrush.
	Sept. 30: At this sec. cor.,I set off 2° 39½'S. on the decl. arc; and, at 11h 50m a.m.,.l.m.t., observe the sun on the meridian; the resulting lat. is. 38° 07'.

	N. 89° 56'W. on a random line, bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
78.60	Intersect W. bdy. of the Tp., 7 lks. N. of the cor. of secs. 13-18-19 and 24, heretofore described.
	Thence I run
	S. 89° 59' E. on true line, bet. secs. 18 and 19 .
	Over mountainous land, through dense forest of cedars.
	Descend 20 ft.
5.60	Ravine, course NE.; ascend 25 ft.
8.75	Low ridge, bears NE. and SW.; descend 30 ft.
12.65	Ravine. course NE.; ascend 40 ft.
17.00	Spur, projects NE.;descend 130 ft. to
31.60	Ravine, course NE. ; ascend
38.60	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 18 on N. and S 19 on S. half; from which
	A cedar,12 ins.diam.,bears S 13° W. 25 lks. dist.,marked ¼ S 19 BT
	A cedar, 8 ins.diam.,bears N 50½° W. 11 lks. dist.,marked ¼ S 18 B T

Chains	
	Ascend 135 ft.
47.00	Ridge, bears NE. and SE.; descend 40 ft.
54.60	Ravine, course NE.; ascend 100 ft.
61.50	Ridge, bears NE. and SW.
	Thence descend 180 ft. over granite boulders on steep E. slope of mountain.
78.60	The cor. of secs. 17, 18, 19 and 20.
	Land, mountainous.
	Soil, rocky, granite formation; 4th rate.
	Timber, cedars on mile.
	Undergrowth, scattering short sagebrush.

N.0°03'W. bet. secs. 17 and 18.

Over mountainous land, through dense forest of cedar and scattering pinon, and undergrowth of sagebrush.

Descend 160 ft. to

13.00 Ravine, course SE.

Ascend 280 ft. to

32.00 Spur, projects NE.; descend 70 ft. to cor.

35.00 Leave dense timber, enter scattering cedars, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 18 on W. and S 17 on E. half; from which

A cedar, 6 ins. in diam., bears S.36¾°E., 55 lks. dist., marked ¼ S 17 BT.

A cedar, 3 ins. in diam., bears S.76¼W., 80 lks. dist., marked ¼ S 18 BT.

Sept. 30, 1910.

Walter A. Stumm.
Instrumentman, G.L.O.

This 30th day of September I discharge Troy Beaver, cornerman. No officer authorized to administer oaths,

Chains

other than myself, being available, without great inconvenience, delay, and expense, I administer the required final oath.

Andrew Nelson

Instrumentman, G.L.O.

October 1, 1910: 9h 20m a.m., l.m.t., I set off 38° 07¼' on the lat. arc, 3°00'S. on the decl. arc; and determine a meridian with the solar compass, at the ¼ sec. cor. bet. secs. 17 and 18.

Thence I run

N.0°03'W.

Descend 60 ft.

47.00 Ravine, course NE.; ascend 100 ft.

58.00 Ridge, bears NE. and W.

Descend 250 ft. over land, facing NW.

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

T 31 S S 7 in NW.

R 14 W S 8 in NE.

S 17 in SE. and

S 18 in SW. quadrant; from which

A cedar, 4 ins. diam., bears N.1°25'E., 74 lks. dist., marked T31S R14W S8 BT.

A cedar, 4 ins. diam., bears S.33½°E., 72 lks. dist., marked T31S R14W S17 BT.

A cedar, 10 ins. diam., bears S.63½°W., 470 lks. dist., marked T31S R14W S18 BT.

A cedar, 11 ins. diam., bears N.51½°W., 165 lks. dist marked T31S R14W S7 BT.

Land, mountainous.

Soil, stony and rocky; 3rd rate.

Timber, cedars and some pinon on mile.

Undergrowth, sagebrush.

Subdivision of T 31 S., R 14 W.

chains	
	S. 89° 54'E. on a random line, bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
80.32	Intersect the cor. of secs. 8-9-16 and 17.
	Thence I run
	N. 89° 54' W. bet. secs. 8 and 17. on true line.
	Over mountainous land, through forest of cedar and pinon
	Ascend 100 ft. to
26.00	Spur, projects NE.; descend 75 ft. to
38.00	Ravine, course NE.
40.16	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 8 on N. and S 17 on S. half; from which
	A cedar, 8 ins.diam.,bears S 54¾° E. 82 lks. dist.,marked ¼ S 17 B T
	A cedar, 7 ins. diam.,bears N 34° E. 72 lks. dist.,marked ¼ S 8 BrT.
	Ascend 20 ft.
42.30	Ridge, bears NE. and SW.;descend 150 ft. to
62.30	Ravine, course NE.; ascend 25 ft.
68.00	Spur, projects NE.; descend 25 ft.
70.80	Ravine. course NE.; ascend 110 ft.
77.27	Spur, projects NE.; descend 40 ft.
80.32	The cor. of secs. 7-8-17 and 18.
	Land, mountainous.
	Soil, stony and rocky; 3rd rate.
	Timber, cedars and pinon on mile.
	Undergrowth, short sagebrush and shadscale.
	Note: Sky overcast lat. obsn. impossible.
	Oct. 1, 1910.
	N. 89° 59'W. on a random line, bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
78.52	Intersect W. bdy. of the Tp.,21 lks. N. of the cor. of secs. 7-12-13 and 18, heretofore described.

chains	
	Thence I run
	N. 89° 52' E. on true line, bet. secs. 7 and 18.
	Over mountainous land, through forest of cedar and pinon.
	Descend 120 ft. over E. face of mountain.
15.80	Wire fence, bears NE. and SW.; thence across hollow.
21.30	Small spring branch, 1 lk. wide, course NE.
	Note: Head of small spring, bears SW. up the hollow about 15 chs. Known as Bull spring.
22.76	Wire fence, bears NE. and SW.; leave hollow, ascend 100 ft. over NW. slope.
28.50	Spur, projects NE.; descend 20 ft.
30.50	Ravine, course NE.; ascend 20 ft.
33.00	Spur, projects NE.; descend 40 ft.
34.50	Ravine, course NE.; ascend 60 ft. to
38.52	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 7 on N. and S 18 on S. half; from which
	A cedar, 7 ins. diam., bears S 55½° W. 35 lks. dist., marked ¼ S 18 B T
	A cedar, 8 ins. diam., bears N 59½° W. 65 lks. dist., marked ¼ S 7 B T
	Ascend 30 ft.
40.50	Spur, projects NW.; descned 90 ft.
50.50	Ravine, course NE.; ascend 20 ft.
59.00	Spur, projects NW.; descend 15 ft.
60.50	Ravine, course NE.; ascend 50 ft.
64.50	Spur, projects N.; descend 75 ft.
70.50	Ravine, course NE.; descend 40 ft.
78.52	The cor. of secs. 7-8-17 and 18.
	Land, rolling mountainous.
	Soil, gravelly and rocky; 3 rd rate.
	Timber, cedars and pinon on mile.
	Undergrowth, scattering sagebrush and shadscale.

Subdivision of T 31 S., R 14 W.

chains	
	N. 0° 03' W. bet. secs. 7 and 8.
	Over rolling land, facing NE., through dense forest of cedar and pinon.
	Geadually descend 200 ft. to cor.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 7 on W. and S 8 on E. half; from which
	A cedar, 6 ins.diam.,bears N. 79½° E. 94½ lks. dist.,marked ¼ S 8 B T
	A cedar, 8 ins.diam.,bears S 61¼° W. 68 lks. dist.,marked ¼ S 7 B T
57.82	Enter main wash, 3 ft. deep, course NE.
59.85	Leave " " " " " " NE.
	Thence gradually ascend land, facing SE.,100 ft. to cor.
64.68	Road, Lund to Dotson spr.,bears nearly E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins.dia.,24 ins. in the ground, for cor. of secs. 5-6-7 and 8, marked on brass cap
	T 31 S S 6 in NW,
	R 14 W S 5 in NE,
	S 8 in SE. and
	S 7 in SW. quadrant; from which
	A cedar,14 ins.diam.,bears N 42¾° E. 31 lks. dist.,marked T 31S R14W S5 BT
	A cedar,12 ins. diam.,bears S 11¼° E. 93 lks. dist.,marked T31S R14W S8 BT
	A pinon,14 ins. diam.,bears S 33½°W. 108 lks. dist.,marked T31S R14W S7 BT
	A cedar,12 ins.diam.,bears N 74½° W. 131 lks. dist.,marked T31S R14W S6 BT
	Land, rolling, S. 60 chs.,slopes to the NE.,and N. 20chs. to the SE.
	Soil, gravelly and stony; 2nd rate.
	Timber, dense cedar and pinon on mile.

chains	
	Undergrowth, short sage and rabbit brush.
	October 1, 1910.

This 3rd day of October, I employ Joseph Ingram, to perform the duties of axman. No officer authorized to administer oaths, other than myself, being available, without great inconvenience, delay, and expense, I administer the preliminary oath.

Andrew Nelson

Instrumentman G.L.O.

October 3, 1910: At 7h 49m a.m., l.m.t., I set off 38° 08½' on the lat. arc; 3° 45'S. on the dec. arc; and determine a meridian with the solar compass, at the cor. of secs. 5-6-7 and 8.

Thence I run

S. 89° 54'E. on a random line, bet secs. 5 and 8.

40.00	Set temp. ¼ sec. cor.
80.32	Intersect the cor. of secs. 4-5-8 and 9.

Thnce I run

N. 89° 54' W. on true line, bet. secs. 5 and 8.

Over low rolling hilly land, through dense forest of cedar and pinon.

Gradually ascend 50 ft.

14.00	Spur, projects NW.; descend 35 ft.
20.00	Ravine. course SE.; ascend 30 ft.
23.00	Low ridge, bears NW. and SE.
30.68	Wash, 15 lkw wide. 3 ft. deep. course SE.
34.65	Wash, 50 lks. wide, 2 ft. deep, course SE.

Subdivision of T 31 S.,R 14 W.

chains	
40.16	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 5 on N. and S 8 on S. half; from which
	A cedar, 8 ins.diam.,bears S 27½° W. 128 lks. dist.,marked ¼ S 8 B T
	A cedar, 6 ins.diam.,bears N 50½° W. 70 lks. dist.,marked ¼ S 5 B T
	Thence gently ascend over rolling land, sloping SE.
80.32	The cor. of secs. 5-6-7 and 8.
	Land, low rolling hills, general slope to the S. & SE.
	Soil, gravelly and stony; 2nd rate.
	Timber, dense cedar and pinon, on mile.
	Undergrowth, short black sagebrush.

	S. 89° 52' W. on random line, bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
78.49	Intersect W. bdy. of the tp., 12 lks. S. of the cor. of secs. 1-6-7 and 12, heretofore described.
	Thence I run
	N. 89° 57' E. on true line, bet secs. 6 and 7.
	Over low rolling hilly land, sloping SE.,through dense forest of cedar and pinon.
33.70	Wash, 10 lks. wide, 2 ft. deep, course SE.
38.49	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 6 on N. and S 7 on S. half; from which
	A cedar, 7 ins.diam.,bears S 82° W. 34 lks. dist.,marked ¼ S 7 B T
	A cedar,24 ins.diam.,bears N 50° E. 106 lks. dist.,marked ¼ S 6 B T

chains	
60.00	Thence over land, sloping NE.
78.49	The cor. of secs. 5-6-7and 8.
	Land, low rolling hills.
	Soil, light coarse gravelly and stony; 2nd rate.
	Timber, dense cedar and pinon, on mile.
	Undergrowth, scattering short black sagebrush.
	October 3: At this sec. cor.,I set off 3° 49¾'S. on the decl. arc; and, at 11h 49m a.m.,l.m.t., observe the sun on the meridian; the resulting lat. is 38° 08½'.

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

Over low rolling hilly land, through dense forest of cedar and pinon.

20.00	Wash, 50 lks. wide, 2 ft. deep, course SE.
25.06	Enter wash, 2 ft. deep, course SE.
27.00	Leave wash, course SE.
	Gently ascend 30 ft.
40.00	Set an iron post, 3 ft. long, 1 in.dia.,26 ins. in the ground, for ¼ sec. cor.,marked on brass cap ¼ S 6 on W. and S 5 on E. half; from which
	A cedar, 12 ins.diam.,bears N 88¾° E. 79 lks. dist.,marked ¼ S 5 B T
	A cedar,32 ins.diam.,bears N 88° W. 59 lks. diat.,marked ¼ S 6 B T
	Note: N. half of this mile run and closing cor. established on erroneous 6th stan. par. S.,Oct. 3rd.
	November 19: For reasons as explained in notes of line run bet. secs. 1 and 2, T 31 S.,R 12 W.,book "G" of this survey. I commence at this ½ sec. cor. and re-run this line, N. 0° 03' W.
	Thence over land, with slope to the S.
110.42	Intersect the Sixth standard parallel south, 6.31 chs.

Subdivision of T 31 S.,R 14 W.

chains

west, of the standard cor. of secs. 31 and 32, which is a 3in. iron post, heretofore described.

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

T 30 S R 14 W S 31 C C S 32 on N. half,

S 5 in SE. and

S 6 in SW. quadrant; from which

A cedar, 14 ins.diam.,bears S 73¾° E. 115 lks. dist.,marked T31S R14W S5 BT

A cedar, 8 ins.diam.,bears S 3° 16'W. 119 lks. dist.,marked T31S R14W S6 BT

Note: I destroy all trace of closing cor. previously set by me.

Land, rolling, general slope to the S.

Soil, gravelly and stony; 2nd and 3rd rates.

Timber, dense cedar and pinon, on mile.

Undergrowth, scattering short sagebrush.

November 19, 1910.

General Description.

This township contains mountainous, hilly, rolling, and nearly level lands. It lies to the W. and drains SE. into the Escalante Valley. The soil ranges from stony & gravelly to deep light sandy loam.

The SE. half of the tp. is cheifly gently rolling land, sloping S. and SE.; this portion is covered with a short undergrowth of rabbit, sagebrush, shadscale, bunch grass and some grease-wood. The soil is rich sandy and fine gravelly loams, 1 to 3 ft. in depth , on a subsoil of gravel of lime formation, and could be classed as 1st and 2nd rates. Dry farming can be in this part.

General Description.

The remaining portions of the township is rolling mountainous and hilly, with gravelly and stony soil, only good for grazing purposes. The W. 1/3 of the tp., is covered with a dense forest of scrub cedar and pinon pine, and undergrowth of scattering black sagebrush and some bunch grass.

In sec. 2, the S. end of Blue Mountain of blue limestone formation, rises abruptly about 1500 ft. above the valley to the E. It is covered with a scattering growth of cedar and pinon pine. Indications of silver and lead bearing quartz are found in this mountain, but not sufficient to return any part of this section as mineral land.

Numerous wagon roads traverse throughout the tp.

The main line of the S.P.L.A.& S.L.R.R. runs through the SE. half of sec. 36, in a N. easterly and S. westerly direction.

Paramore spring, pure water, considerable flow, drains SE., is situated in the NW. quarter of sec. 29.

Bull spring, a small seep in a narrow rocky hollow, drains NE., is situated in the NW. ¼ of sec. 18., there is a delapidated fence enclosing the spring and about 15 acres, which lies along the bottom of the hollow.

This is probably the Celia I. Yardley desert entry, as there is no agricultural lands or signs of improvement in the W. ½ of SW.¼ and NE.¼ of SW.¼ sec 7. as entered by said party.

There are no settlers, nor indications of oil within the township.

Andrew Nelson
Walter A. Stevens

Instrumentmen G.L.O.

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

LIST OF NAMES.

A list of the names of the individuals employed by Andrew Nelson and Walter A. Stumm, ~~United States Deputy Surveyor~~ Instrumentmen G.L.O., to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision of T 31 S., R 14 W. showing the respective capacities in which they acted:

Jack Barker, Harry F. Wood, *Chainmen.*

Park Stumm and Clarence C. Shelby, *Chainman.*

George Schroeder, Troy Beaver, *Moundman.*

George Nelson, *Moundman.*

Harvey Rosenberg, *Axman.*

Joseph A. Ingram, *Axman.*

John Ad Millyard and George A. Faust, *Flagmen.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew Nelson and Walter A. Stumm, ~~United States Deputy Surveyor~~ Instrumentmen G.L.O., in surveying all those parts or portions of the subdivision of T 31 S., R 14 W.

of the Salt Lake Base and meridian, state of Utah, which are represented in the foregoing field notes as having been surveyed by ~~him~~ them and under ~~his~~ their 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.

Jack Barker, Harry F. Wood, *Chainmen.*

Park Stumm, Clarence C. Shelby, *Chainmen.*

Troy Beaver and George Nelson, *Moundmen.*

George Schroeder, *Moundman.*

Harvey Rosenberg, *Axman.*

Joseph A. Ingram, *Axman.*

George A. Faust, *Flagman.*

John Ad. Millyard, *Flagman.*

Subscribed and sworn to before me this 30th day of October, 1910

Subscribed and sworn to before me by Troy Beaver this 30th day of Sept. 1910.

SEAL

Andrew Nelson
Instrumentman G.L.O.

6—151

I ..... United States Deputy Surveyor
solemnly swear that, in pursuance of a contract received from .....
United States Surveyor General for ....., bearing date of
..... day of ....., 190 . I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Surv
General for ....., the Manual of Surveying Instructions, and the laws of
United States, surveyed all those parts or portions of .....

For final oath of Transitmen see book "W" T.33 S., R.16 W.

.....of the.....
..... meridian, in the .....of....., which are represented in
foregoing field notes as having been surveyed by me, and under my direction; and I do further solem
swear that all the corners of said survey have been established and perpetuated in strict accordance
the Manual of Surveying Instructions, and the special written instructions of the United States Surv
General for .....and in the specific manner described in the field notes, and
the foregoing are the original field notes of such survey.

.....
United States Deputy Surv

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 7, 1

The foregoing field notes of the survey of the subdivisional lines of Townsh
No.31 South, Range No. 14 West of the Salt Lake Base and Meridian,
Utah,

executed by George Nelson and Walter A.Stumm
under his special instructions dated August 6, 1910, 190 , having
critically examined, and the necessary corrections and explanations made, the said field notes, an
surveys they describe, are hereby approved.

Thomas Hill
United States Surveyor Ge

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 offi

.....
United States Surveyor Ge

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Ex.V.I.F. Filed Feb.23, 1911.

4—679

L.

BOOK A-376

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FIELD NOTES

OF THE SURVEY OF THE

SOUTH AND WEST BOUNDARIES

OF

TOWNSHIP NO.31 SOUTH,

RANGE NO.15 WEST,

Of the SALT LAKE BASE AND *Meridian,*

in the State of U T A H

EXECUTED BY

ANDREW NELSON

In the capacity of U. S. ~~SURVEYOR~~ TRANSITMAN, *under instructions dated* Aug.6, *1910,*

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

Group No. 2, *which were approved by the Commissioner of the General Land*

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

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

Survey commenced October 5, *1910*

Survey completed November 22, *1910*

6—151

Jack Barker,	Chainman.
Harry F.Wood,	Chainman.
George Schroeder,	Moundman.
Harvey Rosenberg,	Axman.
John Ad.Millyard,	Flagman.

BOOK A-376

INDEX DIAGRAM.

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

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7	8	9	10	11	12
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19	20	21	22	23	24
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31	32	33	34	35	36

BOOK A-376

INDEX DIAGRAM.

Township 31 S, *Range* 15 W

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12	31	32	33	34	35	36
	3	4	6	7	8	10

Meanders Page X

PRELIMINARY OATHS OF ASSISTANTS.

WE, Jack Barker and Harry T. Wood

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

of the S. and W. bdrs. of T 31 S R 15 W S.L.B. & M. Wah.

Jack Barker, Chainm

Harry T. Wood, Chainm

Subscribed and sworn to before me this 3rd day of October, 1910.

SEAL

Andrew Nelson
Instrumentman G. L. O.

~~WE,~~ I, George Schroeder ~~and~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishm of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the surve

of the S. and W. bdrs. of T 31 S R 15 W, S.L.B. & M. Wah.

George Schroeder, Moundm

, Moundm

Subscribed and sworn to before me this 3rd day of October, 1910.

SEAL

Andrew Nelson
Instrumentman, G. L. O.

~~WE,~~ I Harvey Rosenberg

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of cor and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the surve

of the S. and W. bdrs. of T 31 S R 15 W S.L.B. & M. Wah.

Harvey Rosenberg, Axm

, Axm

Subscribed and sworn to before me this 3rd day of October, 1910.

SEAL

Andrew Nelson
Instrumentman G. L. O.

I, John A. Millyard, do solemnly swear that I will well and t perform the duties of flagman according to instructions given me, to the best of my skill and ability, in resurvey of the S. and W. bdrs. of T 31 S R 15 W. S.L.B. & M. Wah.

John A. Millyard, Flagm

Subscribed and sworn to before me this 3rd day of October, 1910

SEAL

Andrew Nelson
Instrumentman, G. L. O.

6—151

Resurvey of the S. bdy. of T31S R15W.

Chaus. Survey commenced Oct 5, 1910 and executed with a W. and J. E. Burley light mountain transit No. 9624 with solar attachment.

For description of instrument see Book "H" of this survey.

I commence at the cor. of Tp's 31 and 32 S, R's 14 and 15 W, latitude 38°04'17" N., longitude 113°25'48" W.

At 7h 49m a.m. l.m.t. I set off 38°04¼' on the lat. arc, 4°31½' S. on the decl. arc, and determine a meridian with the solar.

This meridian agrees with the meridian established at this cor. by observations on Polaris, Sept. 27, 1910, given in Book "J" of this survey.

Thence I run S 89°46' W. retracing bet. secs. 1 and 36, 41.40 chs.; S. of my line 40 lks. dist., is the ¼ sec. cor. 80.10 chs.; S. of my line 174 lks. dist., is the cor. of secs. 1, 2, 35 and 36. I continue my line S 89°46' W., retracing bet. secs. 2 and 35. 39.61 chs. S. of my line, 50 lks. dist. is the ¼ sec. cor.. 78.90 chs. N. of my line, 24 lks. dist., is the cor. of secs. 2, 3, 34 and 35.

Oct. 5. At this station, 24 lks. S of the cor. of secs. 2, 3, 34 and 35. I set off 4°36' S on the decl. arc. and at 7h 49m a.m. l.m.t. observe the sun on the meridian, the resulting latitude is 38°04¼'.

From this station I continue my line S 89°46' W. retracing bet. secs 3 and 34. 40.18 chs. N. of my line, 6 lks. dist; is the ¼ sec. cor. 80.10 chs. N. of my line, 19 lks. dist;

Resurvey of the S. bdy of T 31 S R 15 W.

is the cor. of secs. 3, 4, 33 and 34.
I mark this point by driving a peg firmly in the ground

October 5, 1910.

Oct. 6. at 7h 18m a. m. l. m. t. I set off 38°04'¼' on the lat arc, 4°52¾'S on the decl. arc and determine a meridian with the solar at the point, 19 lks. S. of the cor. of secs. 3, 4, 33 and 34.
Thence I run
S 89°46' W. retracing, bet secs. 4 & 33; 40.42 chs.; S. of my line 18 lks. dist. is the ¼ sec cor. 80.76 chs. N. of my line, 90 lks. dist.; is the cor. of secs. 4, 5, 32 and 33. I continue my line S 89°46' W retracing. bet secs. 5 and 32, 40.52 chs.; N. of my line, 90 lks. dist. is the ¼ sec. cor. 81.06 chs., N. of my line 229 lks. dist.; is the cor. of secs. 5, 6, 31 and 32. I continue my line, S 89°46' W. retracing bet secs. 6 and 31, 40.08 chs., N. of my line, 300 lks. dist.; is the ¼ sec. cor. 80.71 chs., Intersect the range line, 102 lks. S. of the cor. of Tps 31 and 32 S, R's 15 and 16 W., which is a granite stone 16 x 9 x 7 ins. above ground, marks obliterated. I destroy all traces of this cor. and re-establish it at the same point as follows.
Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of Tps 31 and 32 S. R's 15 and 16 W. Marked on brass cap,
T 31 S in N half.
R 16 W. S 36 in N W.
R 15 W S 31 in N E.
R 15 W S 6 in S E

Resurvey of the S. bdy. of T 31 S R 15 W.

Chains.

R 16 W S 1 in S W quadrant & T 32 S in S half; raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.

I find this bdy. out in alinement and distance. There being no subdivision depending on this bdy. I resurvey it, noting distances to, and destroying all trace of the old. cors.

The falling answers to a correction of 0° 07' on 17 lks. N. per mile counting from the S. E. cor. of the Tp., therefore I run N 89° 53' E. resurveying bet secs. 6 and 31, marking and blazing true line.

Over rolling mountainous land, through scattering cedars.

Descend gradually. 60 ft.

17.43 Draw, course N E.; ascend 75 ft.

29.63 Spur, projects N E.; descend 75 ft.

35.88 Hollow, course N., ascend

40.63 N. of my line 205½ lks. dist. is the old ¼ sec. cor. I destroy all trace of this cor.

41.63 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for re-established ¼ sec. cor., marked on brass cap, ¼ S 31 on N half and S 6 on S half, from which a cedar, 8 ins. diam., bears S 24° E.; 26 lks. dist.; marked ¼ S 6 B.T. a cedar, 12 ins. diam.; bears N 4½° W.; 20 lks. dist.; marked ¼ S 31 B.T.

Ascend

43.00 Ridge, 60 ft. above hollow, bears N E and S W; descend 125 ft.

50.60 Hollow, course N E., ascend 75 ft.

56.10 Spur, projects N., descend over steep E slope, 230 ft.

Resurvey of the S. bdy. of T 31 S R 15 W.

Chains	
69.60	Thence over rolling land
80.71	N. of my line, 143 lks. dist. is the old sec. cor. I destroy all traces of this cor.
80.90	Wash, 40 lks wide and road, Lund to Keel Spring, course SE.
81.63	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins in the ground for reëstablished cor. of secs. 5, 6, 31 and 32 marked on brass cap.

T 31 S S 31 in N W.
R 15 W S 32 in N E.
R 15 W S 5 in S E and
T 32 S S 6 in S W quadrant.

from which,

a cedar, 9 ins. diam.; bears N 72° E.; 61 lks. dist.; marked T 31 S R 15 W S 32 B T.

a cedar, 5 ins. diam.; bears S 39½° E.; 263 lks. dist.; marked T 32 S R 15 W S 5 B T.

a cedar, 8 ins. diam., bears S 29½° W.; 263 lks. dist.; marked T 32 S R 15 W S 6 B T.

a cedar, 15 ins. diam.; bears N 1° W.; 236 lks. dist.; marked T 31 S R 15 W S 31 B T.

Land rolling and rolling mountainous
Soil, gravelly and rocky, 3rd rate.
Timber, scattering cedar on mile.
Sparse undergrowth of sage brush and bunch grass.
Land, rolling mountainous. 69.60 Chs.

N 89° 53' E. resurveying bet. secs 5 and 32.

Over rolling mountainous land, through dense forest of cedar, sparse undergrowth of sage brush.

16.00	Wash, 15 lks. wide, 1 ft. deep course S E. Road, Lund to Dotson Spring, bears N E and S W; Ascend 40 ft

Resurvey of the S bdy. of T 31 S R 15 W.

Chains.

22.00 Ridge, bears N E, and S W. descends 30 ft.
35.00 Wash, 20 lks. wide, 1 ft. deep, course S, ascend 30 ft.
36.40, Spur, projects S W.; descend
39.62 N of my line 13 1/2 lks. dis is the old 1/4 sec. cor I destroy all traces of this cor.
40.00 Set an iron post, 3 ft long, 1 in. in dia, 26 ins. in the ground for reestablished 1/4 sec. cor; marked on brass cap,
1/4 S 32 on N half and
S 5 on S half; from which
a cedar, 8 ins diam; bears
S 78 1/2° E.; 25 lks. dist; marked
1/4 S 5 B T.
a cedar, 8 ins. diam.; bears
N 8° 40' W.; 128 lks. dist; marked
1/4 S 32 B T.
54.50 Wash 20 lks. wide, 1 ft. deep, course S W
67.00 Wash, 10 lks. wide, 1 ft. deep, course S W, ascend, 30 ft.
75.60 Spur, projects S., descend 30 ft
78.50 Drain. course S W.; ascend
80.00 Set an iron post, 3 ft. long, 3 ins. in dia.; 24 ins. in the ground for reestablished Cor. of secs. 4, 5, 32 and 33 marked on brass cap;
T 31 S S 32 in N W.
R 15 W S 33 in N E,
R 15 W S 4 in S E and
T 32 S S 5 in S W. quadrant; raise a mound of stone 2 ft base, 1 1/2 ft. high. W. of cor. Pits impracticable. No suitable bearing trees available. Land, rolling mountainous. Soil, rocky and gravelly. 3rd rate. Timber cedar.
Undergrowth sage brush.
Rolling mountainous and timbered land 80.00 chs.
Dec. 6: at this sec. cor. I see by 4° 59 1/4' S on the decl. arc, and at

Resurvey of the S. bdy of T 31 S R 15 W.

Chains	11h. 48m. a.m. l.m.t. observed the sun on the meridian, the resulting lat. is 38°04'¼'
	N 89°53' E, resurveying bet. secs. 4 and 33; over rolling mountainous land
.14	N. of my line, 22 lks. dist. is the old cor. of secs. 4, 5, 32 and 33. I destroy all traces of this cor.
	Descend 50 ft.
9.50	Wash, 10 lks. wide in hollow, course SW.
	Ascend 50 ft.
18.50	Ridge, bears N E, and S W,
	Descend 100 ft.
26.80	Wash, 40 lks. wide, in hollow, course SW.
	ascend 100 ft.
30.50	Spur, projects SW. descend
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for ¼ sec. cor.; marked on brass cap, ¼ S 33 on N half and S 4 on S half; from which a cedar, 6 ins. diam., bears S 17¼° W.; 81 lks. dist., marked ¼ S 4 BT. a cedar, 8 ins. diam., bears N 68¾° E.; 63 lks. dist.; marked ¼ S 33 BT.
40.48	South of my line, 77½ lks. dist.; is the old ¼ sec. cor. I destroy all traces of this cor.
41.90	Wash, 20 lks. wide, 1 ft. deep, course S. thence over rolling land.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia.; 24 ins. in the ground, for reëstablished cor. of secs. 3, 4, 33 and 34 marked on brass cap, T 31 S S 33 in N W. R 15 W S 34 in N E, R 15 W S 3 in S E and T 32 S S 4 in S W quadrant.

Resurvey of the S bdy. of T 31 S R 15 W.

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high. W. of Cor. Pits impracticable. No suitable bearing trees available. Land, rolling mountainous. Soil rocky, 3rd rate. Subsoil, gravel formation. Timber, dense scrub cedars on mile. Undergrowth scattering sage brush. Land rolling mountainous 80.00 ch.
	N 89° 53' E resurveying bet. secs. 3 and 34. Over rolling mountainous land through dense forest of cedar and sparse under-growth of sage brush. Ascend 60 ft.
.90	S. of my line, 32 lks. dist. is the old sec. cor. I destroy all traces of this cor.
5.40	Ridge, bears N. E. and S. W. descend 100 ft.
14.50	Head of hollow, course S. W.; ascend 40 ft.
18.00	Spur, projects S. W.; descend 30 ft.
24.50	Drain, course S. E., descend 150 ft.
36.00	Wash, 10 lks. wide in hollow, course S. E., ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for reestablished ¼ sec. cor.; marked on brass cap, ¼ S 34 on N half and ¼ S 3 on S half; from which a cedar, 18 ins. diam., bears S 0° 30' W.; 54 lks. dist.; marked ¼ S 3 BT. a cedar, 12 ins. diam.; bears N 74° W.; 25 lks. dist.; marked ¼ S 34 BT.
40.82	South of my line, 36½ lks. dist.; is the old ¼ sec. cor. I destroy all traces of this cor.
49.00	Ridge bears N. E. and S. W. descend 250 ft.

Resurvey of the S. bdy. of T31S R15W.

Chains	
56.40	Wash, 20 lks wide in hollow, course S., ascend 150 ft
80.00	In head of Hollow, drains south, set iron post, 3 ft. long, 3 ins. in dia.; 24 ins. in the ground for reestablished cor. of secs. 2, 3, 34 & 35 - marked on brass cap.
	T31S S 34 in NW.
	R15W S 35 in NE.
	R15W S 2 in SE and
	T32S S 3 in SW quadrant.
	From which
	a cedar, 20 ins. diam., bears
	N 60 1/4° E.; 53 lks. dist.; marked
	T31S R15W S 35 BT.
	a cedar, 10 ins. diam.; bears
	S 18 3/4° E.; 21 lks. dist.; marked
	T32S R15W S 2 BT.
	a pinion pine, 10 ins. diam.; bears
	S 23 1/2° W.; 68 lks. dist.; marked
	T32S. R15W S 3 BT.
	a cedar, 14 ins. diam.; bears
	N 2 3/4° W.; 23 lks. dist.; marked.
	T31S R15W S 34 BT.
	Land, rolling mountainous.
	Soil rocky, 3rd rate.
	Timber dense cedar.
	Undergrowth, sage brush.
	Land, rolling mountainous and heavily timbered 80.00 chains.
	N 89°53' E resurveying bet. secs. 2 and 35.
	Over rough mountainous land through scattering cedars and undergrowth of sage brush
1.00	South of my line, 10 lks dist.; is the old sec. cor. I destroy all traces of this cor.
12.00	Leave dense timber, bears N. and S.
14.00	50 ft above sec. cor.
	Spur, projects SW.; descend 150 ft.

Resurvey of the S. bdy of T 31 S R 15 W.

Chains.

21.80 Hollow. Course S W.; ascend 240 ft.

30.25 High rocky ridge, bears N E, and S W. Descend 550 ft.

37.25 Head of draw. course S E.,

40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for reestablished 1/4 sec. cor. Marked on brass cap,

1/4 S 35 on N half and S 2 on S half; raise a mound of stone 2 ft. base, 1 1/2 ft. high. N. of cor; Pits impracticable

40.29 South of my line 75 1/2 lks. dist: is the old 1/4 sec. cor. I destroy all trace of this cor.

52.70 Wash, 20 lks. wide in hollow, 500 ft below ridge course S W.

Ascend old land sloping N W.

57.10 Small hollow course N W.

68.50 Point of high spur, 490 ft. above hollow. projects N W.; descend 30 ft.

76.00 Head of hollow, course N W.

79.90 South of my line, 191 lks. dist. is the old sec. cor. I destroy all traces of this cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia.; 24 ins. in the ground for reestablished cor. of sec. 1, 2, 35 and 36, Marked on brass cap,

T 31 S S 35 in N W.
R 15 W S 36 in N E,
R 15 W S 1 in S E and
T 32 S S 2 in S W quadrant.

from which

a cedar, 4 ins. diam.; bears N 40 1/2° E.; 15 lks. dist.; marked T 31 S R 15 W S 36 B T.

a cedar, 6 ins. diam.; bears S 40 3/4° E.; 70 lks. dist.; marked T 32 S R 15 W S 1 B T.

a cedar, 6 ins. diam.; bears S 38 1/4° W. 112. lks. dist.; marked

Resurvey of the S bdy. of T 31 S R 15 W.

Chains	
	T 32 S R 15 W S 2 BT.
	a cedar, 7 ins. diam.; bears
	N 14½° W.; 14 2 lks. dist.; marked
	T 31 S R 15 W S 35 BT.
	Land rough mountainous.
	Soil, rocky, 3rd rate.
	Subsoil, granite rock.
	Timber, scattering cedar.
	Undergrowth sage brush.
	Land, rough mountainous 80.00 chs.
	N 89° 53' E, resurveying bet. secs. 1
	and 36.
	Over rough mountainous land through
	forest of dense cedar, and sparse
	undergrowth of sage brush.
	Ascend over rocky W slope 60 ft.
3.50	Ridge bears N 30° E and S 30° W.
	Descend over slide rocky, 1000 ft. to
38.60	South of my line, 4 8 ½ lks. dist. is
	the old ¼ sec. cor. I destroy all traces of this cor.
40.00	Set an iron post, 3 ft long, 1 in. in
	dia., 26 ins. in the ground for
	reestablished ¼ sec. cor. marked
	on brass cap,
	¼ S 36 on N half and
	¼ S 1 on S half; from which
	a cedar, 10 ins. diam.; bears
	S 21½° E.; 78 lks. dist.; marked
	¼ S 1 BT.
	a cedar, 8 ins. diam.; bears
	N 51½° W.; 44 lks. dist.; marked
	¼ S 36 BT.
	Thence over rolling mountainous
	land
44.40	Low spur, projects S E.;
79.38	Wash, 10 lks. wide 1 ft. deep, course
	S. E.
80.00	The cor. of Tp's 31 and 32 S. R's. 14 and 15 W.
	October 6, 1910.

Resurvey of the W. bdy of T 31 S R 15 W.

Chains Survey commenced Oct. 11, 1910 and executed with a W. and L. E. Gurley light mountain transit No. 9624 with solar attachment.

For description of instrument see Book "A" of this survey.

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

At the Cor. of TP'S 31 and 32 S, R'S 15 and 16 W., latitude 38°04'17" N., longitude 113°32'22" W., I set off 38°04¼' N.; on the lat. arc, 6°57' S. on the decl. arc, and at 3h. 47m. p.m. l.m.t. determine with the solar a meridian and mark a point thereof on a peg driven in the ground, 5 chs. N. of the Cor.

At 6h 14m. p.m. by my watch which carries correct 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

October 11. 1910.

Oct. 12: at 7 am. l.m.t. I lay off the azimuth of Polaris, 1°29½' to the West. The meridian thus determined agrees with my meridian established with the solar Oct. 11.

Resurvey of the W. bdy of T 31 S R 15 W

Chain	at 7h. 17m. a. m. l. m. t. I set off 38°04¼' on the lat arc, 7°09½' S on the decl. arc, and determine a mer. with the solar. The meridian thus determined agrees with the meridians established, by observations on Polaris and with the solar, October 11, 1910, therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 7h 17m a.m. is N 15°50' W.; the angle thus determined gives the Mag. decl. 15°50' E. From the TP. cor. heretofore described I run north bet secs. 31 and 36; and at 40.00 chs. I make careful search but fail to find any trace of the old ¼ sec. cor. I continue N., at 80.00 chs. I make careful search but fail to find any trace of the cor of secs. 25, 30, 31 and 36. I continue N. at 120 chs. I make a careful search but fail to find any trace of the ¼ sec. The topography as given in the old notes does not agree with the topography of this line. No subdivisions are dependent on this boundary, therefore I resurvey this. North resurveying bet secs 31 & 36. Over rolling mountainous land through dense forest of cedar, and yellow pine. Gradually descend 60 ft.
31.90	Wash, 20 lks. wide 1 ft. dep. course E., Ascend 60 ft.
36.80	Spur, projects E.; descend 40 ft.
39.30	Wash, 10 lks. wide, course E.
40.00	I again make a careful search for the old ¼ cor. but am unable to find any trace of it.

Resurvey of the W. bdy of T 31 S R 15 W.

Chains. Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for reëstablishing 1/4 sec. cor.; marked on brass cap,
1/4 S 36 on W half and
S 31 on E half; from which
cedar, 10 ins. diam.; bears
S 19° E.; 35 lks. dist.; marked
1/4 S 31 BT.
a pinion pine, 6 ins. diam.; bears
S 55° W.; 22 lks. dist.; marked
1/4 S 36 BT.

49.60 160 ft. above wash.
Spur, projects N. 80° E.; descend. steep N. slope

50.20 Granite ledge, 20 ft. high bears N.E., 1 ch. and S.W.

56.00 Descend gradually,

63.00 175 ft. below, Spur,
Wash, 10 lks. wide, 1 ft. dep. course E.
Ascend 100 ft.

75.00 Spur, projects E.

78.55 Wash, 10 lks. wide, 1 ft. dep. course E.,
Ascend gradually,

80.00 Set an iron post, 3 ft. long, 3 ins. in dia.; 24 ins. in the ground for reëstablished cor. of secs 25, 30, 31 and 36, marked on brass cap
T 31 S in N half.
R 16 W S 25 in N W.
R 15 W S 30 in N E.
S 31 in S E and
S 36 in S W quadrant; from which,
a pinion pine, 16 ins. diam.; bears
N 39° E.; 77 lks. dist.; marked
T 31 S R 16 W S 30 BT.
cedar, 8 ins. diam.; bears
S 47½° E.; 28 lks. dist.; marked
T 31 S R 16 W S 31 BT
a cedar, 7 ins. diam.; bears
S 16° W.; 36½ lks. dist.; marked

Resurvey of the W. bdy. of T31S R15W.

T31S R16W S36 BT.
acedar, 4 ins. diam.; bears
N 36¾° W.; 28 lks. dist.; marked
T31S R16W. S25 BT.
Land rolling mountainous.
Soil, rocky and gravelly, 2nd and 3rd rates.
Timber dense cedar and pinion pine.
Undergrowth. sage brush.
Rolling mountainous and heavily
timbered 80.00 Chains.
Note.
I again make a careful search
for the old sec. cor. but fail to find any
trace of it.
Oct. 12: at this sec. cor. I set off
7°16¼' S on the dec arc, and at 11h.
47m. a. m. l. m. t. observe the sun
on the meridian, the resulting lat.
is 38°05'.

North resurveying bit. secs,
25 and 30
Over rolling mountainous land through
dense forest of cedar and pinion
pine. Sparse undergrowth of sage
brush and bunch grass.
Ascend 100 ft.
10.00 Ridge, bears N E. and S W, descend 50 ft.
22.00 Head of hollow, bears. N E. ascend 50 ft.
24.50 Point of ridge, bears W and projects E,
Descend 40 ft.
34.00 Wash, 25 lks. wide, 1 ft. deep,
Courses E. Ascend gradually.
40.00 Oul Spur, projects East
Set an iron post; 3 ft. long, 1 in.
in dia.; 26 ins. in the ground for
¼ sec. cor.; marked on brass cap
¼ S 25 on W half and
S 30 on E half; from which
acedar, 4 ins. diam.; bears
S 42°12' E.; 86 lks. dist.; marked
¼ S 30 BT.

Resurvey of the W. bdy. of T 31 S R 15 W

Chains.	
	a cedar, 12 ins. diam.; bears S 51° W.; 88 lks. dist.; marked 1/4 S 25 BT.
	Note. I fail to find any trace of the old 1/4 sec. cor.
46.00	Descend, step rocky slope
50.00	Wash, 10 lks. wide, course S E.
57.50	Spur, 200 ft above 1/4 sec. cor, projects E. Descend 225 ft.
70.00	Base of rocky desc.; bears W and S E., descend gradually.
76.25	Wash, 25 lks. wide, 1 ft. deep, course S E.; Ascend 50 ft.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia.; 24 ins. in the ground for Westablished cor. of secs. 19, 24, 25 & 30 Marked on brass cap, T 31 S in N. half. R 16 W S 24 in N W. R 15 W S 19 in N E. S 30 in S E and S 25 in S W. quadrant. from which a pinion pine, 6 ins. dia.; bears N 24° 05' E.; 118 lks. dist.; marked T31 S R 15 W S 19 BT. a pinion pine, 8 ins. diam.; bears S 39 1/2° E.; 159 lks. dist.; marked T31S R 15 W S 30 BT. a pinion pine, 5 ins. diam.; bears S 87 1/4° W.; 110 lks. dist.; marked T31S R16 W S 25 BT. a cedar, 8 ins. diam.; bears N 70 1/2° W.; 130 lks. dist.; marked T31S R 16 W S 24 BT.
	Note; I make a careful search but fail to find any trace of the old sec. cor. Land rolling mountainous. Soil, rocky, 3rd rate. Subsoil, lime and granite formation.

Resurvey of the W. bdy. of T 31 S R 15 W.

Chains	
	Timber, dense cedar and pinion pine. Undergrowth sage brush. Rolling mountainous and heavily timbered land, 80.00 chains.
	North resurveying, bet secs. 19 and 24. Over rough mountainous land, through scattering cedar and pinion pine. Sparse undergrowth of sage brush. Ascend steep rocky slope.
9.00	Sandstone ledge, 70 ft. high, bears NE. & SW.
13.00	Top of peak and ridge. 350 ft. above sec. cor., bears N 10° E and S W. Gradually ascend along W slope. 80 ft.
25.50	Ridge, bears NE. and SW. Descend 150 ft.
37.10	Wash, 20 lks. wide in hollow, course NE. Ascend 40 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground, for reëstablished 1/4 sec. cor.; marked on brass cap, 1/4 S 24 on W half and S 19 on E half; from which a pinion pine, 6 ins. diam.; bears S 71 3/4° E.; 80 lks. dist.; marked 1/4 S 19 BT. a cedar, 8 ins. diam.; bears N 75° 40' W.; 60 lks. dist.; marked 1/4 S 24 BT.
	Note. I make a careful search but fail to find any trace of the old 1/4 sec. cor.
	October 12, 1910.
	Oct 13; at 7h 46m a. m. l. m. t., I set off 38° 06 1/4' S on the lat arc, 7° 34' S on the decl. arc, and determine a meridian with the solar at this 1/4 sec. cor. Thence I run North Ascend, 100 ft.

Resurvey of the W. bdy. of T 31 S R 15 W.

Chains.	
45.00	Ridge, bears N E and S W.
46.25	Ridge of granite rock, 50 ft. high, bears N E and W; descend over steep slope.
66.00	Base of steep slope bears E and W. Descend gradually.
72.50	Wash, 330 ft. below ridge, 50 lks. wide, course S 40° E.
75.80	Road. Line to Reel Spring bears N W and S E.
76.25	Wash, 20 lks. wide, 1 ft. deep. Course S E.
80.00	Set iron post, 3 ft. long, 3 ins. in dia; 24 ins. in the ground for reëstablished cor. of secs. 13, 18, 19 & 24. Marked on brass cap.

T 31 S in N half.
R 16 W S 13 in N W.
R 15 W S 18 in N E,
S 19 in S E and
S 24 in S W. quadrant. From which

a cedar, 8 ins. diam.; bears N 29 1/4° E.; 104 lks. dist.; marked T 31 S R 15 W S 18 B T.

a cedar, 15 ins. diam.; bears S 56 1/2° E.; 106 lks. dist.; marked T 31 S R 15 W S 19 B T

a cedar, 10 ins. diam.; bears S 79 3/4° W. 40 lks. dist.; marked T 31 S R 16 W S 24 B T.

a cedar, 8 ins. diam.; bears N 43° W.; 34 lks. dist.; marked T 31 S R 16 W S 13 B T

Note:

I make a careful search but fail to find any trace of the old sec. cor.
Land rough mountainous.
Soil, rocky, 3rd rate.
Timber, scattering cedar and pinion pine.
Undergrowth sage brush.
Rough mountainous land 80.00 ch.

Resurvey of the W. bdy. of T 31 S R 15 W.

Chains	North. resurveying, bet secs. 13 and 18. Over mountainous land through dense forest of cedar and pinion pine. Ascend gradually. 100 ft.
20.00	Wash, 20 lks. wide. 1 ft. deep. in hollow. Course S. W.
34.00	Spur, projects S E. Ascend
40.00	375 ft. above sec. cor. Set an iron post. 3 ft. long. 1 in. in dia.; 26 ins. in the ground for reëstablishing 1/4 sec. cor.; marked on brass cap, 1/4 S 13 on W half and S 18 on E half. from which a cedar. 8 ins. diam.; bears S 51 3/4° E.; 75 lks. dist.; marked 1/4 S 18 BT. a cedar, 8 ins. diam.; bears N 17° W.; 114 lks. dist.; marked 1/4 S 13 BT.
	Note. I make careful search, but fail to find any trace of the old 1/4 sec. cor.
	Ascend along steep W slope.
50.00	Draw. Course S W.
58.00	Ridge, 600 ft. above sec. cor. bears S E and N E..
	Descend along W slope, 100 ft.
80.00	Set an iron post. 3 ft. long. 3 ins. in dia. 24 ins. in the ground, for reëstablishing cor. of secs. 7, 12, 13 and 18 marked on brass cap, T 31 S on N half. R 16 W S 12 in N W. R 15 W S 7 in N E. S 18 in S E. and S 13 in S W. quadrant. from which a pinion pine. 7 ins. diam.; bears N 23 1/2° E.; 92 lks. dist.; marked T 31 S R 15 W S 7 BT a pinion pine, 8 ins. diam.; bears

Resurvey of the W. bdy. of T31S R15W.

drains. S10½° E.; 8 lks. dist.; marked
T31S R15W S18 BT.
a pinion pine, 6 ins. diam.; bears
S56½° W.; 32 lks. dist.; marked
T31S R16W S13 BT.
a pinion pine, 5 ins. diam.; bears
N83°30' W.; 10 lks. dist.; marked
T31S R16W S12 BT.

Note.
This cor. point falls in dense timber. I make careful search for the old bearing trees and cor. but fail to find any trace of them.
Land, mountainous.
Soil, rocky 3rd rate.
Timber, dense cedar and pinion pine on mile.
Undergrowth, scattering sage brush.
Mountainous land, 80.00 chs.
Oct 13:
At this sec. cor. I set off 7°38¾' S on the decl. arc, and at 11h47m a.m. l.m.t. observe the sun on the meridian the resulting lat. is 38°07½'

North, resurveying, bet secs. 7 and 12.
Over mountainous land through dense forest of cedar and pinion pine.
Descend ver land facing N.W.
40.00 Set an iron post. 3 ft. long, 1 in. in dia., 26 ins. in the ground for reestablished ¼ sec. cor., marked on brass cap
¼ S 12 on W half and
S 7 on E half; from which
a cedar, 6 ins. diam.; bears
S54½° E.; 19 lks. dist.; marked
¼ S 7 BT.
a pinion pine, 12 ins. diam.; bears
S40° W.; 31 lks. dist.; marked
¼ S 12 BT.
I make a careful search but fail to find any trace of the old ¼ sec. cor.

Resurvey of the W. bdy. of T31S R 15W.

Chains.

64.00 Wash. 200 ft below sec. cor., 50 lks wide, 1 ft. deep. Course W.; Ascend 50 ft.

72.00 Spur project W.; descend 30 ft.

80.00 Set aliquot post. 3 ft. long 3 ins. in dia.; 24 ins. in the ground for reestablished cor. of secs. 1, 6, 7 and 12 marked on brass cap

T31S in N. bdy.
R16W S1 in NW.,
R15W S6 in NE.,
S7 in S E. and
S12 in SW. quadrant; from which
a cedar, 8 ins. diam.; bears
N 32½° E.; 111 lks dist.; marked
T31S R15W S6 BT.
a cedar, 15 ins. diam.; bears
S. 29°40' E.; 91½ lks. dist.; marked
T31S R15W S7 BT.
a cedar, 12 ins. diam.; bears
S 27½° W.; 64 lks. dist.; marked
T31S R16W S12 BT.
a cedar, 15 ins. diam.; bears
N 78½° W.; 65 lks. dist.; marked
T31S R16W S1 BT.

Note.
I make a careful search, but fail to find any trace of the old sec. cor.
Land, mountainous.
Soil, gravelly, and rocky. 2nd rate.
Subsoil, lime formation.
Timber dense cedar and pinion pine.
Undergrowth, scattering sage brush.
Mountainous and heavily timbered land
80.00 Chains.

North, resurveying, bet secs. 1 and 6.
Over gently rolling land through dense forest of cedar and pinion pine.

Resurvey of the W. bdy. of T 31 S R 15 W.

2.00 Leave timber, bears E. and W.
Enter sagebrush, bears E. and W.
12.00 Spur, projects W., descend 3 ft.
18.00 Enter timber bears S W and S E.
23.55 Wash, 15 lks. wide, course S W.
Ascend over land facing S.
40.00 Set an iron post 3 ft long, 1 in. in dia.; 26 ins. in the ground for reestablishing
1/4 sec. cor., marked on brass cap.
1/4 S 1 on W half and
S 6 on E half; from which
a cedar, 5 ins diam.; bears
S 50°30' E.; 39 lks. dist.; marked
1/4 S 6 B T.
a cedar, 5 ins. diam.; bears
N 75 1/2° W.; 18 lks. dist.; marked
1/4 S 1 B T.

Note.
I make a careful search but fail to find any trace of the old 1/4 sec. cor.

October 13, 1910.

Nov. 22: For reasons as explained in notes of line bet. secs. 1 and 2, T 31 S R 12 W. in book "G" of this survey I commence at this 1/4 sec. cor. and run this line
North.
54.50 Leave timber bears N W and S E.
72.00 Enter dense timber bears E and W.
74.00 Enter bunch grass, leave timber bears E. and W.
88.25 Wash, 30 lks. wide, 1 ft. deep, course S W.
96.00 Enter dense timber, bears E. and W.
111.14 Intersect Sixth Standard Parallel South, 6.01 chs. W. of the Standard Cor. of T 30 S., R's 15 and 16 W., where I set an iron post for reestablishing closing cor. of T 31 S, R 15 and 16 W. marked on brass cap.
T 30 S in N half.

Resurvey of the W. bdy. of T 31 S R 15 W

Chains R 16 W S 36 CC in N W
R 15 W S 31 in N E quadrant of N half.
S 6 R 15 W in S E,
S 1 R 16 W in S W quadrant of S half and
T 31 S in S half, from which
Acedar, 6 ins. diam.; bears
S 21 ½° E.; 57 lks. dist.; marked
T 31 S R 15 W S 6 BT.
Acedar, 7 ins. diam.; bears
S 41° W.; 130 lks. dist.; marked
T 31 S R 16 W S 1 BT.

Note. I made a careful search for the old closing cor. Oct. 14. but failed to find any trace of it. I destroy all traces of the closing cor. erroneously established by me Oct. 14.
Land, rolling,
Soil, gravelly and sandy, 2nd rate.
Subsoil, lime formation.
Timber cedar and pinion on 55.64 chs.
Undergrowth sage brush and bunch grass.
Rolling land 111.14 chains.

November 22, 1910.

Boundaries of T 31 S R 15 W.
Latitudes, departures and closing errors.

Line designated.	True bearing.	Distance chs.	Latitudes North chs	Latitudes South chs.	Departures East chs	Departures West chs.
Sixth. Stan. Par. S.	West	481.30				481.30
W. bdy T31S R15W.	South.	511.14		511.14		
S bdy T31S R15W	N89°53'E.	481.63	.98		481.63	
E bdy T31S R15W	North	510.36.	510.36.			
Convergency						.57
Totals			511.34	511.14	481.63	481.87
			511.14			481.63
Errors in latitude.			.20	.98	in dep.	.24

For general description see subdivision of this township.

Andrew Nelson
Instrumentman G.L.O.

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

LIST OF NAMES.

A list of the names of the individuals employed by Andrew Nelson Instrumentman, G.L.O., ~~United States Deputy Surveyor,~~ to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the S. and W. bdrs. of T 31 S R 15 W. S.L.B.&M. Utah, showing the respective capacities in which they acted:

Jack Barker, Chainman.
Harry F. Wood, Chainman.
George Schroeder, Moundman.
, Moundman.
Harvey Rosenberg, Axman.
, Axman.
John A. Millyard, Flagman.

~~FINAL OATH OF ASSISTANTS.~~

We hereby certify that we assisted Andrew Nelson Instrumentman, G.L.O., ~~United States Deputy Surveyor,~~ in surveying all those parts or portions of the S. and W. bdrs. of T 31 S R 15 W.

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Jack Barker, Chainman.
Harry F. Wood, Chainman.
George Schroeder, Moundman.
, Moundman.
Harvey Rosenberg, Axman.
, Axman.
John A. Millyard, Flagman.

Subscribed and sworn to before me this 15th day of November, 1910.

SEAL

Andrew Nelson
Instrumentman, G.L.O.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ... United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of ..... day of ....., 190 , I have well, faithfully, and truly, in my 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 "V" T.33 S., R.16 W.

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

.....

United States Deputy Surveyor.

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

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, March 7, 1914.

The foregoing field notes of the resurvey of the South and West Boundaries of Township No. 31 South, Range No. 15 West of the Salt Lake Base and Meridian, Utah;

executed by Andrew Nelson under his special instructions, dated August 6, 1910, 190XX, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....

United States Surveyor General.

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

.....

United States Surveyor General.

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Filed Feb.23, 1911.

BOOK A-376

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

TOWNSHIP NO.31 SOUTH,

RANGE NO. 15 WEST

Of the SALT LAKE BASE AND *Meridian,*

in the State of UTAH

EXECUTED BY

ANDREW NELSON AND WALTER A.STUHM

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

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

Group No. 2 *, which were approved by the Commissioner of the General Land*

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

Congress dated *, 191*

Survey commenced October 5 *, 1910*

Survey completed November 22 *, 1910.*

Jack Barker,	Chainman.
Harry F.Wood,	Chainman.
Park Stumm,	Chainman.
Clarence C.Shelby,	Chainman.
George Nelson,	Moundman.
George Schroeder,	Moundman.
Harvey Rosenberg,	Axman.
Joseph A.Ingram,	Axman.
George A.Faust,	Flagman.
John Ad.Millyard,	Flagman.

BOOK A-376

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BOOK A-376

INDEX DIAGRAM.

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Meridian [illegible]

PRELIMINARY OATHS OF ASSISTANTS.

We, Jack Barker, Harry F. Wood, Parks Stumm & Clarence C. Shelly do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; 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 Subdivisions of T 31 S. R 15 W. S.L.B.& M. Wash.

Jack Barker, Chainman
Harry F. Wood, Chainman
Parks Stumm, Chainman
Clarence C. Shelly, Chainman

Subscribed and sworn to before me this 3rd day of October, 1910.

SEAL

Andrew Nelson
Instrumentman, G. L. O.

We, George Nelson and George Schroeder do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of Subdivisions of T 31 S R 15 W. S.L.B.& M. Wash.

George Nelson, Moundman
George Schroeder, Moundman

Subscribed and sworn to before me this 3rd day of October, 1910.

SEAL

Andrew Nelson
Instrumentman, G. L. O.

We, Harvey Rosenberg and Joseph A. Ingram 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 Subdivision of T 31 S R 15 W. S.L.B.& M. Wash.

Harvey Rosenberg, Axman
Joseph A. Ingram, Axman

Subscribed and sworn to before me this 3rd day of October, 1910

SEAL

Andrew Nelson
Instrumentman G. L. O.

We, George A. Faust & John A. Millyard, do solemnly swear that ~~I~~ we will well and truly perform the duties of flagman according to instructions given ~~me~~ us, to the best of ~~my~~ our skill and ability, in the survey of Subdivisions of T 31 S R 15 W. S.L.B.& M. W

George A. Faust, Flagman
John A. Millyard, Flagman

Subscribed and sworn to before me this 3rd day of October, 1910.

SEAL

Andrew Nelson
Instrumentman, G. L. O.

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Subdivisions of T 31 S R 15 W.

Chains. Survey commenced Oct. 5, 1910 and executed with a W. and T. E. Gurley high mountain transit No. 9624 with solar attachment and a Young and Sons solar compass.

For description of instruments see Book "A" of this survey.

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

At the cor. of secs. 1, 2, 35 and 36, in the S bdy. of the Tp., latitude 38°04'17"N., longitude 113°26'54"W., I set off 38°04¼'N. on the lat. arc, 4°39'S on the decl. arc and at 3h. 49m. p.m. l.m.t., determine with the solar compass, a meridian, and mark a point thereof on a peg driven in the ground 5 chs. N. of this cor.

At 6h. 37½m. p.m. by my watch which carries correct 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

October 5, 1910

Oct. 6: at 8h 30m. a.m. l.m.t. I lay off the Azimuth of Polaris, 1°29½' to the West and mark the meridian thus determined by driving a tack in the peg, set Oct. 5, on which the meridian falls. 0.3 ins. E. of the

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	Meridian determined by the solar, Oct. 5. At 8h 48m A. M. 1 m.+, I set off 38° 04 1/4' on the lat. arc, 4° 56' S. on the decl. arc, and mark a point in the meridian thus determined with the solar compass, by driving a tack in the peg already set. 5 chs. N. of my station. This mark falls 0.3 ins. E. of the meridian established by the Polaris observation. The solar apparatus by P. M. and A. M. observation defines positions for meridians, respectively, about 16" W. and E. 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 55m A.M. is N. 15° 45' W; the angle thus determined gives the mean mag. decl. 15° 45' E.
	From this cor. heretofore described I run
	N 0° 01' W bet secs. 35 and 36. Over rough mountainous land through forest of scattering cedar and pinion pine. Dense undergrowth of short sage brush. Descend 90 ft.
4.00	Hollow, course W.; ascend 30 ft.
6.00	Spur, projects S W.; descend 30 ft.
10.00	Hollow, course S W.; ascend 50 ft.
21.00	Spur, projects S W.; descend 80 ft.
28.00	Hollow, course S W.; ascend, 90 ft.
32.00	Spur, projects S W.; descend 5 ft
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap; 1/4 S 35 on W. half and S 36 on E half; from which a cedar, 5 ins. diam.; bears N 6 3 1/2° E.; 118 lks. dist.; marked 1/4 S 36 B T. a cedar, 6 ins. diam.; bears N 6 3/4° W.; 207 lks. dist.; marked

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Chains.	
	1/4 S 35 BT.
	Ascend, 30 ft. to
49.00	Hollow, course SW.; ascend, 110 ft.
53.00	Spur, projects SW.
	Enter dense timber bears NE and SW.
	Descend, 100 ft to
62.00	Hollow, course SW. ascend, 95 ft.
67.00	Spur, projects SW.; descend, 60 ft
71.00	Hollow, course SW.; ascend, 95 ft.
76.00	Spur, projects SW.; descend, 60 ft.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for Cor. of secs. 25, 26, 35 and 36.
	Marked on brass cap,
	T 31 S S 26 in NW
	R 15 W S 25 in NE
	S 36 in SE and
	S 35 in SW quadrants, from which
	a cedar, 12 ins. diam.; bears
	N 46° E.; 47 lks. dist.; marked
	T 31 S R 15 W S 25 BT.
	a cedar, 10 ins. diam.; bears
	S 44 1/4° E.; 22 lks. dist.; marked.
	T 31 S R 15 W S 36 BT
	a cedar, 6 ins. diam.; bears
	S 22 1/4° W.; 16 lks. dist.; marked
	T 31 S R 15 W S 35 BT
	a cedar, 10 ins. diam.; bears
	N 36 1/4° W.; 49 lks. dist.; marked
	T 31 S R 15 W S 26 BT.
	Land rough mountainous.
	Soil, rocky, 6 to 12 ins. deep, 3rd rate.
	Subsoil, granite rock.
	Timber, cedar and pinion pine.
	Undergrowth, dense short sage brush.
	Rough mountainous land 80.00 chs.
	Heavily timbered land, 27.00 chs.
	Oct. 6. At this sec. cor. I see ☉ of 4° 5' 9 1/4" S on the decl. arc, and at 11h 48 1/2m a.m. l.m.t. observe the sun on the meridian, the resulting latitude is 38° 0.5'

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Chains	
	N 89° 53' E on a random line bet secs. 25 and 36.
40.00	Set temp. 1/4 sec. cor.
79.98	Intersect E bdy of Tp., 8 lks. S. of Cor. of secs. 25, 30, 31 and 36 heretofore described
	Thence I run
	S 89° 50' W on a true line bet secs. 25 and 36.
	Over rough mountainous land, through dense forest of cedar and pinion pine, dense undergrowth of short sage brush.
	Descend 5 ft to
1.00	Wash, 6 lks wide, 1 ft deep, course N E; Ascend over rocky E slope of ridge, 620 ft.
33.00	Ridge, bears N E and S W.
	Descend 80 ft to
39.99	Set an iron post 3 ft long, 1 in in dia; 26 ins in the ground for 1/4 sec. cor.; marked w brass cap. 1/4 S 25 on N half and S 36 on S half; from which a cedar, 14 ins diam; bears S 14° W; 54 lks dist; Marked, 1/4 S 36 BT, a cedar, 16 ins. diam; bears N 45° E; 22 lks dist; Marked 1/4 S 25 BT.
	Descend 10 ft
42.00	Hollow, course N E; Ascend over steep rocky N E face of ridge, 340 ft.
54.00	Same ridge, bears N W and S E.
	Descend 85 ft.
56.75	Hollow, course S E; Ascend 260 ft to
67.75	Main ridge, bears N E and S W.
	Descend 250 ft.
79.98	The cor. of secs. 25, 26, 35 and 36.
	Land rough mountainous,
	Soil rocky, 6 ins deep, 3rd rate.

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Chains.	Subsoil. granite rock.
	Timber, dense cedar and pinion pine.
	Undergrowth, sage brush.
	Land rough, mountainous and heavily timbered 79.98 chains.
	October 6, 1910.
	Oct. 7. At 8h 48m a.m. l.m.t. I set of 38° 05' on the lat. arc, 5° 19' S on the decl. arc and determine a meridian with the solar compass at the cor. of secs. 25, 26, 35 and 36.
	Thence I run
	N 0° 01' W bet secs 25 and 26.
	Over rough mountainous land thru dense forest of cedar and pinion pine, dense undergrowth of short sage brush.
	Descend over land facing N W, 15 ft.
3.00	Hollow. course S W; ascend, 90 ft to.
18.00	Ridge, bears N E and S W,
	Descend, 310 ft
36.00	Hollow course W.; ascend, 40 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor., marked on brass cap
	1/4 S 26 on W half and
	S 25 on E half., from which
	a cedar, 12 ins. diam.; bears
	S 26 1/2° E.; 173 lbs. dist.; marked
	1/4 S 25 BT.
	a pinion pine 12 ins. diam.; bears
	N 66° W.; 226 lbs. dist.; marked
	1/4 S 26 BT.
	Ascend, 30 ft.
46.00	Spur, projects W.; descend, 150 ft. to
56.00	Hollow, course N E.; ascend, 65 ft.
64.00	Spur, projects N E.; descend, 50 ft.
71.00	Hollow, course N E.; ascend, 90 ft.
79.50	Spur, projects N E.; descend, 25 ft.

Subdivision of T 31 S R 15 W.

Chains.

80.00 Set an iron post 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 23, 24, 25 and 26. Marked on brass cap.

T31S S 23 in NW.
R15W S 24 in NE
S 25 in SE and
S 26 in SW quadrant, from which
a cedar, 6 ins. diam.; bears
N48¾° E.; 28 lbs. dist.; marked
T31S R 15 W S 24 BT.
a cedar, 6 ins. diam.; bears
S40° E.; 75 lbs. dist.; marked
T31S R15 W S 25 BT.
a cedar, 7 ins. diam.; bears
S 16¼° W.; 82 lbs. dist.; marked
T31S R15 W S 26 BT.
a cedar, 10 ins. diam.; bears
N 56° W.; 76 lbs dist.; marked.
T31S R15 W S 23 BT.

Land rough mountainous.
Soil, rocky and gravelly, 6 to 12 ins. deep, 3rd rate.
Subsoil, granite rock.
Timber cedar and pinion pine.
Undergrowth, dense sheadsage brush.
Land, rough mountainous and heavily timbered 80.00 chains.
Oct 7: At this sec. cor. I set off 5° 22¼' S on the del arc, and at 11h 48m. a.m. l.m.t. observed the sun on the meridian; the resulting lat. is 38° 06'

N 89° 50' E on a random line bet. secs. 24 and 25.

40.00 Set temp. ¼ sec. cor.

80.04 Intersect E bdy of Tp., at the cor. of secs. 19, 24, 25 and 30 heretofore described

Subdivision of T 31 S R 15 W.

Chains	Thence I run
	S 89° 50' W on a true line bet secs. 24 and 25.
	Over rough mountainous land, through dense forest of cedar and pinion pine and undergrowth of short sage brush. Ascend over rocky land facing E 615 ft.
36.00	Main ridge bears NE and SW. Descend 100 ft. to
40.02	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; Marked on brass cap, 1/4 S 24 on N bar and S 25 on S bar; from which a cedar, 8 ins. diam.; bears S 54° W.; 25 lbs. dist.; marked 1/4 S 25 BT. a cedar, 8 ins. diam.; bears N 11 1/4° W; 40 lbs. dist.; Marked 1/4 S 24 BT.
	Descend 320 ft. to
55.50	Hollow, course NW.; ascend 70 ft.
63.00	Spur, project N.; descend 120 ft.
74.00	Hollow, course NE.; ascend 110 ft. to
80.04	The cor. of secs. 23, 24, 25 and 26.
	Land, rough mountainous.
	Soil, rocky, 6 ins. deep, 3rd rate.
	Subsoil, granite rock.
	Timber, dense cedar and pinion pine.
	Undergrowth, dense short sage brush.
	Land, rough mountainous and heavily timbered 80.04 chains.
	October 7, 1910.

Cor. 8: At 7h 48m A. M. L. M. T. I set off 38° 06' on the lat. arc. 5° 40 1/2' S on the decl. arc. and determine a meridian with the solar compass at the cor. of secs. 23, 24, 25 and 26.

Subdivision of T 31 S R 15 W.

Chains. Thence I run
N 0°01' W bet. secs. 23 and 24.
Over rough mountainous land through
dense forest of cedar and pinion pine
dense undergrowth of short sage brush
Descend over rocky land. 160 ft to
10.50 Hollow. Course NE.; ascend, 75 ft.
18.00 Spur, project NE.; descend, 30 ft.
23.00 Hollow, course E.; ascend, 35 ft.
27.00 Spur, projects NE.
Lean dense timber bears NW and SE.
Descend over rocky land facing E.,
through scattering timber, 150 ft.
38.00 Hollow, course NW.; asc. 10 ft.
40.00 Set an iron post, 3 ft. long, 1 in. in
dia.; 26 ins. in the ground for 1/4
sec. cor.; marked on brass cap,
1/4 S 23 on W half and
S 24 on E half, from which
a cedar, 12 ins. diam.; bears
S 64 3/4° E.; 304 lks. dist.; marked
1/4 S 24 BT
a cedar, 5 ins. diam.; bears
N 30 1/4° W.; 144 lks. dist.; marked
1/4 S 23 BT.
ascend, 25 ft.
48.00 Spur, project W.; descend, 20 ft. to
68.00 Same hollow, course NE.; ascend, 60 ft.
80.00 Set an iron post, 3 ft. long, 2 ins. in
dia.; 24 ins. in the ground, for cor.
of secs. 13, 14, 23, and 24. Marked
on brass cap,
T 31 S S 14 in NW
R 15 W S 13 in NE.
S 24 in SE and
S 23 in SW quadrant, from which
a cedar, 10 ins. diam., bears
N 64 3/4° E.; 11 lks. dist.; marked
T 31 S R 15 W S 13 BT
a cedar, 8 ins. diam.; bears
S 29 1/4° E.; 34 lks. dist., marked

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Chains	
	T31S R15 W S 24 BT.
	a cedar 14 ins. diam.; bears
	S 46½° W.; 81 lks. dist.; marked
	T31S R15W S 23 BT.
	a cedar, 8 ins. diam.; bears
	N 60½° W.; 29 lks. dist.; marked
	T31S R15W S 14 BT.
	Land rough mountainous.
	Soil, rocky 6 to 12 ins. deep, 3rd rate.
	Subsoil, granite rock.
	Timber, dense cedar and pinion pine
	Undergrowth, dense short sage brush.
	Rough Mountainous land, 80.00 chs.
	Land heavily timbered 55.00 Chains.
	N 89° 50' E on a random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect E bdy of the Tp., 19 lks. N of cor. of secs. 13, 18, 19 and 24, heretofore described.
	Thence I run
	S 89° 58' W on a true line bet. secs. 13 and 24
	Over rough mountainous land through dense forest of cedar and pinion pine; dense undergrowth of short sage brush; ascend, over rocky land, 210 ft
18.00	Main ridge, bears N E and S W. Descend, 50 ft
28.00	Hollow course N E.; ascend, 50 ft
34.00	Spur, projects N E.; descend, 50 ft.
38.00	Hollow, course N W.; ascend, 25 ft.
40.03	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for ¼ sec. cor.; marked on brass cap;
	¼ S 13 on N half and
	S 24 on S half; from which
	a cedar, 14 ins. diam.; bears
	S 45½° E.; 35 lks. dist.; marked
	¼ S 24 BT.

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a cedar 8 ins. diam.; bears
N 22 1/4° E.; 31 lbs. dist.; marked
1/4 S 13 B T.
Ascend 30 ft.
48.00 Spur, projects N E, descend 60 ft.
51.50 Hollow, course N.; ascend 55 ft.
54.00 Ridge, bears N W and S.; descend 55 ft.
60.00 Hollow, course N W.; ascend 140 ft.
80.06 The cor. of secs. 13 14, 23 and 24.
Land, rough mountainous.
Soil, rocky, 6 to 12 ins. deep, 3rd rate.
Subsoil, granite rock.
Undergrowth, dense short sage brush.
Timber, dense, cedar and pinion pine.
Land rough mountainous and
heavily timbered 80-06 chains.
Oct. 8; at this sec. cor. I set of
5° 45 1/4' S on the decl. arc.; and at
11h 48m A.M. m.t. observe the sun on
the meridian, the resulting lat. is
38° 06 3/4'.

N 0° 01' W bet. secs. 13 and 14.
Over rough mountainous land
through dense forest of cedar and pinion
pine and undergrowth of short sage brush.
Ascend 25 ft. to
4.00 Spur, projects N E.; descend 30 ft.
9.75 Hollow, course N E.; ascend 30 ft.
11.00 Top of spur, projects N E.; descend 30 ft.
15.50 Hollow, course N E.; ascend 70 ft. to
20.00 Spur, projects N E.; descend 90 ft.
40.00 Set an iron post, 3 ft. long, 1 in. in
dia.; 26 ins in the ground, for 1/4 sec.
cor.; marked on brass cap.
1/4 S 14 on W half and
S 13 on E half, from which
a cedar, 16 ins. diam.; bears
S 25 1/4° E.; 33 lbs. dist.; marked
1/4 S 13 B T.
a cedar, 10 ins. diam.; bears

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Chains	
	S 61 1/4° W.; 40 lbs. dist.; marked 1/4 S 14 BT.
	Descend 10 ft.
42.25	Hollow. Course N E.; ascend, 20 ft.
43.50	Spur, projects N E.; descend, 50 ft.
52.00	Hollow. Course N E.; ascend, 70 ft.
56.00	Spur, projects E.; descend, 150 ft.
65.00	Wash, 100 lbs. wide, 2 ft. deep in hollow. Course N W.; thence over rolling W slope of Spur.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for cor. of secs. 11, 12, 13 and 14 marked on brass cap,
	T 31 S S 11 in N W
	R 15 W S 12 in N E,
	S 13 in S E and
	S 14 in S W quadrants, from which
	a pinion pine, 10 ins. diam.; bears
	N 27 3/4° E.; 25 lbs. dist.; marked
	T 31 S R 15 W. S 12 BT.
	a cedar, 12 ins. diam.; bears
	S 23° E.; 33 lbs. dist.; marked
	T 31 S R 15 W S 13 BT.
	a cedar, 16 ins. diam.; bears
	S 28 3/4° W.; 35 lbs. dist.; marked
	T 31 S R 15 W S 14 BT
	a cedar, 18 ins. diam.; bears
	N 88 3/4° W.; 19 lbs. dist.; marked
	T 31 S R 15 W S 11 BT.

Land, rough mountainous.
Soil, rocky, 6 to 12 ins. deep, moderate.
Subsoil, granite rock.
Timber, dense cedar and pinion pine.
Undergrowth, dense short sage brush.
Land mountainous and heavily timbered
80.00 Chains.

October 8, 1910.

October 10: at 7h 47m a.m. l.m.t

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Chains	I set of 38°08' on the lat. arc, 6°26' S on the decl. arc, and determine a meridian with the solar compass at the cor. of secs. 11, 12, 13 and 14.
	N 89°58' E on a random line bet. secs. 12 and 13
40.00	Set temp. 1/4 sec. cor.
80.10	Intersect E. bdy. of Tp.; 2 1/2 lks. S of cor. of secs. 7, 12, 13 and 18. heretofore described.
	Thence I run
	S 89°57' W on a true line bet. secs. 12 and 13.
	Over rocky Mountainous land through dense forest of cedar and pinion pine and undergrowth of short sage brush
	Descend 165 ft.
16.00	Wash, 15 lks. wide, 1 ft. deep, in hollow, course S.E.; ascend 120 ft.
40.05	Set an iron post, 3 ft long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec cor.; marked on brass cap,
	1/4 S 12 on N half and
	S 13 on S half; from which
	a cedar, 6 ins. diam.; bears
	S 19 1/2° W.; 6 lks. dist. marked,
	1/4 S 13 BT.
	a cedar 8 ins. diam.; bears
	N 33 3/4° E.; 25 lks. dist.; marked
	1/4 S 12 BT.
	Ascend 120 ft.
55.00	Ridge, bears N E and S E.; descend 150 ft.
63.00	Hollow, course S W.; ascend 150 ft.
71.00	Spur, projects S W.; descend 200 ft.
80.10	The cor. of secs. 11, 12, 13 and 14.
	Land, mountainous.
	Soil, rocky, 6 to 12 ins. dep, 3rd rate.
	Subsoil, granite rock.
	Timber cedar and pinion pine.
	Undergrowth dense short sage brush.
	Land mountainous and heavily timbered
	80.10 Chains.

Subdivision of T 31 S R 15 W.

Chains	
	N 0° 01' W bet secs. 11 and 12.
	Over rolling mountainous land through dense forest of cedar and pinion pine and undergrowth of short sage brush
	Descend, over rocky land, 75 ft.
18.51.	Road Lund to Dotson spring, bears N E and S W
23.50	Wash, 50 lks wide, 4 ft. deep in main hollow, course N E.;
26.62	Wash, 25 lks. wide, 2 ft. deep, course E.
37.90	Wash, 25 lks. wide, 2 ft. deep, course S E.
40.00	Set an iron post. 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap
	1/4 S 11 on W half and
	S 12 on E half; from which
	a cedar, 8 ins. diam.; bears
	N 70° E.; 38 lks. dist.; marked
	1/4 S 12 B T.
	a cedar, 15 ins. diam.; bears
	S 76 1/2° W.; 109 lks. dist.; marked
	1/4 S 11 B T.
	Ascend, 35 ft
44.00	Low ridge, bears E and W., descend. 40 ft.
49.80	Wash, 35 lks. wide, 4 ft. deep, course S E.
54.00	Wash, 50 lks. wide, 3 ft. deep, course S E.
63.64	Wash, 30 lks. wide, 2 ft. deep, course S E.
	Asc. 80 ft to.
80.00	Set an iron post. 3 ft long, 2 in. in 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 N W
	R 15 W S 1 in N E
	S 12 in S E and
	S 11 in S W quadrant; from which
	a cedar, 8 ins. diam.; bears
	N 53° E.; 14 lks. dist.; marked
	T 31 S R 15 W S 1 B T
	a cedar, 10 ins. diam.; bears
	S 66 1/2° E.; 44 lks. dist.; marked

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Chains	
	T 31 S R 15 W S 12 BT.
	a cedar, 12 ins. diam.; bears
	S 30 3/4° W.; 6 lks. dist.; marked
	T 31 S R 15 W S 11 BT,
	a cedar, 8 ins. diam.; bears
	N 64° W.; 31 lks. dist.; marked
	T 31 S R 15 W S 2 BT
	Land, rolling mountainous.
	Soil, rocky and gravelly, 8 to 12 ins
	deep, 2nd rate.
	Subsoil, lime formation.
	Timber, cedar and pinion pine.
	Undergrowth, dense short sage brush
	Land, rolling mountainous and
	heavily timbered 80.00 chains.
	Oct. 10. At this sec. cor. I set off 6° 31' S
	on the decl. arc., and at 11h 47m a.m.
	l.m.t. observe, the sun on the meridian;
	the resulting lat. is 38° 08 1/2.
	N 89° 57' E on a random line bet. secs.
	1 and 12.
40.00	Set temp. 1/4 sec. cor.
80.10	Intersect E. bdy of TP., 7 lks. N of the
	cor. of secs. 1, 6, 7 and 12 heretofore
	described.
	Thence I run
	West on a true line bet. secs 1 and 12
	Over, rolling mountainous land
	through dense forest of cedar and
	pinion pine. Undergrowth of
	scattering sage brush.
20.00	Wash, 100 lks. wide. 2 ft. deep. course S E.
40.05	Set an iron post. 3 ft long. 1 in. in
	dia.; 26 ins. in the ground for
	1/4 sec. cor. marked on brass cap
	1/4 S 1 on N half and
	S 12 on S half. from which
	a pinion pine, 10 ins. diam.; bears
	S 59 1/4° E.; 34 lks. dist.; marked

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chains	
	1/4 S 12 BT.
	@ pinion pine 10 ins. diam.; bears N 59 1/4° E.; 71 lks. dist.; marked 1/4 S 1 BT.
	ascend, 40 ft to
46.00	Spur, projects N.; descend, 20 ft.
48.00	Wash, 20 lks. wide, 1 ft. deep, course N.E. ascend, 25 ft.
50.00	Spur, projects N E.; descend, 15 ft.
53.00	Wash, 20 lks. wide, 1 ft. deep, course N E. ascend, 40 ft.
58.00	Spur, projects N E.; descend, 25 ft.
60.00	Wash, 20 lks. wide, 1 ft. deep, course N E, ascend, 30 ft.
64.00	Spur, projects S.; descend, 30 ft.
66.00	Wash, 25 lks. wide, 1 ft. deep, course S E, ascend, gradually 40 ft. to
74.00	Spur, projects N.; descend, 75 ft.
80.10	The cor. of secs. 1, 2, 11 and 12.
	Land rolling mountainous.
	Soil, gravelly and rocky, 6 to 12 ins. deep, 2nd rate.
	Subsoil, lime formation.
	Timber cedar and pinion pine.
	Undergrowth, scattering sage brush.
	Land, rolling mountainous and heavily timbered 80.10 chains.

Knowing the location of Dotson Spring and cabin to be in sec. 12 and not being visible from any cor. or point on line, I return to the 1/4 sec. cor. bet. secs. 1 and 12 and run South on blank line to locate the spring and cabin. At 36.17 chs, fall 3.51 chs. W. of Dotson spring and 6.54 chs. W of the cabin. The true bearing, from the 1/4 sec. cor. bet. secs. 1 and 12 to the spring is S 55° 33' E and the distance is 36.34 chs. The true bearing from the 1/4 sec. cor. to the cabin is S 10° 15' E and the distance is 36.76 chains. A small stream of good, and clear water flows a short distance from the Spring.

Subdivision of T. 31 S. R. 15 W.

Chains.

Oct. 10. 1910
Walter A. Stumm
Instrumentman, G. L. O.

October 19: at 7h 45m a.m. l.m.t. I set off 38° 08½' on the lat arc. 9° 46½' S on the decl. arc. and determine a meridian with the solar transit at the cor. of secs. 6. 2. 11 and 12.
Thence I run.
N 0° 01' W on a true line bet. secs. 1 and 2.
Over rolling land thru dense forest of cedar and pinion pine and short sage brush.

5.00 Wash. 20 lks. wide. 1 ft. deep, course S.E. Ascend 20 ft.

13.75 Spur. projects E.; descend 30 ft.

15.50 Wash, 40 lks. wide, 1 ft. deep, course S 80° E.

31.50 Wash, 55 lks. wide 1 ft. deep, course S.E.

40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec cor.; marked on brass cap
1/4 S 2 on W half and
S 1 on E half: from which
a pinion pine, 16 ins. diam; bears
S 49¼° E.; 42 lks. dist.; marked
1/4 S 1 B.T.
a cedar, 18 ins. diam; bears
S 50¼° W.; 16 lks. dist.; marked
1/4 S 2 B.T.

Oct 19: at this 1/4 sec. cor. I set off 9° 51½' S on the decl. arc and at 11h 45m A.M. l.m.t. observe the sun on the meridian; the resulting latitude is 38° 09'
Nov. 21. For reasons as explained in notes of mile run bet secs. 1 and 2, T 31 S R. 12 in Book "G" of

Subdivision of T 31 S R 15 W.

Chains	
	this survey, I commence at this 1/4 sec. cor and extend my line N 0° 01' W.
67.00	Wash, 30 lks. wide, 1 ft. deep, course S E.
76.75	Wash, 25 lks. wide, 1 ft. deep, course S E.
	Ascend, rev land facing S., 40 ft.
80.50	Ridge, bears E and S 80° W.
	Descend, 30 ft.
89.10	Wash, 35 lks. wide, 1 ft. deep, course S E.
103.50	Wash, 40 lks. wide, 1 ft deep, course S E
110.42	Intersect the Standard Parallel South, 4.66 chains, W. of the Standard Cor. of secs. 35 and 36, T 30 S R 15 W., Where I set an iron post, 3 ft. long, 2 ins. in dia; 24 ins. in the ground for Closing Cor. of secs. 1 and 2,
	Marked w brass cap,
	CC T 30 S R 15 W, S 35 - S 36 in N half
	S1 in S E and
	S2 in S W quadrant, from which
	a cedar, 8 ins. diam; bears
	S 45° E; 32 lks. dist; marked
	T 31 S R 15 W S 1 BT.
	a pinion pine, 10 ins. diam; bears
	S 13 1/2° W.; 100 lks. dist; marked
	T 31 S R 15 W S 2 BT.
	I destroy all trace of the closing cor erroneously set by me Oct 19.
	Land, rolling.
	Soil, sandy and gravelly, 10 to 14 ins. deep, 2nd rate.
	Timber cedar and pinion pine.
	Subsoil, lime formation.
	Undergrowth, dense short sage brush.
	Land, heavily timbered 110.42 chains.

Oct. 7. Knowing my instrument to be in adjustment from test on Polaris, Sept. 27, given in Book "J" of this survey, I commence at the cor. of secs. 2, 3, 34 and 35 -

Subdivision of T 31 S R 15 W.

Chains	
	in the S Bdy of the Tp. heretofore described.
	At 7h 48m a.m. l.m.t. I set off 38°04½' on the lat. arc, 5°17½' S on the decl. arc. and determine a meridian with the solar transit at this cor.
	Thence I run
	N 0°01' W bet. secs. 34 and 35.
	Over mountainous land thru dense forest of cedar and scattering pinion pine.; ascend 20 ft
1.40	Spur, projects W.; descend, 80 ft.
23.00	Hollow, course S W. ascend, over land sloping S E. 230 ft.
40.00	Set an iron post. 3 ft. long, 1 in. in dia.; 26 ins. in the ground for ¼ sec. cor.; marked on brass cap.
	¼ S 34 on W half and
	S 35 on E half.; from which
	a pinion pine, 8 ins diam.; bears
	N 39½° E.; 49 lks. dist. marked
	¼ S 35 BT.
	a cedar, 10 ins. diam.; bears
	S 77¾° W.; 48 lks. dist.; marked
	¼ S 34 BT.
	Continue ascend, over land sloping S, 100 ft to
46.50	Rocky ridge, bears E and S 60° W.
	Descend, over steep N slope, 150 ft. to
52.80	Hollow, course W, ascend 125 ft.
58.60	Point of spur, projects W.; descend 200 ft.
70.74	Hollow, course W.; ascend 60 ft.
73.00	Point of spur, projects W.; descend 50 ft.
75.35	Wash, 20 lks. wide, 1 ft deep in hollow. course S 30° W. asc. 50 ft.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for. cor. of secs. 26, 27, 34 and 35 marked on brass cap.
	T 31 S S 27 in N W

Subdivision of T 31 S R 15 W.

chains	
	R15WS26 in NE
	S35 in SE and
	S34 in SW quadrant, from which
	a cedar, 20 ins. diam.; bears.
	N 66° E.; 14 lks. dist.; marked
	T31S R15WS26 BT.
	a cedar, 18 ins. diam.; bears
	S2° E.; 70 lks. dist.; marked
	T31S R15WS35BT.
	a pinion pine, 4 ins. diam.; bears.
	S3½° W.; 47 lks. dist.; marked
	T31S R15WS34BT.
	a cedar, 18 ins. diam.; bears.
	N62° W.; 31 lks. dist.; marked
	T31S R15WS27BT.
	Land, mountainous.
	Soil, rocky, 12 ins. deep, 3rd rate.
	Subsoil, granite formation.
	Timber, dense cedar and scattering
	Pinion pine.
	Land mountainous and heavily timbered
	80.00 chains.
	Oct 7: at this sec. cor. I set off. 5°
	22¼' S on the decl arc and at
	11h 48m. A.M. l.m.t. observe the
	sun on the meridian; the
	resulting lat. is 38°05'
	N 89°53' E on a random line bet.
	secs. 26 and 35.
40.00	Set. temp. ¼ sec. cor.
80.04	Intersect N and S line, at the cor.
	of secs. 25, 26, 35 and 36.
	Thence I run
	S89°53' W. on a true line bet. secs.
	26 and 35.
	Over mountainous land, through
	dense forest of cedar.
	Descend, over rocky land, 75 ft.
2.80	Hollow, course SW.; ascend, over
	steep, rocky, E. slope 325 ft.

Subdivision of T 31 S R 15 W.

Chains.	
13.80	Rocky ridge, bears N.E. and S.W. Descend over steep slope, 400 ft. to
27.00	Thence desc. gradually, 100 ft.
37.00	Head of hollow, course S.W.; asc. 30 ft.
40.02	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap. 1/4 S 26 on N. half and S 35 on S half; from which a pinion pine, 26 ins. diam.; bears N 31 1/2° E., 60 lks. dist.; marked 1/4 S 26 B T. a pinion pine, 24 ins. diam.; bears S 26° W.; 49 lks. dist.; marked 1/4 S 35 B T. Ascend 30 ft.
43.00	Rocky ridge, bears N and S.W. Thence along S slope of ridge.
67.25	Top of rocky peak and ridge, bears N E and S.W.; descend 200 ft.
76.80	Wash, 20 lks. wide, 2 ft. deep in hollow, course S.W.; ascend 30 ft.
80.04	The cor. of secs. 26, 27, 34 and 35 Land, mountainous. Soil, rocky, 8 to 12 ins. deep, 3rd. rate. Subsoil, granite rock Timber, dense cedar. Land, mountainous and heavily timbered, 80.04 Chains.

October 7, 1910.

Oct. 8: at 7h 48m. a.m. l.m.t. I set off 38° 05' on the lat. arc, 5° 40 1/2' S on the decl. arc, and determine a meridian with the solar transit at the cor. of secs. 26, 27, 34 and 35 Thence I run N 0° 01' W. bet. secs. 26 and 27. Over rolling mountainous land through dense forest of cedar.

Subdivision of T 31 S R. 15 W.

Chains	
	Gradually ascending over land facing S E., 100 ft.
12.00	Ridge, bears N 80° E and S 80° W. Descending 60 ft
32.00	Hollow, course S 80° E.; ascending 40 ft.
33.40	Spur, projects S E.; descending 50 ft.
38.00	Head of hollow, course S E.; ascending 40 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap: 1/4 S 27 on W. half and S 26 on E half; from which a cedar, 8 ins. diam.; bears S 49 1/2° E., 54 lks. dist.; marked 1/4 S 26 BT. a cedar, 6 ins. diam.; bears N 54 3/4° W.; 28 lks. dist.; marked 1/4 S 27 BT.
	Ascending 20 ft.
47.00	Spur, projects S. E., descending 40 ft.
56.70	Head of hollow, course East; ascending 80 ft.
59.50	Ridge, bears E. and W. Gradually descending nearly level land, 40 ft.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground, for cor. of secs. 22, 23, 26 and 27. Marked on brass cap: T 31 S S 22 in NW, R 15 W S 23 in NE, S 26 in SE and S 27 in SW quadrant; from which a cedar, 10 ins. diam.; bears N 61 3/4° E.; 72 lks. dist.; marked T 31 S R 15 W S 23 BT. a cedar, 8 ins. diam.; bears S 67° E.; 100 lks. dist.; marked T 31 S R 15 W S 26 BT. a cedar, 14 ins. diam.; bears S 45 1/2° W.; 30 lks. dist.; marked T 31 S R 15 W S 27 BT. a cedar, 16 ins. diam.; bears

Subdivision of T 31 S R 15 W.

Chains	
	N 55 1/4° W., 37 lks. dist.; marked T31S R15W S 22 B.T.
	Land, rolling mountainous
	Soil, rocky, 6 to 12 ins. deep, 3rd rate.
	Subsoil, granite rock.
	Timber, dense cedar.
	Land, rolling mountainous and heavily timbered 80.00 chains.
	Oct. 8: at this sec. cor. I set off 5°45 1/4' S on the decl. arc, and at 11h 48m a.m. l.m.t. observe the sun on the meridian; the resulting latitude is 38°06'.
	N 89°53' E on a random line bet. secs. 23 and 26.
40.00	Set temp. 1/4 sec. cor.
79.96	Intersect. N. and S. line, 2 1/2 lks. N. of the cor. of secs. 23, 24, 25 and 26.
	Thence I run
	S 89°54' W. on a true line bet. secs. 23 and 26.
	Over mountainous land, through dense forest of cedar,
	Ascend 30 ft.
2.00	Spur, projects N E.; descend 40 ft.
7.50	Hollow, course N.; ascend 75 ft.
18.00	Ridge bears N and S W.; descend over land, sloping N., 175 ft.
38.00	Hollow, course N E.; ascend 10 ft.
39.98	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap, 1/4 S 23 on N half and S 26 on S half; from which a cedar, 9 ins. diam.; bears S 8° W.; 40 lks. dist.; marked 1/4 S 26 B.T.
	a pinion pine, 5 ins. diam.; bears N 50° E., 44 1/2 lks. dist.; marked 1/4 S 23 B.T.

Subdivision of T 31 S R. 15 W.

chains.	Ascend 50 ft.
45.00	Granite shale spur, projects N.
	Descend over land facing NW.; 150 ft.
57.80	Wash, 20 lks wide, 1 ft. deep, course N.
	Ascend 50 ft.
79.96	The cor. of secs. 22, 23, 26 and 27.
	Land, mountainous,
	Soil, gravelly and rocky, 3rd rate.
	Subsoil, granite rock,
	Timber, cedar,
	Land mountainous and heavily timbered 79.96 chains.
	October 8, 1910.
	Oct. 10; at 7h. 17m a.m. l.m.t. I set off 38°06' on the lat. arc, 6°25½' S on the decl. arc, and determine a meridian with the solar transit at the cor. of secs. 22, 23, 26 and 27.
	Thence I run.
	N 0°01' W bet secs. 22 and 23.
	Over mountainous land, thence dense forest of cedar and scattering pinion pine.
	Desc., over rocky land facing E., 40 ft.
10.00	Head of hollow, course N E.
	Ascend 100 ft.
28.00	Ridge, bears N E. and S W.
	Descend over land sloping N W., 100 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap, 1/4 S 22 on W half and S 23 on E half; from which a pinion pine, 8 ins. diam.; bears S 14½° E.; 24 lks. dist.; marked 1/4 S 23 BT. a cedar, 6 ins. diam.; bears N 55° W.; 29 lks. dist.; marked 1/4 S 22 BT.
	Descend 100 ft.
48.00	Thence, descend gradually over land

Subdivision of T 31 S. R 15 W.

Chains Facing N.

77.00 Wash, 20 lks. wide, 1 ft. deep, in hollow, course N.

79.00 Leave wash, bears N W.

80.00 Set an iron post, 3 ft long, 2 ins. in dia.; 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap:

T 31 S S 15 in N W,
R 15 W S 14 in N E,
S 23 in S E and
S 22 in S W quadrant; from which
a cedar, 10 ins. diam.; bears
N 37½° E.; 13 lks. dist.; marked
T 31 S R 15 W S 14 B T.
a pinion pine, 4 ins. diam.; bears
S 18 ¾° E.; 14 lks. dist.; marked
T 31 S R 15 W. S 23 B T.
a cedar, 12 ins. diam.; bears
S 23½° W.; 16 lks. dist.; marked.
T 31 S R 15 W S 22 B T.
a cedar, 16 ins. diam.; bears
N 2 ¾° W.; 70 lks. dist.; marked
T 31 S R 15 W. S 15 B T.

Land, mountainous.
Soil, rocky, and gravelly; 3rd rate.
Subsoil, granite rock.
Timber cedar and pinion pine.
Land, mountainous and heavily timbered 80.00 Chains.
Oct. 10. at this sec. cor. I set off 6° 31' S on the decl. arc, and at 11h 47m a.m. l.m.t., observe the Sun on the Meridian; the resulting latitude is 38° 06¾'.

N 89° 54' E on a random line bet. secs. 14 and 23.

40.00 Set temp. ¼ sec. cor.

79.84 Intersect N and S line, 19 lks. N. of the cor. of secs. 13, 14, 23 and 24.

Subdivision of T 31 S R. 15 W.

Chains.	Thence I run.
	N 89° 58' W on a true line bet. secs. 14 and 23.
	Over rolling mountainous land through dense forest of cedar and scattering piñon pine, asc., gradually. 50 ft.
10.00	Ascend red step. E slope of peak. 250 ft.
24.00	Top of ascent on S. slope of rocky Peak and ridge, bears NE and South; descend, 150 ft. red step slope.
30.50	Draw course N W.; descend 50 ft.
38.00	Foot of step desc.; descend, gradually 30 ft.
39.92	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap, 1/4 S 14 on N half and S 23 on S half; from which a piñon pine, 12 ins. diam.; bears S 10° E., 49 lks. dist.; marked 1/4 S 23 BT a piñon pine, 12 ins. diam.; bears N 32 1/2° E., 33 lks. dist.; marked 1/4 S 14 BT.
	Descend, 30 ft.
56.75	Wash, 20 lks wide, 1 ft. deep, in hollow, course N 5° E.; ascend 60 ft.
62.00	Low ridge, bears N E and S W. Gradually ascend, 60 ft.
73.00	Top of knoll, bears NE and SW, 5 chs. Descend, over rocky W. slope of knoll, 100 ft.
79.84	The cor. of secs. 14, 15, 22 and 23.

Land, rolling, mountainous.
Soil, rocky and gravelly, 3rd rate.
Timber, cedar and piñon pine.
Land rolling mountainous and heavily timbered 79.84 chains.

Subdivision of T 31 S R 15 W.

Chains	N 0° 01' W bet. secs. 14 and 15. Over rolling mountainous land through dense forest of cedar and yellow pine. Descend along bottom of hollow.
5.00	Wash, 30 lks. wide, 1 ft. deep, in hollow. Course N 20° E. Gradually ascend, over land facing E., 75 ft.
28.00	Spur, projects N E.; descend over land facing N W.; 30 ft.
37.00	Head of hollow, course N W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap: 1/4 S 15 on W half and S 14 on E half; from which, a cedar, 8 ins. diam.; bears N 29½° E.; 41 lks dist.; marked 1/4 S 14 BT. a cedar, 7 ins. diam.; bears S 70° W.; 47 lks. dist.; marked 1/4 S 15 BT
43.50	Wash, 10 lks. wide, 1 ft. deep, in hollow, course N E.; ascend 40 ft.
49.00	Low ridge, bears N 70° E and S 70° W. Descend, 60 ft.
54.50	Wash, 20 lks wide. 1 ft. deep in main hollow, course N E and Road, Dotson Spring to Sund, bears N E and S W. Thence over gently rolling land, sloping East.
79.90	Wash, 10 lks. wide, 1 ft. deep, course S E.
80.00	Set an iron post, 3 ft long, 2 ins. in dia.; 24 ins. in the ground for Cor. of secs. 10, 11, 14 and 15; marked on brass cap T 31 S S 10 in N W. R 15 W S 11 in N E.

Subdivision of T 31 S R 15 W.

Chains.	
	S 14 in S E and S 15 in S W quadrant; from which a cedar, 8 ins. diam.; bears N 75° E., 39 lks. dist.; marked T 31 S R 15 W S 11 B T. a pinion pine, 11 ins. diam.; bears S 59½° E.; 48 lks. dist.; marked T 31 S R 15 W S 14 B T. a cedar, 7 ins. diam.; bears S 57¾° W.; 65 lks. dist.; marked T 31 S R 15 W S 15 B T. a pinion pine, 5 ins. dia.; bears N 34¼° W.; 94 lks. dist.; marked T 31 S R 15 W S 10 B T. Land, rolling, mountainous and gently rolling. Soil, rocky and gravelly, 2nd rate. Subsoil, lime formation. Timber, cedar and pinion pine. Land, rolling Mountainous 54.50 Chains. Land, heavily timbered 80.00 Chains. October 10, 1910.
	Oct. 11. at 7h. 17m. a. m. l. m. t. I set off 38° 08' on the lat. arc, 6° 46' S on the decl. arc, and determine a meridian with the solar transit at the cor. of secs. 10, 11, 14 and 15. S 89° 58' E on a random line bet. secs. 11 and 14
40.00	Set temp. ¼ sec. cor.
79.78	Intersect. N. and S. line, 28 lks N of the cor. of secs. 11, 12, 13 and 14 Thence I run N 89° 46' W on a true line bet. secs. 11 and 14. Over rolling land, through dense forest of cedar and pinion pine.

Subdivision of T 31 S R 15 W.

Chains Gradually descend, over land draining N W.

15.00 Wash, 20 lks. wide, 1 ft. deep, course N W E,

27.00 Wash, 20 lks. wide, 1 ft. deep, in main hollow, course N E,

28.66 Road, Sumo to Dotson Spring, bears N E, and S W.

35.00 Leave timber, bears N and S W.

39.89 Set an iron post, 3 ft. long, 1 in. in dia.; 26 lks. in the ground, for 1/4 sec. cor.; marked on brass cap,
1/4 S 11 on N half and
S 14 on S half; from which:
a cedar, 16 lks. diam.; bears
S 88 1/2° E.; 480 lks. dist.; marked
1/4 S 14 B T,
a cedar, 12 lks. diam.; bears
N 79° W., 466 lks. dist.; marked
1/4 S 11 B T.

46.00 Enter dense timber, bears N and S,
Ascend, over land facing E,

72.55 Wash, 10 lks. wide, 1 ft. deep, course S E,

79.78 The cor. of secs. 10, 11, 14 and 15-
Land, rolling.
Soil, gravelly, 2nd rate.
Timber, dense cedar and pinion pine
Land heavily timbered 68.78 chains.

N 0° 01' W bet. secs. 10 and 11.
Over hilly land, through dense forest of cedar and scattering pinion pine, and undergrowth of sage brush.
Ascend, gradually, 30 ft.

19.00 Low ridge, bears E. and W. Descend 30 ft.

35.07 Wash, 10 lks. wide, 1 ft. deep, course S 80° E.; ascend 40 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 lks. in the ground, for

Subdivision of T 31 S R 15 W.

Chains.	1/4 sec. cor.; marked on brass cap, 1/4 S10 on W half and S11 on E half; from which a cedar, 5 ins. diam.; bears N 42 1/2° E., 113 lks. dist.; marked 1/4 S 11 BT, a cedar, 5 ins. diam.; bears S 86° 05' W.; 52 lks. dist.; marked 1/4 S10 BT.
	Note: this cor. set on a low ridge bears E, and W. Oct. 11; at this 1/4 sec. cor. I set off 6° 53 1/2' S on the decl. arc, and at 11h. 47m. a.m. l.m.t., observe the sun on the meridian; the resulting latitude is 38° 08'
44.10	Wash, 10 lks. wide, 1 ft. deep, course N E.
49.65	Wash, 10 lks. wide, 1 ft. deep, course E, ascend, 30 ft.
59.00	Low ridge, bears E, and W, descend, 30 ft.
75.34	Wash, 10 lks. wide 1 ft. deep, course East.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked on brass cap: T31S S 3 in N W, R15W S2 in N E, S11 in S E and S10 in S W quadrant; from which a pinion pine, 6 ins. diam.; bears N 50° E.; 42 1/2 lks. dist.; marked T31S R 15 W S 2 BT, a pinion pine, 6 ins. diam.; bears S 16° E.; 39 lks. dist.; marked T31S R 15 W S 11 BT, a pinion pine, 8 ins. diam.; bears S 47° W.; 55 1/2 lks. dist.; marked T31S R15W S10 BT, a pinion pine, 6 ins. diam.; bears N 47 1/2° W.; 25 lks. dist.; marked

Subdivision of T 31 S R. 15 W.

Chains.	T 31 S R 15 W S 3 B.T.
	Land hilly.
	Soil, gravelly, 2nd rate.
	Subsoil, lime formation.
	Timber, dense cedar and piñon pine.
	Undergrowth, scattering sage brush
	Land, heavily timbered 80-00 chs.
	S 89°46' E on a random line bet. secs. 2 and 11.
40.00	Set temp 1/4 sec. cor.
79.80	Intersect N and S line, 16 lks. N of the cor. of secs. 1, 2, 11 and 12.
	Thence I run.
	N 89° 39' W. on a true line bet. secs. 2 and 11.
	Over rolling land, through dense forest of cedar and piñon pine.
	Ascend, gradually, over land facing E.
32.00	Foot of Knoll, bears N and S.
	Ascend 0-0 ft.
36.30	Top of Knoll, bears N 3 chs. and S 3 chs.; descend, 40 ft.
39.90	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap, 1/4 S 2 on N half, and S 11 on S half; from which a piñon pine, 6 ins. diam.; bears S 42 1/4° E.; 50 lks. dist.; marked 1/4 S 11 B.T. a piñon pine, 7 ins. diam.; bears N 17 1/2° W.; 25 lks. dist.; marked 1/4 S 2 B T
	Ascend 10 ft. to.
42.00	Foot of Knoll, bears N and S.
44.00	Wash, 10 lks. wide, 1 ft. deep, course S E.
	Ascend gradually, over land facing E., 10 ft.

Subdivision of T31S R. 15W.

Chains

79.80 The cor. of secs. 2, 3, 10 and 11.
Land, rolling.
Soil, gravelly, 2nd rate.
Subsoil, lime formation.
Timber, cedar and pinion pine.
Land heavily timbered, 79.80 chs.

October 11, 1910.

Oct. 19: at 1h 45m p.m. l.m.t. I set off 38°08½' on the lat. arc, 9°53'S on the decl. arc, and determine a meridian with the solar transit, at the cor. of secs. 2, 3, 10 and 11.
Thence I run.
No°01'W on a true line, bet. secs. 2 and 3
Over rolling land, through dense forest of cedar and pinion pine, and undergrowth of sage brush.

40.00 Set an iron post, 3 ft long, 1 in. in dia.; 26 ins. in the ground, for ¼ sec. cor.; marked on brass cap:
¼ S3 on W half and
S2 on E half; from which:
a pinion pine, 10 ins. diam., bears
S 83°40'E., 9 lbs. dist.; marked
¼ S 2 B T.
a pinion pine, 8 ins. diam., bears
S 49½°W.; 80 lbs. dist.; marked
¼ S 3 B T.

Oct. 19. 1910.

Nov. 21: For reasons as explained in notes of line run bet. secs 1 and 2, T31S R12W in Book "G" of this survey, I commence at this ¼ sec. cor. and run this line North 0°01'W.

49.00 Wash, 30 lbs wide 1 ft deep, course S.E.

Subdivision of T 31 S R. 15 W.

Chains	
	Ascend 40 ft.
53.50	Ridge, bears E. and W.; descend 40 ft.
68.75	Wash, 30 lks. wide, 1 ft. deep, course SE.; thence sev land facing E.
91.75	Spur, projects NE.; descend gradually 30 ft.
94.00	Wash, 10 lks. wide, 1 ft. deep, course SE, ascend 30 ft.
101.00	Spur, projects NW.; desc. 30 ft. to
110.03	Intersect Sixth Standard Parallel South, 4.66 chs. W. of the Standard Cor. of secs. 34 and 35; T 30 S R 15 W, heretofore described, at which point I set an iron post 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for closing cor. of secs. 2 and 3, marked on brass cap, CC T 30 S R 15 W S 34 S 35 in N half, S 2 in SE and S 3 in SW quadrant; from which a cedar, 9 ins. diam.; bears S 51° E.; 72 lks. dist., marked T 31 S R 15 W S 2 BT. a cedar, 11 ins. dia.; bears S 25½° W.; 96 lks. dist. marked T 31 S R 15 W S 3 BT.

Land, rolling.
Soil, gravelly, 2nd rate.
Subsoil, lime formation.
Timber, cedar and pinion pine.
Undergrowth, Sage brush.
Land heavily timbered 110.03 chs.
Note: I destroy all traces of the closing cor. erroneously set by me October 19.

Andrew Nelson
Instrumentman G. L. O.

Subdivision of T 31 S R 15 W.

Chains	
	Oct. 11: at 7h. 47m. a.m. l.m.t. I set off 38°04¼' on the lat. arc, 6°49¼' S on the decl. arc, and determine a meridian with the solar compass 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. on Over rough mountainous land through dense forest of cedar and pinion pine and undergrowth of short sage brush;
	Ascend 15 ft.
1.00	Spur, projects S W.; descend 65 ft.
8.50	Hollow, course S W.; ascend 75 ft.
14.00	Spur, projects E.; descend 25 ft.
17.50	Hollow, course S E.; ascend 75 ft
24.00	Spur, projects SW.; descend 75 ft.
30.25	Hollow, course S W.; ascend 120 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for ¼ sec. cor.; marked on brass cap ¼ S 33 on W half. and S 34 on E half; from which a cedar, 10 ins. diam.; bears N 60¼° E.; 66 lks. dist.; marked ¼ S 34 BT. a cedar, 6 ins. diam.; bears N 24½° W.; 56 lks. dist.; marked ¼ S 33 BT
	Ascend 10 ft.
42.00	Ridge, bears N W and S E.
	Descend 90 ft.
51.50	Hollow, course S E.; ascend 80 ft.
56.00	Spur, projects S E.; descend 50 ft.
63.00	Hollow, course S E.; ascend 150 ft.
80.00	On E slope of ridge. Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground, for cor. of secs. 27, 28, 33 and 34 Marked on brass cap:

Subdivision of T 31 S R 15 W.

Chains	
	T 31 S S 28 in NW. R 15 W S 27 in NE, S 34 in SE, and S 33 in SW. quadrant, from which a pinion pine, 10 ins. diam.; bears N 58° E.; 39 lbs. dist.; marked T31S R15W S 27 BT. a cedar, 6 ins. diam.; bears S 48° E.; 66 lbs. dist.; marked T31S R15W S34BT. a pinion pine, 8 ins. diam.; bears S 29° W.; 84 lbs. dist.; marked T31S R15W S 33 BT. a cedar, 6 ins. diam.; bears N 31° W.; 70 lbs. dist.; marked T31S R15W. S 28 BT.
	Land, rough mountainous. Soil, rocky, 12 ins. deep, 3rd rate. Subsoil, granite rock. Timber cedar and pinion pine. Undergrowth, scattering sage brush. Land, rough mountainous and heavily timbered 80.00 Chains.
	N 89° 53' E on a random line bet. secs. 27 and 34
40.00	Set temp 1/4 sec. cor.
80.06	Intersect N and S line at the cor. of secs. 26, 27, 34 and 35.
	Thence I run. S 89° 53' W on a true line bet. secs. 27 and 34.
	Over rough mountainous land through dense forest of cedar and pinion pine. Scattering undergrowth of short sage brush. Ascend 30 ft.
2.50	Spur, projects S 5° W.; descend 60 ft.
6.50	Hollow, course SW.; ascend 80 ft.
13.00	Spur, projects S.; descend 30 ft.
16.00	Hollow, course SW.; ascend 20 ft.
18.00	Spur, projects SW.; descend 50 ft.

Subdivisions of T 31 S R 15 W.

Chains.	
20.50	Hollow, course S W.; ascend 100 ft.
28.00	Spur, projects S W.; descend 75 ft
32.00	Hollow, course S W.; ascend 60 ft.
40.03	Set an iron post, 3 ft long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap: 1/4 S 27 on N half and S 34 on S half; from which a cedar, 6 ins. diam.; bears S 32° W.; 77 lks. dist.; marked 1/4 S 34 B T. a cedar, 8 ins. diam.; bears N 76 1/4° E.; 83 lks. dist.; marked 1/4 S 27 B T.
	Ascend 40 ft.
42.50	Spur, projects S.; descend 270 ft.
53.00	Hollow, course S W.; ascend 50 ft.
56.00	Spur, projects S E.; descend 20 ft.
59.00	Hollow, course S E.; ascend 150 ft
66.00	Ridge bears N E and S W; descend 100 ft
72.50	Head of hollow, course N W.; ascend 35 ft.
74.00	Same ridge, bears N W and S E.; descend. 25 ft.
76.50	Head of hollow, course S E.; ascend 60 ft
80.06	The cor. of secs. 27, 28, 33 and 34
	Land rough mountainous.
	Soil rocky, 8 to 12 ins deep, 3rd rate.
	Subsoil. granite rock.
	Timber, cedar and pinion pine.
	Undergrowth, short sage brush.
	Land rough mountainous and heavily timbered 80.06 Chains.
	Oct. 11: at this sec. cor. I set off 6° 5' 3 1/2' S on the decl. arc, and at 11h 47m. a.m. l.m.t, observe the sun on the meridian; the resulting lat. is 38° 05'
	N 0° 02' W. bet. secs. 27 and 28.

Subdivision of T 31 S R 15 W.

Chains	Over rough mountainous land through dense forest of cedar and pinion pine; and scattering undergrowth of sage brush, ascend 30 ft.
6.00	Ridge, bears SE and SW., descend 125 ft.
23.00	Hollow, course NW.; ascend 50 ft.
28.00	Spur, projects NW.; descend 50 ft.
36.00	Hollow, course W.; ascend 40 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap 1/4 S 28 on W half and S 27 on E half; from which a cedar, 12 ins. diam.; bears N 39° E.; 60 lks. dist.; marked 1/4 S 27 BT. a cedar, 10 ins. diam.; bears S 43 3/4° W.; 25 lks. dist.; marked 1/4 S 28 BT Ascend 15 ft.
42.00	Spur, projects W.; descend 30 ft.
46.00	Hollow, course SW.; ascend 75 ft
50.00	Spur, projects W.; descend 125 ft.
78.00	Hollow, course W.; ascend 10 ft
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, marked on brass cap T 31 S S 21 in NW. R 15 W S 22 in NE. S 27 in SE and S 28 in SW quadrant; from which a pinion pine, 12 ins. diam.; bears N 27 1/4° E.; 85 lks. dist.; marked T 31 S R 15 W S 22 BT. a cedar, 8 ins. diam.; bears S 56 1/2° E.; 19 lks. dist.; marked T 31 S R 15 W S 27 BT. a pinion pine, 10 ins. diam.; bears S 65 3/4° W.; 102 lks. dist.; marked T 31 S R 15 W S 28 BT.

Chains.	
	a cedar, 9 ins. diam.; bears N 56 3/4° W.; 9 lks. dist.; marked. T 31 S R 15 W S 21 B.T.
	Land, rough mountainous.
	Soil, rocky, 8 to 12 ins deep, 3rd rate.
	Subsoil, lime formation.
	Timber, cedar and pinion pine.
	Undergrowth, scattering sage brush.
	Land, rough mountainous and heavily timbered 80.00 Chains.
	October 11, 1910.
	Oct. 12: at 7h. 47m. a.m. l.m.t. I set off 38°06' on the lat arc, 7°11½' S on the decl. arc, and determine a meridian with the solar compass at the cor. of secs. 21, 22, 27 and 28.
	Thence I run
	N 89°53' E on a random line bet. secs. 22 and 27.
40.00	Set temp 1/4 sec. cor.
80.10	Intersect N and S line, 5 lks. S of the cor. of secs. 22, 23, 26 and 27.
	Thence,
	S 89°51' W on a true line bet. secs. 22 and 27.
	Over rough mountainous land through dense forest of cedar and pinion pine, scattering undergrowth of short sage brush;
	Ascend, over rocky E. face of ridge. 90 ft.
12.00	Ridge, bears N. and S.; descend 360 ft.
30.00	Hollow, course NW.; ascend 50 ft.
36.00	Spur, projects NE.; descend 15 ft.
38.00	Hollow, course NE.; ascend 20 ft.
40.05	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor; marked on brass cap. 1/4 S 22 on N half and

Subdivision of T 31 S R 15 W.

Chains.	
	S 27 on S half, from which a cedar, 8 ins. diam., bears N 44 3/4° E., 18 lks. dist.; marked 1/4 S 22 BT.
	a pinion pine, 8 ins. diam., bears S 30 1/2° W., 12 1/2 lks. dist., marked 1/4 S 27 BT.
	Ascend 100 ft
52.00	High rocky ridge, bears N W. and S E.
	Descend, over steep, rocky, W face of ridge, 500 ft.
80.10	The cor. of secs. 21, 22, 27 and 28
	Land, rough mountainous.
	Soil, 8 to 18 ins. deep, of granite formation, 3rd rate.
	Subsoil, lime formation.
	Timber, cedar and pinion pine.
	Undergrowth, scattering sage brush
	Land rough mountainous and heavily timbered 80.10 Chains.
	Oct. 12: at this sec. cor., I set off 7°16 1/4' S on the decl. arc, and at 11h 47m. A. M. l. m. t., observe the sun on the meridian; the resulting latitude is 38°06'.
	N 0°02' W. bet. secs. 21 and 22.
	Over rolling, mountainous land, through dense forest of cedar, pinion pine and scattering undergrowth of sage brush.
	Descend 25 ft
3.00	Wash, 10 lks wide, 1 ft. deep, course S W.
	Ascend 75 ft.
8.25	Spur, projects N W.; desc. 15 ft.
10.00	Hollow, course N W.; asc. 50 ft.
22.00	Ridge, bears N W and S E., descend 60 ft.
40.00	Set an iron post, 3 ft long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap, 1/4 S 21 on W half and

Subdivision of T 31 S R 15 W.

Chains.	
	S 22 on E half., from which
	a cedar, 8 ins. diam.; bears
	S 34 1/4° E.; 105 lks. dist.; marked
	1/4 S 22 BT.
	a cedar, 10 ins. diam.; bears
	N 70 1/2° W.; 112 lks. dist.; marked
	1/4 S 21 BT.
44.00	Leave dense timber bears N E, and S W.
	Descend, gradually, through scattering
	timber, bears. N E and S W., 50 ft.
75.00	Road, Fund to Dotson Spring bears
	N E, and S W., in
	Hollow, course N. E.
	Enter dense timber, bears N E. and S W.
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.
	Marked on brass cap.
	T 31 S S 16 in N W.
	R 15 W S 15 in N E.
	S 22 in S E, and
	S 21 in S W quadrant; from which
	a pinion pine, 18 ins. diam.; bears
	N 57 1/2° E.; 45 lks. dist., marked
	T 31 S R 15 W S 15 BT.
	a pinion pine, 8 ins. diam.; bears
	S 45 3/4° E.; 27 lks. dist.; marked
	T 31 S R 15 W S 22 BT.
	a cedar, 12 ins. diam.; bears
	S 15 1/4° W.; 43 lks. dist.; marked
	T 31 S R 15 W. S 21 BT.
	a cedar, 8 ins. diam.; bears
	N 56 1/4° W.; 41 lks. dist.; marked
	T 31 S R 15 W S 16 BT.
	Land, rolling mountainous.
	Soil, gravelly, 8 to 12 ins deep, 3rd rate
	Subsoil. lime formation.
	Timber, cedar and pinion pine.
	Undergrowth, scattering sage brush.
	Land, heavily timbered 49.00 Chains.

Subdivision of T 31 S R 15 W.

Chains	
	N 89° 51' E on a random line bet. secs. 15 and 22.
40.00	Set temp. 1/4 sec. cor.
80.14	Intersect N. and S. line; 7 lks. S. of the cor. of secs. 14, 15, 22 and 23.
	Thence Drun
	S 89° 48' W. on a true line bet. secs. 15 and 22.
	Over rolling mountainous land, through dense forest of cedar and pinion pine. Dense undergrowth of short sage brush
.40	Hollow, course N E.; ascend 60 ft.
14.00	Spur, projects N E.; descend 15 ft.
16.00	Hollow, course N E.; ascend 35 ft.
20.00	Spur, projects N.; descend 90 ft.
29.00	Hollow, course N E., ascend 50 ft.
36.00	Spur, projects N E.; descend 35 ft.
40.07	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap: 1/4 S 15 on N half and S 22 on S half; from which a cedar, 8 ins. diam.; bears S 2 1/2° E.; 29 lks. dist.; marked 1/4 S 22 B T. a cedar, 5 ins. diam.; bears N 10 1/2° W.; 36 lks. dist.; marked, 1/4 S 15 B T.
	Descend 50 ft.
48.00	Hollow, course N E.; ascend 15 ft.
52.00	Spur, projects N E.; descend,
60.00	Leave dense timber bears N E and S W.
62.00	40 ft below spur,
	Hollow, course N E.
64.26	Road, Dotson Spring to Sand, bears N E and S W.
	Ascend, gradually, 15 ft.
68.00	Enter dense timber bears N E and S W.
80.14	The cor. of secs. 15, 16, 21 and 22.
	Land, rolling mountainous.

Subdivision of T 31 S R 15 W.

Chains.	Soil, gravelly and rocky, 2nd rate.
	Subsoil, lime formation.
	Timber, dense cedar and piñon pine.
	Undergrowth, dense short sage brush.
	Land, heavily timbered 72.14 chains.
	October 12, 1910.
	Oct. 13: at 7h. 46m. a. m. l.m.t. I set off 38° 06 3/4' on the lat. arc, 7° 34' S on the decl. arc, and determine a meridian with the solar compass at the cor of secs. 15, 16, 21 and 22.
	Thence I run.
	N 0° 02' W. bet. secs. 15 and 16
	Over rolling mountainous land through dense forest of cedar and piñon pine. Scant undergrowth of short sage brush
20.00	Foot of lime stone ridge, bear. N E and S W.
	Ascend, over rough mountainous land, 250 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; Marked on brass cap 1/4 S 16 on W half and S 15 on E half; from which a piñon pine, 12 ins. diam.; bears N 87 3/4° E.; 70 lbs. dist.; marked 1/4 S 15 BT. a piñon pine, 12 ins. diam.; bears N 48 1/2° W.; 87 lbs. dist.; marked 1/4 S 16 BT.
	Ascend 150 ft.
49.00	Spur, projects E.; descend 40 ft.
52.00	Ravine, course E.; ascend 70 ft.
56.00	Spur, projects E.; descend 80 ft.
59.00	Ravine, course E.; asc. 125 ft.
69.00	Spur, projects N E.; descend, 140 ft.

Subdivision of T 31 S R. 15 W.

Chains.	
73.00	Ravine, course N E.; ascend 20 ft.
74.50	Spur, projects N E.; descend 30 ft.
77.50	Ravine, course N E.; ascend 50 ft.
80.00	On S. slope of spur,

Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in a mound of earth and stone for cor. of secs. 9, 10, 15 and 16, marked on brass cap,

T 31 S S 9 in N W.
R 15 W S 10 in N E,
S 15 in S E and
S 16 in S W quadrant; from which

a pinion pine, 6 ins. diam.; bears N 18¼° E.; 109 lks. dist.; marked
T 31 S R 15 W S 10 B.T.

a pinion pine, 8 ins. diam.; bears S 47° E.; 49 lks. dist.; marked
T 31 S R 15 W S 15 B.T.

a pinion pine, 8 ins. diam.; bears S 52° W.; 79 lks. dist.; marked
T 31 S R 15 W S 16 B.T.

a pinion pine, 8 ins. diam.; bears N 72° W.; 80 lks. dist.; marked
T 31 S R 15 W S 9 B.T.

Note: Natural obstacles prevent me from setting this cor. more than 12 ins. in the ground.

Land, rolling and rough mountainous.
Soil, rocky, 6 to 12 ins. dep. 3rd rate.
Subsoil, lime rock.
Timber, dense cedar and pinion pine on the north.
Undergrowth, scant sage brush.
Land, rough mountainous 60.00 chains.

Oct 13: At this sec. cor. I set a of 7° 38¾' S on the decl. arc, and at 11h 46m a.m. l.m.t., observe the sun on the meridian; the resulting latitude is 38° 08'.

N 89° 48' E on a random line bet. secs. 10 and 15.

40.00	Set temp ¼ sec., cor.

Subdivision of T 31 S R 15 W.

Chains.	
80.18	Intersect N. and S. line, 9 lks. S. of the Cor. of secs. 10, 11, 14 and 15.
	Thence I run
	S 89° 44' W on a true line bet. secs 10 & 15
	Over rolling mountainous land through dense forest of cedar and pinion pine
	Scant undergrowth of short sage brush.
2.18	Wash, 40 lks. wide, 2 ft. deep, course S.E.
40.09	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap 1/4 S 10 on N half and S 15 on S half; from which a pinion pine, 12 ins. diam.; bears S 26° W.; 15 lks. dist.; marked 1/4 S 15 B.T. a cedar, 15 ins. diam.; bears N 1° E.; 49 lks. dist.; marked 1/4 S 10 B.T.
	Ascend, on steep rocky land facing East, 5 20 ft.
80.18	The cor. of secs. 9, 10, 15 and 16.
	Land, rolling, mountainous.
	Soil, gravelly and rocky, 2nd and 3rd rate.
	Subsoil, lime rock.
	Timber cedar and pinion pine,
	Undergrowth, short sage brush
	Land, rolling mountainous and heavily timbered 80.18 chains.
	N 0° 02' W. bet. secs. 9 and 10.
	Over rough mountainous land through dense forest of cedar and pinion pine; scattering undergrowth of sage and mahogany brush
	Ascend 5 5 ft.
3.50	Spur, projects E.; descend 100 ft.
7.50	Ravine, course E.; ascend 150 ft.
12.50	Spur, projects NE.; descend 280 ft.
28.00	Hollow, course E.; ascend 130 ft.

Subdivision of T 31 S R 15 W.

Chains

37.50 Spur, projects E.; descend 55 ft.

40.00 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. Cor.; marked on brass cap,

1/4 S 9 on W half and
S 10 on E half; from which,
a juniper pine, 6 ins. diam.; bears
N 57° E.; 22 lks. dist.; marked
1/4 S 10 B.T.
a juniper pine, 6 ins. diam.; bears
S 45° W.; 4 lks. dist.; marked
1/4 S 9 B.T.

Descend, over steep, rocky N. slope 290 ft.

54.00 Hollow. Course E.; ascend, over steep rocky, S slope, 400 ft.

76.00 Spur, projects E.; descend 50 ft.

79.00 Hollow. Course S E.; ascend 20 ft.

80.00 Set an iron post, 3 ft. long, 2 in. in dia.; 24 ins. in the ground, for cor. of secs. 3, 4, 9 and 10., marked on brass cap,

T31S S 4 in N W,
R 15 W S 3 in N E,
S 10 in S E and
S 9 in S W. quadrant; from which
a cedar, 10 ins. diam.; bears
N 40 3/4° E.; 35 lks. dist.; marked
T31S R 15 W S 3 B.T.
a cedar, 10 ins. diam.; bears
S 34 1/4° E.; 54 lks. dist.; marked
T31S. R 15 W. S 10 B T
a juniper pine, 8 ins. diam., bears
S 71 1/2° W.; 18 lks. dist.; marked
T31S R15W S 9 B T.
a juniper pine, 16 ins. diam.; bears
N 74 3/4° W.; 74 lks. dist.; marked
T31S R 15 W S 4 B T.

Land, rough mountainous.
Soil, rocky, 6 to 12 ins. deep, 3rd rate.

Subdivision of T 31 S R 15 W.

Chains	
	Subsoil. S 54 lbs. lime rock, N. 26 lbs. sand stone
	Timber, cedar and pinion pine
	Undergrowth, sage brush, and mahogany.
	Land, rough mountainous and heavily timbered 80.00 chains.
	October 13. 1910.
	Oct. 19., at 7h. 45m. a.m. l.m.t. I set off 38° 08½' on the lat. arc., 9° 46½' S on the decl. arc., and determine a meridian with the solar compass at the cor. of secs. 3, 4, 9 and 10. Thence N 89° 44' E on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.18	Intersect N. and S. line, 9 lbs. S. of the cor. of secs. 2, 3, 10 and 11. Thence I run, S 89° 40' W on a true line bet. secs. 3 and 10.
	Over rolling mountainous land, through dense forest of cedar and pinion pine. Ascend 70 ft.
33.00	Spur projects, S E.; descend 25 ft.
37.00	Hollow, course S E.; ascend over rough mountainous land 25 ft.
40.09	Set an iron post, 3 ft. long 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor.; marked on brass cap. ¼ S 3 on N half, and S 10 on S half; from which a pinion pine, 10 ins diam.; bears S 9¾° E.; 41 lbs. dist.; marked ¼ S 10 B T, a pinion pine, 6 ins. diam.; bears N 53¾° E.; 25 lbs. dist.; marked ¼ S 3 B T.

Subdivision of T 31 S R. 15 W.

Chains	
	Ascend, 270 ft.
57.00	Spur, projects S E.; descend 40 ft.
62.00	Hollow, course S E.; ascend 270 ft.
78.00	Spur, projects S E.; descend 50 ft.
80.18	The cor. of secs. 3, 4, 9 and 10.
	Land, rolling and rough mountainous.
	Soil, gravelly and rocky, 6 to 10 ins. deep, 3rd. rate.
	Subsoil sand stone.
	Timber cedar and pinion pine on Mile.
	Undergrowth scant sage brush.
	Land, rough mountainous 4,3.18 chs.
	Oct. 19; At this sec. cor. I set off 9° 51½' S on the decl. arc, and at 11h 45m a.m. l.m.t. observe the sun on the meridian; the resulting latitude is 38° 08½'.
	N 0° 02' W on a true line bet secs. 3 and 4.
	Over rough mountainous land, through dense forest of cedar and pinion pine. Scattering under-growth of mahogany.
	Ascend, over sand stone boulders, 430 ft.
26.00	Sandstone ridge, bears N E and S W.
	Descend, along W. face of ridge, 90 ft.
35.50	Ravine, course S W.; ascend 100 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for ¼ sec cor.; marked on brass cap, ¼ S 4 on W half and S 3 on E half; from which a cedar, 8 ins. diam.; bears S 84½° E.; 12 lks. dist.; marked ¼ S 3 B T.

Subdivision of T.31S., R.15W.

Chains

A pinion pine 18 ins. diam. bears N 50¼° W., 26 lks. dist.; marked ¼ S 4 B T

Nov. 22; For reasons as explained in notes of line run bet. secs 1 and 2, T.31S., R12W. in book "G" of this survey. I commence at this ¼ sec cor and run my line N. 0° 02' W.

Ascend 60 ft.

44.50 Spur, projects SW.; descend 75 ft.

50.10 Hollow, course SW.; ascend 50 ft.

54.00 Spur, projects SW.; descend 40 ft.

58.00 Hollow, course SW.; ascend 540 ft.

94.00 Same ridge, bears N and S E; descend along top of ridge 180 ft. to

110.55 Intersect Sixth Standard Parallel South, 4.90 chs. West of the Standard cor. of secs 33 and 34, T.30S R15W., heretofore described, at which point I set an iron post, 3 ft. long, 2 ins in dia., 24 ins in the ground, for closing cor. of secs. 3 and 4, marked on brass cap

CC T30S R15W S33 S34 on N half.

S3 in SE and

S4 in SW quadrant; from which

A pinion pine, 12 ins. diam., bears S 39¾° W., 41 lks. dist.; marked T31S R15W S3 B T

A pinion pine, 12 ins. diam., bears S 33¾° W., 32 lks. dist., marked T31S R15W S4 B T.

I destroy all traces of closing cor. erroneously set by me Oct. 19.

Land, rough mountainous.

Soil, rocky 4th rate; subsoil sandstone S 20 chs.

Limestone N 10.55 chs.

Timber, dense cedar and pinion pine.

Undergrowth, scattering mahogany.

Nov. 22, 1910.

Oct. 14; At 8h 46m a.m. l.m.t. I set off 38° 04¼' on the lat. arc. 7° 58' S. on the decl. arc. and determine a meridian with the solar compass at the cor.

chains

of secs. 4, 5, 32 and 33 in the S. bdy of the tp heretofore described.
Thence I run.
N. 0° 03' W. bet. Secs. 32 and 33.
Over rolling mountainous land through dense forests of cedar and pinion pine
Dense undergrowth of short sage brush.
Ascend 50 ft.
22.00 Spur, projects SE.; descend 40 ft.
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap,
1/4 S 32 on W half and
S 33 on E half; from which
A cedar 24 ins. diam., bears N 52 1/4° E.; 29 lks. dist.; marked
1/4 S 33 BT.
A cedar, 18 ins. diam., bears
N 29 1/4° W.; 36 lks dist., marked
1/4 S 32 BT.
Descend 20 ft.
45.00 Hollow, course SE.; ascend 75 ft.
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, marked on brass cap
T 31 S S 29 in NW.
R 15 W S 28 in NE.
S 33 in SE and
S 32 in SW quadrant; from which
A pinion pine, 16 ins. diam., bears
N. 71° E., 81 lks. dist., marked
T 31 S R 15 W S 28 BT
A pinion pine, 10 ins. diam., bears
S. 60 1/2° E., 146 lks. dist., marked
T 31 S R 15 W S 33 BT.
A pinion pine, 6 ins. diam., bears
S 71° W., 59 lks. dist., marked
T 31 S R 15 W S 32 BT
A cedar, 8 ins. diam., bears
N. 10° W, 59 lks. dist., marked
T 31 S R 15 W S 29 BT

Subdivision of T 31 S R 15 W.

chains.	Land rolling mountainous.
	Soil, rocky, 6 to 12 ins deep, 3rd rate.
	Subsoil, granite rock.
	Timber dense cedar and pinion pine.
	Undergrowth, dense short sage brush.
	Rolling mountains and heavily timbered land 80.00 chains.
	October 14: at this sec. cor. I set off 8°01¼' S on the decl. arc, and at 11h 46m a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 38°05'
	N 89°53' E on a random line bet secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 27, 28, 33 and 34. Thence I run S 89°50' W. on a true line bet secs. 28 and 33.
	Over rough mountainous land through dense forest of cedar and pinion pine. Sparse undergrowth of short sage brush.
	Ascend. 40 ft.
2.00	Ridge, bears N E. and S W.
	Descend. 75 ft.
6.00	Head of hollow, course S W.; ascend 110 ft.
12.00	Ridge, bears N E. and S W.; descend 280 ft. to
39.00	Hollow. course S W.; ascend 15 ft.
39.98	Set an iron post, 3 ft long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor.; marked on brass cap. ¼ S 28 on N. half and S 33 on S half; from which a pinion pine, 14 ins. diam.; bears S 80° W.; 148 lks. dist.; marked ¼ S 33 BT.

Subdivision of T 31 S R 15 W.

Chains.	
	a piñon pine, 8 ins. diam.; bears N 18½° E.; 27 lks. dist.; marked ¼ S 28 BT.
46.50	Spur, projects SW.; descend 50 ft.
56.00	Hollow, course SW.; ascend 35 ft.
65.00	Spur, projects SW.; descend 25 ft.
69.00	Hollow, course SW.; ascend 30 ft.
79.96	The cor. of secs. 28, 29, 32 and 33,
	Land rough mountainous.
	Soil, rocky, 6 to 12 ins. deep. 3rd rate
	Timber, dense cedar and piñon pine.
	Undergrowth, sage brush.
	Land, rough mountainous and heavily timbered 79.96 chains.
	N 0° 03' W. bet. secs. 28 and 29.
	Over rolling, mountainous land through dense forest of cedar and piñon pine and undergrowth of short sage brush.
	Ascend, 15 ft.
2.00	Ridge, bears N E. and SW., descend 50 ft.
12.00	Hollow, course SW.; ascend 30 ft.
19.00	Spur, projects SW.; descend 25 ft.
32.00	Hollow, course SW.; ascend 30 ft.
37.50	Blue granite spur, projects W. 1 chain; descend 20 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for ¼ sec. cor.; marked on brass cap; ¼ S 29 on W half and S 28 on E half; from which a piñon pine, 20 ins. diam.; bears S 9¾° E.; 171 lks. dist.; marked ¼ S 28 BT. a cedar, 20 ins. diam.; bears S 7½° W.; 151 lks. dist.; marked ¼ S 29 BT.
	Descend, 5 ft.
42.00	Hollow, course SW.

Subdivision of T 31 S R 15 W.

chains.	Road, Lund to Dotson Spring, bears N E. and S W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for Cor. of secs. 20, 21, 28 and 29. Marked on brass cap. T 31 S S 20 in N W. R 15 W S 21 in N E, S 28 in S E and S 29 in S W quadrant; from which a cedar, 12 ins. diam.; bears N 80½° E.; 205 lks. dist.; marked T 31 S R 15 W S 21 BT. a pinion pine, 10 ins. diam.; bears S 53½° E.; 193 lks. dist.; marked. T 31 S R 15 W. S 28 BT. No suitable bearing trees available in other secs. Raise a mound of stone. 2 ft. base, 1½ ft. high, W. of cor. Land, rolling, mountainous. Soil, rocky, and gravelly, 2nd rate. Subsoil, granite and lime formation. Timber, dense cedar and pinion pine. Undergrowth, dense short sage brush. Land rolling mountainous and heavily timbered 80.00 chains. October 14, 1910.
	October 15: Continuous showers of rain and snow prevents field work. October 15, 1910.
	Oct. 17: Showers of rains prevents field work until 9.45 a.m. At 9h 45½m. a.m. l.m.t. I set off 38°06' on the lat. arc, 9°05¾' S on the decl. arc, and determine a

Subdivision of T 31 S R 15 W.

Chains. Meridian with the solar compass at the cor. of secs. 20, 21, 28 and 29.

N 89°50' E on a random line bet. secs. 21 and 28.

40.00 Set. temp. 1/4 sec. cor.,

79.96 Intersect N. and S. line, 2 lks. S of the cor. of secs. 21, 22, 27 and 28.

Thence I run

S 89°49' W. on a true line bet. secs. 21 and 28.

Over, rolling mountainous land through dense forest of cedar and pinion pine. Dense undergrowth of short sage brush.

Descend 50 ft.

20.50 Wash, 10 lks. wide, 1 ft. deep in hollow, course S W.; Ascend,

36.00 Leave dense timber bears N E. and S W.

39.98 50 ft. above hollow.

Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; Marked on brass cap, 1/4 S 21 on N. half and S 28 on S half; raise a mound of stone 2 ft. base, 1 1/2 ft. high. N. of cor.

Ascend, 30 ft.

43.00 Spur, projects S W.; descend 260 ft.

62.60 Hollow course S W.

64.15 Road, Lund to Dotson Spring, bears N E. and S W.

Enter dense timber bears N E. and S W.

78.00 Leave dense timber, bears N E. and S W.

79.96 The cor. of secs. 20, 21, 28 and 29.

Land, rolling mountainous.

Soil, gravelly and rocky, 2nd rate.

Subsoil, lime formation.

Timber, dense cedar and pinion pine.

Undergrowth dense short sagebrush.

Land heavily timbered 49.85 Chains.

Subdivision of T 31 S R 15 W.

chains	
	Oct. 17: at the sec. cor. to sec. off 9°07¾' S on the decl. arc, and at 11h 45½m. a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 38°06'.
	N. 0°03' W. bet secs. 20 and 21. Over rolling mountainous land through dense under growth of sage brush; ascend 80 ft.
6.00	Spur, projects E.; descend 40 ft.
12.00	Ravine, course S E.; ascend 115 ft.
14.00	Enter scattering cedar and pinion pine, bears N E. and S W.
21.00	Ridge, bears N E. and S W. Descend W. slope, 130 ft.
38.00	Hollow, course S W.; ascend 5 ft.
40.00	Enter dense cedar and pinion pine, bears N E. and S W. Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for ¼ sec. cor.; marked on brass cap. ¼ S 20 on W half and S 21 on E half; from which a cedar, 6 ins. diam.; bears S 26½° E.; 24 lks. dist.; marked ¼ S 21 BT. a cedar, 6 ins. diam.; bears S 63° W.; 169 lks. dist.; marked ¼ S 20 BT. Ascend 30 ft.
44.00	Spur, projects W.; descend 25 ft.
50.00	Hollow, course S W.; ascend 35 ft.
70.20	Wash, 25 lks. wide, 5 ft. deep, course S W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground, for cor. to secs. 16, 17, 20 and 21. Marked on brass cap, T 31 S S 17 in N W., R 15 W S 16 in N E., S 21 in S E and

Subdivision of T 31 S R 15 W.

Chains.	
	S 20 in SW quadrant; from which a cedar, 10 ins. diam.; bears N 45 1/4° E.; 14 lks. dist.; marked T 31 S R 15 W S 16 BT. a cedar, 6 ins. diam.; bears S 34 1/2° E.; 49 lks. dist.; marked T 31 S R 15 W S 21 BT. a piñon pine, 10 ins. diam.; bears S 12° W.; 66 lks. dist.; marked T 31 S R 15 W S 20 BT. a piñon pine, 10 ins. diam.; bears N 59 1/2° W.; 64 lks. dist.; marked T 31 S R 15 W S 17 BT. Land rolling, mountainous. Soil, gravelly and rocky, 2nd rate. Subsoil, lime and granite formations. Timber cedar and piñon pine. Undergrowth, dense short sage brush. Land heavily timbered 40.00 chains.
	N 89° 49' E. on a random line bet. secs. 16 and 21.
40.00	Set temp. 1/4 sec. cor.
79.96	Intersect, N. and S. line, at the cor. of secs. 15, 16, 21 and 22. Thence I run S 89° 49' W. on a true line bet. secs. 16 and 21. Over, rolling, mountainous land, through dense forest of cedar and piñon pine. Sparse undergrowth of short sage brush. Ascend 300 ft. to
39.98	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap, 1/4 S 16 on N half and S 21 on S half; from which a piñon pine, 6 ins. diam.; bears S 38° W.; 53 lks. dist.; marked

Subdivision of T 31 S R 15 W.

Chains	
	1/4 S 21 BT.
	a cedar, 12 ins. diam.; bears
	N 22 1/2° E.; 27 lks. dist.; marked
	1/4 S 16 BT.
	Ascend 25 ft. to
44.00	Ridge, bears N E and S 5° W.
	Descend 290 ft.
76.00	Wash, 15 lks. wide, 1 ft. deep, course
	SW.; ascend 10 ft.
79.96	The cor. of secs. 16, 17, 20 and 21.
	Land, rolling, Mountainous.
	Soil, rocky and gravelly, 14 ins. deep,
	2nd rate.
	Subsoil, lime and granite formation.
	Timber cedar and pinion pine on mdl.
	Undergrowth, sparse sage brush.
	October 17, 1910.

Oct. 18: at 7h. 45m. a. m. l. m. t. I set off 38° 06 3/4' on the lat. arc, 9° 25 1/2' S, on the decl. arc, and determine a meridian with the solar compass at the cor. of secs. 16, 17, 20 and 21. Thence I run N 0° 03' W bet. secs. 16 and 17. Over rolling, Mountainous land, through dense forest of cedar and pinion pine. Sparse undergrowth of sage brush.

40.00	Set an iron post, 3 ft. long, 1 in. in
	dia.; 26 ins. in the ground, for
	1/4 sec. cor., marked on brass cap,
	1/4 S 17 on W half and
	S 16 on E half; from which
	a pinion pine, 8 ins. diam.; bears
	N 13 1/2° E.; 42 lks. dist.; marked
	1/4 S 16 BT.
	a pinion pine, 8 ins. diam.; bears
	S 4 1/2° W.; 24 lks. dist.; marked
	1/4 S 17 BT.

Subdivision of T 31 S R 15 W.

Chains.

41.00 Spur, projects E.; descend 10 ft.

42.00 Wash, 20 lks. wide 4 ft. deep, course S E, ascend 40 ft.

57.00 Spur, projects S E.; descend 10 ft.

59.00 Ravine, course E.; ascend 110 ft.

72.00 Ridge, bears N E, and S W.; disc. 60 ft.

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

T 31 S S 8 in N W.
R 15 W S 9 in N E,
S 16 in S E and
S 17 in S W. quadrants; from which

a pinion pine, 8 ins. diam.; bears N 52° E.; 31 lks. dist.; marked T 31 S R 15 W S 9 B T,

a pinion pine, 16 ins. diam.; bears S 68° E.; 59 lks. dist.; marked T 31 S R 15 W S 16 B T.

a pinion pine, 8 ins. diam.; bears S 37° W.; 62 lks. dist.; marked T 31 S R 15 W S 17 B T,

a pinion pine, 12 ins. diam.; bears N 44½° W.; 56 lks. dist.; marked T 31 S R 15 W S 8 B T.

Land, rolling mountainous,
Soil, rocky and gravelly, 14 ins. deep, 2 nd rate.
Subsoil, lime formation.
Timber, dense cedar and pinion pine.
Undergrowth, sparse sage brush.
Land heavily timbered 80.00 chains.
Oct. 18: at this sec. cor. I set off 9° 29¾' S on the dech. arc, and at 11h 45m a. m. l. m. t. observe the sun on the meridian; the resulting lat. is 38° 08½'.

Subdivision of T 31 S R 15 W.

Chains	
	N 89°49' E on a random line bet. secs. 9 and 16.
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 9, 10, 15 and 16.
	Thence Irun S 89°50' W on a true line bet. secs. 9 and 16.
	Over rough mountainous land through dense forest of cedar and pinion pine. Sparse undergrowth of sage and bitter brush and bunch grass.
	Ascend 395 ft.
14.00	Limestone ridge, bears N and S.
	Descend 800 ft.
40.02	Set an iron post, 3 ft. long, 1 in. in dia; 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S 9 on N. half and S 16 on S. half; from which a pinion pine, 14 ins. diam.; bears S 19½° E.; 11 lks. dist.; marked 1/4 S 16 B T. a cedar, 6 ins. diam.; bears N 19½° E.; 28 lks. dist.; marked 1/4 S 9 B T.
	Descend 55 ft.
53.50.	Hollow. Course S W.
54.10	Leave dense timber, bears N E. and S W.
	Thence per a grassy flat, bears N E. and S W.
63.50	Leave flat and enter dense timber bears N E. and S W.
74.00	Ridge, 160 ft. above hollow, bears N E and S W.
	Descend 115 ft.
80.04	The cor. of secs. 8, 9, 16 and 17.
	Land rough mountainous.
	Soil, rocky, 6 to 12 ins. deep, 3rd rate.
	Subsoil, lime formation.
	Timber, dense cedar and pinion pine.
	Undergrowth sparse sage and bitter

Subdivision of T 31 S. R 15 W.

Chains. Brush and bunch grass.
Land, rough mountainous 80.04 chs.
heavily timbered 70.64 chains.
October 18, 1910.

Oct. 20: At 7h. 45m. a.m. I m.t. I set off 38°08' on the lat. arc, 10°08¼' S. on the decl. arc and determine a meridian with the solar compass at the cor. of secs. 8, 9, 16 and 17.
Thence I run
N 0° 03' W. bet. secs. 8 and 9.
Over rough mountainous land through dense forest of cedar and pinion pine. Sparse under growth of bitter brush.
Descend 60 ft. over rocky land sloping N.W.

10.00 Hollow, course S.W.; ascend 70 ft.
20.00 Spur, projects N.W.; descend 50 ft.
28.00 Hollow, course S.W.; ascend 60 ft.
36.00 Spur, projects N.E.; descend 40 ft.
38.50 Hollow, course S.E.; ascend 20 ft.
40.00 Set an iron post, 3 ft. long, 1½ in. dia.; 26 ins. in the ground, for ¼ sec. cor.; marked on brass cap:
¼ S 8 on W half, and
¼ S 9 on E half; from which
a cedar, 4 ins. diam.; bears
S 50¼° E.; 9 lks. dist.; marked
¼ S 9 B.T.
a pinion pine, 10 ins. diam.; bears
N 28½° W.; 67 lks. dist.; marked
¼ S 8 B.T.
Ascend 250 ft. to
53.00 Ridge, bears N.E. and S.W.; descend 45 ft. to
61.00 Hollow, course W.; ascend 40 ft.
64.00 Spur, projects W.; descend 70 ft.

Subdivisions of T 31 S R 15 W.

Chains.	
70.00	Hollow, course W.; ascend 110 ft.
79.50	Spur, projects SW.; descend 10 ft.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked on brass cap: T31S S 5 in NW. R15W S 4 in NE. S 9 in SE and S 8 in SW. quadrants, from which a pinion pine, 6 ins. diam.; bears N 30° E.; 35 lks. dist.; marked T31S R15W S4 BT. a pinion pine, 6 ins. diam.; bears S 64 3/4° E.; 12 lks. dist.; marked T31S R15W S9 BT. a pinion pine, 10 ins. diam.; bears S 13° W.; 38 lks. dist.; marked T31S R15W S8 BT. a cedar, 6 ins. diam.; bears N 6 1/4° W.; 57 lks. dist.; marked T31S R15W S5 BT.
	Land, rough mountainous.
	Soil, rocky, 3rd rate.
	Subsoil, lime formation.
	Timber, dense cedar and pinion pine on mile.
	Undergrowth, sparse bitter brush and bunch grass.
	Rough mountainous land 80.00 chs.
	N 89° 50' E on a random line bet. secs. 4 and 9.
40.00	Set temp. 1/4 sec. cor.
80.08	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 3, 4, 9 and 10. Thence I run S 89° 48' W on a true line bet. secs. 4 and 9. Over rough mountainous land through dense forest of cedar and pinion.

Subdivision of T 31 S R 15 W.

Chains	
	Sparse undergrowth of bitter and sage brush.
	Ascend, 150 ft
5.00	Point of ridge bears S. E. and N. E.,
	Descend 100 ft.
10.50	Hollow, course S.W.; ascend 40 ft.
13.50	Spur, projects S.W.; descend, 30 ft.
17.50	Hollow, course S.W.; ascend, 90 ft.
21.50	Spur, projects S.W.; descend 50 ft.
23.75	Hollow, course S.W.; ascend 100 ft
40.04	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; Marked on brass cap: 1/4 S 4 on N half and S 9 on S half, from which a pinion pine, 18 ins. diam.; bears S 51 1/2° E.; 58 lbs. dist.; Marked 1/4 S 9 B T. a cedar, 16 ins diam.; bears N 4 1/2° W.; 19 lbs. dist.; Marked 1/4 S 4 B T.
	Ascend 120 ft.
45.00	Spur, projects S E.; descend, 75 ft.
50.00	Hollow, course S E.; ascend 210 ft.
64.00	Ridge, bears N E. and S W.; descend 90 ft.
70.50	Hollow, course S.W.; ascend 100 ft.
78.00	Spur, projects S W., descend 15 ft.
80.08	The cor. of secs. 4, 5, 8 and 9.

Land, rough mountainous.
Soil, rocky 6 to 14 ins. deep, 3rd rate.
Subsoil, lime and sand formations
Timber dense cedar and pinion pine
Undergrowth, sage and bitter brush.
Oct. 20: At this sec. cor. I set Dec. 10° 13' S. on the decl. arc, and at 11h 45m A.M. L.M.T. observe the sun on the meridian; the resulting lat. is 38° 08 1/2'.

Subdivision of T 31 S R 15 W.

chains.	
	N 0° 0 3' W. on a true line bet. secs. 4 and 5.
	Over rough mountainous land through dense forest of cedar and pinion pine. Sparse undergrowth of sage and bitter brush.
	Descend, over land facing W.; 90 ft.
10.20	Hollow, course SW.; ascend 40 ft.
14.00	Spur, projects NW.; descend 30 ft.
16.00	Hollow, course NW.; ascend 40 ft.
20.00	Spur, projects NW.; descend 80 ft.
26.75	Hollow, course NW.; ascend 25 ft.
30.00	Spur, projects NW.; descend 30 ft.
34.00	Hollow, course NW.; ascend 35 ft.
36.50	Spur, projects SW.; descend 75 ft.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. Cor.; Marked on brass cap, 1/4 S 5 on W half and S 4 on E half; from which a cedar, 20 ins. diam.; bears N 55° E.; 19 lks. dist.; Marked 1/4 S 4 BT. a pinion pine, 10 ins. diam.; bears S 67° W.; 26 lks. dist.; Marked 1/4 S 5 BT.
	October 20, 1910.
	Nov. 22: For reasons as explained in Notes of line run bet. secs. 1 and 2 T 31 S R 12 W in Book "G" of this survey I commence at this 1/4 sec. cor. and run my line.
	N 0° 0 3' W.
	Descend 80 ft.
42.00	Hollow, course SW.; ascend 220 ft.
60.00	Spur, projects NW.; descend 60 ft.
66.00	Hollow, course NW.; ascend 70 ft.
72.00	Spur, projects NW.; descend 60 ft.
77.75	Hollow, course SW.; ascend 150 ft.
84.00	Dense timber, bears NW and SE,

Subdivision of T 31 S R 15 W.

Chains.

90.00 Point of ridge bears NE and SW. Descend 250 ft.

92.00 Enter dense timber, bears NE. and SW.

108.00 Leave dense timber bears NE and SW. Continue through scattering timber.

110.87 Intersect Sixth Standard Parallel South, 4.98 chains W. of the Standard cor. of secs. 32 and 33, T 30 S R 15 W. heretofore described. At this point I set an iron post 3 ft. long, 2 ins. in dia.; 24 ins. in the ground for closing cor. of secs. 4 and 5; marked on brass cap;

CC T 30 S R 15 W S 32 S 33 on N log
S 4 in S E and
S 5 in S W quadrant; from which
a cedar, 5 ins. diam.; bears
S 42° E.; 235 lks. dist.; marked
T 31 S R 15 W S 4 B.T.
a cedar, 6 ins. diam.; bears
S 0° 30' W.; 72 lks. dist.; marked
T 31 S R 15 W S 5 B.T.

Land, rough mountainous.
Soil, rocky, 10 ins. deep, 3rd rate.
Subsoil, lime formation.
Timber dense cedar and pinion pine.
Under growth sage and bitter brush and bunch grass.
Land rough mountainous 110.87 ch.
heavily timbered 102.87 chains.

Walter A. Stumm
Instrumentman, G.L.O.

Oct. 20; at 7h. 45m. a.m. l.m.t. I set off 38° 04¼' on the lat. arc; 10° 08¼' S on the decl. arc and determine a meridian with the solar ~~transit~~ at the cor. of secs. 5, 6, 31 and 32, heretofore described, on the S. bdry. of the Tp. Thence I run

Subdivision of T31S R15W.

Chains	
	N 0° 03' W. bet. secs. 31 and 32.
	Over rolling mountainous land, through scattering cedar and undergrowth of sage brush; ascend.
11.40	Wash, 20 lks. wide, 1 ft. deep. course S W.
26.10	Enter dense cedar, bear E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap.
	1/4 S 31 on W half and
	S 32 on E half; from which
	a cedar, 10 ins. diam.; bears
	N 27½° E.; 44 lks. dist.; marked
	1/4 S 32 BT.
	a cedar, 6 ins. diam.; bears
	S 40° 12' W.; 71 lks. dist.; marked
	1/4 S 31 BT.
43.10	Leave timber, bears NE and SW.
56.25	Enter timber, bears NE and SW.
60.00	Thence over land facing S.
80.00	Set an iron post 3 ft long, 2 ins. in dia.; 24 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked on brass cap.
	T31S S30 in NW.
	R15W S29 in NE.
	S32 in SE and
	S31 in SW quadrant; from which
	a cedar, 7 ins. diam.; bears
	N 45° E.; 38 lks. dist.; marked
	T31S R15W S29 BT.
	a cedar, 10 ins. diam.; bears
	S 31° 40' E.; 40 lks. dist.; marked
	T31S R15W S32 BT.
	a cedar, 9 ins. diam.; bears
	S 51° 30' W., 64 lks. dist.; marked
	T31S R15W S31 BT.
	a cedar 16 ins. diam.; bears
	N 81° 20' W.; 46 lks. dist.; marked
	T31S R15W S30 BT.
	Land, rolling mountainous.

Subdivision of T 31 S R 15 W.

Chains. Soil, gravelly and sandy loam, 2nd rate.
Timber, cedar.
Undergrowth sparse sage brush and bunch grass.
Land, heavily timbered 37.65 chains.

N 89°53' E on a random line bet. secs. 29 and 32.

40.00 Set temp. 1/4 sec. cor.

79.99 Intersect N and S. line, 2 lks. N. of the cor. of secs. 28, 29, 32 and 33.
Thence S. run.
S 89°54' W, on a true line bet. secs. 29 and 32.
Over rolling mountainous land, through dense forest of cedar.
Sparse undergrowth of sage brush.
Descend 110 ft. to

1.00 Ridge, bears N E and S W.
Descend. 50 ft.

11.00 Wash, 70 lks. wide, 1 ft deep, course S E.
Road, Lund to Dotson Spring, bears N W and S E.

14.50 Wash, 30 lks. wide, 1 ft. deep, course S E,

25.00 Leave dense timber, bears N E and S W,

33.00 Enter dense timber, bears N E and S W,

37.50 Spur, projects S E;
Descend.

39.99½ Set an iron post, 3 ft. long, 1 in in dia; 26 ins in the ground for 1/4 sec. cor; marked on brass cap,
1/4 S 29 on N. half and
S 32 on S half; from which
a cedar, 14 ins. diam., bears
S 8° W., 19 lks. dist.; marked
1/4 S 32 B T.
a cedar, 18 ins. diam., bears
N 11° W; 26 lks. dist; marked
1/4 S 29 B T.

42.00 Wash, 15 lks. wide. 1 ft deep, course S E,

Subdivision of T 31 S R 15 W.

Chains.	
46.50	Ridge, bears N E, and S W.; descend,
54.70	Wash, 20 lks. wide, 1 ft. deep, course S W.
67.50	Wash, 25 lks. wide, 1 ft. deep, course S W.
79.99	The cor. of secs. 29, 30, 31 and 32,
	Land, rolling Mountainous.
	Soil, rocky, 3rd rate.
	Timber, dense cedar,
	Undergrowth, sage brush,
	Rolling Mountainous land, 79.99 ch.
	Heavily timbered 71.99 chains.
	Ob: 20: at this sec. cor. I set off 10°13' S on the decl. arc, and at 11h 45m a.m. l.m.t. observe the sun on the Meridian; the resulting lat is 38° 05'.
	S 89° 53' W. on a random line bet secs. 30 and 31.
40.00	Set temp 1/4 sec. cor,
81.56	Intersect. W. bdy. of TP.; 14 lks. N, of the cor of secs. 25, 30, 31 and 36 heretofore described.
	Thence I run,
	N 89° 47' E. on a true line bet secs. 30 and 31
	Over rolling Mountainous land through dense forest of cedar and undergrowth of sage brush.
5.56	Wash, 10 lks. wide course S 10° E.
	Ascend 100 ft.
35.00	Ridge bears N E, and S W.
	Descend 80 ft.
41.56	Set an iron post, 3 ft. long, 1 in. in dia.; 26 lks. in the ground for 1/4 sec. cor.; Marked on brass cap.
	1/4 S 30 on N half and S 31 on S half; from which

Subdivisions of T 31 S R 15 W.

Chains.	
	a pinion pine, 14 ins. diam.; bears S 32° 20' E.; 112 lks. dist.; marked 1/4 S 31 BT.
	a cedar, 8 ins. diam.; bears N 21 3/4° W.; 125 lks. dist.; marked 1/4 S 30 BT.
	Descend 30 ft.
48.00	Wash, 35 lks wide, 1 ft. deep in Hollow course S E.
	Road, Lund to Keel Spring, bears N W and S E.
	Ascend 60 ft.
60.00	Ridge, bears N. and S W.;
	Descend.
66.20	Wash, 45 lks. wide, 1 ft. deep, course S W.
	Ascend, 50 ft.
81.56	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling mountainous.
	Soil, rocky, 12 ins. deep, 3rd rate.
	Subsoil, granite formation.
	Timber, dense cedar on mile.
	Undergrowth, sage brush.
	Land rolling mountainous 81.56 chs.
	Oct. 20. 1910.
	Oct. 21: at 7h 45m. a. m. l. m. t. I set off 38° 05' on the lat arc, 10° 29 3/4' S. on the decl. arc. and determine a meridian with the solar transit at the cor. of secs. 29. 30. 31 and 32.
	Thence I run.
	N 0° 03' W. bet. secs. 29 and 30
	Over rolling mountainous land through dense forest of cedar and pinion pine.
	Undergrowth of sage brush and bunch grass.
	Ascend, over land facing S E.; 50 ft.
5.00	Ridge, bears N E, and S W.
11.00	Wash, 10 lks wide course S W.
28.00	Wash, 40 lks wide, 1 ft. deep, course S W.
30.00	Leave timber bears E. and W.

Subdivisions of T 31 S R. 15 W.

Chains.

35.00 Enter dense timber, bears E. and W.

39.65 Wash, 40 lks. wide, 1 ft. deep, course S.W.

40.00 Set an iron post, 3 ft long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap.

1/4 S 30 on W half and
S 29 on E half; from which
a cedar, 14 ins. diam.; bears
S 77°20' E.; 75 lks. dist.; marked
1/4 S 29 BT.
a cedar, 12 ins. diam.; bears
S 64°20' W.; 95 lks. dist.; marked
1/4 S 30 BT.

Gradually ascend 30 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground. For cor. of secs. 19, 20, 29 and 30 Marked on brass cap.

T 31 S S 19 in NW.
R 15 W S 20 in NE,
S 29 in SE and
S 30 in SW quadrant; from which
a pinion pine, 5 ins. diam.; bears
N 43°10' E.; 37 lks. dist.; marked,
T 31 S R. 15 W S 20 BT.
a cedar, 8 ins. diam.; bears
S 28½° E.; 71 lks. dist.; Marked
T 31 S R 15 W S 29 BT.
a cedar, 16 ins. diam.; bears.
S 39° W.; 36 lks. dist.; Marked
T 31 S R 15 W S 30 BT.
a cedar, 14 ins. diam.; bears
N 9¾° W.; 50 lks. dist.; Marked
T 31 S R 15 W S 19 BT.

Land rolling, mountainous.
Soil, rocky and gravelly, 2nd rate.
Subsoil, granite formation.
Timber, cedar and pinion pine.
Undergrowth, sage brush and bunch grass.
Land heavily timbered 75.00 Chains.

Subdivision of T 31 S R 15 W.

Chains N 89° 54' E on a random line bet. secs. 20 and 29.
40.00 Set temp. 1/4 sec. cor.
79.98 Intersect N. and S. line. 5 lks. N. of the cor. of secs. 20, 21, 28 and 29.
Thence I run
S 89° 56' W on a true line bet. secs. 20 and 29.
Over rolling mountainous land. through dense forest of cedar and pinion pine. Undergrowth of sage brush.
Ascend 30 ft
7.00 Ridge, bears N. and S.
Descend
14.00 Wash, 30 lks. wide, course S.
20.00 Wash, 35 lks. wide. course S E.
39.99 Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; Marked on brass cap.
1/4 S 20 on N. half and
S 29 on S half; from which
a cedar, 8 ins. diam.; bears
S 62 1/4° E.; 23 lks. dist.; marked
1/4 S 29 BT.
a cedar, 9 ins. diam.; bears
N 50° E.; 19 lks. dist.; marked
1/4 S 20 BT.
76.00 Wash, 40 lks. wide, 1 ft. deep, course South.
79.98 The cor. of secs. 19, 20, 29 and 30
Land, rolling mountainous.
Soil, gravelly and sandy loam, 2nd rate.
Subsoil, lime formation.
Timber dense cedar and pinion pine.
Undergrowth, sage brush.
Rolling mountainous and heavily timbered land. 79.98 chains.
Oct. 21: at this sec. cor. I set off 10° 34 1/2' S on the decl. arc, and at 11h 45m a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 38° 06'

Subdivision of T 31 S R 15 W.

Chains.	
	S 89° 47' W on a random line bet. secs 19 and 30
40.00	Set temp. 1/4 sec. cor.
81.42	Intersect W. bdy. of the Tp. 7 lks. S. of the cor. of secs. 19, 24, 25 and 30 herein for described.
	Thence I run
	N 89° 50' E. on a true line bet. secs. 19 & 30.
	Over rolling mountainous land through dense forest of cedar, pinion pine and undergrowth of sage brush.
	Ascend 150 ft. to
10.52	High ridge, bears N 5° W and S 5° E.
	Descend 300 ft. to
27.12	Wash, 35 lks. wide, course S W.
29.77	Wash, 25 lks. wide, course S W.; and
	Road, Land to Reel Spring, bears N W. and S W.
34.36	Wash, 30 lks. wide, 1 ft. deep, course S W.
41.42	Set an iron post 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap, 1/4 S 19 on N half and S 30 on S half; from which a cedar, 4 ins. diam.; bears S 1° 30' W.; 13 lks. dist.; marked 1/4 S 30 B T. a cedar, 8 ins. diam.; bears N 45 3/4° W.; 10 lks. dist.; marked 1/4 S 19 B T.; ascend 75 ft.
60.00	Ridge, bears N. and S.; descend 50 ft.
81.42	The cor. of secs. 19, 20, 29 and 30.
	Land, rolling mountainous.
	Soil, gravelly and sandy, 2nd rate.
	Subsoil, granite formation.
	Timber, cedar and pinion pine.
	Undergrowth, sage brush.
	Rolling mountainous and heavily timbered land 81.42 chains.

October 21, 1910.

Subdivision of T 31 S R 15 W.

Chains	
	Oct. 22; at 7h 45m a.m. l. m. t. I set of 38°06' on the lat. arc, 10°51' S on the decl. arc, and determine a meridian with the solar transit at the cor. of secs. 19, 20, 29 and 30.
	Thence I run
	N 0°03' W. bet. secs. 19 and 20.
	Over, rolling mountainous land through dense forest of cedar, piñon pine and undergrowth of sage brush. Gradually ascend over land facing S., 50 ft
15.00	Ridge. bears E. and W.
	Descend gradually. 30 ft.
18.60	Wash, 30 lks. wide, 1 ft. deep, course SE,
26.80	Wash, 30 lks. wide, 1 ft. deep, course SE,
40.00	Set an iron post. 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap, 1/4 S 19 on W half and S 20 on E half; from which a cedar, 8 ins. diam.; bears N 82½° E.; 30 lks. dist.; marked 1/4 S 20 BT. a cedar, 8 ins. diam.; bears N 39° W.; 7 lks. dist.; marked 1/4 S 19 BT.
44.00	Leave timber, bears E. and W.
56.60	Enter timber, bears E. and W.
59.00	Wash, 25 lks. wide, 1 ft. deep, course SW,
63.00	Wash, 30 lks. wide, 1 ft. deep, course SW,
	Ascend 30 ft.
73.60	Ridge. bears N E and S W.
	Descend gradually,
78.40	Wash, 40 lks. wide, course S W,
80.00	Set an iron post, 3 ft long, 2 ins. in dia.; 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20 Marked on brass cap, T 31 S S 18 in N W. R 15 W S 17 in N E.

Subdivisions of T31S R15W.

Chains	
	S 20 in S E, and
	S 19 in S W quadrant, from which
	a cedar, 8 ins. diam., bears
	N 3° E.; 164 lks. dist.; marked
	T31S R15W S 17 BT.
	a cedar, 6 ins. diam.; bears
	S 66 1/4° E.; 67 lks. dist.; marked
	T31S R15W S 20 BT.
	a cedar, 4 ins. diam.; bears
	S 57° W.; 104 lks. dist.; marked
	T31S R15W S 19 BT.
	a pinion pine, 10 ins diam.; bears
	N 49° 10' W.; 120 lks. dist.; marked
	T31S R15W S 18 BT.
	Land rolling mountainous.
	Soil, gravelly and sandy, 2nd rate.
	Subsoil, lime formation.
	Timber, dense cedar and pinion pine.
	Undergrowth, sage brush.
	Rolling Mountainous and heavily timbered land 80.00 Chains.
	N 89° 56' E on a random line bet. secs. 17 and 20.
40.00	Set temp. 1/4 sec. cor.
80.02	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 16, 17, 20 & 21.
	Thence I run
	West on a true line bet secs. 17 and 20.
	Over rolling mountainous land, through dense forest of cedar, pinion pine and sage brush.
	Ascend over nearly level land, 40 ft.
28.00	ascend, 125 ft., over rocky E. slope.
32.80	Ridge, bears N. and S.
40.01	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap,
	1/4 S 17 on N. half and
	S 20 on S half, from which

Subdivision of T 31 S R 15 W.

Chains.	
	a cedar, 10 ins. diam.; bears S 10° E.; 5½ lks. dist.; marked ¼ S 20 BT.
	a cedar, 8 ins. diam.; bears N 84° W.; 23 lks. dist.; marked ¼ S 17 BT.
	Oct. 22:
	At this ¼ sec. cor. I set off 10° 56' S. on the dect. arc, and at 11h 45m. a.m. l.m.t. observe the sun on the meridian; the resulting latitude is 38° 06¾'.
	Descend 125 ft. to.
68.20	Wash, 25 lks. wide, 1 ft. deep, course S W.
79.25	Wash, 20 lks. wide, 1 ft. deep, course S W.
80.02	The cor. of secs. 17, 18, 19 and 20.
	Land, rolling mountainous.
	Soil, sandy and gravelly, 2nd rate.
	Subsoil, lime formation.
	Timber, dense cedar and pinion pine.
	Undergrowth, sage brush.
	Rolling mountainous and heavily timbered land 80.02 Chains.
	S 89° 50' W. on a random line bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
81.34	Intersect W. bdy. of the Tp., at the cor. of secs. 13, 18, 19 and 24, heretofore described.
	Thence I run
	N 89° 50' E. on a true line bet. secs. 18 and 19.
	Over rolling mountainous land through dense forest of cedar and pinion pine.
	Undergrowth of sage brush.
	Descend.
20.54	Wash, 35 lks. wide, 1 ft. deep, course S.

Chains.	
	Ascend 100 ft. to
39.34	Ridge, bears N. and S. and top of peak.
	Descend along top of spur.
41.34	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap. 1/4 S 18 on N half and S 19 on S half; from which a pinion pine, 12 ins. diam., bears S 77° 20' E.; 19 lks. dist.; marked 1/4 S 19 BT. a cedar, 6 ins. diam.; bears N 15 3/4° W.; 46 lks. dist.; marked 1/4 S 18 BT.
50.34	Spur, projects N.; descend 60 ft.
57.81	Wash, 30 lks. wide, 1 ft. deep, course S.W.
62.91	Wash, 40 lks. wide, 1 ft. deep, course S.W.
81.34	The cor. of secs. 17, 18, 19 and 20.

Land rolling, mountainous.
Soil, rocky and gravelly, 2nd rate.
Subsoil, granite formation.
Timber cedar and pinion pine.
Undergrowth, sage brush.
Rolling mountainous and heavily timbered land, 81.34 chains.

October 22, 1910.

Oct. 24; at 7h 14m a.m. l.m.t. I set off 38° 06 3/4' on the lat. arc, 11° 31' S on the decl. arc. and determine a meridian with the solar transit at the cor. of secs. 17, 18, 19 and 20.
Thence I run
N 0° 03' W. bet. secs. 17 and 18.
Over rolling mountainous land through dense forest of cedar and pinion pine. Undergrowth of sage brush.
Ascend, gently rolling.

37.40	Wash, 25 lks. wide, 1 ft. deep course S.W.
	Thence, ascend up wash.

Subdivision of T 31 S R 15 W.

Chains	
39.00	Same wash, drains S and bears N W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap. 1/4 S 18 on W half and S 17 on E half; from which a pinion pine, 6 ins. diam.; bears N 34° E.; 13 lks. dist.; marked 1/4 S 17 BT. a pinion pine, 7 ins. diam.; bears S 56 1/4° W.; 15 lks. dist.; marked 1/4 S 18 BT.
41.75	Same wash, bears S W. Ascend 75 ft.
67.90	Ridge, bears N E. and S W. Ascend along W slope.
80.00	On ridge bears N W, and S E. Set an iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked on brass cap. T 31 S S 7 in N W. R 15 W S 8 in N E, S 17 in S E and S 18 in S W quadrant; from which a pinion pine, 12 ins. diam.; bears N 56° 20' E.; 58 1/2 lks. dist.; marked T 31 S R 15 W S 8 BT. a pinion pine, 8 ins. diam.; bears S 50° E.; 86 1/2 lks. dist.; marked T 31 S R 15 W S 17 BT. a pinion pine, 8 ins. diam.; bears S 82 1/2° W.; 31 lks. dist.; marked T 31 S R 15 W S 18 BT a pinion pine, 8 ins. diam.; bears N 5 3/4° W.; 52 lks. dist.; marked T 31 S R 15 W S 7 BT. Land rolling mountainous. Soil, gravelly and sandy, 2nd rate

Subdivision of T 31 S R 15 W.

Chains	
	Timber, dense cedar and pinion pine. Undergrowth, sage brush. Rolling mountainous and heavily timbered 80.60 chains.
	East on a random line bet. secs. 8 and 17.
40.00	Set temp. 1/4 sec. cor.
80.02	Intersect N. and S. line 2, lks. S of the cor. of secs. 8, 9, 16 and 17. Thence I run S 89° 59' W. on a true line bet. secs. 8 and 17. Over rolling mountainous land, through dense forest of cedar and pinion pine. Descend 20 ft.
5.10	Wash, 15 lks. wide, 1 ft. deep, course S.
18.00	Leave timber, bears N. and S. Ascend 70 ft.
24.00	Enter dense timber, bears N. and S.
29.50	Ridge, bears N E. and S. Descend 75 ft.
40.01	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap, 1/4 S 8 on N half and S 17 on S half; from which a pinion pine, 8 ins. diam.; bears S 8° E.; 17 lks. dist.; marked 1/4 S 17 BT. a pinion pine, 6 ins. diam.; bears N 73 1/2° E.; 15 lks. dist.; marked 1/4 S 8 BT.
	Descend, gently rolling.
57.00	Wash, 18 lks. wide, 1 ft. deep, course S 45. Ascend 60 ft.
80.02	The cor. of secs. 7, 8, 17 and 18.
	Land, rolling mountainous. Soil, gravelly and sandy, 2nd rate. Subsoil, lime formation.

Subdivision of T 31 S R 15 W.

Chains.	
	Timber dense cedar and pinion pine. on 74.02 chains,
	Rolling mountainous land, 80.02 chs.
	Oct. 24; at this sec. cor. I set off 11° 38' S on the decl. arc, and at 11h 44½m. a. m. l. m. t. observe the sun on the meridian. The resulting latitude is 38° 07½'.
	S 89° 50' W on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
81.26	Intersect, W. bdy of the Tp. at the cor. of secs. 7, 12, 13 and 18. heretofore described
	Thence I run
	N 89° 50' E on a true line bet secs. 7 and 18.
	Over mountainous land, through dense forest of cedar and pinion pine. Sparse undergrowth of sage brush
	Ascend, over rocky land 732 ft.
13.26	High rocky ridge, bears N E and S W.
	Descend, 500 ft.
41.26	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground, for ¼ sec. cor.; marked on brass cap, ¼ S 7 on N half and S 18 on S half; from which. a cedar, 4 ins. diam.; bears S 39° W.; 24 lks. dist.; marked ¼ S 18 BT. a pinion pine, 5 ins. diam.; bears N 39° W.; 40 lks. dist.; marked ¼ S 7 BT.
	Descend 70 ft.
45.26	Wash, 20 lks. wide 2 ft. deep, course S E.
	Ascend 250 ft.
70.26	Ridge, bears N E and S W., ascend along steep S slope.

Subdivision of T 31 S R 15 W.

Chains	
81.26	The cor. of secs. 7, 8, 17 and 18.
	Land mountainous.
	Soil, rocky, 3rd rate.
	Subsoil, Sand and lime stone formation
	Timber, dense cedar and pinion pine.
	Sparse undergrowth of sage brush.
	Land mountainous 81.26 chains.
	October 24, 1910.
	Oct 25. at 7h. 44m. a.m. l.m.t. I set off 38°07½' on the lat arc, 11°54' S on the decl. arc and determined a meridian with the solar transit 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 dense forest of cedar and pinion pine, sparse undergrowth of sage brush
	Ascend 40 ft.
14.50	Hollow. Course S E; ascend 350 ft.
24.00	Top of peak and high ridge. bears N E, and S W; descend 80 ft.
35.50	Run, projects N W; descend 70 ft.
39.75	Hollow. Course N W. ascend.
40.00	Set an iron post, 3 ft long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap.
	1/4 S 7 on W half and S 8 on E half; from which a pinion pine, 16 ins. diam.; bears N 12° E.; 35 lks. dist.; marked 1/4 S 8 B T; a pinion pine, 12 ins. diam.; bears S 83° W.; 23 lks. dist.; marked 1/4 S 7 B T.
	Ascend 60 ft.
45.00	Ridge, bears N W and S E.
	Descend 40 ft.
54.50	Hollow, course N E. ascend 80 ft.

Subdivision of T31S R15W.

Chains.

57.75 Spur, projects N E.; descend gradually

66.00 Leave dwarf timber bears E. and W.
Continue through sage brush and scattering timber.

80.00 Set iron post, 3 ft. long, 2 ins. in dia.; 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8. Marked on brass cap,
T31S S6 in N W,
R15W S5 in N E,
S8 in S E and
S7 in S W quadrants, from which
a pinion pine, 10 ins. diam.; bears
N 37°37' E.; 39 2 lks. dist.; marked
T31S R15W S5 BT.
a cedar, 6 ins. diam.; bears
S 67°11' E.; 191 lks. dist.; marked
T31S R15W S8 BT.
a pinion pine, 8 ins. diam.; bears
S 26°55' W.; 442½ lks. dist.; marked
T31S R15W S7 BT.
a cedar, 12 ins. diam.; bears
N 2°20' W.; 392½ lks. dist.; marked
T31S R15W S6 BT.

Land, mountainous.
Soil gravelly and sandy, 3rd rate.
Timber cedar and pinion pine.
Undergrowth, sage brush.
Mountainous land, 80.00 chs.
Heavily timbered land 66.00 chs.

N 89°59' E on a random line bet. secs. 5 and 8.

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
West on a true line bet. secs. 5 and 8.
Over rolling mountainous land

Subdivision of T 31 S R 15 W.

chains	Dense forest of cedar, pinion pine and undergrowth of sage brush. Descend 160 ft.
8.40	Hollow, course S W.; ascend 35 ft.
11.86	Spur, projects S.; descend 75 ft.
13.06	Hollow, course S W.; ascend 75 ft.
21.75	Spur, projects S.; descend 200 ft.
29.50	Hollow, course S W. ascend 75 ft.
39.98	Set an iron post, 3 ft. long, 1 in. in dia.; 26 ins. in the ground for 1/4 sec. cor.; marked on brass cap, 1/4 S 5 on N half and S 8 on S half; from which a pinion pine, 8 ins. diam.; bears S 0° 15' W.; 30 lks. dist.; marked 1/4 S 8 B.T. a pinion pine, 14 ins. diam.; bears N 62° 15' W.; 17 1/2 lks. dist.; marked 1/4 S 5 B.T.
	ascend 100 ft.
48.00	Ridge bears N E. and S W.
	Descend, 200 ft.
74.00	Leave dense timber, bears N. and S.
	Continue through scattering timber
79.96	The cor. of secs. 5, 6, 7 and 8.
	Land, Mountainous.
	Soil, rocky 3rd rate.
	Subsoil, lime formation.
	Timber cedar and pinion pine.
	Undergrowth, sage brush.
	Land mountainous 79.96 chs.
	Heavily timbered land, 74.00 chs.
	Oct. 25; at this sec. cor. I set Bf. 11° 59' S on the decl. arc, and at 11h 44m a.m. l.m.t. observe the sun on the meridian, the resulting lat. is 38° 08 1/2'.
	S 89° 50' W. on a random line bet. secs. 6 and 7.

Subdivision of T 31 S R 15 W.

chains.

40.00 Set temp. 1/4 sec. cor.

81.18 Intersect W. bdy, 5 lks. N. of the cor. of secs. 1, 6, 7 and 12 heretofore described.

Thence I run

N 89°48' E on a true line bet. secs. 6 and 7.

Over rolling land through dense forest of cedar and pinion, Undergrowth of sage brush and bunch grass.

41.18 Set an iron post, 3 ft long, 1 in. in dia, 26 ins. in the ground, for 1/4 sec. cor.; marked on brass cap,

1/4 S 6 on N. half and
S 7 on S half; from which
a cedar, 12 ins. diam.; bears
S 4° E.; 10 1/2 lks. dist.; marked
1/4 S 7 B.T.
a cedar, 4 ins. diam.; bears
N 85° E.; 16 lks. dist.; marked
1/4 S 6 B.T.

Ascend 100 ft.

50.68 Ridge, bears N E and S W.

Descend 100 ft.

70.68 Wash, 10 lks. wide, 1 ft. deep, course S W.

Leave timber, bears N. and S.,

81.18 The cor. of secs. 5, 6, 7 and 8.

Land rolling.

Soil, Sandy and gravelly, 2nd rate.

Subsoil, lime formation.

Timber cedar and pinion pine on 70.68 chains.

Undergrowth sage brush and bunch grass.

Rolling land 81.18 chs.

October 25, 1910.

Oct. 26: at 8h 46m a.m. l.m.t. I sighted 38°08 1/2' on the lat. arc, 12°16 1/2' S on the decl. arc, and

Subdivision of T 31 S R 15 W.

Chains	
	determine a meridian with the solar transit at the cor. of secs. 5, 6, 7 and 8.
	Thence I run
	N 0°03' W. on a true line bet. secs. 5 and 6,
	Over rolling land, through dense forest of cedar and pinion pine. Undergrowth of sage brush and bunch grass.
11.10	Wash, 15 lks. wide, 15 ft. deep, course S W.
11.60	Leave timber bears N E. and S W,
28.00	Enter timber, bears E. and W. Gradually ascend.
40.00	Set an iron post, 3 ft long, 1 in. in dia.; 26 ins in the ground for 1/4 sec. cor; marked on brass cap. 1/4 S 6 on W. half and S 5 on E half, from which a pinion pine, 6 ins dia., bears N 69 1/4° E.; 22 lks. dist.; marked 1/4 S 5 BT. a pinion pine, 8 ins diam., bears S 39°15' W.; 71 lks. dist.; marked 1/4 S 6 BT.
	Nov. 22: For reasons as explained in notes of line run bet. secs. 1 and 2, T 31 S, R 12 W. in Book "G" of this survey, I commence at this 1/4 sec. cor and rerun this line N 0°03' W.
46.25	Ridge, 75 ft above wash, bears E and W. Ascend gradually
85.80	Wash, 15 lks wide, course S W.
90.00	Leave timber, bears N E. and S W.
94.00	Enter timber bears N E. and S W.
110.79	Intersect Sixth Standard Parallel South, 4.90 chs. W. of the Standard Cor. of secs. 31 and 32, T 30 S R 15 W.

Subdivisions of T 31 S R 15 W.

Chains heretofore described, at this point I sent an iron post, 3 ft. long, 2 ins in dia.; 24 ins. in the ground for closing cor. of secs. 5 and 6, Marked on brass cap.

CC T30S R15W S31 S32 in N. half;
S5 in S E. and
S6 in S W. quadrant, from which
a cedar, 10 ins. diam., bears
S68°E., 73 lks. dist.; marked
T31S R15W S5 BT.
a cedar, 11 ins. diam.; bears
S8°W., 136 lks. dist.; marked
T31S R15W S6 BT.

Note:

I destroy all trace of the closing cor. erroneously established, Oct. 26, 1910 and on Nov. 22, at the closing cor. set by me this day, I set off 12°19½' S on the decl. arc. and at 11h 44m. a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 38°10'.

Land rolling,
Soil, gravelly and sandy loam. 1st and 2nd rates,
Subsoil, lime formation.
Timber, dense cedar and pinion pine on 106.79 chains.
Undergrowth, sage brush and bunch grass.
Rolling land 110.79 chs.

November 22, 1910.

General description.

This township consists of rough and rolling mountainous land, covered with dense forests of cedar, pinion pine and undergrowth

of mahogany, sage brush and bunch grass.

In the S.E. portion of this Tp. high ridges of granite formation, extend N.E and S.W, while in the N. Central portion, a high ridge of lime and sand stone formation extends N. and S. This is the highest point in this Tp.

The N.E. and W. portions are rolling, broken by small ridges and ravines. The soil of these portions is of a gravel and sandy formation of 2nd class, varying in depth from 6 to 18 ins. A hardpan of white lime formation underlies the soil.

Good grazing land is found in these portions.

In the rough mountainous portions, rocky soil, varying from 6 to 12 ins. in depth is found. A subsoil of granite, lime and sand stone underlies the soil. This soil is 3rd rate.

There are two springs located in this Tp. Dotson's Spring is located in a rocky hollow in Sec. 12. A small stream of good water flows 300 ft. down the hollow and sinks in the sand.

Dotson's cabin, used by cattlemen for headquarters is located near this spring.

Marsden Spring, is located in Sec. 25 The water from this spring is piped into a tank, and then conveyed by a 1 inch pipe line to troughs located in T 31 S R 14 W. This spring has a small flow and is used for the watering of sheep.

Subdivisions of T 31 S R 15 W.

There are no settlers in this township - There are no indications of mineral in this Tp -

~~Walter A. Stevens~~ Andrew Nelson.
Instrumentman G. T. O.

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

LIST OF NAMES.

A list of the names of the individuals employed by Andrew Nelson and Walter A. Stumm Instrumentman G. L. O., ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision of T 31 S. R 15 W. S.L.B.&M. Utah,

showing the respective capacities in which they acted:

Jack Barker and Harry T. Wood, Chainmen.
Park Stumm and Clarence C. Shelby, Chainmen.
George Nelson, Moundman.
George Schroeder, Moundman.
Harvey Rosenberg, Axman.
Joseph A. Ingram, Axman.
George A. Faust and John A. Millyard, Flagmen.

~~FINAL OATH OF ASSISTANTS~~

We hereby certify that we assisted Andrew Nelson and Walter A. Stumm Instrumentman G. L. O., ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the Subdivision of T 31 S R 15 W.

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by ~~him~~ them and under ~~his~~ their 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.

Jack Barker, Chainman.
Park Stumm, Chainman.
Clarence C. Shelby, Chainman.
George Nelson, Moundman.
George Schroeder, Moundman.
Harvey Rosenberg, Axman.
Joseph A. Ingram, Axman.
George A. Faust, Flagman.
John A. Millyard, Flagman.

Subscribed and sworn to before me this 22nd day of November, 1910.

SEAL

Andrew Nelson
Instrumentman G. L. O.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 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 Transitmen see book "W" T.33 S., R.16 W.

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

_____
United States Deputy Surveyor.

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

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 7, 1914

The foregoing field notes of the survey of the Subdivisional lines of Township No.31 South, Range No. 15 West of the Salt Lake Base and Meridian, Utah,

executed by Andrew Nelson and Walter A.Stumm under his ~~contract No.~~ their special instructions, dated August 6, 1910, ~~190~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Cree
United States Surveyor General

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

_____
United States Surveyor General

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