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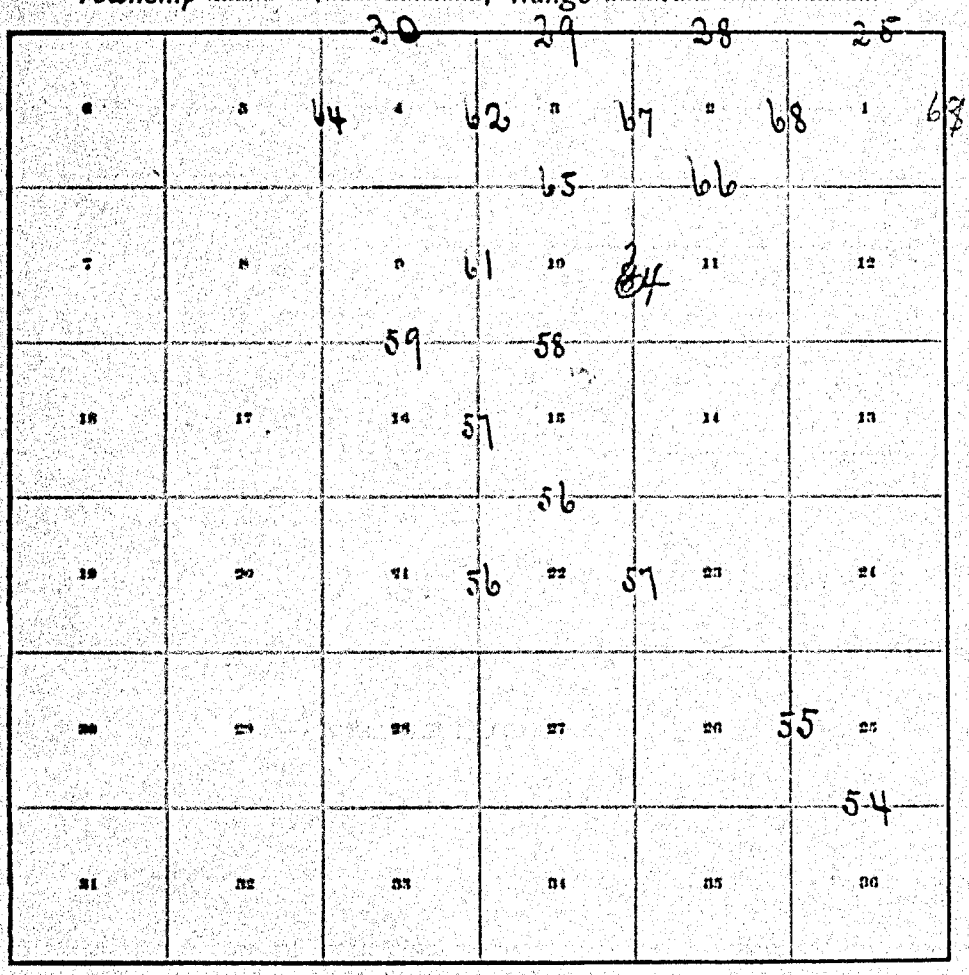
Township 37 S., *Range* 11 W.



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BOOK A-369

FIELD NOTES

OF THE SURVEY OF THE

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Of the ..... *Meridian,*

In the State of .....

EXECUTED BY

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

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

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

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

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

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M.S.B.

FIELD NOTES

OF THE SURVEY OF THE

NORTH BOUNDARY

OF

TOWNSHIP THIRTY-SEVEN SOUTH

RANGE ELEVEN WEST

Of the Salt Lake Base and *Meridian,*

IN THE STATE OF UTAH

AS SURVEYED BY

H. Clark, Compassman for William Lewman, Deceased, *United States Deputy Surveyor,*

r his Contract No. 225, *dated* January 23, 1899, *190*

y commenced July 31, *1904.*

y completed June 24, 1911. *190*

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NAMES AND DUTIES OF ASSISTANTS.

For 1904:

J.Cecil Clark	Chainman & Moundman.
S.Raymond Pratt	Chainman & Moundman.
James C.Houston	Axeman.
James L.Clark,	Flagman.

For 1911

William Thompson	Chainman,Moundman & Flagman

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PRELIMINARY OATHS OF ASSISTANTS.

WE, J. Cecil Clark and Raymond Pratt 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 North Bdy of Tp 37 S R 11 W S S Base & Meridian Utah

J. Cecil Clark, Chainman
Raymond Pratt, Chainman

Subscribed and sworn to before me this 22nd day of July A.D., 1904
My Commission Expires Feby 15/906
SEAL
Wm P. Sargent: Notary Public Garfield County Utah

WE, J. Cecil Clark and Raymond Pratt 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 the North Bdy of Tp 37 S R 11 W S S Base & Meridian Utah

J. Cecil Clark, Moundman
Raymond Pratt, Moundman

Subscribed and sworn to before me this 22nd day of July A.D., 1904
My Commission Expires Feby 15/906
SEAL
Wm P. Sargent: Notary Public Garfield County Utah

I, James G. Houston and do solemnly swear that ~~we~~ I will well and truly perform the duties of axm~~en~~a in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the North Bdy of Tp 37 S R 11 W S S Base & Meridian Utah

James G. Houston, Axman
, Axman

Subscribed and sworn to before me this 22nd day of July A.D., 1904
My Commission Expires Feby 15/906
SEAL
Wm P. Sargent: Notary Public Garfield County Utah

I, James L. Clark, 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 North Bdy of Tp 37 S R 11 W S S Base & Meridian Utah

James L. Clark, Flagman

Subscribed and sworn to before me this 22nd day of July A.D., 1904
My Commission Expires Feby 15/906
SEAL
Wm P. Sargent: Notary Public Garfield County Utah

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I, William Thompson, do solemnly swear
t I will well and faithfully execute the
ties of chainman; that I will level the chain
on even and uneven ground, and plumb the
lly pins, either by sticking or dropping the
me; that I will report the true distances to
l notable objects, and the true lengths of all lines
at I assist in measuring, to the best of my
ill and ability, and in accordance with instructions
n me, in the survey of portions of the North
ndary of Tp. 37 S. R. 11 W. Salt Lake Base and Meridian

William Thompson Chainman

scribed and Sworn to before me
4th day of June, 1911

John H. Clark
Compassman for William Sewman,
U. S. Deputy Surveyor, Deceased.

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Page

I, William Thompson, do solemnly swear that
ll well and truly perform the duties of moundman
e establishment of corners according to the instructions
n me, to the best of my skill and ability, in the survey of
north boundary of Tp. 37 S. R 11 W. Salt Lake base and meridian

William Thompson Moundman

ecribed and Sworn to before me
24th day of June 1911

John H. Clark
Compassman for William Sewman
U. S. Deputy Surveyor, Deceased.

I, William Thompson, do solemnly swear that I will
nd truly perform the duties of flagman according
nstructions given me, to the best of my skill
ability, in the survey of the north boundary of
37 S. R 11. W. Salt Lake base and meridian

William Thompson Flagman

cribed and Sworn to before me
24th day of June 1911

John H. Clark
Compassman for William Sewman
U. S. Deputy Surveyor, Deceased.

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Page

NORTH BOUNDARY OF T. 37 S., R. 11 W.

Chains

Survey commenced July 31, 1904, and executed with a W. & L.E.Gurley engineer's transit with solar attachment.
The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah, June 18, 1904.

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

July 31: As the ¼ sec. cor. bet. secs. 4 and 33 cannot be found I begin at the cor. of secs. 4,5,32 and 33, Tps. 36 and 37 S., R. 11 W., in approximate lat. 37° 38' N. long. 113°03½' W., which is a sandstone 10 x 8 x 3 ins. above ground, marked and witnessed as described by the surveyor general.

At 4h 06m p. m., l. m. t., I set off 37° 38' N. on the lat. arc; 18° 13' N. on the decl. arc, and determine a true meridian with the solar; and mark a point thereof on a stake set firmly in the ground, 5.00 chs. N. of the cor.

At 10h 51m p.m., l.m.t., I observe Polaris at eastern elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined by a nail driven in a peg firmly set in ground 5 chs. N. of my station.

July 31, 1904.

Aug. 1: At 6 h.0m. a.m., l.m.t., I lay off the azimuth of Polaris 1° 31.2' to the west, and mark the true

NORTH BOUNDARY OF T. 37 S., R. 11 W.

Chains	
	meridian thus determined, by driving a nail in the stake set July 31, on which the true meridian falls 0.4 ins. east of the mark determined by the solar.
	At 8h 06m a.m., l.m.t., I set off 37° 38' N. on the lat. arc; 18° 03' N. on the decl.arc; and mark a point in the true meridian determined with the solar, by a nail in the peg already set 5.00 chs. N. of my station; this mark falls 0.3 ins. east of the true meridian established by the Polaris observation.
	The solar apparatus by p. m. and a. m. observations, defines positions for true meridians, respectively about 0' 21" west and 0' 16" east of the true 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 30m a.m. is N.16° 10'W.; the angle thus determined, reduced by the table, page 100 of the Manual, gives the mean mag. decl. 16° 05'E.
	I begin at the cor. already described.
	Thence I run
	East on the N.bdy.of sec. 4 and at
40.00	Set a sandstone 14 x 8 x 7 ins., 9 ins.in ground for ¼ sec.cor., mkd. ¼ on N. face; raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
	Thence I run
	E. on a random line bet. Tps. 36 and 37 S., R. 11 W., setting temp. sec. and ¼ sec. cors. at intervals of 40.00 chs. and at
281.95	Intersect the E. bdy. of the township 1.22 chs. N. of the cor. of Tps. 36 and 37 S., Rs. 10 and 11 W., which is almost entirely obliterated, both as to stone and bearing trees, therefore
	Set a black volcanic rock 22 x 8 x 8 ins., 16 ins. in

NORTH BOUNDARY OF T. 37 S., R. 11 W.

Chains	
	ground for cor. of Tps. 36 and 37 S., Rs. 10 and 11 W., marked with 6 notches on each edge; from which
	A quaken aspen 14 ins. in dia., bears S.76½°E., 30 lks. dist., mkd. T. 37 S R 10 W S 6 B T
	A quaken aspen, 10 ins.in dia.,bears S.26°W., 47 lks.dist., marked T 37 S R 11 W S 1 B T
	A quaken aspen,4 ins.dia.,bears N.76°25'E.,54 lks. dist., mkd. T 36 S R 10 W S 31 B T
	No other trees available to mark; raise a mound of stone 2 ft.base,1½ ft.high, S.of cor. Pits impracticable. The falling answers to a correction of 0°15' or 35 lks.N. per mile counting from the NE. cor. of the Tp.
	August 2, 1904.
	Aug. 3: At 7h 06m a.m., l. m. t., I set off 37° 38' N. on the lat. arc; 17° 33' N. on the decl.arc; determine a true meridian with the solar at the cor. of Tps. 36 and 37 S., Rs. 10 and 11 W.
	Thence I run
	N.89° 45'W. on a true line along N.bdy.of Tp. bet. secs. 1 and 36
	Through heavy aspen and dense brush.
	Descend gradually.
1.00	Leave aspen, bears NE. and S.
1.45	Road to Sheep Ranch, or to Cook's Springs, from Cedar City, bears N.10°E. and S.10°W.
5.00	Enter heavy aspen, bears N.and S.
9.55	Leave aspen, bears N. and S.
9.10	Enter heavy aspen, bears N. and S., descend into wash, drs. S.15°E.
0.00	Leave aspen, bears N. and SW.
1.50	Bottom of dry wash, small one in the bottom, 3 ft.deep, drains S. 10°E. Ascend gradually.
4.80	Enter heavy aspen, pinon, yellow pine and spruce timber, also red pine, bears N. and S.

NORTH BOUNDARY OF T. 37 S., R 11 W.

Chains

40.00 Set a black volcanic rock 24 x 10 x 6 ins.18 ins.in ground for ¼ sec.cor., mkd. ¼ on N. face; from which

An aspen,10 ins.dia., bears S.45°W.,18 lks.dist., marked ¼ S 1 B T

An aspen, 8 ins.dia., bears N.7°W., 19 lks.dist., marked ¼ S 36 B T

Raise a mound of stone 3 ft.base,1½ ft.high, N.of cor.

44.00 Descend gently.

53.00 Leave timber, bears N.and S.

68.50 Enter bunch of aspen and spruce, bears N. and SE.

70.00 Leave aspen and spruce, bears NE.and SW.

80.00 Set a black volcanic rock 18 x 8 x 8 ins.,12 ins. in ground, for cor. of secs. 1,2,35 and 36, mkd. with 1 notch on the E. and 5 notches on the W.edges; raise a mound of stone 2 ft.base,1½ ft.high, W.of cor. Pits impracticable.

Land, mountainous to level.

Soil, gravelly and rocky; 3nd and 4th rate.

Timber, aspen, spruce, yellow and red pine.

Brush, sage, rabbit, greasewood, deer.

Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.

August 3, 1904.

June 27, 1907: At the corner of secs. 1,2, 35 and 36, I examine the adjustments of the transit, which is a Young & Sons light mountain transit No. 7826, with solar attachment; The horizontal limb having two double verniers, placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined and tested on the true meridian at Salt Lake City, found correct and was approved by the Surveyor General for Utah, May 29, 1907.

NORTH BOUNDARY OF T. 37 S., R. 11 W.

Chains

Thence in order to test the solar apparatus by comparing its indications resulting from observations on the sun during a.m. and p.m. hours with a true meridian determined by observations on Polaris, I proceed as follows:

At 5h 0m p.m. by my watch, which is correct l.m.t., I set off 37° 38'N. on the lat.arc, 23° 22' N. on the decl.arc and determine a meridian with the solar and mark a point thereof by a tack driven in a peg set 5.00 chs. north of my station.

At 8h 30m p.m. I observe Polaris, and mark the direction thus obtained by a tack driven in a peg, firmly set in ground 5 chs. north of my station.

Astron. l. m. t. of obs. June 27		8h 30 m
U. C. Polaris June 15	19 h 51.2 m	
Red. June 26, sub.	43.1 m	
Astron.U.C.Polaris June 26	19 h 8.1 m	19h 8.1m
Hour angle Polaris at observation		13h 21.9m
Subtract from		23h 56.1m
Time argument for table VII		10h 34.2m
Azimuth of Polaris at Observation		31'E.

June 28: At 7 h a.m. I lay off the azimuth of Polaris 31' to the west and mark the true meridian thus obtained by a tack driven in a stake firmly set in ground 5 chs. north of my station. This mark falls 0.3 ins. west of the mark determined by the solar.

The magnetic bearing of said true meridian at 8h 30m a.m. is N. 16° 20'W., which reduced by the table on page 100 of the Manual, gives the mean mag.decl. 16° 15'E.

At 7h 5m a.m. l.m.t., I set off 23° 21'N. on the decl.arc, 37° 38' N. on the lat.arc, and determine a meridian with the solar, and mark a point thereof by a tack driven in the stake set 5 chs. north of my station. This mark falls 0.4 ins. west of the meridian established by Polaris observation. The solar apparatus by a.m. and p.m. obser-

NORTH BOUNDARY OF T. 37 S., R. 11 W.

Chains	
	vations defines positions 21" west and 16" east of the meridian established by Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.
	Thence
	N.89°45'W., on a true line, bet. secs. 2 and 35
	Through heavy brush.
9.00	Enter scattering spruce and over rocky ground.
17.50	Descend gradually.
22.50	Enter dense spruce (Englemann) bears N. and S.
26.00	Leave heavy timber and descend abruptly 100 ft. through very dense mahogany and scrub oak, over volcanic rock.
35.90	On a small bench.
40.00	Set a black volcanic rock 18 x 8 x 7 ins., 12 ins. in ground, for ¼ sec. cor., mkd. ¼ on N. face; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
	June 28, 1907.
	June 24, 1911: At 9h0m a.m., l.m.t., I set off 23°27'N. on decl. arc, 37° 38' N. on the lat. arc and determine a meridian with the solar.
	Thence I continue from ¼ sec. cor.
	N.89° 45' W. on a true line, bet. secs. 2 and 35
41.50	Descend very abruptly 900 ft. through dense mahogany and scrub oak, over volcanic boulders. Mountain at this point bears N. and S. then SE.
55.00	Heavy cedar and pinon pine intermixed with mahogany.
65.00	Descend more gradually.
75.00	Abrupt descent into gulch.
80.00	Set a sandstone 28 x 10 x 6 ins. 20 ins. in ground for cor. of secs. 2, 3, 34 and 35, mkd. with 2 notches on east and 4 notches on west edges; from which
	A pinon, 5 ins. dia., bears S.65°W., 92 lks. dist.,

NORTH BOUNDARY OF T. 37 S., R. 11 W.

Chains	
	mkd. T 37 S R 11 W S 3 B T
	No other trees available to mark; raise a mound of stone 3 ft.base,2 ft.high, W.of cor. Pits impracticable.
	The marks on this cor. were afterward destroyed, and same left as a bearing object for the closing cors. from the north and south, hereinafter referred to.
	Land, rolling and mountainous, very rough.
	Soil, rocky; 4th rate and worthless.
	Timber, cedar, pinon pine and spruce.
	Brush, mahogany, deer, scrub oak, sage and rabbit brush.
	Mountainous land or land covered with dense timber or heavy brush on 80.00 chs.
	N. 89° 45'W., on a true line, bet.secs.3 and 34
	Over mountainous land,through heavy brush and scattering pinon pine and cedar.
1.17	Intersect CC for secs. 2 and 3 set by me in 1909 and described in the subdivisions of this township.
1.37	Intersect CC for secs.34 and 35, T.36 S.,R.11 W. established by Leo A. Snow under his contract No. 304.
2.50	Descend abruptly 75 ft. into gulch, drains SW.
12.00	Bottom of gulch, ascend through medium heavy cedar and pine.
31.50	Top of west side of gulch.
35.60	Descending.
40.00	Set a sandstone 18 x 8 x 8 ins., 12 ins.in ground for ¼ sec.cor., mkd. ¼ on N. face, from which
	A cedar,5 ins. dia., bears N.2°W. 150 lks.dist., mkd. ¼ S 34 B T
	A pinon, 11 ins. dia.,bears S. 3° W. 175 lks.dist., mkd. ¼ S 3 B T
	Descending along head of gulch 60 ft.deep, drains S.
46.00	Ascend out of gulch.
49.00	Top of ridge, bears N. and S. Descend.
52.00	Descend abruptly 150 ft.over ledges,bears N. and S.

NORTH BOUNDARY OF T. 37 S., R. 11 W.

Chains	
56.00	Foot of ledges bear S.70°W. and N.70°E.
62.00	Gulch, drains S,10°W. Ascend.
68.00	Over heavily timbered south slope of hill, bears E.and W.
80.00	Set a black volcanic rock 18 x 6 x 5 ins., 12 ins.in ground for cor.to secs. 3,4,33 and 34, mkd. with 3 notches on east and west edges; from which A pinon,13 ins.dia.,bears S.87°W. 189 lks.dist., mkd. T 37 S R 11 W S 4 B T No other trees available to mark; raise a mound of stone, 3 ft.base,2 ft.high, W.of cor. Pits impracticable. The marks on this cor. were afterward destroyed and same left as a bearing object for the closing corners from the north and south, hereinafter referred to. Land, rough and mountainous. Soil, gravel and rocky, worthless. Brush, sage, deer and scrub oak. Timber, cedar and pinon pine. Mountainous land or land covered with heavy timber or dense brush on 80.00 chs.
	Thence I run N.89° 45' W. on a true line,bet.secs.4 and 33. Through heavy timber and dense brush.
1.14	Intersect CC for secs.3 and 4 set by me in 1909, and described in the subdivisions of this township.
2.27	Intersect CC for secs. 33 and 34, T.36 S.,R.11 W.,established by Leo A. Snow under his contract No. 304. Descend gradually along S. slope of hill.
8.00	Descend abruptly.
12.50	Bottom of gulch, 50 ft.deep, drains S. Ascend abruptly.
16.00	Top of ridge, bears N. and S. Descend.
21.50	Descend into gulch, 70 ft.deep, drains S.
39.00	Bottom of gulch. Ascend.
41.95	The ¼ sec.cor. bet.secs.4 and 33, heretofore described,

NORTH BOUNDARY OF T. 37 S., R. 11 W.

Chains

which gives the length of the ½ mile closing on the old work as 41.95 chains.

Land, rough and hilly.

Soil, gravelly and rocky; 4th rate and worthless.

Timber, cedar and pinon pine.

Brush, sage, deer and scrub oak.

Mountainous land or land covered with heavy timber and dense brush on 41.95 chs.

At 4h0m p.m.,l.m.t.,I set off 23°27'N.on decl.arc, and 37° 38' N. on the lat.arc, determine a meridian with the solar, a backsight along the line bet.secs.4 and 33 gives a bearing of S.89° 45'E.

June 24, 1911

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

John H. Clark

Compassman for William Lewman
U.S.Deputy Surveyor, Deceased.

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BOOK A-366

This is to certify that the surveys of those portions of the North Boundary and Subdivisions of Township 37 S. R. 11 W., made June 24 and 25, were made with the assistance of William Thompson as Flagman and that the chaining was done by myself assisted by said William Thompson.

John H. Clark

Compassman for William Lewman

U. S. Deputy Surveyor, Deceased.

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Page

BOOK A-366

There being no Notary Public, or other Public officer authorized to administer oaths, within a reasonable distance and as great delay and expense would be entailed in going before one, I administered the preliminary and final oaths to assistants in the survey of the North Boundary of Township 37 S. R. 11 W.

John H. Clark,
Compassman for William Newman
U. S. Deputy Surveyor, Deceased

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Page

I hereby Certify that I assisted John H Clark, passman for William Sewman, U.S. Deputy eyor, Deceased, in surveying those parts or portions e North boundary of Tp. 37 S. R 11 W. Salt Lake base mendian, State of Utah, which are represented he foregoing field notes as having been veyed by him and under his direction; and t said survey has been in all respects, to best of my knowledge and belief, well and uthfully surveyed, and the corner monuments tblished, according to the instructions nished by the United States Surveyor General Utah.

William Thompson { Chainman / Mound man / Flagman

ubscribed and Sworn to before me his 25 day of June 1911

John H. Clark
Compassman for William Sewman,
U. S. Deputy Surveyor, deceased.

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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 John H Clark, compassman for Cham Sewman, deceased, United States Deputy Surveyor, to assist in running, measuring, and ...king the lines and corners described in the foregoing field notes of the survey of the North ...ndary of Tp. 37 South R 11 West Sec. Lake Base & Meridian Utah ...ving the respective capacities in which they acted:

J. Cecil Clark, Chainman.
Raymond Pratt, Chainman.
J. Cecil Clark, Moundman.
Raymond Pratt, Moundman.
James G Houston, Axman.
, Axman.
James L. Clark, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John H Clark, compassman for Cham Sewman, deceased, United States Deputy Surveyor, in surveying all ... parts or portions of the North Boundary of Township 37 South Range 11 West

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

J. Cecil Clark, Chainman.
S Raymond Pratt, Chainman.
J. Cecil Clark, Moundman.
S Raymond Pratt, Moundman.
James G Houston, Axman.
, Axman.
James L. Clark, Flagman.

...ribed and sworn to before me this 28th ...ay of August A.D. 1905

...y Commission Expires Feby 15/906

SEAL

W. P. Sargent: Notary Public
Sheffield County Utah

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John H. Clark, Compassman for William Lemman deceased, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for Utah, bearing date of the 23 day of January, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of North Boundary of Township 37 South Range 11 West

of the Salt Lake base and meridian, in the State of Utah, 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John H. Clark
Compassman for United States Deputy Surveyor.
William Lemman deceased.

Subscribed by said John H. Clark, and sworn to before me this 29 day of August, 1905

Leo B. Hancock
Clerk of Court

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1906

The foregoing field notes of the survey of the North Boundary of Township 37 South Range 11 West of the Salt Lake Base & Meridian Utah

executed by John H. Clark, Compassman for William Lemman deceased under his contract No. 225, dated January 23 1899, ~~100~~, 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.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and arking the lines and corners described in the foregoing field notes of the survey of .....

.....

owing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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BOOK A-366

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ....., United States Surveyor General for ....., bearing date of the ..... day of ....., 19 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

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

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

.....

United States Deputy Surveyor.

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

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 20, 1912. xxx

The foregoing field notes of the survey of the North Boundary of Township No. 37 South, Range No. 11 West, of the Salt Lake Base and Meridian, in the state of Utah

.....

.....

.....

.....

executed by John H. Clark, Compassman for William Lewman, deceased under his contract No. 225, dated January 23 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Bell

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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I, John H. Clark, Compassman for William Lewman, United States Deputy Surveyor, Deceased, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair, United States Surveyor General for Utah, bearing date of the 23d day of January 1899, I have well, faithfully, and truly, in my owm proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the North Boundary of Twonship thrity seven South of Range eleven West of the Salt Lake base and meridian, in the state of Utah 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 perputuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original notes for such survey.

John H. Clark

Compassman for William Lewman

U.S.Deputy Surveyor, Deceased.

Subscribed by said John H. Clark

and sworn to before me this 17 day of

September 1911.

Fuller J. Broadbent

Clerk of Court.

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4—679.

BOOK A-366

B.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

OF

TOWNSHIP THIRTY-SEVEN SOUTH

RANGE ELEVEN WEST

Of the SALT LAKE BASE AND *Meridian,*

IN THE STATE OF UTAH,

AS SURVEYED BY

i H. Clark, Compassman for William Lewman, Deceased *United States Deputy Surveyor,*

ler his Contract No. 225, *dated* January 23, 1899. *190*

vey commenced August 5, *1904,*

vey completed October 16, *19*09.

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high 11-15-95

closing 51-29

Ref. 5-10-15

Res. 1.00 44

Retr. E. Bdy 1-76-13

BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

1904:

J.Cecil Clark	Chainman & Moundman,
S.Raymond Pratt,	Chainman & Moundman,
James G.Houston,	Axeman,
James L.Clark,	Flagman.

1907:-

Sam Clark,	Chainman & Moundman.
James T.Daly,	Chainman & Moundman.
Alpheus E.Hartley,	Axman,
Ernest L.Hancock	Flagman,

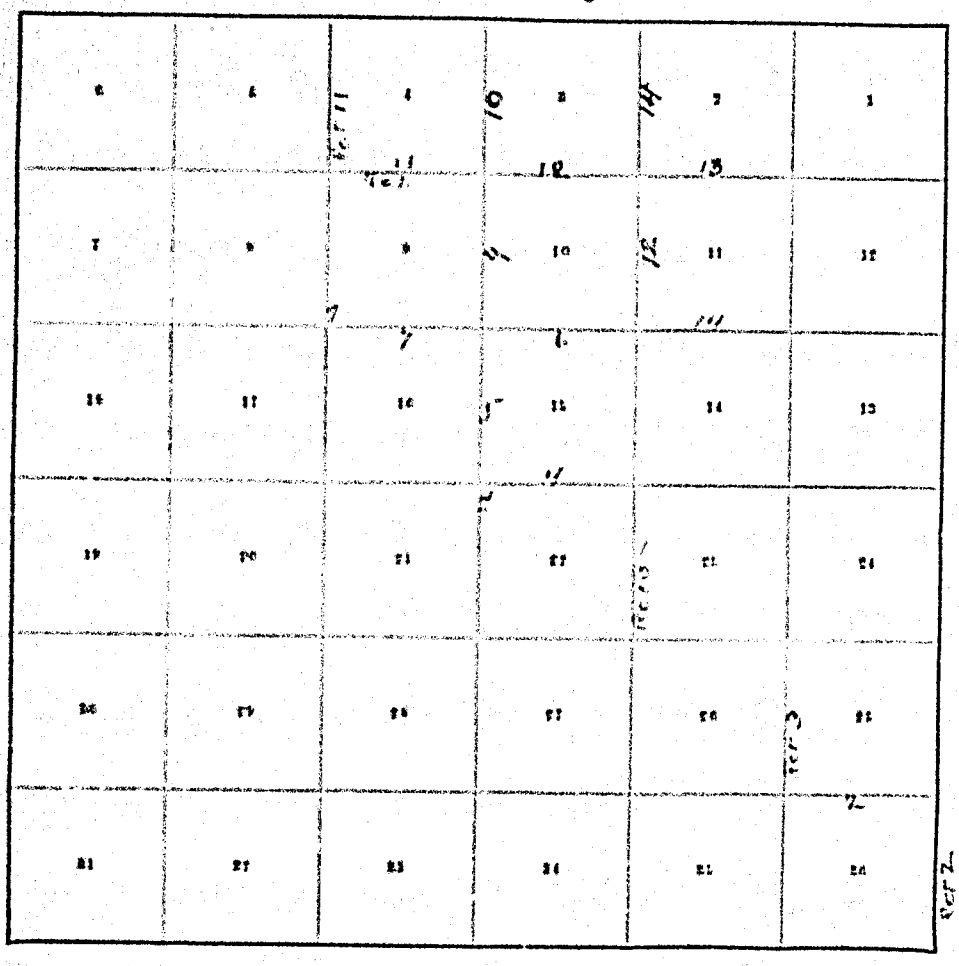
1909:-

John H.Clark,	Chainman.
William Urie,	Chainman, Moundman & Flagman.

BOOK A-366

INDEX DIAGRAM.

Township 37 South, *Range* 11 West



Meanders Page.....

BOOK A-366

PRELIMINARY OATHS OF ASSISTANTS.

WE, Sam Clark and James T. Daly do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level t chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; th we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the Cancel survey the Subdivisions of Township 37 South of Range 11 West, Salt Lake Meridian, Ma

Sam Clark, Chainma

James T. Daly, Chainma

Subscribed and sworn to before me this 28 day of June, 1907

SEAL

John H. Clark, Compassman for William Lewman, deceased, U. S. Deputy Surveyor.

WE, Sam Clark and James T. Daly 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 Cancel survey the Subdivisions of Township 37 South of Range 11 West of Salt Lake, Meridian

Sam Clark, Moundma

James T. Daly, Moundma

Subscribed and sworn to before me this 28 day of June, 1907

SEAL

John H. Clark, Compassman for William Lewman deceased U. S. Deputy Surveyor.

I, Alphuses E. Hartley and do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of corne and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the Cancel survey the Subdivisions of Township 37 South of Range 11 West, Salt Lake, Meridia and Base.

Alphuses E. Hartley, Axman

, Axman

Subscribed and sworn to before me this 28 day of June, 1907

SEAL

John H. Clark, Compassman for William Lewman, deceased, U. S. Deputy Surveyor.

I, Ernest L. Hancock, 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 th Cancel survey of the Subdivisions of Township 37 South of Range 11 West, Salt Lake Meridian and Base.

Ernest L. Hancock, Flagman

Subscribed and sworn to before me this 28 day of June, 1907

SEAL

John H. Clark, Compassman for William Lewman, deceased, U. S. Deputy Surveyor

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BOOK A-366

INDEX DIAGRAM.

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

6	5	4	3	2	1
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31	32	33	34	35	36

Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, John A. Clark and William Orie
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
Resubdivisions of Tp. 37 S. of R. 11 West, Salt Lake Base & Meridian

X William Orie, Chainma
John A. Clark, Chainma

Subscribed and sworn to before me this 15th
day of October, 1909.

Fullen S. Broadbent
Clerk of Court

SEAL

~~WE,~~ I William Orie ~~and~~
do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishme
of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey
Resubdivisions of Tp. 37 South of Range 11 W. Salt Lake Base & Merid

X William Orie, Moundma
Moundma

Subscribed and sworn to before me this 15
day of Oct, 1909

Fullen S. Broadbent
Clerk of the Court

SEAL

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 , 19

SEAL

I, William Orie, do solemnly swear that I will well and trul
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in th
survey of Resubdivisions of Tp. 37 South of Range 11 West Salt Lake Base

X William Orie, Flagman

Subscribed and sworn to before me this 15
day of Oct, 1909

Fullen S. Broadbent
Clerk of the Court

SEAL

6—151

Subdivisions of Tp. 37 S. R. 11 W.

Chains

Survey commenced Aug. 5, 1904, and executed with the instrument described in Book "A" of this survey.

I examine the adjustments of the transit and correct for level and collimation errors; then to test the solar apparatus, by comparing itsindications resulting from solar observations made during a.m. and P.M. Hours, with a true meridian determined by observations on Polaris, I proceed as follows.

Aug. 5: At the cor. of secs. 25, 26, 35, and 36, at 4 h. 6 m. P. M. l.m.t., I set off 37°34' N. on the lat. arc; 16°55'N. on the decl. arc, and determine a true meridian with the solar and mark a point thereof on a stake firmly set in the ground 5.00 chs. N. of the cor.

At 10 h 32m P. M., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual, and mark a point in the line thus determined by driving a nail in a stake firmly set in the ground 5.00 chs. N. of my station.

Aug. 5, 1904.

Aug. 6: At 6h 0m A. M. l.m.t., I lay off the azimuth of Polaris, 1°31' to the west and mark the true meridian thus determined by driving a nail in the stake set Aug. 5, on which the true meridian falls 0.2 ins. east of the mark determined by the solar.

At 8h 6m A. M., l.m.t., I set off 37°34' N. on the lat. arc; 16°44' N. on the decl. arc; and mark a point in the true meridian determined with the solar, by a nail driven in the stake already set 5.00 chs. N. of my station; this mark falls 0.4' east of the true meridian established by Polaris observations.

The solar apparatus by P. M. and A. M. observations, defines positions for true meridians, respectively about 0'10" west and 0'21" east of the true meridian established by the Polaris observations; therefore, I conclude the adjustments of the instrument are satisfactory.

Subdivision of Tp. 37 S. R. 11 W.

Chains	
	The magnetic bearing of the true meridian at 8a 30 m A. M., is N.16°20'W. the angle thus determined reduced by the table, page 100 of the Manual gives the mean mag. decl. 16° 15'E.
	I begin at the cor. of secs. 25, 26, 35, and 36, which is a trachyte stone 4x10x8 lbs above ground firmly set mkd. and witnessed as described by the Surveyor-General.
	Thence I run
	East on a random line bet. secs. 25 and 36.
40.00	Set temp. 1/4 sec. cor.
35.20	Intersect the E. bdy. of the Tp. 17 lks. S. of the cor. of secs. 25, 30, 31, and 36, a sandstone 6x8x4 lbs, above ground, mkd. and witnessed as described by the surveyor general.
	As this does not agree with the computed closure I run S. along the E. bdy. of sec. 36 on a retracement, and at
40.23	I find the 1/4 sec. cor. bet. secs. 31 and 36; and at
66.25	I find the C C to sec. 36 set by Deputy Hansen and at
71.63	I find the old cor. of Tps. 37 and 38 S. Rs. 10 and 11 W. making the length of the east bdy. of sec. 36, 66.25 chs. which being within the limits of closure with the west bdy. I return to the cor. of secs. 25, 30, 31 and 36, from which,
	I return S.89°53'W. on a true line bet. secs. 25 and 36.
	Ascend through dense brush.
17.00	Top of hill, brs. N. and S. and descend rather abruptly.
38.00	Bottom of hollow, 50 ft deep, small stream of water, drs. S. and S.E.
	Ascend gradually and enter heavy quaking aspen brs. N. and S.
42.96	Making the length of this 1/2 mile the same as that of the S. bdy.
	Set a sandstone 6x12x16 lbs, 11 lbs. in ground for 1/4 sec. cor. mkd. 1/4 on N. face; raise mound of stones 2 1/2 ft base, and 1 1/2 ft high, N. of cor. Pits impracticable.
73.82	Leave aspen, brs. N.W. and S.E.

Subdivision of Tp. 37 S., R. 11 W.

Chains	
83.80	Enter heavy aspen, brs. N. and S.
86.20	The cor. of secs. 25, 26, 35, and 36.
	Land hilly.
	Soil gravelly loam; 1st and 2nd rate.
	Timber aspen.
	Brush, scrub oak, service berry, sage, deer and bear berry.
	Land covered with heavy brush or aspen timber on 86.20 chs.
	As the length of this line does not close with the N. bdy. of sec. 25, I run north from the cor. of secs. 25, 26, 35, and 36 on a resurvey of the west boundary of sec. 25 and at
40.00	I find no trace of the 1/4 sec. cor. bet. secs. 25 and 26.
80.20	The old cor. of secs. 23, 24, 25, and 26 lies east 6.12 chs. Therefore I run
	S.4°22'W. on a true line bet. secs. 25 and 26, over mountainous land.
40.22	Set a sandstone 18x10x10lbs, 12lbs in ground for 1/4 sec. cor. mkd. 1/4 on W. face, and raise mound of stone 2' base, 1 1/2ft high, W. of cor. Pits impracticable.
80.44	The cor. of secs. 25, 26, 35, and 36.
	Land Mountainous.
	Soil gravelly loam, 1st and 2nd rate.
	Timber, aspen.
	Mountainous land 80.44 chs.
	Aug. 6: At 2h 06m P. M. l.m.t., I set off 37°35' 1/2'N. on the lat. arc, 16°40'N. on the decl. arc, and determine a true meridian with the solar at the witness cor. to cor. of secs. 15, 16, 21, and 22, which is a boulder 6x4x4ft. above ground, mrk. and witnessed as described by the surveyor general.
	Thence I run

Subdivision of Tp. 37 S., R. 11 W.

Chains	
	~~Thence I run~~
	North on a true line bet. secs. 21 and 22,
	Descend abruptly about 100 ft. over slate ledges, bearing N.60°E. and S.60°W.
3.25	On abrupt slope of mountain.
	Set a limestone 20x10x8lbs, 15lbs. in mound of stone for cor. of secs. 15, 16, 21, and 22, mkd. with 3 notches on the S. and 3 notches on the E. edges, with 37 S. on N.E., and 11 W on S.E. faces; raise a mound of stone 2ft. base, 1 1/2ft high, W. of cor. Pits impracticable.
	Land very rough and mountainous.
	Soil, slate rock and shale.
	Timber spruce and some red pine.
	Brush, deer, scrub oak, service berry, and mahogany.
	Mountainous land on 3.25 chs.
	East on a random line bet. secs. 15 and 22.
40.00	No trace of the old sec. cor., I run N. and at 13.55 chs. find the old 1/4 sec. cor. bet. secs. 15 and 22, 2.60 chs. E., a sandstone 6x12x10lbs. above ground, mkd. 1/4 on N. face. From this 1/4 sec. cor. I run
	West on true line bet. secs. 15 and 22.
	Through heavy brush, over mountainous land.
12.00	Ascend abruptly along N. slope of mountain.
	Enter spruce and pinon pine t mber, bearing N.W. and S.E.
30.00	Along high slope descending over very rough ground.
42.60	Intersect the N. and S. line 13.55 chs. N. of the cor. of secs. 15, 16, 21, and 22, on abrupt slope of rocky mountain.
	Set a sandstone 24x10x6lbs, 18lbs. in ground, for closing cor. to cor. of secs. 15 and 22, mkd. C C on E. face, with 3 grooves on S. and E. faces; raised mound of stone 2ft base, 1 1/2ft high, E. of cor. Pits impracticable.
	I destroy all marks on old corner pertaining to secs. 15 and 22.

SUBDIVISION OF T. 37 S., R. 11 W.

Chains	
	Land rough and mountainous.
	Soil, black loam and rocky gravel; 1st rate and worthless.
	Timber, scattering spruce and pinon pine.
	Brush, deer, mahogany, sage, and service berry.
	Mountainous land or dense brush on 42.60 chs.
	As section 22 does not close within limits, from the cor. of secs. 14,15,22 and 23, I retrace
	South bet. secs. 22 and 23
30.00	Foot of mountain, mentioned in old notes.
40.00	No corner to be found.
53.69	The established ¼ sec.cor. bet. secs.22 and 23, a sandstone 12 x 8 x 6 ins.above ground, marked and witnessed as described by the surveyor general found 285 lks.west. The course of this line is, therefore, S. 3° 03'W., and the distance 53.77 chs.
	I offset over the ¼ cor. and continue
	South
93.69	The established cor. to secs. 22, 23, 26 and 27, a granite stone 18 x 5 x 12 ins. above ground, marked and witnessed as described by the surveyor general, found 5 lks. east. The course of this half-mile is, therefore S. 0° 04'E. and the distance 40.00 chs., making the length of this line 93.77 chs.
	From the cor. of secs.16 and 21, I run
	North on true line, bet.secs.16 and 22.
	Through medium heavy spruce, pinon pine and cedar, a few yellow pine, and dense brush, over mountainous land.
9.20	Top of rocky ridge, bears NW.and SE. Descend very abruptly about 800 ft.
13.55	Intersect closing cor.to secs.15 and 22, thence
	North bet.secs.15 and 16
30.00	Leave timber, bears NW.and SE.

SUBDIVISION OF T. 37 S., R. 11 W.

Chains	
40.00	Foot of mountain.
	Set a sandstone 30 x 10 x 4 ins.,22 ins. in ground for ¼ sec.cor.,mkd.¼ on W.face;raise mound of stone 2 ft.base, 1½ ft.high, W.of cor.
41.50	Dry wash,4 ft.deep,30 lks.wide,drs. NW. into large wash, thence over very brushy and rocky land.
50.00	Dry wash,4 ft.deep,50 lks.wide, drains N. then NW.
56.00	Leave wash,drains NW.
	Road bears NW.and SE.
80.00	Set a sandstone 18x8x6 ins.,12 ins.in ground for cor.of secs.9,10,15 and 16,mkd.with 4 notches on S.and 3 notches on the E.edges;raise mound of stone 2 ft.base,1½ ft.high, W.of cor. Pits impracticable.
	Land,mountainous on first half,level but rocky on last.
	Soil,gravelly and rocky, worthless.
	Timber,cedar,spruce,pinon and yellow pine on first ½ mile.
	Brush,sage,scrub oak,deer,service berry and grape vine.
	Mountainous land or land covered with dense brush on 80.00 chs.
	Sky being overcast,solar observations are impossible.
	August 6, 1904
	Aug.7: Sky being overcast,solar observations are impossible.
	East on a random line,bet.secs.10 and 15
40.00	Old ¼ sec.cor.bet.secs.10 and 15 cannot be found;so I run North: and at 13.85 chs.find the old ¼ sec.cor.2.90 chs. east. A sandstone 6x10x6 ins.above ground,mkd.and witnessed as described by the surveyor-general.
	From this ¼ sec.cor. I run
	West on a true line,bet.secs.10 and 15
	Ascend over mountain,through heavy cedar and pinon pine.
10.50	Top of mountain bears NE.and SW., at this point
	Descend abruptly,through dense brush.
28.00	Bottom of hollow,400 ft.below top of hill,drs. SW. Ascend.
34.00	Top of ridge,80 ft.high, bears NE.and SW.
	Descend 60 ft.

Subdivisions of Tp. 37 S., R. 11 W.

Chains.	
39.90	Bottom of small hollow, drs. S.W. Ascend 30 ft.
40.00	Top of point of small ridge, brs. N.E. and S.W. Descend.
41.50	Bottom of large wash or gulch 50 ft. deep, drs. N.W.
42.90	On W. side of gulch, intersect the N. and S. line 13.85 chs. N. of the cor. of secs. 9, 10, 15, and 16. Knowing from previous retracements that this cor. will be the N.W. cor. of sec. 15 only Set a sandstone 24 x 8 x 6 ins. 18 ins. in ground for N.W. cor. of sec. 15, mkd. 37 S. 11 W. on S.E. face with 3 notches on E. edge. Rasic a mound of stone 2 ft. base 1½ ft. high, S.E. of cor. A cedar 5 ins. dia. brs. S. 49° E. 42 lks. dist. mkd. T. 37 S. R. 11 W. S. 15 B. T. I destroy all marks on the old cor. pertaining to secs. 10 and 15. Land: rough and mountainous. Soil: rocky, worthless. Timber: cedar and pinon pine, medium heavy. Brush: sage, deer, scrub, oak and service berry. Mountainous land or land covered with dense brush on 42.90 chains.
	From the cor. of secs. 9 and 16 I run, West on a true line bet. secs. 9 and 16. Through dense brush, over rocky ground.
5.46	Dry wash 10 ft. deep, 20 lks. wide, drs. N.W.
11.00	Dry wash, 15 ft. deep. 214 lks. wide, drs. N.W.
13.20	Road from Cedar City to coal mine, brs. N.W. and S.E.
15.00	Over foot of mountain, brs, S.E.
19.00	Descend 40 ft. into ravine, drs. N.
21.00	Leave ravine.
24.90	Small gulch, 30 ft. deep, drs. N.
25.60	Leave gulch, Ascend over broken hill. Enter cedar and pinon pine, brs. N.W. and S.E.
30.44	Top if hill brs. N.W. and S.E. Descend 50 ft.

Subdivisions of Tp. 37 S., R. 11 W.

Chains.	
38.00	Bottom of small hollow drs. S. Ascend abruptly.
40.00	Set a sandstone 24 x 10 x 6 ins. 18 ins. in ground for ¼ Sec. cor. mkd. ¼ on N. face. From which
	A pinon pine 9 ins. dia. brs. N. 80° E. 62 lks. dist. mkd. ¼ S. 9 B. T.
	A cedar 18 ins. dia. brs. S. 70° E. 38 lks. dist. mkd. ¼ S. 16 B. T.
40.50	Top of ridge of hill, brs. N.E. and S.W.
	Branch ridge brs. N.W.
	Descend very abruptly 100 ft. into gulch.
45.00	Bottom of side gulch drs. S.W.
	Ascend abruptly.
50.00	Top of ridge brs. N. and S.
	Leave timber, brs. N.W. and S.E.
	Descend abruptly 100 ft. to
52.00	Enter very thick scrub oak.
53.80	Dry wash, 12 ft. deep, 20 lks. wide in bottom of main gulch drs. N.W.
54.00	Ascend very abruptly 250 ft. along S. side of gulch.
64.00	Leave gulch.
66.50	Small ravine 20 ft. deep, 300 lks. wide drs. N. and N.W.
70.00	Enter heavy cedat and pinon pine, brs. N. and S. Ascend.
77.80	Intersect the N. and S. line 14, 15 chs. S. 1° 51' W. of the cor. of secs. 8, 9, 16, and 17.
	Set a sandstone 28 x 12 x 6 ins. 21 ins. in ground for closing corner of secs. 9 and 16, mkd. C. C. on W. face, with 4 grooves on the S. and 2 on N. faces. Raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. from which
	A cedar 24 ins. dia. brs. S. 30° E. 6 lks. dist. mkd. T. 37 S. R. 11 W. S. 16 B. T.
	A pinon pine 16 ins. dia. brs. N. 66° E. 62 lks. dist. mkd. T. 37 S. R. 11 W. S. 9 B. T.
	I destroy all marks on the old corner pertaining to secs.

SUBDIVISION OF T. 37 S., R. 11 W.

Chains	
	9 and 16.
	Land, level to rough and mountainous.
	Soil, rocky and gravelly, worthless and 3rd rate.
	Timber, cedar and pinon pine.
	Brush, sage, scrub oak, deer and service berry.
	Mountainous land, or land covered with heavy timber or dense brush on 77.80 chs.
	August 7, 1904
	June 29, 1907: At 5h0m p.m., l.m.t., I set off 37°37'N. on the lat. arc, 23° 17'N. on the decl. arc, and determine a meridian with the solar at the NW. cor. of sec. 15.
	From the cor. of secs. 9 and 16, I run
	North on a random line bet. secs. 9 and 15
13.85	The NW. cor. of sec. 15. Thence
	North bet. secs. 9 and 10
40.00	Set temp. ¼ sec. cor.
94.05	Find the old cor. to secs. 3, 4, 9 and 10, 290 lks. east. It is a sandstone 18 x 15 x 4 ins., marked as described by the surveyor general. Only one bearing tree remains.
	From the cor. of secs. 3, 4, 9 and 10, I return
	South on a true line, bet. secs. 9 and 10
	Through heavy cedar and pinon pine and dense brush.
3.50	Small wash, 5 ft. deep, 2 chs. wide, drains NW.
28.00	Descend into head of large gully, 50 ft. deep, drains W. and SW.
40.10	Set a sandstone 30 x 8 x 4 ins., 22 ins. in ground for ¼ sec. cor. to secs. 9 and 10, mkd. ¼ on W. face; from which
	A pinon pine, 16 ins. dia., bears N. 46°W. 24 lks. dist., mkd. ¼ S 9 B T
	A pinon pine, 20 ins. dia., bears N. 80°E., 23 lks. dist., mkd. ¼ S 10 B T
40.50	Leave gully.
42.00	Descend into Shurtz Creek Gulch, 50 ft. deep, drains W.
45.00	Shurtz Creek, 10 lks. wide. Ascend gradually.
48.00	Leave Shurtz Creek Gulch. Ascend gradually.

SUBDIVISION OF T. 37 S., R. 11 W.

Chains	
52.75	Descend 60 ft.over ledges, bears E.and NW. into head of small gulch,drains NW. 350 lks.,then SW.
54.10	Bottom of gulch and ascend abruptly.
56.60	Leave gulch and descend gradually along E.slope of hill.
70.00	Ascend gradually.
79.45	Descend into small hollow, drains SW.
80.20	On edge of small dry wash.
	Intersect the N.bdy.of sec.15 2.90 chs.E.of NW.cor.of sec. 15. Set a sandstone 20 x 14 x 10 ins.,12 ins.in ground for CC to cor.of secs.9 and 10, mkd.CC with 2 grooves on N.and 3 grooves on E.face; from which
	A pinon,14 ins.dia.,bears N.45°E.,80 lks.dist., mkd. T 37 S R 11 W S 10 B T
	A pinon,14 ins.dia.,bears N.50°W.,54 lks.dist., mkd. T 37 S R 11 W S 9 B T
	Land, rolling to hilly.
	Soil,rocky and gravelly; worthless and 3rd rate.
	Timber,cedar and pinon pine.
	Brush, sage, greasewood,scrub oak,deer and rabbit.
	Land covered with dense brush or heavy timber on 80.00 chs.
	June 29, 1907.
	Oct.15,1909:At 8h0m a.m.l.m.t.,I set off 37°37'N.on lat. arc, 8°34'S. on the decl.arc,and determine a meridian with the solar at the cor.to secs.3,4,9 and 10. Thence I run North on a random line,bet.secs.3 and 4
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.18	Intersect the north boundary of the township 1.14 chs. N.89° 45'W.of the cor.to secs.3 and 4, 33 and 34, which was re-established by me in 1911. See notes of N.Bdy.this township.
	Set a sandstone 22 x 16 x 10 ins., 14 ins. in ground for CC to secs. 3 and 4, mkd. with 3 grooves on east and west faces and C C and 2 grooves on south face;from which

Subdivisions of Tp.37 S., R. 11 W.

Chains	
	A pinon 13 ins.dia.bears S.85° W. 70 lks.dist..mkd. T 37 S R 11 W S 4 B T
	No other trees convenient to mark; raise a mound of stone 3 ft.base, 2 ft.high south of cor.
	Obliterate all marks from cor.to secs.3.4.33, and 34, which pertain to secs.3 and 4. Whence I return on a true line
	South bet.secs.3 and 4.
	Descend gradually through timber and heavy brush.
8.00	Bottom of gulch 30 ft.deep, drs.SW.
11.00	Leave gulch. Thence over broken ground.
15.00	Descend abruptly 50 ft.into large gulch,drs.SW. & W.
16.75	Bottom of gulch and ascend abruptly.
20.00	Top of ridge, brs.NE. and SW. Descend abruptly into gulch,drs.from SE.to join main gulch.
26.00	Bottom of gulch and ascend abruptly 75 ft.
30.00	Top of ridge of hill, brs.SE. and NW. Descend gradually.
	Very scattering timber.
40.18	Set a black volcanic rock 24 x 8 x 4 ins., 18 ins.in ground for ¼ sec.cor., mkd.¼ on west face. No trees convenient to mark. Raise mound of stone 2 ft.base, 1½ ft.high west of cor.Pits impracticable.
44.50	Descend abruptly 80 ft.into gulch, drs.W.
49.00	Bottom of gulch,small seep of water.Asc.through timber.
67.00	Top of hill.brs.SW. and NE.Descend gradually.
74.50	Leave heavy timber. brs.E. and SW.
80.18	The corner of secs.3.4.9 and 10.
	Land, rough and hilly.
	Soil, rocky and gravelly;4th and 3nd rate.
	Timber.cedar and pinon pine.
	Undergrowth.sage.deer,scrub oak, and serviceberry.
	Mountainous land or land covered with dense brush on 80.18 chs.

Subdivisions of Tp.37 S., R. 11 W.

Chains.	
	As section 4 does not close within the limits I begin at the old established corner of secs.4.5.32. and 33 on the N.bdy.of Tp. Thence I run
	South on retracement of west bdy.of sec.4, and at
40.45	The old ¼ sec.cor.falls 14 lks.east.
79.85	Find the old established cor.of secs.4.5.8 and 9, 90 lks.east. It is a sandstone 12 x 10 x 8 ins., marked and witnessed as described by the surveyor general.The course of the first half of the line bet.secs.4 and 5 is S.0° 12'E., and of the second half S.1° 6'E.and the dist. 79.86 chs. From this corner I retrace east and at
40.10	The ¼ sec.cor.bet.secs.4 and 9 falls 2 lks.N.
80.05	Intersect the N. and S.line 30 lks.north of the cor.of secs.3.4.9. and 10. Showing the error in closure to be in the old work.
	The course of the first half-mile is N.89°58'E.40.10 chs. and of the second half mile S.88°32'E.39.95 chs.
	Oct.15.1909: At 2 h. p.m.l.m.t.I set off 37° 36'N.on the lat.arc;8°31'S.on the decl.arc.and determine a meridian with the solar at the cor.of secs.10,11,14, and 15,which is a sandstone 18 x 10 x 8 ins.firmly set,mkd. and witnessed as described by the surveyor general.
	Thence North on a true line bet.secs.10 and 11.
	Ascend abruptly 600 ft.over ledges.
22.00	Descend abruptly over ledges.
40.00	Set a sandstone 18 x 12 x 8 ins., 12 ins.in the ground for ¼ sec.cor., mkd.¼ on W.face;raise a mound of stone 3 ft.base 1½ ft.high west of cor. Pits impracticable. Very heavy brush and very scattering cedar and pinon.
43.00	Dry wash in bottom of gulch drs.N.10° E.,then NW.Ascend
46.00	NE.point of high hill, bears SW.
	Descend.

Subdivisions of Tp. 37 S. R. 11 W.

Chains.	
50.00	Dry wash, drs. westerly. Ascend. Enter heavy timber.
80.00	Set a sandstone, 24 x 12 x 6 ins. 18 ins. in ground for for cor. to secs. 2, 3, 10 and 11, marked with 2 notches on east and 5 notches on south edges. Raise a mound of stone 2 ft. base, and 1½ ft. high west of cor.
	Land: mountainous.
	Soil: rocky and sandy, 4th rate.
	Timber: pinon pine and cedar on 30 chs.
	Brush: sage, rabbit, scrub-oak and service berry.
	Mountainous land or land covered with dense brush or heavy timber on 80.00 chians.
	Thence west on a random line bet. secs 3 and 10.
79.98	The cor. of secs. 3, 4, 9 and 10 falls N. 11 lks.
	Whence I return S. 89° 55' E. on a true line.
	Through medium heavy timber and heavy brush.
15.00	West side of gulch. Descend abruptly.
17.00	Bottom of gulch, 40 ft. deep, drs. N.W. Ascend abruptly.
18.00	East side of gulch.
35.00	Descend.
37.00	Bottom of gulch, 40 ft. deep, drs. N.W.
39.99	Set a sandstone 18 x 10 x 6 ins. 12 ins. in ground for ¼ sec. cor. mkd. ¼ on N. face. From which
	A cedar 8 ins. dia. brs. S. 40° W. 46 lks. dist. mkd. ¼ S. 10 B. T.
	A pinon 8 ins. dia. brs. N. 30° E. 56 lks. dist. mkd. ¼ S. 3 B. T.
42.00	Over lever ground, gentle ascent.
79.98	The cor. to secs. 2, 3, 10 and 11.
	Land: level but broken.
	Soil: gravel and sandy gravel; 3rd rate.
	Timber: cedar and pinon pine.
	Brush: sage, greasewood, scrub-oak and deer.
	Land covered with heavy timber or dense brush on 79.98 chs.

Subdivisions of Tp. 37 S. R., 11 W.

Chains	
Oct.15,1909:	At 4h. P.M. l.m.t. I set off 8° 32 ' N. on the decl. arc, 37° 37' N. on the lat. arc and determine a meridian with the solar at the cor. to secs. 2, 3, 10 and 11.
	Thence I run
	East on a random line bet. secs. 2 and 11
40.00	Set temp. ¼ sec. cor.
81.24	Intersect the north and south line 453 links north of the cor. to secs. 1, 2, 11 and 12, set by me and previously described.
	I abandon random line and beginning at the cor. of secs. 1, 2, 11 and 12, I run:
	West on a true line bet. secs. 2 and 11.
	Descend abruptly through heavy brush.
24.00	Bottom of canyon, drs. N. 80° 10' W. Some spruce timber, brs. N.W. and S.E. Descend gradually on S. bottom-land.
40.62	Set a sandstone 20 x 16 x 8 ins. 14 ins. in ground for ¼ sec. cor., mkd. ¼ on N. face. Raise mound of stone 2 ft. base 1½ ft. high, north of cor. Pits impracticable.
59.00	Bottom of canyon, drs. S. then S.W. Ascend very abrupt. Enter medium heavy timber, brs. N. and S.
68.00	Top of rocky hill, brs. N. and S. Descend abruptly 450 ft.
	Enter very heavy timber.
81.24	At a point 453 links south of the cor. of secs. 2, 3, 10 and 11.
	Set a sandstone 18 x 16 x 8 ins. 12 ins. in ground for C.C. of secs. 2 and 11, mkd. CC with 2 grooves on E. and 5 grooves on S. face.
	Raise mound of stone 2 ft. base, 1½ ft. high, east of corner.
	Land: mountainous.
	Soil: rocky; some 2nd rate; sandy loam.
	Timber: spruce, aspen, cedar and pinon pine.
	Mountainous land and land covered with dense brush on 81.24 chains.

SUBDIVISION OF T. 37 S., R. 11 W.

Chains	
	Since sec. 11 does not close within limits, I go to the cor. of secs.1,2,11 and 12, thence south on a retracement of the east boundary of sec. 11 and at
39.70	Find the old ¼ sec.cor., 13 lks. east
75.50	The cor. of secs. 11, 12, 13 and 14 is east 17 lks.
	The course of the first half mile is S. 0° 11'E. and the second S. 0° 04'E.
	Thence
	West on a retracement of the south boundary and at
41.17	Find the old ¼ sec. cor. 17 lks. north. I offset over the ¼ sec. cor. and continue
	West
80.97	The cor. to secs. 10, 11, 14 and 15.
	The length of this line is 80.97 chs. and the bearing of the east half mile is N. 89° 45'W., 41.17 chs. and of the west half mile, west 39.80 chs.
	October 15, 1909.
	October 16, 1909: At 10h 0m a.m.,l.m.t., I set off 37°37' N. on the lat.arc, 8° 49' S. on the decl.arc, and determine a meridian with the solar at the cor.to secs.3 and 10. Thence I run
	North on a random line bet.secs.2 and 3
40.00	Set temp.¼ sec.cor.
80.10	Intersect the N.bdy.of Tp.,117 lks. N.89° 45'W. of the cor.of secs. 2,3, 34 and 35.
	This cor. was re-established by me in 1911. See notes of north boundary, this township.
	Set a sandstone 26 x 14 x 5 ins. 16 ins.in ground for CC to secs. 2 and 3, mkd. with 2 grooves on the east, 4 grooves on the west, and 6 grooves and CC on the south face; from which
	A pinon,7 ins.dia.,bears S.87°W.,12 lks.dist., mkd. T 37 S R 11 W S 3 B T
	A pinon,12 ins.dia.,bears S.86°E.,75 lks.dist.,

SUBDIVISION OF T. 37 S., R. 11 W.

Chains	
	mkd. T 37 S R 11 W S 2 B T
	Raise a mound of stone 3 ft.base,2 ft.high,south of cor.
	Destroy all marks on Tp.cor.pertaining to secs.2 and 3
	Thence
	South on a true line,bet.secs.2 and 3
2.20	Descend gradually.
40.10	Set a black volcanic rock 18 x 16 x 6 ins.,12 ins.in ground,for $\frac{1}{4}$ sec.cor., mkd.$\frac{1}{4}$ on W.face;raise mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high, W.of cor. Pits impracticable.
46.50	Dry wash,20 ft.deep,100 lks.wide,drains W. Leave timber, bears E.and W.
62.50	Dry wash,18 ft.deep,35 lks.wide, drains W. Ascend. Enter timber, bears E.and W.
64.00	Along west slope of mountain.
80.10	The cor.to secs.3 and 10
	Land, mountainous to hilly.
	Soil, gravelly and rocky; worthless.
	Brush, sage,greasewood,deer and scrub oak.
	Mountainous land or land covered with dense brush and heavy timber on 80.10 chs.
	October 16, 1909.
	August 9,1904: At 7h 05m a.m.,l.m.t., I set off 37°37'N. on the lat.arc, 15°55'N. on the decl.arc,and determine a true meridian with the solar at the cor.of secs.1,2,11 and 12,which is a volcanic rock 10x6x6 ins,above ground, mkd.and witnessed as described by the surveyor-general.
	Thence I run
	North on a random line,bet.secs.1 and 2
40.00	Set temp.$\frac{1}{4}$ sec.cor.
84.50	Intersect the N.bdy.of Tp.,12 lks.E.of the cor.of secs. 1,2,35 and 36,set by me and heretofore described.
	As the length of this line does not agree with the theoretical length, I go to the cor.of Tps.36 and 37 S., Rs.10 and 11 W. Thence I run
	South on retracement of the east bdy.of sec. 1
41.00	Intersect the $\frac{1}{4}$ sec.cor. of secs. 1 and 6.

Subdivisions of Tp. 37 S. R., 11 W.

Chains.	
	A tractyte stone 5 x 10 x 12 ins. above ground, mkd. and witnessed as described by the Surveyor-General.
80.00	The length of the old line; no corner found.
84.50	The cor. of secs. 1, 6, 7, and 12.
	I now begin at the cor. of secs. 1, 2, 35, and 36, and run S. 0° 05' E. on true line bet. secs. 1 and 2.
	Ascend gradually through dense brush.
10.00	Skirt grove of aspen.
32.00	Enter aspen, brs. E. and W.
35.00	Leave aspen.
44.50	Set a black volcanic rock 28 x 10 x 6 ins, 21 ins, in ground for ¼ sec. cor. mkd. ¼ on W. face.
	Rasie mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
53.00	Descend very abruptly 350 ft. over volcanic rock from top of Cedat Mt., brs. N.W. and S.E.
	Enter heavy mahogany and deer brush.
65.00	Along head of canyon, drs. W. and S.W., through dense scrub-oak.
84.50	The cor. of secs. 1, 2, 11, and 12.
	Land: nearly level to mountainous.
	Soil: rocky; 4th rate and worthless.
	Timber: aspen, scattering spruce, pinon pine and cedar.
	Brush: sage, greasewood, scrub-oak, mahogany and deer.
	Mountainous land or land covered with dense brush on 84.50 chains.
	Cloudy, rain; observations on sun impossible.
	August 9, 1904.

GENERAL DESCRIPTION.

The country embraced in this contract includes only two varities of soil; the rich gravel loam found in secs. 25 and 35, and the rocky gravel found throughout the remainder.

While the land along the line bet. secs. 25 and 36

is rich rolling upland, the remainder of the country embraced in contract No. 225 is mountainous and of a character unfitted for anything except free grazing. Cedar Mountain, a part of the high plateau along the E. bdy. of the Tp. in secs. 1 and 2, with a main elevation of 2,400 ft. above Cedar Valley, drops away forming a chain of rough peaks, extending in a double line N.E. and S.W., through secs. 2, 10, 11, 15, 16, 21, and 22. This chain has an elevation of 1, 900 ft. above the mountain valleys; the Sugar Loaf Hills are at their bases.

The township is fairly well watered by springs, but only one stream of any significance is found: Shurtz Creek, having a small flow of pure spring waterm which supplies the little town of Hamilton's Fort, rises in secs. 14 and 23. approximately, flowing through secs. 9, 10, and 15.

The principal forest cover is aspen; cedar and pinon pine are found on the foot-hills, and a considerable number of Englemann spruce, and red and yellow pine grow on the higher portions of the mountains, together with a fair stand of spruce in secs. 21 and 22. Mahogany which attains a good size and may be of commercial value is found throughout.

The rock throughout the N.E. portion is volcanic, with a slate shale showing beneath. Some slate that might prove of value is found near the witness cor. to cor. of secs. 15, 16, 21, and 22. Along the rim of Cedar Mountain the volcanic rock contains enough iron to make runnig with the needle impossible; and a strong vein of iron shows in secs. 2 and 3, running generally N.W. and S.E. No building stone, other than the slate mentioned is found.

A coal mine is located in sec. 23.

The only acceptable portions of this Tp. are al-

GENERAL DESCRIPTION OF TP. 37 S. R. 11 W.

ready taken up as grazing land, agriculture being impossible, both on account of the elevation and lack of sufficient water.

James F. Pace has located a claim in the S.W. part of the S.E. ¼ of the S.W. ¼ of sec. 36, but has not fenced the same, and has not inhabited the house for several years.

Isreal Neilsen is located partially in the N.W. ¼ of sec. 25, and W. H. Edwards in S.W. ¼ of sec. 24.

Isaac Higbee has fenced in a portion of the N.W. ¼ of sec. 25, and has started to erect a house on the same.

Mr. Culver has built a house and corral about 35.00 chains N. of the ¼ sec. cor. bet. secs. 25 and 36, but has not put up any fences.

Higbee's improvements are in the neighborhood of $400.00.

Higbee's and Pace's locations were too far from any of the lines under my work to be correctly located.

John H. Clark

Compassman for William Lemman, D. S.

Deceased.

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BOOK A-366

This is to certify that the surveys of the subdivisions of Tp. 37 S. R. 11 W. made October 15 and 16 were made with the assistance of William Urie as Flagman and that the chaining was done by myself personally assisted by said William Urie.

Compassman for William Lewman,
U.S.Deputy Surveyor, Deceased.

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BOOK A-366

There being no Notary Public or other public officer authorized to administer oaths, within a reasonable distance and as great delay and expense would be entailed in going before one I administer the preliminary oaths to the assistants in the survey of the Subdivisions of Township 37 South, Range 11 West.

John H Clark
Compassman for William Lewman
U. S. Deputy Surveyor, Deceased.

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PRELIMINARY OATHS OF ASSISTANTS.

We, J. Cecil Clark and Raymond Pratt do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey The Subdivisions of Tp 37 S R 11 W Sal Lake Base & Mer Utah

J. Cecil Clark, Chainm
Raymond Pratt, Chainm

Subscribed and sworn to before me this 22 day of July A.D. 1904
My Commission Expires Feb 15/906
SEAL
Wm P Sargent: Notary Pu Garfield County Utah

We, J. Cecil Clark and Raymond Pratt do solemnly swear that we will well and truly perform the duties of moundmen in the establishm of corners, according to the instructions given us, to the best of our skill and ability, in the survey The Subdivisions of Tp 37 S R 11 W S L B & M Utah

J. Cecil Clark, Moundm
Raymond Pratt, Moundm

Subscribed and sworn to before me this 22 day of July A.D. 1904
My Commission Expires Feby 15/906
SEAL
Wm P Sargent: Notary Public Garfield County Utah

~~We~~ I, James G. Houston and do solemnly swear that ~~we~~ will well and truly perform the duties of axm~~en~~a in the establishment of corn and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey The Subdivisions of Tp 37 S R 11 W S L B & M Ut

James G. Houston, Axma
, Axma

Subscribed and sworn to before me this 22 day of July A.D. 1904
My Commission Expires Feby 15/906
SEAL
Wm P Sargent: Notary Public Garfield County Utah

I, James L. Clark, do solemnly swear that I will well and tru perform the duties of flagman according to instructions given me, to the best of my skill and ability, in t survey of The Subdivisions of Tp 37 S R 11 W S L B & M U

James L. Clark, Flagma

Subscribed and sworn to before me this 22 day of July A.D. 1904
My Commission Expires Feby 15/906
SEAL
Wm P Sargent: Notary Public Garfield County Utah

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John T. Clark, Compassman for William Sewman deceased, United States Deputy Surveyor, to assist in running, measuring, and arking the lines and corners described in the foregoing field notes of the survey of the Subdivisions of Tp 37 S R 11 W S S Base and Meridian Utah owing the respective capacities in which they acted:

J. Cecil Clark, Chainman.
Raymond Pratt, Chainman.
J. Cecil Clark, Moundman.
Raymond Pratt, Moundman.
James G. Houston, Axman.
, Axman.
James T. Clark, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John T. Clark, Compassman for William Sewman, deceased, United States Deputy Surveyor, in surveying all ose parts or portions of the Subdivisions of Township 37 South Range 11 West

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

J. Cecil Clark, Chainman.
Raymond Pratt, Chainman.
J. Cecil Clark, Moundman.
Raymond Pratt, Moundman.
James G. Houston, Axman.
, Axman.
James L. Clark, Flagman.

bscribed and sworn to before me this 28 day of August A.D., 1905

My Commission Expires Feby 15th 1906

SEAL

Wm P. Sargent, Notary Public
Garfield County Utah

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John H. Clark Companion for Wm. Lewman, deceased, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for Utah, bearing date of the 23 day of January, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisions of Township 37 South Range 11 West of the Salt Lake base and meridian, in the State of Utah, 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John H. Clark
Companion for Wm. Lewman, deceased. United States Deputy Surveyor.

Subscribed by said John H. Clark, and sworn to before me this 29 day of August, 1905

Geo B Hancock
Clerk of Court

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 1906

The foregoing field notes of the survey of the subdivisions of Township 37 South Range 11 West of the Salt Lake Base and Meridian, Utah

executed by John H. Clark, Companion for William Lewman, deceased under his contract No. 225, dated January 23, 1899, 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 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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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John H. Clark, Compassman for William Gowman, deceased, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the correction survey of the subdivisions of Township 37 South of Range 11 West Salt Lake meridian & Base showing the respective capacities in which they acted:

Sam Clark, Chainman.
James T. Daly, Chainman.
Sam Clark, Moundman.
James T. Daly, Moundman.
Alphueus E. Hartley, Axman.
, Axman.
Ernest L. Hancock, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John H. Clark, Compassman for William Gowman, deceased, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Townships 37 South of Range 11 West of the Salt Lake base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Sam Clark, Chainman.
James T. Daly, Chainman.
Sam Clark, Moundman.
James T. Daly, Moundman.
Alphueus E. Hartley, Axman.
, Axman.
Ernest L. Hancock, Flagman.

Subscribed and sworn to before me this 12 day of September, 1908.

H. T. Dobson
Clerk, Dist. Court.

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John H Clark Compassman for William Sowman, deceased United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B Blair United States Surveyor General for Utah, bearing date of the 23 day of January, 1889, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisions of Township Thirty Seven South of Range Eleven West

of the Salt Lake base and meridian, in the State of Utah, 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John H Clark, Compassman for William Sowman, deceased.
United States Deputy Surveyor.

Subscribed by said John H. Clark and sworn to before me this 12 day of September, 1908.

W. T. Dobson
Clerk, Dist. Court.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 190

The foregoing field notes of the survey of

executed by

under his contract No. , dated , 190 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

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

United States Surveyor General.

6—151

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John H. Clark, Compassman for William Newman, deceased, 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 subdivisions Township 37 South of Range 11 West, Salt Lake Base + Meridian showing the respective capacities in which they acted:

John H. Clark, Chainman.
William Orie, Chainman.
William Orie, Moundman.
Moundman.
Axman.
Axman.
William Orie, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John H. Clark, Compassman for William Newman, deceased, United States Deputy Surveyor, in surveying all those parts or portions of the subdivisions of Tp. 37 South of Range 11 West

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

William Orie, Chainman.
John H. Clark, Chainman.
William Orie, Moundman.
Moundman.
Axman.
Axman.
William Orie, Flagman.

Subscribed and sworn to before me this 7 day of April, 1910

SEAL

Fullen S. Broadhurst
Clerk of Court
6th Jud. Dist.

151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I John H. Clark Compassman for William Lewman, deceased United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from Jack B. Blair United States Surveyor General for Utah, bearing date of 23 day of January, 1899, 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 Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the subdivisions of Township 37 South of Range 11 West of the Salt Lake base and meridian, in the State of Utah, 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 Utah and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

John H. Clark Compassman for William Lewman, deceased
United States Deputy Surve

Subscribed by said John H. Clark, and sworn to before me this 7 day of April, 1910

Tuller H. Broadbent
Clerk of Court
6th Jud. Dist.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 20, 1912

The foregoing field notes of the survey of the Subdivisional lines of Township 37 South, Range 11 West of the Salt Lake Base and Meridian, Utah,

executed by John H. Clark, Compassman for William Lewman, deceased under his contract No. 225, dated January 23, 1899, ~~19~~, having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Hill
United States Surveyor Gene

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

United States Surveyor Gene

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N.3.B
M.S.B 8

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BOOK A-366

H.

FIELD NOTES

OF THE SURVEY OF THE

M.S.B.

South, West and North Boundaries

of

Township 42 South

Range 7 West

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

deceased

n H. Clark, Compassman for William Lewman, *United States Deputy Surveyor,*

nder his Contract No. 225, *dated* January 23, 1899, *190*.

rvey commenced November 22, *190* 4.

rvey completed June 6, *190* 7.

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S. Bdy high 5-75-37
W. Bdy " 5-46-68 low 30-00
N. Bdy " 5-78-12

BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

1904:

S.R.Pratt,	Chainman.
Samuel Clark.	Chainman.
Othello Roundy	Moundman.
George Lemons,	Flagman.

1907:

Sam Clark,	Chainman,
James T.Daly,	Chainman.
Sam Clark,	Moundman,
Alphues E.Hartley,	Axeman.
Ernest L.Hancock,	Flagman.

BOOK A-366

INDEX DIAGRAM.

Township 4 = South *Range* 7 West

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Pg 1

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PRELIMINARY OATHS OF ASSISTANTS.

WE, S. R. Pratt and Samuel Clark
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
the South, West and North Boundaries of T 42 S. R. 7 W. S. L.
M. Utah.

S. R. Pratt, Chainm
Samuel Clark, Chainm

Subscribed and sworn to before me this 16
day of November, 1904

Geo B Hancock
Co. Clerk

SEAL

~~WE~~, I, Othello Roundy ~~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 ~~me~~ to the best of ~~our~~ my skill and ability, in the surve
the South, West, and North Boundaries of T 42 S. R. 7 W. S.
M. Utah.

Othello Roundy, Moundm
, Moundm

Subscribed and sworn to before me this 16
day of November, 1904

Geo B Hancock
Co. Clerk

SEAL

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

, Axm
, Axm

Subscribed and sworn to before me this
day of , 190

SEAL

I, George Lemons, 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
survey of the South, West, and North Boundaries of T 42 S R 7 W. S. L.
M. Utah.

George Lemons, Flagm

Subscribed and sworn to before me this 16
day of November, 1904

Geo B Hancock
Co. Clerk

SEAL

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BOOK A-366

INDEX DIAGRAM.

Township 42 S, *Range* 7 W

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Meanders Page

BOOK A-366

PRELIMINARY OATHS OF ASSISTANTS.

WE, Sam Clark and James T. Daly 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 corrective survey of the South and West Boundaries of Township 42 South Range 7 West of Salt Lake Meridian & Base

Sam Clark, Chainman.

James T. Daly, Chainman.

Subscribed and sworn to before me this 5 day of June, 1907

SEAL

John H. Clark, Compassman for William Lewman, deceased, U. S. Deputy Surveyor.

WE, Sam Clark and James T. Daly 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 corrective survey of the South and West Boundaries of Township 42 South of Range 7 W. Salt Lake Meridian and Base.

Sam Clark, Moundman.

James T. Daly, Moundman.

Subscribed and sworn to before me this 5 day of June, 1907

SEAL

John H. Clark, Compassman for William Lewman, deceased, U. S. Deputy Surveyor.

~~WE~~, Alphues E. Hartley ~~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 corrective survey of the South and West Boundaries of Township 42 South of Range 7 West, Salt Lake Meridian and Base.

Alphues E. Hartley, Axman.

, Axman.

Subscribed and sworn to before me this 5 day of June, 1907

SEAL

John H. Clark, Compassman for William Lewman, deceased, U. S. Deputy Surveyor.

I, Ernest L. Hancock, 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 corrective survey of the South and West Boundaries of Township 42 South of Range 7 West Salt Lake Meridian and Base

Ernest L. Hancock, Flagman.

Subscribed and sworn to before me this 5 day of June, 1907

SEAL

John H. Clark, Compassman for William Lewman, deceased, U. S. Deputy Surveyor.

6—151

South Boundary T. 42 S., R. 7 W.

Survey commenced June 5, 1907, and executed with a Young and Sons light mountain transit No.7826, with solar attachment; the horizontal limb is provided with two double verniers, placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah, May 29, 1907.

I begin at the cor.of Tps.42 and 43 S.,Rs.6 and 7 W., which is a cedar post 4 ins.sq., 24 ins.above ground, firmly set and marked and witnessed as described by the surveyor general; latitude 37° 07'N.; long.112° 33'W. I examine the adjustments of the transit; then in order to test the solar apparatus by comparing the indications resulting from observations on the sun made during p.m.and a.m.hours, with a true meridian determined by observations on Polaris, I proceed as follows:-

At 3 h. 58 m.p.m.l.m.t.I set off 37° 07'N. on the lat. arc; 22° 31'N.on the decl.arc; and determine a meridian with the solar and mark a point thereof by a tack driven in a peg firmly set in the ground 5 chs.N.of the corner, which is my station.

At 8 h. 20 m.p.m.l.m.t.I observe Polaris and mark the direction thus determined by a tack driven in a stake firmly set 5 chs.N.of my station above described.

Astron.time of obs.		8 h. 20 m.
Equivalent of June 4,		32 h. 20 m.
U.C.Pol.June 1,	20 h.46.0 m.	
Red.June 4	11.8 m.	
U.C.Pol.June 4	20 h.34.2 m.	20h. 34.2 m.

Hour angle of Pol. and time arg.11 h. 45.8 m.

South Boundary T. 42 S., R. 7 W.

Chains.	
	Azimuth of Polaris, 4' W. June 5, 1907.
	June 6: At 7 h. a.m.l.m.t.I lay off the azimuth of Polaris 4' to the east, and mark the true meridian thus obtained by a tack driven in the stake firmly set 5 chs.N.of my station. This mark falls .06 ins.west of the mark determined yesterday p.m.by solar observation; the magnetic bearing of said true meridian is north 15° 26'west, which gives the variation as 15° 26'E. At 7 h. 58 m.a.m.l.m.t.I set off 37° 07'N.on the lat. arc; 22° 35.5' N.on the decl.arc; and determine a meridian with the solar, and mark a point in the same by a tack driven in a peg, firmly set in the ground 5 chs.N.of my station. This mark falls .04 ins.west of the meridian established by Polaris observation. The solar apparatus by p.m.and a.m.observations defines positions for meridians about 31" E. and 21" W.of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.
	From the Tp.cor.already described, I run West bet.secs.1 and 36, Ascending gradually through dense brush.
10.00	Enter scattering cedars.
17.50	E.edge of dry wash, drains SE. Descend abruptly.
26.00	West edge of wash; ascend gradually.
33.00	Edge of small hollow, course N. and S. at this point. Descend gradually.
35.	

South Boundary T. 42 S., R. 7 W.

Chains.

35.00 Bottom of hollow and small wash 3 ft.deep, 15 lks.wide, drains S. Cattle trail in bottom, bears N. and S.

35.10 Ascend gradually along S.side of hollow, drains E.then S.

40.00 Set a sandstone 24 x 10 x 5 ins., 18 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; from which

A cedar 8 ins.dia., bears S.70° E. 14.5 lks.dist. marked ¼ S 1 B T

No other trees available to mark; dig pits 18 x 18 x 12 ins.E.and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

73.50 Top of ridge, bears NE. Descend.

78.50 Ascend gradually along N.slope of hill.

80.00 Set a sandstone 24 x 6 x 5 ins., 18 ins.in the ground, for cor.of secs.1.2.35, and 36, marked with 1 notch on E. and 5 notches on W.edge; from which

A cedar 14 ins.dia.bears S.75° E. 353 lks.dist. mkd.T 43 S R 7 W S 1 B T

A cedar, 10 ins.dia., bears S.40° W. 145 lks.dist. mkd.T 43 S R 7 W S 2 B T

A cedar 11 ins.dia.bears N.50° W. 132 lks.dist. mkd.T 42 S R 7 W S 35 B T

No other trees available to mark; 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, but broken.

Soil, deep sand; 4th rate.

Timber, scattering cedar on 70.00 chs.

Undergrowth, rabbit, sage, and creosote brush, and mountain rush.

Land, covered with dense undergrowth 80.00 chs.

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

South Boundary T. 42 S., R. 7 W.

Chains.	
	Ascending gradually through heavy brush.
10.00	Enter very heavy brush.
15.00	Brush becomes less dense.
27.40	Top of ridge, on point of hill, bears NE. and S.
40.00	Set a cedar post, 3 ft.long, 3 ins.sq., with charred stake 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 35 on the N.face, 2 on S.face; from which
	A cedar, 10 ins.dia., bears S.60° E. 105 lks.dist. mkd.¼ S 2 B T
	A cedar 8 ins.dia., bears N.51° E. 110 lks.dist., mkd.¼ S 35 B T
78.00	Descend very gradually; through thick brush.
80.00	Set a sandstone 20 x 10 x 4 ins., 15 ins.in the ground for cor.of secs.2.3.34, and 35, mkd.with 2 notches on E. and 4 notches on W.edge; from which
	A cedar 4 ins.dia.bears N.63° W. 106 lks.dist.mkd. T 42 S R 7 W S 34 B T
	A cedar, 20 ins.dia., bears N.40° E. 80 lks.dist. mkd.T 42 S R 7 W S 35 B T
	No other trees available to mark; raise a mound of stone 3 ft.base, 1½ ft.high W.of cor.
	Land, level and rolling.
	Soil, sand; 4th rate.
	Timber, scattering cedar.
	Undergrowth, sage and rabbit brush, mountain rush, scrub oak, and cane.
	Land, covered with dense undergrowth 80.00 chs.

West on a true line bet.secs.3 and 34,

	Desc.gradually,through dense brush and scattering timber.
17.74	Taylor Crosby's pasture fence, bears NE. and SW.
19.28	Small dry wash, 5 ft.deep, 10 lks.wide, drains N.
40.00	Set a sandstone 24 x 8 x 4 ins., 18 ins.in the ground,

South Boundary T. 42 S., R. 7 W.

Chains.

for ¼ sec.cor., mkd.¼ on N.face; from which

A cedar 11 ins.dia.bears N.55° W. 92 lks.dist.mkd. ¼ S 27 B T

No other bearing trees within limits; dig pits 18 x 18 x 12 ins.E.and W.of stone, 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

47.00 Road to Cottonwood from Kanab, bears NW. and SE.

Ascend gradually.

67.00 Top of small ridge, bears N. and S.; Thence over gently rolling country; through brush and scattering timber.

80.00 Set a cedar post 4 ft.long, 6 ins.sq., with charred stake, 36 ins.in the ground, for cor.of secs.3.4.33, and 34, mkd.

T 42 S S 34 on NE.

R 7 W S 3 on SE.,

T 43 S S 4 on SW., and

S 33 on NW.faces; with 3 notches on the E. and W.edges; from which

A cedar, 12 ins.dia., bears S.46° E. 85 lks.dist. mkd.T 43 S R 7 W S 3 B T

A cedar 5 ins.diam.bears N.56° E. 164 lks.dist., mkd.T 42 S R 7 W S 34 B T

No other bearing trees available; 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 and level.

Soil, sand; 4th rate.

Timber, scattering cedar.

Undergrowth heavy sagebrush, creosote, mountain rush, and oose.

Land, covered with dense undergrowth 80.00 chs.

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

South Boundary T. 42 S., R. 7 W.

Chains. Over rolling country, through thick brush and scattering timber.

40.00 Set a sandstone 36 x 10 x 4 ins., 27 ins. in the ground, for ¼ sec. cor., mkd. ¼ on N. face; from which

A cedar 14 ins. dia., bears S. 35° W. 90 lks. dist. mkd. ¼ S 4 B T

No other bearing trees available to mark; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

52.00 Ascend gradually; through heavy brush and scattering timber.

80.00 Set a cedar post 4 ft. long, 5 ins. sq., 36 ins. in the ground, for cor. of secs. 4, 5, 32, and 33, mkd.

T 42 S S 33 on NE.
R 7 W S 4 on SE.
T 43 S S 5 on SW., and
S 32 on NW. faces, with 4 notches on E. and 2 notches on the W. edges; from which

A cedar 12 ins. dia., bears S. 16° E. 64 lks. dist. mkd. T 43 S R 7 W S 4 B T

A cedar, 14 ins. dia., bears S. 15° W. 75 lks. dist. mkd. T 43 S R 7 W S 5 B T

A cedar, 10 ins. dia., bears N. 10° 15' E. 38 lks. dist., mkd. T 42 S R 7 W S 33 B T

A cedar, 13 ins. dia. bears N. 50° 30' W. 100 lks. dist. mkd. T 42 S R 7 W S 32 B T

Land, level and rolling.

Soil, sand; 4th rate.

Timber, scattering cedar and a few pinon pine.

Undergrowth, sagebrush, serviceberry, scrub oak, and mountain rush.

Land covered with dense undergrowth 80.00 chs.

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

South Boundary T. 42 S., R. 7 W.

Chains	
	Ascend gradually through dense brush and scattering timber.
12.00	Ascend abruptly; through heavy oak brush, bears N. and S.
37.50	Top of ridge, bears NW. and SE.
	Leave oak brush and descend.
40.00	Set a sandstone 22 x 12 x 3 ins., 16 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; from which
	A cedar 11 ins.dia., bears S.5° E. 78 lks.dist. mkd.¼ S 5 B T
	A cedar, 12 ins.dia., bears N.78° 45'W. 40 lks. dist., mkd.¼ S 32 B T
	June 6: At this point I set off 22° 36'N.on the decl. arc; and at 11 h. 58.5' a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 37° 07'N.
	Descend gradually through brush.
42.50	Bottom of small hollow, drains N.; ascend gradually.
56. 00	Enter heavy cedar, bears irregularly N. and S.
	Ascend somewhat abruptly.
60.00	Enter dense brush and scrub oak.
80.00	Set a cedar post 5 ft.long, 6 ins.sq., 48 ins.in the ground, for cor.of secs.5,6,31, and 32, mkd.
	T 42 S S 32 on NE.
	R 7 W S 31 on NW.
	T 43 S S 5 on SE., and
	S 6 on SW.faces, with 5 notches on the E. and 1 notch on the W.edges; from which
	A cedar, 10 ins.dia., bears N.83° E. 85 lks.dist. mkd.T 42 S R 7 W S 32 B T
	A pinon pine 8 ins.dia., bears S.53° W. 98 lks. dist., mkd.T 43 S R 7 W S 6 B T
	A pinon pine, 9 ins.dia., bears S.60° 20'E. 80 lks.dist., mkd.T 43 S R 7 W S 5 B T
	No other bearing trees available to mark; dig pits 18

South Boundary T. 42 S., R. 7 W.

Chains.	
	x 18 x 12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 3 ft.high.W.of cor.
	Land, rolling to hilly.
	Soil, sand; 4th rate.
	Timber, cedar and pinon pine.
	Undergrowth dense sage, and rabbit brush, service-berry and scrub oak.
	Land covered with dense undergrowth 80.00 chs.
	West on a true line bet.secs.6 and 31,
	Ascending through dense brush and heavy timber.
8.00	Leave timber, bears N. and S.
13.50	Top of hill, bears N. and S., 400 ft.high.
17.50	Descend abruptly.
24.00	Bottom of small gulch, drains NW.
25.00	Ascend abruptly.
28.50	Top of ridge, bears NW. and S.
	Descend gradually.
32.50	Enter scattering cedar, bears N. and S.
	Descend abruptly.
38.20	Descend very abruptly over sandstone ledge, bears NE. and SW.
40.00	Point for ¼ sec.cor.falls on ledge,
	Cut a cross(X) at exact point for ¼ sec.cor. and S.of cross 3 ft.dist. mkd.T 43S R 7 W ¼ S 6 B O ; N.of cross 2 ft.dist. nkd.T 42 S R 7 W ¼ S 31 B O.
40.40	Set a sandstone 24 x 8 x 4 ins., 18 ins.in the ground, for witness corner to ¼ sec.cor., mkd.W C ¼ S on N. face; from which.
	A pinon pine 9 ins.dia., bears S.40° E. 100 lks. dist., mkd.W C T 43 S R 7 W ¼ S 6 B T
	No other trees available to mark; dig pits 18 x 18 x 12 ins.E. and W.of stone 3 ft.dist.; and raise a mound

South Boundary T. 42 S., R. 7 W.

Chains.	
	of earth 3½ ft.base, 1½ ft.high N.of cor.
45.00	Bottom of hollow, drains S.
46.20	Road to Moccasin from Kanab, bears N. and S.
46.50	Ascend gradually, through brush.
55.00	Enter heavy timber; ascend abruptly.
58.00	Top of hill, bears N. and S.
60.40	Descend very abruptly over hill into Yellow Jacket Canyon, drains S.
65.00	Leave timber and brush, bears N. and S.
71.00	East edge of small dry wash, 5 ft.deep, 13 lks.wide, course NE.
72.30	Road to St.George from Kanab, bears N.25° E. and S.
73.40	Road to Yellow Jacket Spring, bears N.30° E. and SW.
	These roads meet several chs.N.of the line.
77.50	Foot of ridge, bears N.24° W. and S.24° E.
	Ascend abruptly.
78.37	Allowing for convergency of meridian at this point,
	Set a sandstone 24 x 8 x 8 ins. 18 ins.in the ground, for cor.of Tps.42 and 43 S., Rs.7 and 8 W. mkd.6 notches on each edge; from which
	A cedar 9 ins.dia., bears S.39° 50'E. 398 lks.dist. mkd.T 43 S R 7 W S 6 B T
	A cedar 13 ins.dia., bears N.28° W. 80 lks.dist. mkd.T 42 S R 8 W S 36 B T
	A cedar 8 ins.dia., bears N.72° E. 310 lks.dist. mkd.T 42 S R 7 W S 31 B T
	No other trees available to mark; raise a mound of stone 2 ft.base, 1½ ft.high S.of cor. Pits impracticable.
	Land, hilly to rough and mountainous.
	Soil, sand with sandstone ledges; 4th rate.
	Timber, cedar and pinon.
	Undergrowth, sage and deer brush, scrub oak, and mountain rush.
	Mountainous land, or land heavily timbered, or covered

South Boundary T. 42 S., R. 7 W.

Chains. with dense undergrowth 78.37 chs.

June 6, 1907.

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

West Boundary T. 42 S., R. 7 W.

Chains	
	June 6, 1907 At 2 h. 58 m. p.m.l.m.t.I lay off 37°07' N.on the lat.arc; 22° 37'N.on the decl.arc, and determine a meridian with the solar at the cor.of Tps. 42 and 43 S., Rs.7 and 8 W., established by myself and heretofore described.
	Thence I run
	North bet.secs.31 and 36,
	Along slope of hill or ridge, bears N.24° W. and S.24° E.; through heavy brush.
5.00	Foot of hill, 75 ft.high; bears N.50° E. and S.50° W.
	Ascend very abruptly.
8.10	Top of ridge, bears N.50° E. and S.50° W.
	Ascend gradually; enter heavy pine and cedar, bears NE. and SW.
14.70	Top of hill, flat top, slopes to E.
	Leave timber.
24.50	Edge of gulch, 75 ft.deep, drains E.; enter heavy timber.
30.00	Bottom of gulch; ascend very abruptly.
36.00	N.edge of gulch and top of level ridge, bears E.
38.50	Descend along E.slope of hill, over small hollows, bears E.
	Leave heavy timber.
40.00	Set a limestone 24 x 7 x 6 ins., 18 ins.in the ground for $\frac{1}{4}$ sec.cor., mkd.$\frac{1}{4}$ on W.face; from which
	A pinon pine, 12 ins.dia., bears S.10° E. 50 lks. dist., mkd.$\frac{1}{4}$ S 31 B T
	No other tree available to mark; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.
47.00	Top of ridge, bears E. and W.
	Gradual slope to the E.
53.00	Descend gradually; enter heavy cedar and pine.
61.00	Descend abruptly.
62.50	Descend abruptly over sandstone ledges, bear S.80° E.

West Boundary T. 42 S., R. 7 W.

Chains.	
	and N.80° W. Leave timber.
65.20	Foot of ledge; descend abruptly.
67.00	Sandstone ledge, bears S.80° E. and N.80° W. Descend abruptly.
69.50	Foot of ledge and descend gradually into flat, bears NW. and SE. Leave hill.
80.00	Set a cedar post 4 ft.long, 5 ins.sq., with charred stake 36 ins.in the ground, for cor.of secs.25,30.31 and 36 marked T 42 S S 30 on NE. R 7 W S 31 on SE. R 8 W S 36 on SW., and S 25 on NW.faces; with 1 notch on the S. and 5 notches on the N.edges; dig pits 18 x 18 x 12 ins. in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land, mountainous to level.
	Soil sand and gravel with sandstone ledges on the hills; clay and sand in the flat; 4th and 2d rates.
	Timber, cedar and pine.
	Undergrowth sage, deer, and rabbit brush, mountain rush and scrub oak.
	Mountainous land 69.50 chs.; heavily timbered 30.40 chs.; covered with dense undergrowth 80.00 chs.

North bet.secs.25 and 30,

	Over level land; through dense brush.
5.25	Road to Moccasin and St.George, from Kanab, bears S. 32° E. and N.32° W.
17.00	Ascend gradually; through brush.
22.00	Enter scattering timber and heavy brush, bears E. and W.
31.00	Top of sand ridge sloping W., bears E. and W.

West Boundary T. 42 S., R. 7 W.

Chains.	
39.50	Foot of ridge.
40.00	Set a sandstone 18 x 10 x 5 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.$\frac{1}{4}$ on W.face; from which A cedar, 9 ins.dia., bears S.30° W. 85 lks.dist. mkd.$\frac{1}{4}$ S 25 B T A cedar, 18 ins.dia., bears N.85° E. 100 lks.dist. mkd.$\frac{1}{4}$ S 30 B T
44.00	Ascend gradually along W.slope of small peak.
54.00	Top of ridge, bears E. and W. Leave timber and descend gradually.
55.50	Descend abruptly.
60.00	Foot of hill, bears NE. and SW. Descend gradually.
80.00	Set a cedar post 3 ft.long, 5 ins.sq., with mkd.stone, 24 ins.in the ground, for cor.of secs.19,24,25, and 30, mkd. T 42 S S 19 on NE. R 7 W S 30 on SE. R 8 W S 25 on SW., and S 24 on NW.faces, with 2 notches on the S. and 4 notches on the N.edges; from which A cedar, 8 ins.dia., bears N.69° E. 116 lks.dist. mkd.T 42 S R 7 W S 19 B T A cedar, 13 ins.dia., bears N.55° W. 390 lks.dist. mkd.T 42 S R 8 W S 24 B T No other trees available to mark; dig pits 18 x 18 x 12 ins.in each sec.5$\frac{1}{2}$ ft.dist.; and raise a mound of of earth 4 ft.base, 2 ft.high W.of cor. Land, level to hilly. Soil, sandy clay in valleys; sand with sandstone outcrops on hills; 2d and 4th rates. Timber, cedar, and a few long leaf pine. Undergrowth, sage, rabbit, scrub oak, and mountain rush.

West Boundary T. 42 S., R. 7 W.

Chains.	
	Land, covered with dense undergrowth 80.00 chs.

North bet.secs.19 and 24,

Over rolling country; through heavy brush.

40.00 Set a cedar post 3 ft.long.4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 24 on W., 19 on E. face; from which

A cedar 5 ins.dia., bears S.14° E. 57 lks.dist. mkd.¼ S 19 B T

A cedar 18 ins.dia., bears S.73° W. 152 lks.dist. mkd.¼ S 24 B T

Descend gradually into small basin.

48.00 Bottom of basin; ascend gradually.

53.00 Top of sand ridge, bears N.80° E. and S.80° W.

Descend gradually.

80.00 Intersect cedar post 48 x 4 x 4 ins., with mkd.stone, set 36 ins.in the ground, for cor.of secs.13,18,19 and 24, mkd.

T 42 S S 18 on NE.

R 7 W S 19 on SE.,

R 8 W S 24 on SW., and

S 13 on NW.faces; with 3 notches on the N. and S. edges; with pits 18 x 18 x 12 ins.in each section 5½ ft.dist.; and mound of earth 4 ft.base, 2 ft.high W. of cor., as set by me on Nov.22, 1904.

Land, level and rolling.

Soil, sand; 4th rate.

Timber, none.

Undergrowth, heavy sagebrush, rabbit brush, bitter-bush, Brigham-tea, and scrub oak.

Land covered with dense undergrowth 80.00 chs.

June 6, 1907.

West Boundary T. 42 S., R. 7 W.

Chains	
	Nov.22, 1904: At 3 h. 46 m.p.m.l.m.t.I set off 37° 09' N.on lat.arc; 20° 09'S.on decl.arc; and determine a meridian with the solar at the cor.of secs.13,18,19, and 24. Thence I run
	North bet.secs.13 and 18,
	Descend gradually; through dense brush.
30.00	Leave brush; S.edge of small reservoir, used for watering sheep; now dry.
40.00	Set a sandstone 20 x 12 x 5 ins., 15 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; dig pits 18 x 18 x 12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
60.00	Enter dense brush, bears SW. and SE.
70.00	Road to Yellow Jacket, Moccasin, and St.George, from Kanab, bears N.for 2 chs.,and S.30°.W.
72.00	Leave road, bears N.40° E. and S.
80.00	Set a sandstone 20 x 9 x 5 ins., 15 ins.in the ground for cor.of secs.7,12,13, and18, mkd.with 4 notches on S. and 2 notches on N.edges; 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 clay and sand; 2d. and 4th rates.
	No timber.
	Undergrowth sage and rabbit brush, oose, scrub oak, and mountain rush.
	Land covered with dense undergrowth 50.00 chs.
	Nov.22, 1904.
	Nov.23, 1904. This a.m.sky overcast, observation on the sun impossible.
	North bet.secs.7 and 12,
	Over nearly level ground; through dense brush.

West Boundary T. 42 S., R. 7 W.

Chains.	
5.00	Road to Yellow Jacket, Moccasin, and St.George, from Kanab, bears N.80° E.and S.80° W.
40.00	Set an oak post 4 ft.long, 4 ins.sq., with mkd.stone, 36 ins.in the ground, for ¼ sec.cor., mkd.¼ S 12 on W., 7 on E.face; 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 gradually.
70.00	Top of small ridge, bears E. and W.
75.00	Descend gradually.
80.00	Set a sandstone 20 x 12 x 5 ins., 15 ins.in the ground for cor.of secs.1,6,7, and 12, mkd.with 5 notches on the S. and 1 notch on the N.edges; from which
	A cedar, 9 ins.dia., bears S.80° W. 55 lks.dist. mkd.T 42 S R 8 W S 12 B T
	No other trees available to mark; 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 to hilly.
	Soil, sand; 4th rate.
	Timber, scattering cedar.
	Undergrowth dense sage, rabbit, oose, old man, and mountain rush.
	Land covered with dense undergrowth 80.00 chs.
	Nov.23: At this cor.I set off 20° 22'S.on the decl.arc; and at 11 h. 46 m.a.m.l.m.t.observe the sun on the meridian ;the resulting lat.is 37° 11' N

North bet.secs.1 and 6,

	Descending gradually; through dense brush.
.60	Edge of dry wash, 50 ft.deep, 5.00 chs.wide, drains W.
	Enter heavy timber, bears E. and W.

West Boundary T. 42 S., R. 7 W.

Chains.	
5.70	Edge of dry wash 30 ft.deep, 2.50 chs.wide, drains SW.
8.20	N.edge of wash and foot of ledges, bear E. and W.
9.10	Top of ledge; ascend abruptly over other small ledges bear E. and W.
17.00	Top of rocky ridge, bears E. and W., comes from main hill on the W.
17.50	Descend into gulch 200 ft.deep.
32.00	Bottom of gulch drains W., then NW.
32.20	Ascend very abruptly.
39.50	N.side of gulch.
40.00	Set a gray granite stone 24 x 10 x 4 ins., 18 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; from which A pinon pine, 10 ins.dia., bears N.30° W. 60 lks. dist., mkd.¼ S 1 B T A pinon pine, 14 ins.dia., bears S.65° 15'E. 50 lks.dist., mkd.¼ S 6 B T Descend gradually.
66.00	Descend abruptly.
67.00	Bottom of a branch gulch, course N.80° W.
68.20	Ascend abruptly.
70.00	Small ledge, bears N.80° W. and S.80° E. then turns NE.
71.00	Top of ridge, bears E. and W. Descend gradually.
76.95	Which is a distance equal to the length of the E.bdy. Set a temporary cor.of Tps.41 and 42 S., Rs.7 and 8 W. Note: Permanent corner afterwards set at 76.68 chs., for description of which see notes of N.bdy.this book.

Land, rough and mountainous.

Soil, sandy with outcrops of sandstone, limestone, and granite of poor quality; 4th rate and worthless.

West Boundary T. 42 S., R. 7 W.

Chains.	Timber, cedar and pinon pine. Undergrowth, rabbit and deer brush, mountain rush, and scrub oak. Mountainous land, or land heavily timbered, or covered with dense undergrowth 76.68 chs.
	For general description see notes of the subdivision of this township.

North Boundary T. 42 S., R. 7 W.

Chains	
	Nov.23, 1904: At 2 h. 46 m. p.m.l.m.t.I set off 20° 23' S.on the decl.arc; 37° 12'N.on the lat.arc; and determine a meridian with the solar at the temporary cor.of Tps.41 and 42 S., Rs.7 and 8 W. set by myself and heretofore described.
	Thence I run
	East on a random line along the N.bdy.of T.42 S., R.7 W., setting temp. ¼ sec.and sec.cors.at intervals of 40.00 chs., and at 478.12 chs.intersect the E.bdy.of the Tp. 27 lks.N.of the cor.of Tps.41 and 42 S., Rs. 6 and 7 W., which is a cedar post 3 ft.long, 4 ins. sq., firmly set, and mkd. and witnessed as described by the surveyor general.
	Nov.23, 1904.
	Nov.26: At 9 h. 47 m.a.m.l.m.t.I set off 37° 12'N.on the lat.arc; 20° 55'S.on the decl.arc; and determine a meridian with the solar at the cor.of Tps.41 and 42 S., Rs.6 and 7 W.
	Thence I run
	West on a true line bet.secs.1 and 36,
	Along S.slope of mountain, through heavy timber and dense brush.
10.00	Ascend abruptly.
15.00	Top of ridge, bears N. and S. Descend.
30.70	Top of ridge bears N . and S. Descend gradually.
37.00	Ascend abruptly.
40.00	Set a sandstone 24 x 13 x 13 ins., 18 ins.in the ground for ¼ sec.cor., mkd.¼ on N.face; from which
	A pinon pine, 12 ins.dia., bears S.35° 45'W. 49½ lks.dist., mkd.¼ S 1 B T
	A pinon pine, 8 ins.dia., bears N.45° 50'W. 94 lks.dist., mkd.¼ S 36 B T

North Boundary T. 42 S., R. 7 W.

Chains.	
40.50	Ascend abruptly.
41.24	Top of ridge, bears N. and S.; descend abruptly down cliffs, 300 ft.high, into canyon.
44.74	Bottom of canyon, 300 ft.deep, drains S.
48.24	West side of canyon.
58.00	Gulch 200 ft.deep, drains S.
67.47	W.side of gulch.
77.77	Gulch, 200 ft.deep, drains N.; leave heavy timber and brush.
80.00	Set a sandstone 20 x 12 x 4 ins., 15 ins.in ground, for cor.of secs.1,2,35, and 36, mkd. with 1 notch on the E. and 5 notches on the W.edges; from which A pinon pine, 18 ins.dia., bears N.70° E. 49.5 lks. dist., mkd. T 41 S R 7 W S 36 B T A pinon pine, 14 ins.dia., bears S.80° E. 42 lks. dist., mkd. T 42 S R 7 W S 1 B T No other trees available to mark; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Pits impracticable. Land, rough and mountainous. Soil, sand with sandstone cliffs; 4th rate and worthless. Timber, cedar and pinon pine. Undergrowth sage, and rabbit brush, mountain rush and scrub oak. Mountainous land 80.00 chs.

West bet.secs.2 and 35,

	Ascend abruptly through brush.
8.80	East side of gulch; enter heavy cedar and pinon pine.
16.40	Gulch, 200 ft.deep, drains S.
20.30	West side of same gulch.
40.00	Set a sandstone 18 x 10 x 4 ins., 12 ins.in the ground

North Boundary T. 42 S., R. 7 W.

Chains.	
	for ¼ sec.cor., mkd.¼ on N.face; from which
	A pinon pine, 18 ins.dia., bears N.14° 40'E. 25.5 lks.dist., mkd.¼ S 35 B T
	A pinon pine, 18 ins.dia., bears S.62° 10'W. 12.5 lks.dist., mkd.¼ S 2 B T
62.59	Descend abruptly into gulch, course SE, 200 ft.deep.
65.60	West side of gulch; ascend gradually.
76.80	Top of ridge, bears N. and S. Descend.
80.00	Set a sandstone 18 x 14 x 4 ins., 12 ins.in the ground for cor.of secs.2,3,34, and 35, mkd.with 2 notches on the E. and 4 notches on the W.edges; from which
	A cedar 10 ins.dia., bears N.78° 30'W. 23.5 lks. dist., mkd. T 41 S R 7 W S 34 B T
	A cedar, 8 ins.dia., bears N.78° E. 2 lks.dist. mkd.T 41 S R 7 W S 35 B T
	A pinon pine, 5 ins.dia., bears S.35° W. 20 lks. dist., mkd. T 42 S R 7 W S 3 B T
	A cedar, 14 ins.dia., bears S.56° 34'E. 80 lks.dist. mkd. T 42 S R 7 W S 2 B T
	Land, very rough and mountainous.
	Soil, sand with sandstone ledges; 4th rate and worthless.
	Timber, cedar and pinon pine.
	Undergrowth, sage and deer brush, scrub oak, and Brigham tea.
	Mountainous land 80.00 chs.

West bet.secs.3 and 34,

	Through heavy cedar, pinon pine, and brush; ascend.
12.42	Top of bench, bears N. and S.; then NE. and SE.
14.00	Leave timber, bears N. and S.
40.00	Set a sandstone 20 x 14 x 3 ins., 15 ins.in the ground for ¼ sec.cor., mkd.¼ on N.face; from which
	A cedar, 12 ins.dia., bears N.62° 35'W. 139 lks.

North Boundary T. 42 S., R. 7 W.

Chains	
	dist., mkd. $\frac{1}{4}$ S 34 B T
	No other trees available to mark; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits impracticable.
53.30	Foot of mountain, about 400 ft.high, bears N. and S.
65.60	Top of mountain, bears N. and S.; heavy timber.
78.00	Descend very abruptly; leave timber bears N. and S.
80.00	The point for sec.cor.falls on a ledge; cannot set cor.
	Land, rough and mountainous.
	Soil, sand with sandstone ledges; 4th rate and worthless.
	Timber, cedar and pinon pine; heavy on 26.40 chs.
	Brush, sage and rabbit brush, scrub oak, and mountain rush; dense on 78.00 chs.
	Mountainous land 80.00 chs.
	Sky overcast at noon hour obs.for lat.impossible.
	West bet.secs.4 and 33,
	Through brush.
7.55	Enter dense brush.
	Set a sandstone 36 x 12 x 5 ins., 27 ins.in the ground for witness cor. to cor.of secs.3,4,33, and 34, mkd. W C on NE.face; with 3 notches on the E. and W.edges; from which
	A pinon pine; 10 ins.dia., bears N.52° W. $72\frac{1}{2}$ lks. dist., mkd.W C T 41 S R 7 W S 33 B T
	No other trees available to mark; dig pits 18 x 18 x 12 ins.in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, $1\frac{1}{2}$ ft.high W.of cor.
40.00	Set a sandstone 18 x 12 x 3 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N.face; dig pits 18 x 18 x 12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.
55.50	Descend abruptly into gulch, drains N.85° W.

North Boundary T. 42 S., R. 7 W.

Chains	
	Leave dense brush.
80.00	Set a cedar post 36 x 4 x 4 ins., 24 ins.in the ground for cor.of secs.4,5,32, and 33, mkd.
	T 41 S S 33 on NE.
	R 7 W S 4 on SE.,
	T 42 S S 5 on SW., and
	S 32 on NW.faces; with 4 notches on the E. and 2 notches on the W.edges; from which
	A cedar, 12 ins.dia., bears N.51° 30'E. 92 lks. dist., mkd.T 41 S R 7 W S 33 B T
	A cedar 10 ins.dia., bears S.50° 40'E. 69 lks. dist., mkd.T 42 S R 7 W S 4 B T
	A cedar, 18 ins.dia., bears N.68° 30'W. 142 lks. dist., mkd.T 41 S R 7 W S 32 B T
	A cedar 18 ins.dia., bears S.56° 25'W. 122 lks. dist., mkd. T 42 S R 7 W S 5 B T
	Land, rough to rolling.
	Soil, sand, with sandstone ledges; 4th rate and worthless.
	Timber, cedar and pinon pine.
	Undergrowth, sage and rabbit brush, mountain mush, and scrub oak.
	Mountainous land, or land covered with dense undergrowth 80.00 chs.

West bet.secs.5 and 32,

	Along gulch.
2.26	Leave gulch, drains N.85° W.;enter dense brush, bears N. and S. Thence over rolling country.
40.00	Set a sandstone 20 x 9 x 5 ins., 15 ins.in the ground, for ¼ sec.cor., mkd.¼ on N.face; from which
	A cedar, 16 ins.dia., bears S.61° 45'E. 22 lks. dist., mkd.¼ S 5 B T

North Boundary T. 42 S., R. 7 W.

Chains.	
	A cedar, 16 ins.dia., bears N.20° W. 13 lks.dist. mkd.¼ S 32 B T
47.00	Road to Long Valley and Kanab, bears N.20° W. and S.20° E.
52.10	Road to Long Valley and Kanab, bears N.35°W.and S.35°E.
64.00	Road to Moccasin Springs and St.George, bears N. and S.
64.50	Descend.
67.00	Ascend abruptly.
78.50	Top of ridge, bears N.30° W. and S.30° E.
79.50	Descend abruptly.
80.00	Set a limestone 20 x 7 x 4 ins., 15 ins.in the ground for cor.of secs. 5,6,31, and 32, mkd.with 5 notches on the E. and 1 notch on the W.edges; from which
	A cedar, 12 ins.dia., bears N.47° 45'E. 60 lks. dist., mkd.T 41 S R 7 W S 32 B T
	A cedar 10 ins.dia., bears S.1° 15'W. 26 lks.dist. mkd.T 42 S R 7 W S 6 B T
	A cedar 8 ins.dia., bears S.80° 30'E. 91 lks.dist. mkd.T 42 S R 7 W S 5 B T
	A cedar 10 ins.dia., bears N.64° 25'W. 165 lks. dist., mkd.T 41 S R 7 W S 31 B T
	Land, fairly level to rough and mountainous.
	Soil, sand; 4th rate.
	Timber, cedar and pinon pine, scattering.
	Undergrowth, oak, sage and deer brush, and mountain rush.
	Mountainous land, or land covered with dense undergrowth 80.00 chs.

West bet.secs.6 and 31,

	Through dense brush and heavy timber.
6.50	Descend very abruptly for about 100 ft.

North Boundary T. 42 S., R. 7 W.

Chains.	
9.50	Bottom of gulch, drains N.
	Ascend abruptly.
15.00	Top of hill, about 200 ft.high, bears N. and S.
	Descend abruptly.
18.00	Ascend gradually.
29.00	Top of hill, about 400 ft.high, bears N. and S.
	Descend abruptly.
40.00	Set a sandstone 24 x 13 x 3 ins., 18 ins.in the ground for ¼ sec.cor., mkd.¼ on N.face; from which
	A pinon pine 18 ins.dia., bears N.40° W. 22 lks. dist., mkd. ¼ S 31 B T
	A cedar 13 ins.dia., bears S.45° W. 16 lks.dist. mkd.¼ S 6 B T
65.00	Bottom of hollow, drains N.; ascend abruptly.
75.00	Top of ridge, bears N. and S.
	Descend gradually.
78.12	Intersect W.bdy.of Tp. 27 lks.S.of the temp. cor.of Tps.41 and 42 S., Rs.7 and 8 W. set by myself, which I now destroy, and
	Set a granite stone 22 x 10 x 8 ins., 16 ins.in the ground, for cor.of Tps.41 and 42 S., Rs.7 and 8 W. mkd.with 6 notches on each edge; from which
	A pinon pine, 11 ins.dia., bears N.85° W. 46 lks. dist., mkd.T 41 S R 8 W S 36 B T
	A cedar 12 ins.dia., bears N.79° E. 65 lks.dist. mkd.T 41 S R 7 W S 31 B T
	A pinon pine 9 ins.dia., bears S.78° 07'W. 42 lks. dist., mkd.T 42 S R 8 W S 1 B T
	A cedar 11 ins.dia., bears S.33° 10'E. 134 lks. dist., mkd.T 42 S R 7 W S 6 B T
	Land, rough and mountainous.
	Soil, sand and gravel; 4th rate and worthless; with outcrops of sand and limestone of poor quality.

North Boundary T. 42 S., R. 7 W.

	Chains.	Timber, cedar and pinon pine. Undergrowth sage and rabbit brush, scrub oak, and mountain rush. Mountainous land, heavily timbered 78.12 chs. Nov.26, 1904.

BOUNDARIES OF T. 42 S., R. 7 W.

Latitudes, departures, and closing errors.

Line designated.	True Bearing.	Distance	Latitudes. N.	Latitudes. S.	Departures. E.	Departures. W.
bdy. T.42 S., R.7 W.	--West---	478.37	----------	----------	----------	478.37
bdy. T.42 S., R.7 W.	--North--	476.68	476.68	----------	----------	----------
bdy. T.42 S., R.7 W.	--East---	478.12	----------	----------	478.12	----------
bdy. T.42 S., R.7 W.	--South--	476.95	----------	476.95		
overgency	----------	----------	----------	----------	.55	----------
Totals			476.68	476.95	478.67	478.37
			----------	476.68	478.37	----------
Errors in lat.				0.27	0.30	Error in Dep.

For general description see notes of subdivision of this township.

John N. Clark
Compassman for
William Newman, D. S., Deceased.

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The preliminary oaths for Andrew Lamb as axeman I administer myself in order to save time and expense, there being no notary public or other officer authorized to administer oaths within a reasonable distance at the time of his employment.

John H Clark

Compassman for

William Lewman, D.S.(Deceased)

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There being no Notary Public or other public officer authorized to administer oaths, within a reasonable distance and as great delay and expense would be entailed in going before one I administer the preliminary oaths to the assistants in the survey of the South and West Boundaries of Township 42 South of Range 7 West.

John H. Clark

U. S. Deputy Surveyor.

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I, Andrew Lamb, do (124)
solemnly swear that I
will well and truly perform
the duties of axeman in the
establishment of Corners and
other duties, according to the
instructions given me,
to the best of my skill and
ability, in the survey of
the South, East and North
boundaries of Tp. 42 S R 2 W.
Salt Lake Base & Meridian, in the
State of Utah,

Andrew Lamb,
Axeman.

Subscribed and sworn to
before me this 18th day of November
1904

John H. Clark
Compassman for William Sherman
U.S. Deputy Surveyor,
Deceased.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John S. H. Clark Compassman for William Lewman (deceased), 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 South, West and North Boundaries of T42 S.R.7W. S.L.B.&M. Utah, showing the respective capacities in which they acted:

S. R. Pratt ..... Chainman.
Samuel Clark ..... Chainman.
Othello Roundy ..... Moundman.
..... Moundman.
Andrew Lamb ..... Axman.
..... Axman.
George Lemons ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John S. H. Clark Compassman for William Lewman (deceased), United States Deputy Surveyor, in surveying all the parts or portions of the South, West and North Boundaries of Tp. 42 S. R. 7 W.

..... of the Salt Lake 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 other monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

S R Pratt ..... Chainman.
Samuel Clark ..... Chainman.
Othello Roundy ..... Moundman.
..... Moundman.
Andrew Lamb ..... Axman.
..... Axman.
George Lemons ..... Flagman.

Described and sworn to before me this 10 day of July, 1905.

SEAL

Geo B Hancock
Co. Clerk & Clerk of District Court
Garfield Co. Utah.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John H. Clark Compassman for William Newman, deceased, United States Deputy Surveyor, solemnly swear that in pursuance of a contract received from Jacob B. Blair United States Surveyor General for Utah, bearing date of the 23rd day of January, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the South, West and North Boundaries of Township 4 2 South Range No. 7 West of the Salt Lake base and meridian, in the State of Utah, 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John H. Clark
Compassman for United States Deputy Surveyor
William Newman, Deceased

Subscribed by said John H. Clark, and sworn to before me this 10 day of July, 1905

Geo B Hancock
County Clerk & Clerk of District Court, Garfield County, Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 21, 190

The foregoing field notes of the survey of the South West & North Boundaries of Township 4 2 South Range 7 West, of the Salt Lake Base & Meridian, Utah

executed by John H. Clark Compassman for William Newman, deceased under his contract No. 225, dated January 23 1899, 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 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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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John H. Clark, Compassman for William Lowman, deceased, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the Corrective survey of the South and West Boundaries of Township 42 South of Range 7 West, Salt Lake Meridian showing the respective capacities in which they acted:

Sam Clark, *Chainman.*
James T. Daly, *Chainman.*
Sam Clark, *Moundman.*
James T. Daly, *Moundman.*
Alphaeus E. Hartley, *Axman.*
, *Axman.*
Ernest L. Hancock, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John H. Clark, Compassman for William Lowman, deceased, United States Deputy Surveyor, in surveying all those parts or portions of the South and West Boundaries of Township 42 South of Range 7 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

Sam Clark, *Chainman.*
James T. Daly, *Chainman.*
Sam Clark, *Moundman.*
James T. Daly, *Moundman.*
Alphaeus E. Hartley, *Axman.*
, *Axman.*
Ernest L. Hancock, *Flagman.*

Subscribed and sworn to before me this 12 day of September, 1908.

SEAL

H. T. Dobson
Clerk, Dist. Court.

6—161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John H. Clark, Compassman for William Lewman, deceased, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for Utah, bearing date of the 23 day of January, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the South and West Boundaries of Townships 42 South of Range 7 West

of the Salt Lake base and meridian, in the State of Utah, 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John H. Clark, Compassman for William Lewman, deceased
United States Deputy Surveyor

Subscribed by said John H. Clark, and sworn to before me this 12 day of September, 1908.

W. T. Dobson
Clerk, Dist. Court.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Oct. 23, 1908

The foregoing field notes of the survey of the South and fractional West Bdys. of Township No. 42 South, Range No. 7 West of the Salt Lake Base and Meridian, Utah,

executed by John H. Clark, Compassman for William Lewman deceased under his contract No. 225, dated January 23, 1899, ~~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 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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BOOK A-366

FIELD NOTES

OF THE SURVEY OF THE

M.S.B.

SUBDIVISIONS

OF

Township 42 South

Range 7 West

Of the Salt Lake Base and *Meridian,*

State of Utah,

AS SURVEYED BY

H. Clark, Compassman for William Lemman deceased, *United States Deputy Surveyor,*

Under his Contract No. 225, *dated* January 23, 1899, *190—*

Survey commenced June 7, *1907.*

Survey completed June 12, *1907.*

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BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

Sam Clark,	Chainman.
James T.Daly,	Chainman.
Sam Clark,	Moundman.
James T.Daly,	Moundman.
Alphues E.Hartley	Axeman.
Ernest T.Hancock,	Flagman.

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BOOK A-366

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Sam Clark and James T. Daly 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 correction survey of the Subdivision of Tp. 42 S. R. 7 W. Salt Lake Meridian and Base

Sam Clark, Chainman.

James T. Daly, Chainman.

Subscribed and sworn to before me this 7 day of June, 1907

SEAL

John H Clark, Compassman for William Newman, deceased, U. S. Deputy Surveyor.

WE, Sam Clark and James T. Daly 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 correction survey of the Subdivisions of Tp. 42 S. R. 7 W. Salt Lake Base and Meridian.

Sam Clark, Moundman.

James T. Daly, Moundman.

Subscribed and sworn to before me this 7 day of June, 1907

SEAL

John H Clark, Compassman for William Newman, deceased, U. S. Deputy Surveyor.

WE, Alphuses E. Hartley 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 ~~me~~ to the best of ~~my~~ skill and ability, in the correction survey of the Subdivisions of Tp. 42 S. of R. 7 W. Salt Lake Base and Meridian

Alphuses E. Hartley, Axman.

, Axman.

Subscribed and sworn to before me this 7 day of June, 1907

SEAL

John H Clark, Compassman for William Newman, deceased, U. S. Deputy Surveyor.

I, Ernest T. Hancock, 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 correction survey of the Subdivisions of Tp. 42 S. R. 7 W. Salt Lake Base and Meridian

Ernest L. Hancock, Flagman.

Subscribed and sworn to before me this 7 day of June, 1907

SEAL

John H Clark, Compassman for William Newman, deceased, U. S. Deputy Surveyor

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Subdivision of T. 42 S., R. 7 W.

Chains. Survey commenced June 7, 1907, and executed with the instrument described in book "H" of this survey.

At 7 h. 58 m.a.m.l.m.t. I set off 37° 07'N. on the lat. arc, 22° 42'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 1, 2, 35, and 36 on S. bdy. of Tp., heretofore described. (For complete test of instrument see notes S. bdy.) Thence I. run.

N. 0° 01'W. bet. secs. 35 and 36,

Over rolling land; through dense brush.

16.00 Enter scattering cedar, bears E. and W.

Descend gradually.

39.00 Top of small ridge, bears E. and W., at foot of small hill; descnnd gradually.

40.00 Set a sandstone 18 x 12 x 4 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which

A cedar, 10 ins. dia., bears S. 39° W. 86 lks. dist. mkd. ¼ S 35 B T

A cedar, 11 ins. dia., bears S. 34° E. 49 lks. dist. mkd. ¼ S 36 B T

Descnnd gradually, over rolling land; through heavy cedar timber.

80.00 Set a sandstone 30 x 12 x 6 ins., 22 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, marked with 1 notch on S. and E. edges; from which

A cedar, 14 ins. dia., bears S. 47° E. 119 lks. dist. mkd. T 42 S R 7 W S 36 B T

A cedar, 16 ins. dia., bears S. 24° 40'W. 30 lks. dist., mkd. T 42 S R 7 W S 35 B T

A cedar 12 ins. dia., bears N. 37° 05'W. 115 lks. dist., mkd. T 42 S R 7 W S 26 B T

A cedar, 16 ins. dia., bears N. 40° 25'E. 82 lks. dist., mkd. T 42 S R 7 W S 25 B T

Land, rolling.

Soil, sandy; 4th rate.

Subdivision of T. 42 S., R. 7 W.

Chains	
	Timber, cedar and pinon pine.
	Undergrowth, sage, rabbit brush, mountain rush and scrub oak.
	Dense undergrowth on 80.00 chs.
	East on a random line bet.secs.25 and 36,
40.00	Bet.temp. ¼ sec.cor.
80.43	Intersect E.bdy.of Tp.17 lks.S.of.cor.of secs.25,30,31 and 36, which is a cedar post 14 ins.above ground, 4 ins.square, firmly set and marked and witnessed as described by the surveyor general.
	Thence I run
	S.89°53'W.on a true line bet.secs.25 and 36,
	Through medium heavy timber and dense undergrowth.
39.70	Descend over ridge, bears N. and S., from hill bears E. and SW.
40.21½	Set a sandstone 24 x 10 x 10 ins., 18 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; from which
	A cedar, 26 ins.dia., bears S.2° W. 62 lks.dist. mkd.¼ S 36 B T
	A cedar, 10 ins.dia., bears N.5° W. 41 lks.dist. mkd.¼ S 25 B T
	Descend abruptly.
41.00	Bottom of ridge; small hollow, drains NE.
	Ascend.
80.43	The cor.of secs.25,26,35, and 36.
	Land rolling to hilly.
	Soil, sandy; 4th rate.
	Timber, cedar and pinon pine.
	Undergrowth sagebrush, rabbit brush, mountain rush, and scrub oak.
	Land covered with dense undergrowth or heavy timber 80.43 chs.

Subdivision of T. 42 S., R. 7 W.

Chains.	N.0° 01'W.bet.secs.25 and 26,
	Through heavy timber.
1.00	Descend gradually.
5.30	Edge of Cave Lake Canyon, drains E.
	Leave timber and descend abruptly over cliffs, 250 ft. high.
5.80	Bottom of canyon, road course E. and W., from Longvalley to Kanab. Land claim of M.M.Emett, since transferred to E.Lamb.
9.50	Ascend abruptly over cliffs.
	Leave Lamb's land.
10.65	N.edge of canyon; ascend gradually.
11.50	Top of small sand ridge, bears E. and W.; enter timber.
31.50	Descend gradually; enter heavy timber.
40.00	Set a sandstone 36 x 5 x 4 ins., 27 ins.in the ground, for ¼ sec.cor., marked ¼ on W.face; from which
	A cedar 8 ins.dia., bears S.78° E. 43 lks.dist. mkd.¼ S 25 B T
	A cedar 9 ins.dia., bears S.38° W. 112 lks.dist. mkd.¼ S 26 B T
75.80	Dry wash, 8 ft.deep, 75 lks.wide, drains E.
80.00	Set a sandstone 24 x 10 x 5 ins., 18 ins.in the ground, for cor.of secs.23.24.25, and 26, marked with 2 notches on S. and 1 notch on E.edge; from which
	A cedar 14 ins.dia., bears S.4° 35'E. 47 lks.dist. mkd. T 42 S R 7 W S 25 B T
	A cedar, 16 ins.dia., bears S.35° 45'W. 38 lks. dist., marked T 42 S R 7 W S 26 B T
	A cedar 12 ins.dia., bears N.1° 25'E. 60 lks.dist. mkd.T 42 S R 7 W S 24 B T
	No other bearing trees within limits; dig pits 18 x 18 x 12 ins. in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land,level to rolling, but broken.

Subdivision of T. 42 S., R. 7 W.

Chains. Soil, sandy; 4th rate.

Timber, cedar and pinon pine.

Undergrowth dense sagebrush, rabbit brush, mountain rush, and deer brush.

Mountainous land or land covered with dense undergrwoth or heavy timber 80.00 chs.

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

40.00 Set temp.¼ sec.cor.

80.04 Intersect the E.bdy.of the Tp.17 lks.N.of cor.of secs.19, 24,25, and 30, which is a cedar post, 4 ins.square, 12 ins.above ground, firmly set and mkd.and witnessed as described by the surveyor general.

Thence I run

West on a true line bet.secs.24 and 25,

Over level land; through dense undergrowth.

24.00 Along north side of butte.

32.00 Telephone line, bears NW. and SE. Longvalley to Kanab.

40.02 Set a sandstone 20 x 8 x 5 ins., 15 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; from which

A cedar, 8 ins.dia., bears N.32° W. 101 lks.dist. mkd.¼ S 24 B T

A cedar 10 ins.dia., bears S.70° W. 21 lks.dist. mkd.¼ S 25 B T

60.00 Descend.

80.04 The cor.of secs.23,24,25, and 26.

Land, nearly level.

Soil, sand, 4th rate.

Timber, cedar and pinon pine.

Undergrowth sagebrush, rabbit brush, mountain rush, and deer.brush.

Land covered with dense undergrowth 80.04 chs.

June 7: At this cor.I set off 22° 42'N.on the decl.arc,

Subdivision T. 42 S., R. 7 W.

Chains	
	and at 11 h. 58.5' a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 37° 09'N.
	N.0° 01'W.bet.secs.23 and 24,
	Through scattering timber and dense undergrowth.
9.80	Wire fence around E.Lamb's pasture, bears NE. and SW.
	Leave the pasture.
37.00	Telephone line bears NW. and SE.,Longvalley to Kanab.
40.00	Set a sandstone 26 x 7 x 3 ins., 19 ins.in the ground, for ¼ sec.cor., marked ¼ on W.face; from which
	A cedar 12 ins.dia., bears S.86° W. 50 lks.dist. mkd.¼ S 23 B T
	A cedar 10 ins.dia.bears S.67° E. 35 lks.dist., mkd.¼ S 24 B T
54.00	Descend into branch of Three Lakes Canyon, drains E.
60.00	Ascend abruptly out of the canyon.
75.00	Top of plateau or bench, bears E. and W.
80.00	Set a cedar post 3 ft.long, 4 ins.square, with mkd. stone, 24 ins.in the ground, for cor.of secs.13,14, 23, and 24, mkd.
	T 42 S S 13 on NE.,
	R 7 W S 24 on SE.,
	S 23 on SW., and
	S 14 on NW.faces; with three notches on the S. and 1 notch on the E.edges; from which
	A cedar 18 ins.dia., bears N.50° E. 110 lks.dist. mkd. T 42 S R 7 W S 13 B T
	A cedar 15 ins.dia., bears S.80° W. 95 lks.dist. mkd.T 42 S R 7 W S 23 B T
	A cedar 9 ins.dia. bears S.54°45'E.156 lks.dist., mkd.T 42 S R 7 W S 24 B T
	No other trees available to mark;dig pits 12 x 12 x 12 ins.in each sec.5½ ft.dist.;and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Subdivision of T. 42 S., R. 7 W.

Chains	
	Land, nearly level to hilly.
	Soil, deep, sand; 4th rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage and rabbit brush and mountain rush.
	Land covered with dense undergrowth 80.00 chs.
	N.89°53'E. on random line bet.secs.13 and 24,
40.00	Set temp. ¼ sec.cor.
80.25	Intersect E.bdy.of Tp. 44 lks.S.of the cor.of secs.13, 18, 19, and 24, which is a cedar post 4 ins.square, 24 ins.above ground, marked and witnessed as described by the surveyor general. Thence I run
	S.89° 41' W. on a true line bet.secs.13 and 24,
	Over nearly level land; through dense brush.
25.00	Descend from bench, bearing NW. and SE.
31.00	Bottom of bench.
33.50	Descend into wash;
	Ascend.
40.12½	Set a cedar post 3 ft.long, 4 ins.square, with mkd. stone, 24 ins.in the ground, for ¼ sec.cor., marked ¼ S 13 on N., 24 on S.Face; from which
	A cedar, 18 ins.dia., bears N.72° E. 40 lks.dist. mkd.¼ S 13 B T
	A cedar, 24 ins.dia., bears S.4° W. 90 lks.dist. mkd.¼ S 24 B T
44.00	Top of bench, bears NW. and SE.
80.25	The cor.of secs.13,14,23, and 24.
	Land, level to hilly.
	Soil, deep sand; 4th rate.
	Timber, cedar and a few pinon pine.
	Undergrowth, sagebrush, mountain rush and oose.
	Land covered with dense undergrowth 80.25 chs.

Subdivision of T. 42 S., R. 7 W.

Chains.	
	N.0° 01'W.bet.secs.13 and 14,
	Over nearly level land.; through dense brush and scattering timber.
28.00	Ascend gradually.
33.50	Top of ridge, bears N.70° W.and S.70° E.
40.00	Set a cedar post 3 ft.long, 4 ins.square, with mkd. stone, 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 14 on W., 13 on E.face; from which
	A cedar 11 ins.dia., bears N.36° 13'E. 85 lks.dist. mkd.¼ S 13 B T
	A cedar, 16 ins.dia.bears S.49° 45'W. 151.5 lks. dist., mkd.¼ S 14 B T
42.00	Ascend gradually.
57.00	Top of hill, bears S.80° W. and N.80° E.
	Descend.
72.50	Road, Longvalley to Kanab, bears S.80° E. and N.80° W.
80.00	Set a cedar post 4 ft.long, 4 ins.square, with mkd. stone, 36 ins.in the ground, for cor.of secs.11,12,13 and 14, marked
	T 42 S S 12 on NE.
	R 7 W S 13 on SE.
	S 11 on NW., and
	S 14 on SW.faces; with 4 notches on S. and 1 notch on E.edge; from which
	A cedar 16 ins.dia., bears S.35° 50'E. 162 lks. dist., mkd. T 42 S R 7 W S 13 B T
	A cedar, 12 ins.dia., bears S.33° W. 122 lks. dist., mkd.T 42 S R 7 W S 14 B T
	No other bearing trees available; 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, mostly sand dunes.
	Soil, sand; 4th rate.
	Timber, cedar and few pinon pine.

Subdivision T. 42 S., R. 7 W.

Chains	
	Undergrowth, sagebrush, Brigham tea, and oose.
	Land, covered with dense undergrowth 80.00 chs.
	June 7: At this cor.I set off 37° 10'N.on decl.arc; and 22° 44'N.on lat.arc; and determine a meridian with the solar, at 3 h.58 m.p.m.l.m.t.
	N.89° 41'E.on random line bet.secs.12 and 13,
40.00	Set temp. ¼ sec.cor.
79.96	Intersect E.bdy.of Tp. 40 lks.N.of the cor.of secs.7, 12,13, and 18, which is a cedar post 4 ins.square, 24 ins.above ground, marked and witnessed as described by the surveyor general.
	The.ce I run
	S.89° 58'W.on a true line bet.secs.12 and 13,
	Over nearly level land; through dense brush and scattering cedars.
39.98	Set a cedar post 3 ft.long, 4 ins.sq., with mkd.stone, 24 ins.in the ground, for ¼ sec.cor., marked ¼ S 12 on N., 13 on S.face; from which
	A cedar, 16 ins.dia., bears N.55° W. 199 lks.dist. mkd. ¼ S 12 B T
	A cedar, 11 ins.dia., bears S.44° 11'W. 46 lks. dist., mkd.¼ S 13 B T
79.96	The cor.of secs.11,12,13, and 14.
	Land, mostly small sand dunes,
	Soil, deep sand; 4th rate.
	Timber, scattering cedar.
	Undergrowth, sagebrush, Brigham tea, old-man, and some oose.
	Land covered with dense undergrowth 79.96 chs.
	N.0° 01'W.bet.secs.11 and 12,
	Over sand dunes; through scattering cedar, scrub oak,

Subdivision of T. 42 S., R. 7 W.

Chains.	
	and dense undergrowth.
40.00	Set a cedar post 3 ft.long, 4 ins.square, with charred stake, 24 ins.in the ground for ¼ sec.cor., mkd.¼ S 11 on W. S 12 on E.face; from which
	A cedar, 13 ins.dia., bears S.37° 07'E. 53 lks. dist., mkd. ¼ S 12 B T
	No other bearing trees within limits; dig pits 18 x 18 x 12 ins.N. and S.of post 3 ft.dist.; and raise a mound of earth 3 ft.base, 1½ ft.high W.of cor.
44.00	Leave sand dunes; ascend abruptly.
46.00	Top of ridge, bears NW. and SE.
63.00	Descend gradually.
80.00	Set a cedar post 3 ft.long, 5 ins.square, with charred stake, 24 ins.in the ground, for cor.of secs.1,2,11 and 12, mkd.
	T 42 S S 1 on NE.
	R 7 W S 12 on SE.,
	S 11 on SW., and
	S 2 on NW.faces; with 5 notches on the S. and 1 notch on the E.edges; from which
	A cedar, 18 ins.dia., bears S.21° 56'W. 200 lks. dist., mkd. T 42 S R 7 W S 11 B T
	A cedar, 17 ins.dia., bears N.82° W. 100 lks.dist. mkd.T 42 S R 7 W S 2 B T
	A cedar, 6 ins.dia., bears N.59° 58'E. 146 lks. dist., mkd.T 42 S R 7 W S 1 B T
	A cedar 10 ins.dia., bears S.27° 17'E. 54 lks. dist., mkd. T.42 S R 7 W S 12 B T
	Land, rolling to hilly.
	Soil, sand; 4th rate.
	Timber, scattering cedar.
	Undergrowth, sagebrush, old-man, oose, and scrub oak.
	Land covered with dense undergrowth 80.00 chs.

Subdivision of T. 42 S., R. 7 W.

Chains.	
	N.89° 58'E.on random line bet.secs.1 and 12,
40.00	Set temp. ¼ sec.cor.
79.97	Intersect E.bdy.of Tp. at the cor.of secs.1,6,7, and 12, which is a cedar post 10 x 4 x 4 ins.above ground, mkd. and witnessed as described by the surveyor general.
	Thence I run
	S.89° 58'W.on a true line bet.secs.1 and 12,
	Over rolling land; through scattering cedar and dense undergrowth.
39.98½	Set a cedar post 3 ft.long, 4 ins.sq., with charred stake, 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 1 on N., 12 on S.face; from which
	A cedar, 15 ins.dia., bears N.71° E. 205 lks. dist., mkd.¼ S 1 B T
	A cedar, 9 ins.dia.bears S.57° 52'E. 234 lks. dist., mkd.¼ S 12 B T
79.97	The cor.of secs.1,2,11, and 12.
	Land, rolling.
	Soil, sand; 4th rate.
	Timber, scattering cedar.
	Undergrowth, sagebrush, old-man, and oose.
	Land covered with dense undergrowth 79.97 chs.

	N.0° 01'W.on random line bet.secs.1 and 2,
40.00	Set temp. ¼ sec.cor.
77.12	Intersect the N.bdy.of Tp.2 lks.W.of the cor.of secs. 1,2,35, and 36, heretofore described.
	Thence I run
	South on a true line bet.secs.1 and 2,
	Ascend along W.side of gulch, draining north; through heavy timber and dense brush.
22.45	Top of ridge, bears N. and S.65° E.; descend abruptly

Subdivision of T. 42 S., R. 7 W.

Chains. into gulch, 150 ft.deep, drains SE.

Leave timber.

31.12 South side of gulch; ascend gradually.

37.00 Set a cedar post 3 ft.long, 5 ins.square, with charred stake, 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 2 on W., 1 on E.face; from which

A cedar 13 ins.dia., bears N.25° W. 104 lks.dist. mkd.¼ S 2 B T

A cedar 16 ins.dia., bears N.63° E. 145 lks.dist. mkd.¼ S 1 B T

59.35 Top of ridge, bears NE. and SW.; descend.

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

Land, mountainous and hilly.

Soil, sand with sandstone ledges; 4th rate and worthless.

Timber, cedar and pinon pine.

Undergrowth, sagebrush, mountain rush, oose, and some deer brush.

Mountainous land, or land heavily timbered, or covered with dense undergrowth 77.12 chs.

June 7, 1907.

June 8: At 7 h. 29 m.a.m.l.m.t.I set off 22° 48' N.on the decl.arc; 37° 07'N.on the lat.arc, and determine a meridian with the solar at the cor.of secs.2,3,34 & 35 on S.bdy.of Tp., heretofore described.

Thence I run

N.0° 01'W.bet.secs.34 and 35,

Descending gradually, through dense brush and scattering timber.

27.50 Leave Taylor Crosby's pasture; rail fence bears NE. and SW.

33.00 Foot of sand knoll, 75 ft.high; ascend.

Subdivision of T. 42 S., R. 7 W.

Chains.	
39.50	Top of knoll.
40.00	Set a sandstone 24 x 20 x 4 ins., 18 ins.in the ground for ¼ sec.cor. mkd.¼ on W.face; from which A cedar, 10 ins.dia., bears N.70° E. 250 lks.dist. mkd.¼ S 35 B T No other trees within limits; dig pits 18 x 18 x 12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor. Descend gradually.
68.00	Dry wash, 75 ft.deep, drains E. into Cave Lake Canon.
71.00	Bottom of wash; road, Longvalley to Kanab, bears E. and W.
74.00	N.side of wash; ascend gradually.
80.00	Set a sandstone 24 x 12 x 3 ins., 18 ins.in the ground for cor.of secs.26,27,34, and 35, mkd. with 1 notch on S. and 2 notches on E.edges; from which A cedar 14 ins.dia., bears N.69° 30'E. 85 lks. dist., mkd. T 42 S R 7 W S 26 B T A cedar, 14 ins.dia., bears S.18° E. 107 lks.dist. mkd. T 42 S R 7 W S 35 B T A cedar 12 ins.dia., bears S.45° W. 60 lks.dist. mkd.T 42 S R 7 W S 34 B T A cedar, 10 ins.dia., bears N.54° W. 100 lks.dist. mkd.T 42 S R 7 W S 27 B T Land, rolling to hilly. Soil, deep sand; 4th rate. Timber, cedar and pinon pine. Undergrowth, sage, Brigham-tea, old-man, deer, and oose. Land covered with dense undergrowth 80.00 chs.

	East on a random line bet.secs.26 and 35,
40.00	Set temp. ¼ sec.cor.
80.20	Intersect N. and S.line 7 lks.N.of the cor.of secs.25,

Subdivision of T. 42 S., R. 7 W.

Chains	
	26,35, and 36,
	Thence I run
	N.89° 57'W.on a true line bet.secs.26 and 35,
	Through heavy timber and dense brush along slope on S. side of Cave Lake Canyon.
40.10	Set a sandstone 24 x 12 x 4 ins., 18 ins.in the ground for ¼ sec.cor., mkd.¼ on N.face; from which
	A pinon pine, 14 ins.dia., bears N.74° E. 154 lks. dist., mkd.¼ S 26 B T
	A cedar 10 ins.dia., bears S.77° E. 132 lks.dist. mkd.¼ S 35 B T
45.00	Descend abruptly over ledge into Cave Lake Canyon, 150 ft.deep, drains N.60° E., then turns E.
46.00	Bottom of canyon, in bend.
48.50	Ascend abruptly over ledge, point abutting into canyon.
49.50	Top of point, bears N. and S.; descend abruptly into the canyon, 50 ft.deep, drains N.60° E.;then SE.
50.50	Road in bottom of canyon, bears N.60° E. and S.60° W., Longvalley to Kanab.
	Ascend abruptly over ledges.
55.00	Top of ledges; ascend gradually along N.side of slopes draining into canyon.
62.00	Ascend more gradually.
80.20	The cor.of secs.26,27,34, and 35.
	Land, rough and mountainous to hilly.
	Soil, sand with sandstone ledges; 4th rate and worthless.
	Timber, cedar and pinon pine.
	Undergrowth, sagebrush, rabbit brush, mountain rush, and scrub oak.
	Mountainous land, or land covered with dense undergrowth 80.20 chs.

N.0° 01'W.bet.secs.26 and 27,

Subdivision of T. 42 S., R. 7 W.

Chains	
	Through scattering timber and dense undergrowth.
40.00	Set a cedar post 3 ft.long, 6 ins.sq., with charred stake, 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 27 on W. and 26 on E.face; from which
	A cedar 14 ins.dia. bears N.80° 30'E. 365 lks. dist., mkd.¼ S 26 B T
	A cedar, 8 ins.dia., bears S.48° W. 420 lks.dist. mkd.¼ S 27 B T
57.90	Foot of sandhill and ascend.
59.00	Top of hill, 50 ft.high; descend. Hill bears N.80° E. and S.80° W.
62.00	Enter heavy cedar and pinon pine, bears E. and W.
80.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for cor.of secs.22,23,26, and 27, mkd.
	T 42 S S 23 on NE.
	R 7 W S 26 on SE.,
	S 27 on SW., and
	S 22 on NW.faces, with 2 notches on S. and E. edges; from which
	A cedar 8 ins.dia., bears N.55° W. 11 lks.dist. mkd.T 42 S R 7 W S 22 B T
	A cedar, 6 ins.dia., bears S.54° W. 42 lks.dist. mkd.T 42 S R 7 W S 27 B T
	No other trees available to mark; 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 and level.
	Soil, sand; 4th rate.
	Timber, cedar and pinon pine.
	Undergrowth sagebrush, rabbit brush, deer brush, scrub oak and mountain rush.
	Land heavily timbered 18.00 chs.
	Land covered with dense undergrowth 80.00 chs.

Subdivision of T. 42 S., R. 7 W.

Chains.	
	S.89° 57'E.on a random line bet.secs.23 and 26,
40.00	Set temp. ¼ sec.cor.
80.21	Intersect N. and S.line 10 lks.S.of the cor.of secs.23, 24,25, and 26. Thence I run
	S.89° 58'W.on a true line bet.secs.23 and 26,
	Through scattering timber and dense brush.
10.20	Fence bears NE. and SW.
40.10½	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground for ¼ sec.cor., mkd.¼ S 23 on N., 26 o n S. face; from which
	A cedar 14 ins.dia., bears N.50° E. 60 lks.dist. mkd.¼ S 23 B T
	A cedar, 12 ins.dia., bears S.9° W. 74 lks.dist. mkd.¼ S 26 B T
80.21	The cor.of secs.22,23,26, and 27.
	Land, nearly level.
	Soil, sand; 4th rate.
	Timber, scattering cedar.
	Undergrowth, sage and deer brush, Brigham-tea, and scrub oak.
	Land covered with dense undergrowth 80.21 chs.
	N.0° 01'W.bet.secs.22 and 23,
	Descending over rolling land; through dense brush.
17.00	Dry wash, 10 ft.deep, drains E.
19.50	North side of wash.
40.00	Set a sandstone 21 x 8 x 3 ins., 15 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; dig pits 18 x 18 x 12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
42.00	Descend abruptly into wash, 10 ft.deep, drains E.
45.00	Ascend abruptly out of wash.
48.00	Top of plateau, bears E. and W.

Chains.	
80.00	Set a cedar post 3 ft.long, 4 ins.sq., with charred stake, 24 ins.in the ground, for cor.of secs.14,15, 22, and 23, mkd. T 42 S S 14 on NE. R 7 W S 23 on SE, S 22 on SW., and S 15 on NW.faces, with 3 notches on the S. and 2 notches on the E.edges;from which A cedar, 20 ins.dia., bears S.60° 30'E. 141 lks. dist., mkd. T 42 S R 7 W S 23 B T A cedar, 20 ins.dia., bears S.80° W. 56 lks.dist. mkd.T 42 S R 7 W S 22 B T No other trees available to mark; 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, hilly and level. Soil, sand; 4th rate. Timber, cedar and pinon pine. Undergrowth, sagebrush, rabbit brush, old man, Brigham-tea, and scrub oak. Land covered with dense undergrowth 80.00 chs. June 8: At this cor.I set off 22° 48'N.on the decl.arc; and at 11 h. 59 m.a.m.l.m.t.observe the sun on the meridian, the resulting lat.is 37° 09' 30" N.
	N.89° 59'E.on a random line bet.secs.14 and 23,
40.00	Set temp. ¼ sec.cor.
80.16	Intersect the N. and S.line at the cor.of secs.13,14, 23, and 24. Thence I run S.89° 59'W.on a true line bet.secs.14 and 23, Through dense brush and scattering timber.
40.08	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 14 on N., 23 on S.

Subdivision of T. 42 S., R. 7 W.

Chains.	
	face; from which
	A cedar, 36 ins.dia., bears S.80° E. 97 lks.dist. mkd.$\frac{1}{2}$ S 23 B T
	A cedar, 30 ins.dia., bears N.50° E. 200 lks.dist. mkd.$\frac{1}{2}$ S 14 B T
43.00	Telephone line bears NW. and SE.;Longvalley to Kanab.
80.16	Cor.of secs.14,15,22, and 23.
	Land, rolling and level.
	Soil, sand; 4th rate.
	Timber, cedar and pinon pine.
	Undergrowth.sagebrush; oose;mountain rush and rabbit brush.
	Land covered with dense undergrowth 80.16 chs.
	N.0° 01'W.bet.secs.14 and 15,
	Through medium heavy timber and heavy brush.
38.00	Telephone line bears E. and W.;Longvalley to Kanab.
40.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S 15 on W., 14 on E. face; from which
	A cedar, 18 ins.dia., bears N.40° W. 53 lks.dist. mkd.$\frac{1}{2}$ S 15 B T
	A cedar, 20 ins.dia., bears N.71° E. 30 lks.dist. mkd. $\frac{1}{4}$ S 14 B T
52.00	Ascend abruptly.
54.18	Top of ridge, bears E. and W.; descend.
65.00	Ascend abruptly.
66.35	Top of ridge, bears E. and W.; descend.
75.15	Ascend abruptly.
76.50	Top of ridge, bears E. and W.; descend.
80.00	Bottom of ridge,
	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for cor.of secs.10,11,14, and 15, mkd.

Subdivision of T. 42 S., R. 7 W.

Chains.	
	T 42 S S 11 on NE.,
	R 7 W S 14 on SE.,
	S 15 on SW., and
	S 10 on NW.faces; with 4 notches on the S. and 2 notches on the E.edges; from which
	A cedar, 18 ins.dia., bears S.60° E. 110 lks.dist. mkd. T 42 S R 7 W S 14 B.T
	No other bearing trees available to mark; 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, covered with sand dunes.
	Soil, deep, sand; 4th rate.
	Timber, cedar and some pinon pine.
	Undergrowth sage and rabbit brush, Brigham-tea, and oose.
	Land covered with dense undergrowth 80.00 chs.
	N.89° 59'E.on random line bet.secs.11 and 14,
40.00	Set temp. ¼ sec.cor.
80.10	Intersect N. and S.line 4 lks.S.of the cor.of secs.11, 12,13, and 14. Thence I run
	S.89° 57'W.on a true line bet.secs.11 and 14,
	Over fairly level land; through dense brush.
34.00	Longvalley-Kanab road, bears NW. and SE.
40.05	Set a cedar post 3 ft.long, 3 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 11 on N., 14 on S. face; dig pits 18 x 18 x 12 ins. E. and W.of post 3 ft.dist.; and raise a mound of earth 3½ft.base, 1½ ft.high N.of cor.
80.10	The cor.of secs.10,11,14, and 15.
	Land, rolling to level.
	Soil, sand; 4th rate.
	Timber, cedar and some pinon pine.

Subdivision of T. 42 S., R. 7 W.

Chains. Undergrowth, sage and rabbit brush, mountain rush, deer brush, and some oose.

Land covered with dense undergrowth 80.10 chs.

N.0° 01'W.bet.secs.10 and 11,

Over rolling land; through dense brush and scattering timber.

26.00 Road, Longvalley to Kanab, bears SE. and NW.

40.00 Set a cedar post 3 ft.long, 3 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 10 o n W.face, 11 on E.face; from which

A cedar 16 ins.dia., bears east 350 lks.dist. mkd.¼ S 11 B T No other bearing trees within limits; dig pits 18 x 18 x 12 ins.N. and S.of stone 3 ft.dist.; and raise mound of earth 3½ ft.base, 1½ ft. high W.of cor.

40.50 Ascend abruptly.

43.60 Top of sand ridge, bears E. and W.

45.80 Descend abruptly.

47.00 Ascend gradually.

80.00 Set a cedar post 4 ft.long, 4 ins.sq., 36 ins.in the ground, for cor.of secs.2,3,10, and 11, mkd.

T 42 S S 2 on NE.

R 7 W S 11 on SE.,

S 10 on SW., and

S 3 on NW.face; with 5 notches on the S. and 2 notches on the E.edges; from which

A cedar 8 ins.dia., bears N.80° E. 1 lk.dist. mkd.T 42 S R 7 W S 2 B T

A cedar 16 ins.dia., bears N.15° W. 210 lks.dist. mkd.T 42 S R 7 W S 3 B T

A cedar, 14 ins.dia., bears S.30° W. 106 lks.dist. mkd.T 42 S R 7 W S 10 B T

Chains.	
	A cedar 12 ins.dia., bears S.3° E. 60 lks.dist. mkd.T 42 S R 7 W S 11 B T
	Land, rolling and level.
	Soil, sand; 4th rate.
	Timber, cedar and a few pinon pine.
	Undergrowth sagebrush and rabbit brush, mountain rush and oose.
	Land covered with dense undergrowth 80.00 chs.
	June 8: At this cor. at 4 h. 29 m.p.m l.m.t.I set off 37° 11'N.on the lat.arc; 22° 50'N.on the decl.arc; and determine a meridian with the solar.
	N.89° 57'E.on a random line bet.secs.2 and 11,
40.00	Set temp. ¼ sec.cor.
80.10	Intersect N. and S.line at the cor.of secs.1,2,11, and 12. Thence I run
	S.89° 57'W.on a true line bet.secs.2 and 11,
	Through scattering timber and dense undergrowth.
40.05	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 2non N., 11 on S.face; from which
	A cedar, 9 ins.dia., bears N.30° W. 125 lks.dist. mkd.¼ S 2 B T
	No other trees available to mark; 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.2,3,10, and 11.
	Land, nearly level.
	Soil, sand; 4th rate.
	Timber, cedar and pinon pine'
	Undergrowth sage, rabbit, and deer brush,mountain rush and scrub oak.
	Land covered with dense undergrowth 80.10 chs.

Chains.

N.0° 01'W.on random line bet.secs.2 and 3,

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

77.06 Intersect N.bdy.of Tp.13 lks.W.of the cor.of secs.2,3, 34 and 35, which was set by myself, and heretofore described. Thence I run

S.0° 05'W.on a true line bet.secs.2 and 3,

Descending through dense undergrowth and scattering timber.

.50 Wash, 50 ft.deep, 140 lks.wide, drains S.80° E.

22.20 Wash, 50 ft.deep, 135 lks.wide, drains S.80° E.

24.00 Ascend gradually.

37.06 Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S 3 on W., 2 on E. face; from which

A cedar 13 ins.dia.bears N.35° E. 52 lks.dist. mkd.$\frac{1}{4}$ S 2 B T

A cedar 10 ins.dia.bears N.50° W. 58 lks.dist. mkd.$\frac{1}{4}$ S 3 B T

41.00 Descend abruptly into wash, 40 ft.deep, drains S.60° E.

45.50 South side of wash.

52.70 Descend abruptly into wash, 30 ft.deep, drains S.70° E.

54.95 S.edge of wash; ascend gradually.

77.06 The cor.of secs.2.3.10, and 11.

Land, rough, hilly and level.

Soil, sand with sandstone outcrops; 4th rate and worthless.

Timber, cedar and some pinen pine.

Undergrowth, sage and deer brush, mountain rush, scrub oak, and oose.

Mountainous land covered with dense undergrowth 77.06 chs.

June 8, 1907.

June 9, 1907: At 6 h. 59 m.a.m.l.m.t.I lay off 22° 53'

Subdivision of T. 42 S., R. 7 W.

Chains.	
	N.on the decl.arc; 37° 07'N.on the lat.arc; and determine a meridian with the solar at the cor.of secs. 3.4.33. and 34 on S.bdy.of Tp., heretofore described.
	Thence I run
	N.0° 02'W.bet.secs.33 and 34,
	Over fairly level country; through dense undergrowth and scattering timber.
8.20	Road to Cottonwood, bears N.58° W. and S.80° E., from Kanab.
10.50	Enter scattering timber, bears E. and W.
20.00	Top of small ridge, 10 ft.high bears E. and W.
	Leave cedars and descend.
21.00	Level ground.
40.00	Set a cedar post 3 ft.long, 4 ins.sq., with charred stake, 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 33 on W., 34 on E.face; from which [illegible] A cedar-20 ins.dia. bears S.45° W. 241 lks.dist. mkd.¼ S 33 B T
	No other bearing tree within limits; dig pits 18 x 18 x 12 ins.N. and S.of post 3 ft.dist.;and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
45.00	Ascend gradually.
50.50	Top of sand ridge, 15 ft.high bears E. and W.; enter scattering timber, bears E. and W.
60.00	Gradual ascent.
72.00	Top of ridge, 20 ft.high, bears E. and W.
	Descend gradually.
80.00	Set a cedar post 4 ft.long, 4 ins.sq., 36 ins.in the ground, for cor.of secs.27,28,33, and 34, mkd. T 42 S S 27 on NE. R 7 W S 34 on SE., S 33 on SW., and S 28 on NW.faces, with 1 notch on S. and 3 notches on E.edges; from which
	A cedar 40 ins.dia.bears N.77° E. 155 lks.dist. mkd.T 42 S R 7 W S 27 B T

Subdivision of T. 42 S., R. 7 W.

Chains.	
	A cedar, 14 ins.dia., bears S.70° E. 160 lks.dist. mkd.T 42 S R 7 W S 34 B T
	A cedar 12 ins.dia., bears S.60° W. 60 lks.dist. mkd.T 42 S R 7 W S 33 B T
	No other trees available to mark; 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 and rolling.
	Soil, sand; 4th rate.
	Timber, cedar with a few pinon pine.
	Undergrowth, sage and deer brush, Brigham-tea, scrub oak, and oose.
	Dense brush on 80.00 chs.
	East on a random line bet secs.27 and 34,
40.00	Set temp. ¼ sec.cor.
80.01	Intersect N. and S.line at the cor.of secs.26,27,34, and 35. Thence I run
	West on a true line bet.secs.27 and 34,
	Ascending gradually, through dense brush.
37.00	Road from Longvalley to Kanab, bears S.75° E. and N.75° W.
40.00	Set a sandstone 22 x 10 x 3 ins., 16 ins.in the ground for ¼ sec.cor., mkd.¼ on N.face; dig pits 18 x 18 x 12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
80.01	The cor.of secs.27,28,33, and 34.
	Land, nearly level.
	Soil, sand; 4th rate.
	Timber, few scattering cedars.
	Undergrowth sagebrush, mountain rush, old-man, scrub oak , and oose.
	Land covered with dense undergrowth 80.01 chs.

Subdivision of T. 42 S., R. 7 W.

Chains	
	N.0°02'W.bet.secs.27 and 28,
	Ascending gradually; through dense brush and scattering timber.
26.25	Road, Longvalley to Kanab, bears N.70° W. and S.70° E.
40.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 28 on W., 27 on E. face; from which
	A cedar, 10 ins.dia., bears S.80° E. 63 lks.dist. mkd.¼ S 27 B T
	A cedar, 16 ins.dia.bears S.60° W. 120 lks.dist. mkd.¼ S 28 B T
52.00	Descend into wash, 20 ft.deep, drains NE.
55.00	Bottom of wash.
61.00	North side of wash; ascend gradually.
80.00	Set a cedar post 3 ft.long. 4 ins. sq., 24 ins in the ground for cor.of secs.21,22,27, and 28, mkd.
	T 42 S S 22 on NE.
	R 7 W S 27 on SE.
	S 28 on SW., and
	S 21 on NW.faces; with 2 notches on the S. and 3 notches on the E.edges; from which
	A cedar, 14 ins.dia., bears N.85° E. 194 lks.dist. mkd.T 42 S R 7 W S 22 B T
	A cedar 12 ins.dia., bears N.36° W. 34 lks.dist. mkd.T 42 S R 7 W S 21 B T
	A cedar, 14 ins.dia., bears S.65° W. 30 lks.dist. mkd.T 42 S R 7 W S 28 B T
	No other bearing trees within limits; dig pits 18 x 18 x 12 ins.in each sec.5½ ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land, rolling and level.
	Soil, sand; 4th rate.
	Timber, scattering cedar.
	Undergrowth, sage, rabbit and deer brush, mountain rush

Chains.	
	old-man, scrub oak, and oose.
	Land covered with dense undergrowth 80.00 chs.
	East on a random line bet.secs.22 and 27,
40.00	Set temp.¼ sec.cor.
79.95	Intersect N. and S.line 5 lks.N.of the cor.of secs.22 23,26,and 27.
	Thence I run
	N.89° 58'W.on a true line bet.secs.22 and 27,
	Through dense brush and scattering timber.
39.97½	Set a cedar post 3 ft.long, 5 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 22 on N., 27 on S. face; from which
	A cedar 20 ins.dia., bears S.40° E. 148 lks.dist. mkd.¼ S 27 B T
	A cedar 12 ins.dia., bears N.30° E. 56 lks.dist. mkd.¼ S 22 B T
55.00	Descend abruptly.
58.00	Dry wash, 20 ft.deep, 150 lks.wide, drains NE.
79.95	The cor.of secs.21,22,27, and 28.
	Land, rolling and level.
	Soil, sand; 4th rate.
	Timber, cedar and a few pinon pine.
	Undergrowth, sage and deer brush, old-man, Brigham-tea scrub oak, and oose.
	Land covered with dense undergrowth 79.95 chs.
	N.0° 02'W.bet.secs.21 and 22,
	Through dense brush and scattering timber.
40.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 21 on W., 22 on E.

Chains.	
	face; from which
	A cedar 14 ins.dia., bears N.75° E. 129 lks.dist. mkd.$\frac{1}{4}$ S 22 B T
	A cedar 16 ins.dia., bears N.60° W. 180 lks.dist. mkd.$\frac{1}{4}$ S 21 B T
70.00	Ascend,
78.00	Top of small ridge, bears NW. and SE.
	Descend.
80.00	Set a limestone 27 x 8 x 4 ins., 20 ins.in the ground for cor.of secs.15,16,21, and 22, mkd. with 3 notches on the S. and E.edges; from which
	A cedar 14 ins.dia., bears N.85° E. 61 lks.dist. marked T 42 S R 7 W S 15 B T
	A cedar 16 ins.dia., bears S.10° W. 70 lks.dist. marked T 42 S R 7 W S 21 B T
	A cedar, 16 ins.dia., bears S.20° E. 95 lks.dist. mkd.T 42 S R 7 W S 22 B T
	No other bearing trees within limits; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.
	Land, level to rolling.
	Soil, sand; 4th rate.
	Timber, cedar and some few pinon pine.
	Undergrowth sage, rabbit and deer brush, mountain rush, scrub oak, and oose.
	Land covered with dense undergrowth 80.00 chs.
	June 9: At this cor. I set off 22° 54' N. on the decl. arc; and at 11 h. 59 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 37° 09'N. which is the correct latitude.

Subdivision of T. 42 S., R. 7 W.

Chains.	
	S.89° 58'E.on a random line bet.secs.15 and 22,
40.00	Set temp.½ sec.cor.
80.05	Intersect N. and S.line at the cor.of secs.14,15,22, and 23.
	Thence I run
	N.89° 58'W.on a true line bet.secs.15 and 22,
	Ascending gradually,through dense brush and scattering timber.
40.02½	Set a cedar post 3 ft.long, 4 ins.sq., with charred stake, 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 15 on N., 22 on S.face; 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.
77.50	Descend.
77.80	Bottom of wash, drains S. and SE.
80.05	The cor.of secs.15,16,21, and 22.
	Land, nearly level.
	Soil, sand; 4th rate.
	Timber, cedar.
	Undergrowth, sagebrush, oose, mountain rush, and scrub oak.
	Land,covered with dense undergrowth 80.05 chs.

	N.0° 02'W.bet.secs.15 and 16,
	Ascending abruptly through dense brush and medium heavy timber.
16.00	Top of Red Knoll, bears E. and W., 250 ft.high.
	Descend abruptly.
20.00	Descend gradually.
40.00	Set a cedar post 3 ft.long, 4 ins.sq., with charred stake, 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 16 on W., 15 on E.face; dig pits 18 x 18 x 12 ins.

Chains. 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 a cedar post 3 ft.long, 4 ins.square, 24 ins.in the ground for cor.of secs.9,10,15, and 16, marked

T 42 S S 10 on NE.

R 7 W S 15 on SE.

S 16 on SW., and

S 9 on NW.faces; with 4 notches on the S. and 3 notches on the E.edges; from which

A cedar 12 ins.dia., bears S.60° E. 90 lks.dist. mkd.T 42 S R 7 W S 15 B T

A cedar, 12 ins.dia., bears S.10° W. 200 lks.dist. mkd.T 42 S R 7 W S 16 B T

No other trees available to mark; 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, hilly and level.

Soil, sand; 4th rate.

Timber, cedar and some pinon pine.

Undergrowth sagebrush, scrub oak, Brigham-tea, old-man and ooze.

Land, covered with dense undergrowth 80.00 chs.

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

40.00 Set temp.¼ sec.cor.

79.84 Intersect N. and S.line, 8 lks.S.of the cor.of secs.10, 11,14, and 15. Thence I run

S.89° 59'W.on a true line bet.secs.10 and 15,

Through dense brush and scattering cedar; over nearly level land.

26.00 Telephone line, Longvalley to Kanab, bears NW. and SE.

39.92 Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the

Subdivision of T.42 S., R. 7 W.

Chains

ground, for ¼ sec.cor., mkd. ¼ S 10 on N., 15 on S. face; from which

A cedar, 24 ins.dia., bears S.87° W. 70 lks.dist. mkd. ¼ S 15 B T

No other bearing trees within limits; dig pits 18 x 18 x 12 ins.E. and W.of post 3 ft.dist; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

79.84 The cor.of secs.9,10,15, and 16.

Land, nearly level.

Soil, sand; 4th rate.

Timber, cedars

Undergrowth sage, rabbit and deer brush, mountain rush and scrub oak.

Land covered with dense undergrowth 79.84 chs.

June 9: At 3 h. 59 m.p.m.l.m.t.I set off 22° 55'N.on decl.arc; 37°.10'N.on lat.arc; and determine a meridian with the solar at cor.of.secs.9,10,15, and 16. Thence I run

N.0° 02'W.bet.secs.9 and 10,

Descending gradually through heavy brush and scattering cedar.

40.00 Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd. ¼ S 9 on W., 10 on E. face; from which

A cedar 20 ins.dia. bears N. 45° E. 280 lks.dist. mkd. ¼ S 10 B.T

A cedar 16 ins.dia., bears S.58° W. 150 lks.dist. mkd. ¼ S 9 B T

41.25 Road to Longvalley from Kanab, bears NW. and S.68° E.

57.00 Telephone line bears NW. and SE. Longvalley to Kanab.

80.00 Set a cedar post 3 ft.long, 4 ins.square, with mkd. stone, 24 ins.in the ground for cor.of secs.3,4,9, and 10, mkd.

T 42 S S 3 on NE.

Subdivision of T. 42 S., R. 7 W.

Chains.	
	R 7 W S 10 on SE. S 9 on SW., and S 4 on NW.faces; with 5 notches on S. and 3 notches on the E.edges; 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, sand; 4th rate. Timber, scattering cedar and pinon pine. Undergrowth sage, deer and rabbit brush, mountain rush scrub oak, and oose. Land covered with dense undergrowth 80.00 chs.
	N.89° 59'E.on a random line bet.secs.3 and 10,
40.00	Set temp. ¼ sec.cor.
79.95	Intersect N. and S.line, 12 lks.N.of the cor.of secs. 2,3,10, and 11.
	Thence I run N.89° 56'W.on a true line bet.secs.3 and 10 Through dense brush, over nearly level land.
39.975	Set a cedar post 3 ft.long, 4 ins.sq., with charred stake, 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 3 on N., 10 on S.face; 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.
79.95	The cor.of secs.3,4,9, and 10. Land, nearly level. Soil, deep sand; 4th rate. Timber, few cedars. Undergrowth, sage, rabbit, and deer brush, mountain rush and oose. Land covered with dense undergrowth 79.95 chs.

Subdivision of T. 42 S., R. 7 W.

Chains.	
	N.0° 02'W.on a random line bet.secs.3 and 4,
40.00	Set temp. ¼ sec.cor.
60.00	Foot of hill, and as the ascent of this hill is difficult and the W.C.for cor.of secs.3,4,33, and 34 on N. bdy.of the Tp. is set 7.55 chs.W.of the true cor. point, I offset west 7.55 chs. and run N.0° 02'W.on random offset line,
76.97	Intersect N.bdy.of Tp. 5 lks.west of the witness cor. of secs.3,4,33, and 34, set by myself and heretofore described. Thence I run
	South on offset line,
	Through medium heavy timber and dense brush; along W. side of hill, bearing N. and S.
16.97	Offset peg from which I offset 7.55 chs.E.to true line.
	Leave hill and timber.
36.97	Set a limestone 20 x 8 x 4 ins., 15 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
76.97	The cor.of secs.3.4,9, and 10.
	Land, level and mountainous.
	Soil, sand, with sandstone outcrops and cliffs;4th rate and worthless.
	Timber, cedar and pinon pine.
	Undergrowth, sage and rabbit brush, scrub oak and mountain rush.
	Mountainous land, or land covered with dense undergrowth 76.97 chs.
	June 9, 1907.

June 10: At 7 h. 59 m.a.m.l.m.t.I set off 37° 17'W.on lat.arc; 22° 58'N.on decl.arc; and determine a meridian with the solar at the cor.of secs.4,5,32, and 33 on S.bdy.of Tp., heretofore described.

Chains.	
	Thence I run
	N.0° 03'W.bet.secs.32 and 33,
	Through scattering timber and dense undergrowth.
6.40	Ascend abruptly.
9.95	Top of ridge, 25 ft.high, bears E. and W.; descend gradually.
15.00	Ascend gradually to plateau'
40.00	Set a cedar post, 3 ft.long, 4 ins.sq., 24 ins.in the ground for ¼ sec.cor. mkd.¼ S 32 on W., 33 on E.face; from which
	A cedar, 8 ins.dia., bears N.30° 10'E. 15 lks. dist., mkd.¼ S 33 B T
	A cedar 6 ins.dia.bears S.25° W. 15 lks.dist., mkd.¼ S 32 B T
75.50	Top of plateau, bears NE. and SW.
80.00	Set a cedar post 4 ft.long, 4 ins.sq., 36 ins.in the ground, for cor.of secs.28,29,32, and 33, mkd.
	T 42 S S 28 on NE.
	R 7 W S 33 on SE.,
	S 32 on SW., and
	S 29 on NW.faces, with 1 notch on the S. and 4 notches on the E.edges; from which
	A cedar 14 ins.dia., bears S.32° 20'W. 184 lks. dist., mkd.T 42 S R 7 W S 32 B T
	A cedar, 18 ins.dia., bears S. 2° E. 134 lks.dist. mkd.T 42 S R 7 W S 33 B T
	No other trees available to mark; 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 and hilly.
	Soil, sand; 4th rate.
	Timber, cedar and pinon pine.
	Undergrowth sage and deer brush, mountain rush, scrub oak and ocse.

Chains. Land covered with dense undergrowth 80.00 chs.

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

40.00 Set temp. ¼ sec.cor.

80.08 Intersect the 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,

Ascending through dense brush and medium heavy timber.

15.00 Road to Cottonwood and Kanab, bears N. and S.

18.00 Ascend gradually.

25.00 Top of plateau, bears NE. and SW.

40.04 Set a cedar post 3 ft.long 4 ins.sq., 24 ins.in the ground for ¼ sec.cor., mkd.¼ S 28 on N.face, 33 on S. face; from which

A cedar, 14 ins.dia., bears N.35° W. 82 lks.dist. mkd. ¼ S 28 B T

No other trees available to mark; 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.

80.08 The cor.of secs.28,29,32, and 33.

Land, level to hilly.

Soil, sand; 4th rate.

Timber, cedar and piñon pine.

Undergrowth sage and deer brush, mountain rush, scrub oak and oose.

Land covered with dense undergrowth 80.08 chs.

N.0° 03'W.bet.secs.28 and 29,

Over level land; through dense brush and scattering timber.

40.00 Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 29 on W., 28 on E.

Chains.	
	face; from which
	A cedar 12 ins.dia., bears S.25° E. 127 lks.dist. mkd.$\frac{1}{4}$ S 28 B T
	A cedar 6 ins.dia.bears N.40° W. 258 lks.dist., mkd.$\frac{1}{4}$ S 29 B T
80.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for cor.of secs.20,21,28, and 29, mkd.
	T 42 S S 21 on NE.
	R 7 W S 28 on SE.,
	S 29 on SW., and
	S 20 on NW.faces; with 2 notches on the S. and 4 notches on the E.edges; from which
	A cedar, 18 ins.dia., bears S.4° 56'W. 238 lks. dist., mkd.T 42 S R 7 W S 29 B T
	A cedar, 12 ins.dia., bears S.69° E. 211 lks.dist. mkd.T 42 S R 7 W S 28 B T
	A cedar, 8 ins.dia. bears N.43° 15'E. 195 lks. dist., mkd.T 42 S R 7 W S 21 B T
	A cedar,18 ins.dia., bears N.37° 45'W.359 lks.dist. mkd.T 42 S R 7 W S 20 B T
	Land, level.
	Soil, sand; 4th rate.
	Timber, cedar and a few pinon pine.
	Undergrowth, sage and deer brush, mountain rush, scrub oak and oose.
	Land covered with dense undergrowth 80.00 chs.
	East on a random line bet.secs.21 and 28,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.30	Intersect N. and S.line 5 lks.S.of the cor.of secs. 21,22,27, and 28. Thence I run
	S.89° 58'W.on a true line bet.secs.21 and 28,
	Through dense brush and medium dense timber.

Subdivision of T. 42 S., R. 7 W.

Chains.	
31.00	Longvalley-Kanab road, bears N.15° W. and S.15° E.
40.15	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 21 on N., 28 on S. face; from which
	A cedar 14 ins.dia., bears N.50° E. 90 lks.dist. mkd.¼ S 21 B T
	A cedar, 16 ins.dia., bears S.30° 00'W. 63 lks. dist., mkd.¼ S 28 B T
52.00	Leave timber, bears E. and W.
75.00	Enter timber, bears E. and W.
78.00	Leave timber.
80.30	The cor.of secs. 20,21,28, and 29.
	Land, nearly level.
	Soil, sand; 4th rate.
	Timber, cedar and some pinon pine.
	Undergrowth, sagebrush, scrub oak,mountain rush and oose.
	Land covered with dense undergrowth 80.30 chs.

N.0° 03'W.bet.secs.20 and 21,

	Through dense brush and scattering timber.
40.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 20 on W., 21 on E. face; from which
	A cedar, 24 ins.dia. bears S.80° E. 65 lks.dist. mkd.¼ S 21 B T
	No other trees available to mark; 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 a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for cor.of secs.16,17,20, and 21, mkd.T 42 S S 16 on NE.; R 7 W S 21 on SE.

Subdivision of T. 42 S., R. 7 W.

Chains	
	S 20 on SW., and
	S 17 on NW.faces; with 3 notches on the S. and 4 notches on the E.edges; from which
	A cedar, 14 ins.dia., bears N.51° E. 110 lks.dist. mkd.T 42 S R 7 W S 16 B T
	A cedar, 13 ins.dia., bears N.58° W. 175 lks.dist. mkd.T 42 S R 7 W S 17 B T
	A cedar 15 ins.dia., bears S.72° W. 150 lks. dist. mkd.T 42 S R 7 W S 20 B T
	A cedar, 14 ins.dia., bears S.72° E. 185 lks.dist. mkd.T 42 S R 7 W S 21 B T
	Land, nearly level.
	Soil, sand; 4th rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage, deer, and rabbit brush, scrub oak, mountain rush, and oose.
	Land covered with dense undergrowth 80.00 chs.
	June 10: At this cor.I set off 22° 59'N.on decl.arc; and at 11 h. 59 m.a.m.l.m.t.observe the sun on the meridian the resulting lat.is 37° 10'N.
	N.89° 58'E.on a random line bet.secs.16 and 21,
80.08	Intersect N. and S.line 11 lks. N.of the cor.of secs.15, 16,21, and 22. Thence I run
	N.89° 57'W.on a true line bet.secs.16 and 21,
	Along S.slope of Red Kholl; through dense brush and scattering timber.
.60	Top of ridge, bears N. and S. Descend abruptly.
5.50	Top of small ridge, bears N. and S.; descend abruptly.
8.00	Bottom of hollow, drains south.
	Ascend abruptly.
12.60	Top of ridge, bears N. and S.
	Descend abruptly.

Subdivision of T. 42 S., R. 7 W.

Chains.	
15.00	Bottom of small hollow, 10 ft.deep, drains S.
	Ascend.
18.50	Top of small ridge, bears N. and S.
	Ascend gradually over rolling country.
40.04	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 16 on N., 21 on S. face; from which
	A cedar, 8 ins.dia., bears N.50° E. 48 lks.dist. mkd.¼ S 16 B T
	A cedar, 12 ins.dia., bears S.70° W. 67 lks.dist. mkd.¼ S 21 B T
45.00	Leave scattering timber, bears N. and S.
50.00	Longvalley-Kanab road, bears N.20° W. and S.20° E.
63.00	Enter scattering timber, bears N. and S.
80.08	The cor.of secs.16,17,20, and 21.
	Land, level to hilly.
	Soil, sand; 4th rate.
	Timber, scattering cedar and some pinon pine.
	Undergrowth, sage, rabbit, and deer brush, mountain rush, and oose.
	Land covered with dense undergrowth 80.08 chs.

N.0° 03'W.bet.secs.16 and 17,

	Along small sand hill, bearing N. and S.; through dense brush and scattering timber.
40.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 17 on W., 16 on E. face; from which
	A cedar, 13 ins.dia., bears N.66° W. 10½ lks.dist. mkd.¼ S 17 B T
	A cedar, 9 ins.dia., bears N.46½° E. 12 lks.dist. mkd.¼ S 16 B T
80.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the

Chains. ground for cor.of secs.8,9.16, and 17, mkd.

T 42 S S 9 on NE.

R 7 W S 16 on SE.

S 17 on SW., and

S 8 on NW.faces, with 4 notches on the S. and E. edges; from which

A cedar, 18 ins.dia., bears S.55° W. 29 lks.dist. mkd.T 42 S R 7 W S 17 B T

A cedar, 14 ins.dia., bears N.60° E. 167 lks.dist. mkd.T 42 S R 7 W S 9 B T

No other trees available to mark; 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 sand; 4th rate.

Timber, cedar, and a few pinon pine.

Undergrowth, sage and deer brush, mountain rush, scrub oak, and oose.

Land covered with dense undergrowth 80.00 chs.

S.89° 57'E.on a random line bet.secs.9 and 16,

40.00 Set temp. ¼ sec.cor.

80.10 Intersect N. and S.line 7 lks.N.of the cor.of secs.9, 10,15, and 16. Thence I run

N.89° 54'W.on a true line bet.secs.9 and 16,

Over nearly level land; through brush.

40.05 Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 9 on N., 16 on S. face; from which

A cedar 18 ins.dia.bears S.40° E. 131 lks.dist. mkd.¼ S 16 B T

A cedar 17 ins.dia.,bears N.27° W.152 lks.dist. mkd.¼ S 9 B T

Subdivision of T. 42 S., R. 7 W.

Chains.	
71.00	Road to Kanab, bears N. and S.
80.10	The cor.of secs.8,9.16, and 17.
	Land, nearly level.
	Soil, sand; 4th rate.
	Timber, cedar and some pinon pine.
	Undergrowth, sage, rabbit, and deer brush, mountain rush, and scrub oak.
	Land, covered with dense undergrowth 80.10 chs.

N.0° 03'W.bet.secs.8 and 9

	Through dense brush and scattering cedar.
40.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., marked ¼ S 8 on W., ¾ on E. face; from which
	A cedar, 16 ins.dia., bears N.75° W. 100 lks.dist. mkd.¼ S 8 B T
	A cedar 14 ins.dia., bears N.40° E. 250 lks.dist. mkd.¼ S 9 B T
	Ascend gradually.
51.00	Top of bench or plateau, bears E. and W.
52.00	Road to Kanab, bears northerly and southerly.
80.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for cor.of secs.4,5,8, and 9, mkd.
	T 42 S S 4 on NE.
	R 7W S 9 on SE.
	S 8 on SW., and
	S 5 on NW.faces, with 5 notches on the S. and 4 notches on the E.edges; from which
	A cedar, 13 ins.dia., bears N.49° E. 116 lks.dist. mkd.T 42 S R 7 W S 4 B.T
	A cedar 9 ins.dia., bears S.17° 15'E. 54 lks.dist. mkd.T 42 S R 7 W S 9 B T
	No other trees available to mark; dig pits 18 x 18 x

Chains	
	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 to rolling.
	Soil, deep sand; 4th rate.
	Timber, scattering cedar.
	Undergrowth, sage, rabbit, and deer brush, scrub oak, and oose.
	Land, covered with dense undergrowth 80.00 chs.
	S.89° 54'E.on a random line bet.secs.4 and 9,
40.00	Set temp. ¼ sec.cor.
80.08	Intersect N. and S.line 3 lks.N.of the cor.of secs.3,4, 9, and 10. Thence I run
	N.89° 53'W.on a true line bet.secs.4 and 9,
	Descend gradually through heavy brush,scattering timber.
22.00	Telephone line,Longvalley to Kanab,bears NW. and SE.
40.04	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 4 on N., 9 on S.face; from which
	A cedar, 12 ins.dia., bears N.28° W. 157 lks.dist. mkd.¼ S 4 B T
	A cedar, 12 ins.dia., bears S.39° E. 79 lks.dist. mkd.¼ S 9 B T
68.00	Road to Kanab from Longvalley, bears N.42° W. and S. 52° E.
80.08	The cor.of secs.4,5,8, and 9.
	Land, nearly level.
	Soil, sand; 4th rate.
	Timber, scattering cedar.
	Undergrowth sage, rabbit, and deer brush, mountain rush, and oose.
	Land covered with dense undergrowth 80.08 chs.

Chains.

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

40.00 Set temp. ¼ sec.cor.

76.97 Intersect N.bdy.of Tp. 18 lks.W.of the cor.of secs.4,5, 32, and 33, set by myself, and heretofore described.

Thence I run

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

Through heavy brush and scattering timber.

5.59 Descend abruptly into dry wash, 50 ft.deep, drains SW.

7.64 S.edge of wash.

10.00 Descend abruptly into wash,25 ft.deep, drains SW.

12.50 S.edge of wash

14.00 Descend abruptly into wash, 30 ft.deep, drains W.

15.50 S.side of wash; descend gradually.

19.47 Telephone line,Longvalley to Kanab, bears NW. and SE.

36.97 Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 5 on W., 4 on E.face; from which

A cedar,10 ins.dia., bears N.45° W. 176 lks.dist. mkd.¼ S 5 B T

No other trees available to mark; 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.

62.50 Road from Longvalley to Kanab, bears NW. and SE.

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

Land, rolling and broken.

Soil, sand; 4th rate.

Timber, scattering cedar and some pinon pine.

Undergrowth, sagebrush, mountain rush, scrub oak, and some oose.

Land covered with dense undergrowth 76.97 chs.

June 10, 1907.

June 11: At 6 h. 59m.a.m.l.m.t.I set off 37° 07'N.on the lat.arc; 25° 03'N.on the decl.arc; and determine

Chains	
	a meridian with the solar at the cor.of secs.5,6,31 and 32, on S.bdy.of Tp., heretofore described.
	Thence I run
	N.0° 03'W.bet.secs.31 and 32,
	Descending gradually along E.slope of hill; through dense brush and medium heavy timber.
32.00	Leave timber, bears E. and W.
39.00	Small valley at foot of hill.
40.00	Set a sandstone 20 x 12 x 3 ins., 15 ins.in the ground for ¼ sec.cor., mkd. ¼ on W.face; from which
	A pinon pine, 16 ins.dia., bears N.2° 30'E. 79 lks.dist., mkd ¼ S 32 B T
	No other trees available to mark; dig pits 18 x 18 x 12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
44.00	Ascend gradually; enter scattering timber.
64.50	Descend abruptly along W.slope of ridge, bears N.20°E. and S.20° W.
80.00	Foot of ridge,
	Set a cedar post 3 ft.long, 4 ins.sq., with mkd.stone, 24 ins.in the ground, for cor.of secs.29,30,31, and 32. mkd.
	T 42 S S 29 on NE.
	R 7 W S 32 on SE.,
	S 31 on SW., and
	S 30 on NW.faces; with 1 notch on S. and 5 notches on E.edges; and raise a mound of stone 3½ ft.base, 1 ½ ft.high W.of cor.Pits impracticable.
	Land, hilly.
	Soil, sand with sandstone outcrops; 4th rate.
	Timber, scattering cedar and pinon pine.
	Undergrowth, sage and deer brush, mountain rush, scrub oak, and some oose.
	Land covered with dense undergrowth 80.00 chs.

Subdivision of T. 42 S., R. 17 W.

Chains.	
	East on a random line bet.secs.29 and 32,
40.00	Set temp. ¼ sec.cor.
79.90	Intersect N. and S.line at the cor.of secs.28,29,32, and 33. Thence I run
	West on a true line bet.secs.29 and 32,
	Through heavy brush and scattering timber.
39.95	Set a cedar post 3 ft.long, 4 ins.sq ., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 29 on N., 32 on S. face; from which
	A cedar 17 ins.dia. bears N.30° E. 105 lks.dist. mkd.¼ S 29 B T
	A cedar, 16 ins.dia., bears S.54° E. 300 lks.dist. mkd.¼ S 32 B T
74.00	Descend from plateau, bears N. and S.
76.80	Top of ridge, 20 ft.high, bears S.20° W. and N.20° E.
	Descend abruptly into small valley, drains S.20° W.
79.90	The cor.of secs.29,30,31, and 32.
	Land, level to hilly.
	Soil, sand; 4th rate.
	Timber, scattering cedar.
	Undergrowth sagebrush,mountain rush,scrub oak and ocse.
	Land covered with dense undergrowth 79.90 chs.

	West on a random line bet.secs.30 and 31,
40.00	Set temp. ¼ sec.cor.
78.46	Intersect W.bdy.of Tp. at the cor.of secs.25,30,31, and 36, set by me and heretofore described.
	Thence I run
	East on a true line bet.secs.30 and 31,
	Through heavy brush.
4.40	Road to St.George and Moccasin Springs, from Kanab, bears SE. and NW.
20.00	Ascend.

Subdivision of T. 42 S., R. 7 W.

Chains.	
33.50	Top of hill, bears N. and S.
	Descend gradually.
38.46	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 30 on N., 31 on S. face; from which
	A cedar, 14 ins.dia., bears N.6° E. 170 lks.dist. mkd.¼ S 30 B T
	A cedar, 18 ins.dia., bears S.46° E. 167 lks.dist. mkd.¼ S 31 B T
43.50	Foot of hill; ascend abruptly.
60.50	Top of hill, bears N. and S.
	Descend abruptly to valley.
65.50	Foot of hill; enter small valley drains S.20° E.
78.46	The cor.of secs.29,30,31, and 32.
	Land, rolling to hilly.
	Soil, sand on hills and sandy clay in the valleys;3d and 4th rate.
	Timber, scattering cedar and a few pinon pine.
	Undergrowth, sage and rabbit brush, Brigham-tea, oose, and scrub oak.
	Land covered with dense undergrowth 78.46 chs.

N.0° 03'W.bet.secs.29 and 30,

	Through dense brush.
34.48	Descend into small gulch, 20 ft.deep, drains W.
35.50	Bottom of gulch; ascend abruptly.
37.00	Top of ridge, bears E. and W.
	Descend.
40.00	Set a sandstone 24 x 8 x 4 ins., 18 ins.in the ground for ¼ sec.cor., mkd.¼ on W.face; dig pits 18 x 18 x 12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

Subdivision of T. 42 S., R. 7 W.

Chains. Descend gradually to level ground.

80.00 Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for cor.of secs.19,20,29, and 30, mkd.

T 42 S S 20 on NE.

R 7 W S 29 on SE.,

S 30 on SW., and

S 19 on NW.faces; with 2 notches on S. and 3 notches on E.edges; from which

A cedar, 14 ins.dia., bears S.4° 30'W. 250 lks. dist., mkd.T 42 S R 7 W S 30 B T

A cedar, 18 ins.dia., bears N.45° 30'W. 348 lks. dist., mkd.T 42 S R 7 W S 19 B T

A cedar 16 ins.dia.bears N.35° E. 423 lks.dist. mkd.T 42 S R 7 W S 20 B T

A cedar 10 ins.dia.bears S.35° E.288 lks.dist. mkd.T 42 S R 7 W S 29 B T

Land, hilly to level.

Soil, sand; 4th rate.

Timber, scattering cedar and some pinon pine.

Undergrowth, sage and deer brush, mountain rush, scrub oak, and some ooze.

Land, covered with dense undergrowth 80.00 chs.

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

40.00 Set temp.¼ sec.cor.

29.86 Intersect N. and S.line 6 lks.N.of the cor.of secs.20,21, 28, and 29. Thence I run

N.89° 57'W.on a true line bet.secs.20 and 29.

Through dense brush and scattering timber.

17.50 Leave level land; ascend.

18.75 Descend abruptly and leave plateau.

39.93 Set a red sandstone 6 x 8 x 18 ins., 8 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; from which

Subdivision of T. 42 S., R. 7 W.

Chains.	
	A cedar 9 ins.dia.bears S.22° 30'E. 85 lks.dist. mkd.$\frac{1}{2}$ S 29 B T
	A cedar 12 ins.dia., bears N.78° 30'E. 137 lks. dist., mkd.$\frac{1}{2}$ S 20 B T
79.86	The cor.of secs.19,20,29, and 30.
	Land, mountainous and rolling to level.
	Soil, sand with sandstone outcrops; 4th rate.
	Timber, cedar and pine.
	Undergrowth, sage and deer brush, mountain rush, scrub oak, and oose.
	Mountaincus land, or land covered with dense undergrowth 79.86 chs.
	West on a random line bet.secs.19 and 30,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
78.40	Intersect W.bdy.of Tp.9 lks.N.of the cor.of secs.19,24, 25 and 30, set by me and heretofore described.
	Thence I run
	N.89° 56'E.on a true line bet.secs.19 and 30,
	Ascending through dense brush and scattering timber.
7.50	Top of ridge, bears N.15° E. and S.15° W.
	Descend gradually.
27.50	Small dry wash 8 ft.deep, drains N.10° E.
	Ascend.
38.40	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.$\frac{1}{4}$ S 19 on N., 30 on S. face; from which
	A cedar 20 ins.diam.bears N.80° E. 182 lks.dist. mkd.$\frac{1}{4}$ S 19 B T
	A cedar 14 ins.dia.bears S.85° E. 143 lks.dist. mkd.$\frac{1}{4}$ S 30 B T
78.40	The cor.of secs.19,20,29, and 30.

Subdivision of T. 42 S., R. 7 W.

Chains. Land, nearly level.

Soil. sand; 4th rate.

Timber, cedar and few pines.

Undergrowth, sage, deer, and oak brush, and mountain rush.

Land, covered with dense undergrowth 78.40 chs.

June 11: At this cor. I set off 23° 03' N. on the decl. arc; and at 11 h. 59 m. a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 37° 09' N.

N. 0° 03' W. bet. secs. 19 and 20.

Through dense brush and scattering cedar; level ground.

8.00 Leave cedars, bear E. and W.

40.00 Set a cedar post 3 ft. long, 4 ins. sq., with mkd. stone 24 ins. in the ground, for ¼ sec. cor., mkd. ¼ S 19 on W., 20 on E. face; from which

A cedar 7 ins. dia., bears N. 29° W. 160 lks. dist. mkd. ¼ S 19 B T

No other trees available to mark; 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 a sandstone 30 x 8 x 3 ins., 22 ins. in the ground, for cor. of secs. 17, 18, 19, and 20, marked with 3 notches on S. and 3 notches on E. edges; from which

A cedar 8 ins. dia. bears S. 62° E. 227½ lks. dist., mkd. T 42 S R 7 W S 20 B T

No other trees available to mark; 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, sand; 4th rate.

Timber, very scattering cedar.

Undergrowth, sage, rabbit, and deer brush, mountain rush, and scrub oak.

Chains. Land covered with dense undergrowth 80.00 chs.

S.89° 57'E.on a random line bet.secs.17 and 20,

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

79.90 Intersect the N. and S.line 5 lks.S.of the cor.of secs. 16,17,20, and 21. Thence I run

N.89° 59'W.on a true line bet.secs.17 and 20,

Through dense brush and heavy timber.

13.00 Descend from plateau, bears N. and S.

14.00 Leave heavy timber, bears N. and S.

23.00 Bottom of hill or plateau.

39.95 Set a cedar post 3 ft.long, 4 ins.sq., with mkd.stone 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.$\frac{1}{4}$ S 17 on N., 20 on S.face; dig pits 18 x 18 x 12 ins.E. and W. of post 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.high N.of cor.

Ascend gradually.

63.50 Top of small ridge, 15 ft.high bears N. and S.Desc.

68.50 Bottom of ridge; thence over level land.

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

Land, level to hilly.

Soil, sand and some sandy clay; 4th rate.

Timber, cedar and pinon pine.

Undergrowth, sage and deer brush, Brigham-tea, scrub oak, old-man, and oose.

Land, covered with dense undergrowth 79.90 chs.

S.89° 56'W.on a random line bet.secs.18 and 19,

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

78.38 Intersect W.bdy.of Tp.5 lks.S.of the cor.of secs.13,18, 19 and 24, set by me and heretofore described.

Thence I run

N.89° 58'E.on a true line bet.secs.18 and 19,

Subdivision of T. 42 S., R. 7 W.

Over fairly level ground; through dense brush.

Chains.

38.38 Set a cedar post 3 ft.long, 4 ins.sq., with charred stake, 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.$\frac{1}{4}$ S 18 on N., 19 on S.face; dig pits 18 x 18 x 12 ins.E. and W.of post 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

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

Land, nearly level.

Soil, sand and sandy clay; 3d and 4th rate.

No timber.

Undergrowth sage, rabbit, and deer brush, mountain rush --scrub oak, and oose.

Land covered with dense undergrowth 78.38 chs.

N.0° 03'W.bet.secs.17 and 18,.

Through dense brush.

40.00 Set a cedar post 3 ft.long, 4 ins.sq., with charred stake, 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.$\frac{1}{4}$ S 18 on W., 17 on E.face; dig pits 18 x 18 x 12 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.

80.00 Set a cedar post 3 ft.long, 4 ins.sq., with charred stake, 24 ins.in the ground, for cor.of secs.7,8,17 and 18, mkd.

T 42 S S 8 on NE.

R 7 W S 17 on SE.

S 18 on SW., and

S 7 on NW.faces; with 4 notches on the S. and 5 notches on the E.edges; dig pits 18 x 18 x 12 ins.in each sec.$5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, nearly level.

Soil, sand and sandy clay; 2d and 4th rate.

Chains.	No timber. Undergrowth, sage and rabbit brush, mountain rush, scrub oak , and oose. Land covered with dense undergrowth 80.00 chs.
	June 11, 1907: At 3 h. 59 m.p.m.l.m.t.I set off 37° 10' N.on the lat.arc; 23° 04'N.on the decl.arc; and determine a meridian with the solar at the cor.of secs. 7,8,17, and 18. Thence I run S.89°59'E.on a random line bet.secs.8 and 17,
40.00	Set temp. ¼ sec.cor.
79.98	Intersect the N. and S.line 5 lks.N.of the cor.of secs. 8,9,16, and 17. Thence I run N.89° 57'W.on a true line bet.secs.8 and 17, Through dense brush.
39.99	Set a cedar post, 3 ft.long, 4 ins.sq., with mkd.stone 24 ins.in the ground for ¼ sec.cor., mkd.¼ S on N., 17 on S.face; 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.7,8,17, and 18. Land, slopes gently to west. Soil, sandy; 4th rate. No timber. Undergrowth, sage, rabbit and deer brush, mountain rush, and scrub oak.and oose. Land covered with dense undergrowth 79.98 chs.
	S.89° 58'W.on a random line bet.secs.7 and 18,
40.00	Set temp. ¼ sec.cor.
78.46	Intersect W.bdy.of Tp. 8[illegible] lks.S.of the cor.of secs.7,12 13, and 18 heretofore described.

Subdivision of T. 42 S., R. 7 W.

Chains.	
	Thence I run
	S.89° 59'E.on a true line bet.secs.7 and 18,
	Over fairly level land; through heavy brush.
38.46	Set a cedar post 3 ft.long, 4 ins.sq., with mkd.stone, 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 7 on N. 18 on S.face; 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.
70.00	Road from Longvalley to St.George and Moccasin, bears NE. and SW.
78.46	The cor.of secs.7,8,17, and 18.
	Land, nearly level.
	Soil, sand and sandy clay; 3d and 4th rates.
	No timber.
	Undergrowth, sage, rabbit and deer brush, mountain rush, scrub oak, and oose.
	Land, covered with dense undergrowth 78.46 chs.
	June 11, 1907.
	June 12, 1907: At 8 h. 59 m.a.m.l.m.t.I set off 37° 10' N.on the lat.arc; 23° 7'N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.7,8,17, and 18. Thence I run
	N.0° 03'W. bet.secs.7 and 8,
	Ascend gradually through dense brush.
7.00	Road to St.George and Moccasin, bears N.48° E. and S. 50° W., from Longvalley.
32.00	Shearing corral bears E. 5.00 chs.dist.
38.00	Road to shearing corral, bears N.30° W. and S.30° E.
40.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 7 on W., 8 on E.face; from which
	A cedar, 6 ins.dia., bears N.61° E. 103 lks.dist. mkd.¼ S 8 B T

Chains	
	No other bearing trees within limits; dig pits 18 x 18 x 12 ins.N. and S.of post 3 ft.dist., and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
53.00	Descend slightly.
54.50	Dry wash, 15 ft.deep, 75 lks.wide, drains S.20° W. Road in bottom, bears N.20° E. and S.20° W.
55.25	Ascend.
80.00	Set a cedar post 3 ft.long, 4 ins.sq., 24 ins.in the ground, for cor.of secs.5,6,7, and 8, mkd. T 42 S S 5 on NE. R 7 W S 8 on SE., S 7 on SW., and S 6 on NW.faces, with 5 notches on the S. and E. edges; from which
	A cedar, 18 ins.dia., bears S.29° 10'W. 72 lks. dist., mkd.T 42 S R 7 W S 7 B T
	A cedar, 12 ins.dia., bears N.71° E. 100 lks.dist. mkd.T 42 S R 7 W S 5 B T
	A cedar, 18 ins.dia., bears N.41° 15'W. 282 lks. dist., mkd.T 42 S R 7 W S 6 B T
	A cedar, 15 ins.dia., bears S.37° 45'E. 102 lks. dist., mkd. T 42 S R 7 W S 8 B T
	Land, level to hilly.
	Soil, sand, and sandy clay; 4th and 3d rates.
	Timber, a few scattering cedars.
	Undergrowth sage, rabbit, mountain rush, deer, scrub oak, and oose.
	Land, covered with dense undergrowth 80.00 chs.

	S.89° 57'E.on a random line bet.secs.5 and 8,
40.00	Set temp. ¼ sec.cor.
80.05	Intersect N. and S.line 5 lks.N.of the cor.of secs.4,5, 8, and 9. Thence I run

Subdivision T. 42 S., R. 7 W.

Chains.	
	N.89° 55'W.on true line bet.secs.5 and 8,
	Through dense brush and scattering timber.
27.00	Road,Longvalley to Kanab and Cottonwood,bears N.and S.
40.02½	Set a cedar post 3 ft.long, 4 ins.sq.,with mkd.stone, 24 ins.in the ground,for ¼ sec.cor., mkd.¼ S 5 on N. 8 on S.face;dig pits 18x18x12 ins.E.and W.of post 3 ft.dist.;and raise mound of earth 3½ ft.base, 1½ ft. high N.of cor.
58.40	Road,Longvalley to St.George and Moccasin Springs bears N. and S.
72.00	Ascend abruptly.
74.90	Top of ridge,20 ft.high,bears S.48°W.and N.48°E.Descend.
80.05	The cor.of secs.5,6,7, and 8.
	Land, nearly level.
	Soil, sand;4th rate. Timber a few cedars.
	Undergrowth sage,rabbit,and deer brush,mountain rush and oose.
	Land, covered with dense undergrowth 80.05 chs.

	N.89° 59'W.on a random line bet.secs.6 and 7,
40.00	Set temp.¼ sec.cor.
78.38	Intersect W.bdy.of Tp.11 lks.N.of cor.of secs.1,6,7, and 12, heretofore described. Thence I run
	N.89°56'E.on a true line bet.secs.6 and 7,
	Ascend through dense brush and scattering timber.
16.00	Top of hill, bears N. and S. Descend.
38.38	Set a cedar post 3 ft.long, 4 ins.sq.,with mkd.stone 24 ins.in the ground, for ¼ sec.cor., mkd.¼ S 6 on N. 7 on S.face; dig pits 18 x 18 x 12 ins.E. and W.of post 3 ft.dist.; and raise a mound of earth 3½ ft. base, 1½ ft.high N.of cor.
47.50	Top of hill, bears N. and S. Descend abruptly.
52.50	Foot of hill;150 ft.high; ascend abruptly.
56.00	Top of point of hill, bears N. and S.Descend abruptly.

Chains.	
78.38	The cor.of secs.5,6,7, and 8.
	Land, rolling to hilly.
	Soil, sand;4th rate.
	Timber, scattering cedar.
	Undergrowth, sage,rabbit, and deer brush, scrub oak, and some oose.
	Land covered with dense undergrowth 78.38 chs.
	N.0° 03'W.on a random line bet.secs.5 and 6,
40.00	Set temp.¼ sec.cor.
76.96	Intersect the N.bdy.of Tp.14 lks.E.of the cor.of secs. 5,6,31, and 32, heretofore described.
	Thence I run
	S.0° 09'E.on a true line bet.secs.5 and 6,
	Ascend through dense brush, and medium heavy timber.
23.45	Top of hill, bears N. and S.;descend abruptly.
34.00	Bottom of hill.
36.96	Set a limestone 20 x 10 x 4 ins., 15 ins.in the ground for ¼sec.cor.,mkd.¼ on W.face; from which
	A cedar, 18 ins.dia., bears N.36° W. 30 lks.dist. mkd. ¼ S 6 B T
	A cedar, 10 ins.dia., bears S.84° 15'E. 131 lks. mkd.¼ S 5 B T
46.00	Bottom of wash, 75 ft.deep, drains W. into gulch that drains NW. Ascend abruptly.
50.00	Leave gulch, and descend gradually.
76.96	The cor.of secs.5,6,7, and 8.
	Land, rough and hilly.
	Soil,sand and gravelly;4th rate.
	Timber, scattering cedar and some pinon pine.
	Undergrowth sage, deer brush,mountain rush and scrub oak.
	Land covered with dense undergrowth, or mountains 76.96 chs. June 12, 1907.

General Description of T. 42 S. R. 7 W.

The township consists mainly of a high broken plateau running South, with slopes to the east and west, from White Mountain, a mesa like line of high hills abutting along the north boundary from secs. 1 to 5.

The soil is all sand, 4th rate, except for a small valley along the west boundary, known as Clay Valley, which contains a sandy clay soil of 2nd and 3rd rate that could be made productive if water could be had.

There is no water in the township save for a small amount in Cave Lake Canyon, which is used to supply water for a small strip of land in the canyon.

There is very little timber, it being mostly cedar. No pinon pine of value, other than for fuel, exists.

There is a fair quantity of grass in the township also a heavy growth of brush including sage, brigham-tea mountain rush, deer, scrub oak, oose, and old man, making a good open range for sheep.

There is one settler in Sec. 25 it being the only sec. in which there is any water. The settler is Edward Lamb who purchased what is known as Cave Lake Ranch from M. M. Emmett. The land is not fenced but is bounded by the canyon walls, and runs from about the middle of sec. 26 through the greater part of sec. 25, varying in width from 5.00 to 15.00 or 20.00 chains. The improvements on this ranch consist of a house, orchard, stable, and corral, and fences dividing meadow, pasture, and farming land; all being assessed at $650. Not seen from line.

Two immense pastures have been fenced in; one including the whole of sec. 36 and the greater part of sec. 35 and running into the townships south and east, and is owned by Taylor Crosby; the other runs from Cave Lake Canyon north and including part of secs. 25 and 26 also most of sec. 24 south of Three Lakes Canyon ,

and is owned by Edward Lamb.

J. S. Emmett's land claim, now owned by Taylor Crosby, is known as Cottonwood Ranch, and lies in Cottonwood Canyon in T. 43 S. R. 7 W. in secs. 2 and 3 approximately. W. M. Johnson purchased the Cottonwood Ranch from J. S. Emmett and sold it to Taylor Crosby. The fenced pasture south of Cave Lake Canyon is suppose to be a part of this claim.

John H. Clark
Compassman for
William Lewman, D.S., Deceased

There being no Notary Public or other public officer authorized to administer oaths, within a reasonable distance and as great delay and expense would be entailed in going before one I administer the preliminary oaths to the assistants in the survey of the Subdivisions of Township 42 South, Range 7 West .

John H. Clark

U.S. Deputy Surveyor.

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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 John H. Clark, Compassman for William Newman, deceased, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the correction survey of the Subdivision of Township 4 South of Range 7 West of the Salt Lake Base and Meridian showing the respective capacities in which they acted:

Sam Clark, Chainman.
James T. Daly, Chainman.
Sam Clark, Moundman.
James T. Daly, Moundman.
Stephen E. Hartley, Axman.
, Axman.
Ernest L. Hancock, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John H. Clark, Compassman for William Newman, deceased, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Township 4 South of Range 7 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.

Sam Clark, Chainman.
James T. Daly, Chainman.
Sam Clark, Moundman.
James T. Daly, Moundman.
Stephen E. Hartley, Axman.
, Axman.
Ernest L. Hancock, Flagman.

Subscribed and sworn to before me this 12 day of September, 1905.

SEAL

W. T. Dobson
Clerk, Dist. Court.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John H. Clark, Compassman for William Lewman, deceased, United States Deputy Survey solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for Utah, bearing date 23 day of January, 1899, I have well, faithfully, and truly, in m proper person, and in strict conformity with the instructions furnished by the United States Su General for Utah, the Manual of Surveying Instructions, and the laws United States, surveyed all those parts or portions of the subdivisions of Township 42 South of Range 7 West of the Salt Lake base and meridian, in the State of Utah, which are represented foregoing field notes as having been surveyed by me, and under my direction; and I do further sol swear that all the corners of said survey have been established and perpetuated in strict accordanc the Manual of Surveying Instructions, and the special written instructions of the United States Su General for Utah and in the specific manner described in the field notes, ar the foregoing are the original field notes of such survey.

John H. Clark, Compassman
William Lewman, deceased
United States Deputy Su

Subscribed by said John H. Clark, and sworn to before me this 12 day of September, 190 8.

W. T. Dobson
Clerk Dist. Cou

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Oct. 23,

The foregoing field notes of the survey of the subdivisional lines of Towns 42 South, Range No. 7 West of the Salt Lake Base and Meridian, Utah,

executed by John H. Clark, Compassman for William Lewman, deceased, under his contract No. 225, dated January 23, 1899, 190 , havin critically examined, and the necessary corrections and explanations made, the said field notes, a surveys they describe, are hereby approved.

Thomas Kell
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 off

United States Surveyor Ge

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BOOK A-366

A.

FIELD NOTES

13.13.

Retracement
OF THE ~~SURVEY~~ OF THE

EAST BOUNDARY

of

Township No.36 South, Range No.11 West,

Of the Salt Lake Base and *Meridian,*

State of Utah

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

der his Contract No. 304, *dated* May 14, 1908. ~~190x~~

tracement
~~rvey~~ *commenced* June 21, 1908. ~~190x~~

tracement
~~rvey~~ *completed* June 30, 1908. ~~190~~

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3-79-66

BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M.Woodbury	Moundman
N.Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

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BOOK A-366

INDEX DIAGRAM.

Township 36 South, *Range* 11 West

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				2	3	

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PRELIMINARY OATHS OF ASSISTANTS.

We, Menzies Macfarlane and Reuben Stratton 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~~ retracement of E.and S.bdys. T.36 S.,R.11 W.;E.bdy.T.37 S.,R.10 W.;S.bdy.T.39 S.,R.4 W.;N.and E.bdys.T.40 S.,R.8 W.;and N.bdy.T.40 S.,R.10 W.,Salt Lake Base and Meridian, Utah.

Menzies Macfarlane, Chainman.

Reuben Stratton, Chainman.

Subscribed and sworn to before me this 20th day of June, 1908.

SEAL

Leo A. Snow
U.S.Deputy Surveyor

We, Angus M.Woodbury and N.Henry Savage 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~~ retracement of E.and S.bdys.T.36 S.,R.11 W.,E.bdy.T.37 S.,R.10 W.,S.bdy.T.39 S.,R.4 W.,N.and E.bdys.T.40 S.,R.8 W.,and N.bdy.T.40 S.,R.10 W.,Salt Lake Base and Meridian, Utah.

Angus M. Woodbury, Moundman.

N. Henry Savage, Moundman.

Subscribed and sworn to before me this 20th day of June, 1908.

SEAL

Leo A. Snow
U.S.Deputy Surveyor.

We, Rass Macfarlane and Samuel Brooks 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~~ retracement of E.and S.bdys.T.36 S.,R.11 W.,E.bdy.T.37 S.,R.10 W.,S.bdy.T.39 S.,R.4 W.,N.and E.bdys.T.40 S.,R.8 W.,and N.bdy.T.40 S.,R.10 W.,Salt Lake Base and Meridian, Utah.

Rass Macfarlane, Axman.

Samuel Brooks, Axman.

Subscribed and sworn to before me this 20th day of June, 1908.

SEAL

Leo A. Snow
U.S.Deputy Surveyor.

I, Grant Gregerson, 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~~ retracement of E.and S.bdys.T.36 S.,R.11 W.,E.bdy.T.37 S.,R.10 W.,S.bdy.T.39 S.,R.4 W.,N.and E.bdys.T.40 S.,R.8 W.,and N.bdy.T.40 S.,R.10 W.,Salt Lake Base and Meridian, Utah.

Grant Gregerson, Flagman.

Subscribed and sworn to before me this 20th day of June, 1908.

SEAL

Leo A. Snow
~~U.S.Deputy Surveyor~~.

6—151

Retracement of E.Bdy.T.36 S., R. 11 W.

Chains.

Survey commenced June 21, 1908, and executed with a Young and Sons light mountain transit, No.7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, June 8, 1908.

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

At the cor.of Tps.36 and 37 S.,Rs.10 and 11 W.latitude 37° 38' 11" N.; longitude 112° 59' 08" W., I set off 37°38'N.on the lat.arc; 23°27' N.on the decl.arc;and at 3 h. 2 m.p.m.l.m.t.I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground 5.00 chs.N.of the cor.

June 21, 1908.

June 22: At 1 h. 30 m.a.m.l.m.t.I observe Polaris at eastern elongation, in accordance with the Manual and mark a point in the line thus determined by a tack in a wooden plug set in the ground, 5.00 chs.N.of the cor.

At 6 h. 30 m.a.m.l.m.t., I lay off the azimuth of Polaris 1° 29' to the west, and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor.; this

Retracement of E.Bdy. T.36 S., R. 11 W.-Continued.

Chains. mark falls 0.28 ins.east of the meridian determined with the solar.

At 7 h. 2 m.a.m.l.m.t., I set off 37° 38'N.on the lat. arc, 23° 28'N.on the decl.arc; and mark the meridian determined with the solar by a cross on the stone already set 5.00 chs.N.of the cor.: this mark falls 0.35 ins.east of the meridian determined by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0' 14"west and 0' 18" east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h.30 m.a.m.is N.16° 15'W.; the angle thus determined gives the mag. decl.16° 15'E.

From said cor.of Tps.36 and 37 S., Rs.10 and 11 W., which is a black volcanic stone 6 x 8 x 8 ins.above ground, firmly set and mkd.and witnessed as described by the surveyor general, I run

N.0° 7'W.on retracement line bet.secs.31 and 36,

41.00 The ¼ sec.cor.bet.secs.31 and 36, which is a limestone 8 x 12 x 6 ins., in mound of stone, mkd.and witnessed as described by the surveyor general.

82.93 Intersect the cor.of secs.25,30,31, and 36, which is a sandstone 5 x 8 x 6 ins., in mound of stone, mkd.and witnessed as described by the surveyor general.

The course of this line is therefore N.0° 7'W., 82.93 chs.

No change in topography from original notes.

June 22, 1908: At this cor.I set off 23° 27'N.on the decl.arc; and at 0 h. 2 m.p.m.l.m.t., I observe the

Retracement of E.bdy.of T.36 S., R. 11 W.-Continued.

Chains.	
	sun on the meridian; the resulting lat.is 37° 39'N., which is the proper lat.nearly.
	N.0° 7'W.on a retracement line bet.secs.25 and 30,
40.75	Intersect the ¼ sec.cor.bet.secs.25 and 30, which is a limestone 6 x 10 x 6 ins., in mound of stone, mkd.and witnessed as described by the surveyor general.
77.01	Intersect the witness cor.of secs.19.24.25, and 30,which is a sandstone 6 x 12 x 6 ins.above ground, firmly set and mkd.and witnessed as described by the surveyor general.
	The course of this line is therefore N.0° 7'W.
	No change in topography from original notes except this witness cor.
81.51	Point for cor.of secs.19.24.25, and 30, (being 4.50 chs. N.of the witness cor.according to the old notes.)
	The distance on this line is therefore 81.51 chs.
	N.0° 7'W.on retracement line bet.secs.19 and 24, (from the 81.51 chs.point on last line)
4.10	Fall 1 lk.E.of the witness cor.to cor.of secs.19.24.25, and 30, which is a sandstone 5 x 10 x 8 ins.in mound of stone firmly set and mkd.and witnessed as described by the surveyor general.
40.10	Fall 12 lks.E.of the ¼ sec.cor.bet.secs.19 and 24, which is a sandstone 5 x 10 x 6 ins.,in mound of stone firmly set and mkd.and witnessed as described by the surveyor general.
80.22	Fall 23 lks.E.of the cor.of secs.13.18.19, and 24, which is a sandstone 5 x 12 x 4 ins.above ground, firmly set and mkd.and witnessed as described by the survey-

Retracement of E.Bdy.of T. 36 S., R. 11 W.- Continued.

Chains. for general.

The course of this line is therefore N.0° 17'W. 80.22 chs.

No change in topography from original notes.

June 22, 1908.

June 30, 1908: At 7 h. 3 m.a.m.l.m.t.I set off 37° 42' N.on the lat.arc; 23° 12'N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.7, 12,13, and 18 on E.bdy.of Tp., which is a sandstone 10 x 12 x 4 ins. in mound of stone, firmly set, and mkd.and witnessed as described by the surveyor general

Thence I run

North on retracement line bet.secs.7 and 12,

40.08 Intersect the ¼ sec.cor.bet.secs.7 and 12, which is a sandstone 5 x 10 x 6 ins.above ground, firmly set and mkd.and witnessed as described by the surveyor general.

75.00 Intersect the cor.of secs.6 and 7, heretofore described.

The course of this line is therefore north 75.00 chs.

No change in topography from original notes.

June 30, 1908.

Geo. A. Shaw

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and

rking the lines and corners described in the foregoing field notes of the survey of .....

.....

wing the respective capacities in which they acted:

r list of names and final affidavits of assistants see book *Chainman.*

"T" T.40 S., R. 10 W. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

ose parts or portions of the .....

.....

.....

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

..... meridian, ... of ....., which are represented

the foregoing field notes as having been surveyed by him and under his direction; and that said survey

s been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

rner monuments established, according to the instructions furnished by the United States Surveyor

eneral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

For final affidavit see book "I" T.40 S., R. 10 W.

..... of the ..... meridian, in the ..... of ....., which are represented in t foregoing field notes as having been surveyed by me, and under my direction; and I do further solem swear that all the corners of said survey have been established and perpetuated in strict accordance wi the Manual of Surveying Instructions, and the special written instructions of the United States Survey General for ..... and in the specific manner described in the field notes, and th the foregoing are the original field notes of such survey; and should any fraud be detected, I will suff the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....
United States Deputy Surveyo

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, June 25, 190 9

The foregoing field notes of the ~~survey of~~ retracement of the East Boundary of Township No. 36 South, Range No. 11 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A. Snow under his contract No. 304, dated May 14, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys~~ retracements they describe, are hereby approved.

Thomas Bell
United States Surveyor General.

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

.....
United States Surveyor General.

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BOOK A-366

FILED
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B.

FIELD NOTES

OF THE ~~SURVEY~~ Retracement OF THE

SUBDIVISION

of

Township No. 36 South, Range No. 11 West,

Of the Salt Lake Base and *Meridian,*

State of Utah

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

under his Contract No. 304, *dated* May 14, 1908, ~~190~~

Retracement *survey commenced* June 23, 1908, ~~190~~

Retracement *survey completed* July 1, 1908, ~~190~~

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10-03-08

BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M. Woodbury	Moundman
N. Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

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BOOK A-366

INDEX DIAGRAM.

Township 36 South, *Range* 11 West

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, Menzies Macfarlane and Reuben Stratton do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t we will report the true distances to all notable objects, and the true lengths of all lines that we assis measuring, to the best of our skill and ability, and in accordance with instructions given us, in the retrace Subdivision of T.36 S.,R.11 W.,and T.37 S.,R.10 W.,Salt Lake Base an Meridian, Utah.

Menzies Macfarlane, Chainm
Reuben Stratton, Chainm

Subscribed and sworn to before me this 20th day of June, 1908.

Leo A. Snow
U.S. Deputy Surveyor

SEAL

We, Angus M.Woodbury and N.Henry Savage 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 retracem Subdivision of T.36 S.,R.11 W.,and T.37 S.,R.10 W.,Salt Lake Base and Meridian, Utah.

Angus M. Woodbury, Moundma
N. Henry Savage, Moundma

Subscribed and sworn to before me this 20th day of June, 1908.

Leo A. Snow
U.S. Deputy Surveyor

SEAL

We, Rass Macfarlane and Samuel Brooks 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 retracem Subdivision of T.36 S.,R.11 W.,and T.37 S.,R.10 W.,Salt Lake Base and Meridian, Utah.

Rass Macfarlane, Axman
Samuel Brooks, Axman

Subscribed and sworn to before me this 20th day of June, 1908.

Leo A. Snow
U.S. Deputy Surveyor

SEAL

I, Grant Gregerson, 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 retracement of Subdivision of T.36 S.,R.11 W.,and T.37 S.,R.10 W.,Salt Lake Base and Meridian, Utah.

Grant Gregerson, Flagman.

Subscribed and sworn to before me this 20th day of June, 1908.

Leo A. Snow
U.S. Deputy Surveyor

SEAL

6—151

Retracement Subdivision of T.36 S.,R.11 W.

Survey commenced June 23,1908,and executed with a Young and Sons light mountain transit,No.7382,with solar attachment.The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the verniers latitude and declination arcs.

The instrument was examined tested on the meridian at Salt Lake City,found correct,and was approved by the surveyor general,for Utah,on June 8,1908.

At the cor.of secs.13,18,19,and 24,on E.bdy.of Tp., heretofore described,latitude 37° 49'47"N.,longitude 112° 59'08"W.,I set off 37° 41'N.,on the lat.arc;23° 28'W., on the decl.arc;and at 7 h 2 m a.m.,l.m.t.,I determine a meridian with the solar.

Note :Forcomplete test of instrument,see notes of subdivision of T.36 S.,R.11 W.

Note :Before commencing the subdivision of this township I proceed to retrace the old lines adjoining my work as follows:

Thence I run

West,on a retracement line bet.secs.13 and 24.

40.95 Fall 8 lks.S.of the ¼ sec.cor.bet.secs. .13 and 24, which is a sandstone,10x12x10 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

81.95 Fall 16 lks.S of the cor.of secs.13,14,23,and 24,which is a blue limestone,5x10x8 ins.,above ground,firmly set, and mkd.and witnessed as described by the surveyor general.

The course of this line is therefore N.89° 53'W.,81.95 chs.

No change in topography from original notes.

Retracement of Subdivision of T.36 S.,R.11 W.,Continued.

Chains

West,on retracement line bet.secs.14 and 23.

40.00 Fall 6 lks.N.of the ¼ sec.cor.bet.secs.14 and 23.,which is a sandstone,6x10x4 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

78.63 Fall 14 lks.N.of the cor.of secs.14,15,22,and 23,which is a granite stone,5x12x8 ins.above ground,firmly set, and mkd.and witnessed as described by the surveyor general.

The course of this line is therefore S.89° 54'W.,78.63 chs.

Note:No change in topography from original notes.

June 23,1908:At this cor.I set off 23° 27'N.,on the decl. arc;and at 0 h 2 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37° 41'N.,which is the proper lat.nearly.

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

41.06 Fall 7 lks.W.of the ¼ sec.cor.bet.secs. 22 and 23.

82.12 Fall 14 lks.west of the cor.of secs.22,23,26,and 27, which is a white sandstone,10x12x8 ins.,above ground, firmly set,and mkd.and witnessed as described by the surveyor general.

The northeast bearing tree being dead I mark a new tree as follows:

A pinon pine,8 ins.dia.,bears N.10° E.,26 lks. dist..mkd. T 36 S R 11 W S 23 B T.

The course of this line is therfore S.0° 6'E.,82.12 chs.

Note:No change in topography from original notes .

Retracement Subdivision T.36 S.,R.11 W.-Continued.

Chains	
	West,on a retracement line bet.secs.22 and 27.
40.20	Intersect the ¼ sec.cor.bet.secs.22 and 27,which is a limestone,5x10x4 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
80.55	Intersect the cor.of secs.21,22,27,and 28,which is a sandstone,10x14x8 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
	The course of this line is therefore West,80.55 chs.
	Note:No change in topography from original notes.
	June 23,1908.

June 24,1908:At 7 h 2 m a.m.,l.m.t.,I set off 37°40 'N., on the lat.arc;23°27'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.21,22,27,and 28.

Thence I run

	South,on a retracement line bet.secs. 27 and 28.
40.32	Fall 6 lks.East of the ¼ sec.cor.bet.secs.27 and 28, which is a stationary granite stone,3x3x2 ft.above ground,mkd.and witnessed as described by the surveyor general.
80.64	Fall 12 lks.East of the cor.of secs.27,28,33,and 34, which is a limestone,8x12x8 ins.,above ground,firmly set, and mkd and witnessed as described by the surveyor general.
	Thencourse of this line is therefore S.0°5'W.,80.64 chs.
	No change in topography from original notes.

Retracement of Subdivision of T.36 S.,R.11 W.-Continued.

Chains	
	West,on a retracement line bet.secs.28 and 33.
40.00	Intersect the ¼ sec.cor.bet.secs.28 and 33,which is a cedar post,4x4 ins.,14 ins.above ground,firmly set, and mkd.and witnessed as described by the surveyor general.
80.36	Intersect the cor.of secs.28,29,32,and 33,which is a limestone,10x14x8 ins., above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	The course of this line is therefore West,80.36 chs.
	No change in topography from original notes.
	South,on a retracement line bet.secs.32 and 33.
40.50	Fall 7 lks.E.of the ¼ sec.cor.bet.secs.32 and 33,which is a cedar post,4x5 ins.,15 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
81.00	Fall 14 lks.E.of the cor.of secs.4,5,32,and 33,which is a volcanic stone,8x10x10 ins.above ground,firmly set, and mkd.and witnessed as described by the surveyor general.
	The course of this line is therefore S.0° 6'W.,81.00 chs.
	No change in topography from original notes.
	June 24,1908:At the noon hour the sky is overcast and solar observations are impossible.
	June 24,1908.

Retracement of Subdivision of T.36 S.,R.11 W.-Continued.

Chains	
	July 1,1908:At 7 h 4 m a.m.,l.m.t.,I set off 37°43'N.,on the lat.arc;23°09'N.,on the decl.arc;and determine a meridian with the solar at the closing cor.of secs.2 and 3, which is a sandstone,10x8x5 ins.,above ground,firmly set and mkd.and witnessed as described by the surveyor general.
	Note:This cor.is 2.17 chs.West of the Standard cor.of secs.34 and 35.
	Thence I run
	South,on retracement line bet.secs.2 and 3.
35.63	Fall 27 lks.W.of the ¼ sec.cor.bet.secs.2 and 3,which is a sandstone,8x10x8 ins.,above ground,firmly set and mkd.and witnessed as described by the surveyor general.
75.63	Fall 57 lks.W.of the cor.of secs.2,3,10,and 11,which is a sandstone,6x10x4 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	The course of this line is therefore S.0°26'E.,75.63 chs.
	Note:No change in topography from original notes.

	S.89°56'E.,on a random line bet.secs. 2 and 11 .
40.28	Fall 42 lks.S.of the ¼ sec.cor.bet.secs.2 and 11,which is a sandstone,10x11x7 ins.,above ground,firmly set, and mkd.and witnessed as described by the surveyor general.
80.28	Fall 86 lks.S.of the cor.of secs.1,2,11,and 12,heretofore described.
	The course of this line is therefore N.89°27'E.,80.28 chs. (§?)
	No change in topography from original notes.

Retracement of Subdivision of T.36 S.,R.11 W.-Continued.

Chains

July 1,1908:At this cor.I set off 23° 07'N.,on the decl. arc;and at 0 h 4 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37° 43'N.,which is the proper lat.nearly .

Begin at the cor.of secs.11,12,13,and 14,which is a sandstone,7x8x6 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general. Thence I run

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

Note:This mile is very difficult to chain and as the cor.of secs.7,12,13,and 18,on E.bdy.of Tp.,is visable from this cor.I triangulate the distance as follows: The cor.of secs.7,12,13,and 18,bears S.89° 35'E. I set a tall flag at the cor.,and measure a base N.0° 25'E., 30.33 chs.,to a point from which the flag at the cor.of secs.7,12,13,and 18 bears S.69° 16'E., I compute the distance across as follows:

Tan 69°41' x base or 2.70094 x 30.33 = 81.92 chs.

The course of this mile is therefore S.89° 35'E.,81.92 chs.

July 1,1908.

Leo A. Snow

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of .....

.....

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "F", *Chainman.*
Tp. 37 S., R. 10 W.
..... *Chainman.*
..... *Moundman.*
..... *Moundman.*
..... *Axman.*
..... *Axman.*
..... *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*
....., *Chainman.*
....., *Moundman.*
....., *Moundman.*
....., *Axman.*
..... *Axman.*
..... *Flagman.*

.....

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

SEAL

.....

.....

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BOOK A-366

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 deputy see book "F" Tp. 37 S., R. 10 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 t the foregoing are the original field notes of such survey.

.....
United States Deputy Survey

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 190

The foregoing field notes of the ~~survey of~~ retracement of the subdivisional lines in Township No. 36 South, Range No. 11 West of the Salt Lake Ba and Meridian, Utah,

executed by Leo A. Snow
under his contract No. 304, dated May 14, 1908, 190 , having be critically examined, and the necessary corrections and explanations made, the said field notes, and t ~~surveys~~ retracements they describe, are hereby approved.

Thomas Cell
United States Surveyor Genera

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

.....
United States Surveyor Genera

6—151

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Page

4—079.

BOOK A-366

C.

FILED
APR 8 1909

FIELD NOTES

Refiled May 9, 1911.

OF THE SURVEY OF THE

SUBDIVISION

of

Township No.36 South, Range No.11 West.

Of the Salt Lake Base and *Meridian,*

State of Utah

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

nder his Contract No. 304, *dated* May 14, 1908. 190

urvey commenced June 24, 1908. 190

urvey completed August 11, 1910. x190

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May 9-42-85
Inter 3-45-62
Close 13-31

BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M.Woodbury	Moundman
N.Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

1910:-

John H.Cottam,	Chainman.
Eldon Snow,	Chainman.

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BOOK A-366

INDEX DIAGRAM.

Township 36 South, *Range* 11 West

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				3	10
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			7	15	17
		11	5	18	

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, Menzies Macfarlane and Reuben Stratton do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the sa we will report the true distances to all notable objects, and the true lengths of all lines that we measuring, to the best of our skill and ability, and in accordance with instructions given us, in the s

Subdivisions of T.36 S.,R.11 W.,T.37 S.,R.10 W.,T.39 S.,R.4 W.,T. Rs.8,10,and 10½ W.,Salt Lake Base and Meridian, Utah.

Menzies Macfarlane, Ch

Reuben Stratton, Ch

Subscribed and sworn to before me this 20th day of June, 1908.

Leo A. Snow

U.S.Deputy Surveyor

We, Angus M.Woodbury and N.Henry Savage do solemnly swear that we will well and truly perform the duties of moundmen in the establi of corners, according to the instructions given us, to the best of our skill and ability, in the su

Subdivisions of T.36 S.,R.11 W.,T.37 S.,R.10 W.,T.39 S.,R.4 W.,and T Rs.8,10,and 10½ W.,Salt Lake Base and Meridian, Utah.

Angus M. Woodbury, Mou

N. Henry Savage, Mou

Subscribed and sworn to before me this 20th day of June, 1908.

Leo A. Snow

U.S.Deputy Surveyor

We, Rass Macfarlane and Samuel Brooks do solemnly swear that we will well and truly perform the duties of axmen in the establishment of c and other duties, according to instructions given us, to the best of our skill and ability, in the sur

Subdivisions of T.36 S.,R.11 W.,T.37 S.,R.10 W.,T.39 S.,R.4 W.,T.40 Rs.8,10,and 10½ W.,Salt Lake Base and Meridian, Utah.

Rass Macfarlane, Ax

Samuel Brooks, Ax

Subscribed and sworn to before me this 20th day of June, 1908.

Leo A. Snow

U.S.Deputy Surveyor

I, Grant Gregerson, 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, i survey of Subdivisions of T.36 S.,R.11 W.,T.37 S.,R.10 W.,T.39 S.,R.4 and T.40 S.,Rs.8,10,and 10½ W.,Salt Lake Base and Meridian, Utah.

Grant Gregerson, Flagm

Subscribed and sworn to before me this 20th day of June, 1908.

Leo A. Snow

U.S.Deputy Surveyor.

BOOK A-366

INDEX DIAGRAM.

Township 37 S., *Range* 10 W.

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

6 5 4 2

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, John H. Cottam and Eldon Snow
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we wi
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the
we will report the true distances to all notable objects, and the true lengths of all lines that
measuring, to the best of our skill and ability, and in accordance with instructions given us, in th
Sub. T. 27 S., R. 10 W. and T. 26 S., R. 11 W. S.L.B.& M., Utah.

John H Cottam,
Eldon Snow,

Subscribed and sworn to before me this 5th day of August 1910., 190

SEAL

Leo A. Snow
Notary Public.

My commission expires Feb. 14, 1913

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

, M
, M

Subscribed and sworn to before me this day of , 190

SEAL

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

Subscribed and sworn to before me this day of , 190

SEAL

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

, F

Subscribed and sworn to before me this day of , 190

SEAL

6—111

Subdivision of T.36 S.,R.11 W.-

Survey commenced June 24,1908,and executed with a Young and Sons light mountain transit,No.7382,with solar attachment.The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian, at Salt Lake City,found correct,and was approved by the surveyor general for Utah,on June 8,1908.

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

At the cor. of secs.13,14,23,and 24,latitude 37°40'47" N.,longitude 113°00'13"W.,I set off 37°41'N.,on the lat. arc;23°26'N.,on the decl.arc;and at 3 h 2 m p.m.,l.m.t, determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5.0 0 chs. N.of the cor.

June 24,1908.

June 25,1908:At 1h 19m a.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with the manual, and mark a point in the line thus determine by a tack driven in a wooden plug set in the ground,5.00 chs.N.of the cor.

At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°29'to the west,and mark the meridian thus determined by cutting a small groove in the stone already set 5.00

Subdivision of T.36 S.,R.11 W.-Continued.

Chains	
	chs.N.of the cor.;this mark falls 0.30 ins.east of the meridian established by the solar.
	At 7 h 2 m a.m.,l.m.t.,I set off 37° 41'N.,on the lat.ar 23° 25'N.,on the decl.arc;and mark the meridian determin with the solar,by a cross on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.33 ins.east of the meridian determined by Polaris observation.
	The solar apparatus by p.m.and .am.observations defines positions for meridians respectively about 0'21"west and 0'17"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the meridian,at 7 h 30 m a. m., is N.N.16° 33'W.,the angle thus determined gives the mag.decl.16° 33'E.
	Note:I am unable to find any trace of,the ¼ sec.cor.bet. secs.23 and 24;after diligent search;therefore I begin at the cor.of secs.13,14,23 and 24.
	Thence I run
	S.0° 1'E.,bet.secs.23 and 24.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.over a series of small ridges and gulches.
40.00	No trace of the old cor.can be found.
	Set a volcanic stone,16x10x5 ins.,11 ins.in the ground, for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,6 ins.dia.,bears N.56° E.,38 lks. dist..mkd.¼ S 24 B T.
	A pinon pine,5 ins.dia.,bears S.13° W.,73 lks. dist..mkd.¼ S 23 B T.
40.50	Bottom of hollow,20 ft.below ¼ sec.cor.,course W.

Subdivision of T.36 S.,R.11 W.--Continued.

Chains	
	Asc.
55.00	Top of spur,125 ft.above hollow,bears N.80° W.and S.80° E.
	Desc.
69.00	Bottom of hollow,50 ft.below spur,course N.80° W.
	Asc.
80.00	Set temp.cor.of secs.23,24,25,and 26.
	Note:The permanent cor.was afterwards set at 82.20 chs.
	Land,mountainous .
	Soil,gravelly and clay;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 82.20 chs.
	Exceptionally difficult to survey,82.20 chs.

	West,on a random line bet.secs.23 and 26.
40.00	Set temp.¼ sec.cor.
78.56	Intersect N.and S.line,2.20 chs.N.of the cor.of secs.22, 23,26,and 27,heretofore described.
	Thence I begin at this cor and run
	East,on a true line bet.secs.23 and 26.
	Over mountainous land;through dense undergrowth and heavy timber .
	Desc.
3.25	Bottom of hollow,30 ft.below cor.,course N.
	Asc.
5.50	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.

Subdivision of T.36 S.,R.11 W.-Continued.

Chains	
6.85	Old road,bears N.and S.
	Bottom of hollow,20 ft.below ridge,course N.
	Asc.
9.50	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
12.10	Mountain raod,bears N.20°W.and S.20°E.
13.50	Creek,4 lks.wide,2 ins.deep,in bottom of hollow,60 ft. below ridge,course N.20°W.
	Asc.
19.70	Top of ridge,80 ft.above hollow,bears N.and S.
	Desc.
24.20	Bottom of hollow,100 ft.below ridge,course N.30°W.
	Asc.
29.20	Top of perpendicular ledge,100 ft.high, bears NE and SW.
30;00	Bottom of hollow,15 ft.below top of ledge,course SW.
	Asc.
34.25	Top of steep ascent,bears NW and SE.
	Asc.gradually.
	Note:The north side of this sec.is nearly one and one half.chains short,the deficiency being in the western half mile.Now in order not to make lots on both sides of the section.I deem.if advisable.to put the deficiency of this mile also in the western half mile,therefore at
38.56	Set a volcanic stone,16x12x8 ins.,11 ins.in the ground, for ¼ sec.cor..mkd.¼ on.N.face;from which
	A pinon pine,5 ins.dia.,bears N.73°35'E.,36 lks.dist..mkd.¼ S 23 B T.
	A cedar,5 ins.dia.,bears S.33°45'W.,47 lks. dist..mkd.¼ S 26 B.T.
41.60	Top of ridge,600 ft.above hollow,bears N.and S.
	Desc.
43.20	Bottom of hollow,50 ft.below ridge,course N.

Subdivision of T.36 S.,R.11 W.-Continued.

Chains	
	Asc.
57.00	Top of ridge,100 ft.above hollow,bears NW and SE.
	Desc.
65.20	Bottom of hollow,50 ft.below ridge,course NW .
	Asc.
70.00	Top of ridge,50 ft.above hollow,bears N.10°W.and S.10°E.
	Desc.
71.16	Old road,bears N.and S.
74.80	Bottom of hollow,60 ft.below ridge,course N.
	Asc.
78.56	Intersect N.and S.line,2.20 chs.South of temp.cor.of sec.23,24,25,and 26, which I destroy and at this point Set a limestone,16x10x8 ins.,11 ins.in the ground,for cor.of secs.23,24,25,and 26,mkd.with 2 notches on S. and 1 notch on E.edges;from which

A pinon pine,7 ins.dia.,bears N.45°E.,23 lks. dist..mkd. T 36 S R 11 W S 24 B T.

A pinon pine,8 ins.dia.,bears S.43°10'E.,64 lks.dist..mkd.T 36 S R 11 W S 25 B T.

A pinon pine,5 ins.dia.,bears S.62°30'W.,34 lks.dist..mkd.T 36 S R 11 W S 26 B T.

A cedar,24 ins.dia.,bears N.22°W.,42 lks. dist..mkd.T 36 S R 11 W S 23 B T.

Land,mountainous .

Soil,gravelly and clay;3rd rate.

Timber,cedar and pinon pine.

Undergrowth,oak and buck brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,78.56 chs.

Exceptionally difficult to survey,78.56 chs.

June 25,1908:At the noon hour the sky is overcast and solar observations are impossible.

Subdivision of T.36 S.,R.11 W.-Continued.

Chains	
	Note:Knowing from retracement of west side of sec.27 tha this line will be out of limits in distance,I run , S.0° 1'E.,on a true line bet.secs.26 and 27.
	Over mountainous land;through heavy timber and scatterin undergrowth.
	Desc.
15.70	Bottom of hollow,25 ft.below cor.,course W.
	Asc.
19.00	Top of spur,60 ft.above hollow,bears E.and W.
	Desc.
24.00	Bottom of hollow,60 ft.below spur,course W.
	Asc.
37.00	Top of ridge,100 ft.above hollow,bears NW and SE.
	Desc.
40.00	Set a sandstone,16x10x8 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,10 ins.dia.,bears N.81°W.,83 lks. dist..mkd.¼ S 27 B T.
	A pinon pine,5 ins.dia.,bears S.38°30'E.,53 lks.dist..mkd.¼ S 26 B T.
42.00	Creek,2 lks.wide,1 in.deep,in bottom of hollow,75 ft. below ridge,course NW .
	Asc.
80.00	Set temp. cor.of secs.26,27,34 and 35.
	Note:The permanent cor.was afterwards set at 80.60 chs.
	Land,mountainous .
	Soil,gravelly and clay;3rd rate.
	Timber ,cedar and pinon pine.
	Undergrowth,oak and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.60 chs.
	Exceptionally difficult to survey,80.60 chs.

Subdivision of T. 36 S. R. 11 W.- Continued.

Chains.	
	West on a random line bet.secs.27 and 34,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.70	Intersect N. and S.line 60 lks.N.of the cor.of secs.27, 28,33, and 34, heretofore described.
	The falling being out of limits, I begin at the cor.of secs.27,28,33, and 34, and run
	East on a true line bet.secs.27 and 34.
	Over mountainous land; through scattering undergrowth and heavy timber. Asc.
30.00	Top of spur, 300 ft.above cor., bears N. and S. Desc.
32.00	Bottom of hollow, 50 ft.below spur, course N. Asc.
40.35	Set a volcanic stone 16 x 10 x 8 ins., 11 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.$\frac{1}{4}$ on N.face; from which
	A pinon pine, 6 ins.dia.bears N.23° E. 60 lks.dist. mkd.$\frac{1}{4}$ S 27 B T
	A pinon pine, 4 ins.dia., bears S.26° W. 38 lks. dist., mkd.$\frac{1}{4}$ S 34 B T
52.50	Top of ridge, 100 ft.above hollow.bears N.15° W. and S. 16° E. Desc.
59.20	Bottom of hollow, 50 ft.below ridge, course N. Asc.
63.00	Top of ridge, 50 ft.above hollow.bears N. and S. Desc.
80.70	Intersect N. and S.line 60 lks.S.of the temp.cor.of secs.26.27.34, and 35, which I destroy and at this point.
	Set a volcanic stone 12 x 10 x 8 ins., 8 ins.in the ground, for cor.of secs.26,27.34, and 35, mkd.with 1 notch on S. and 2 notches on E.edge; from which
	A pinon pine, 8 ins.dia.bears N.52° 55'E. 76 lks. dist., mkd.T 26 S R 11 W S 26 B T
	A cedar 12 ins.dia.bears S.76° E. 43 lks.dist.mkd.

Chains. T 36 S R 11 W S 35 B T

A cedar 10 ins.dia.bears S.13° W. 48 lks.dist.mkd.

T 36 S R 11 W S 34 B T

A pinon pine, 9 ins.dia.bears N.63° W, 27 lks.

dist., mkd.T 36 S R 11 W S 27 B T

Land, mountainous.

Soil, gravelly and clay loam; 3rd rate.

Timber, cedar and pinon pine.

Undergrowth, oak and buck brush.

Good grass for grazing.

Mountainous or heavily timbered land 80.70 chs.

Exceptionally difficult to survey 80.70 chs.

June 25, 1908.

Having been ordered into the field for the purpose of correcting errors disclosed by the field examination, I proceed as follows:

Survey commenced Aug.9, 1910, and executed with a Young and Sons light mountain transit, No.7382, with solar attachment.

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

At the cor.of secs.26,27,34 and 35, lat.37° 39' 03"N.; long.113° 01' 16" W. I set off 37° 39'N.on the lat.arc; 15° 56'N.on the decl.arc; and at 3 h. 05 m.p.m.l.m.t. I determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5.00 chs. N.of the cor.

At 10 h. 21 m.p.m.l.m.t.. I observe Polaris at eastern

Chains. elongation in accordance with the Manual, and mark the line thus determined on a wooden plug set in the ground 5.00 chs.N.of the cor.

Aug.9. 1910.

Aug.10, 1910: At 7 h. 00 m.a.m.l.m.t.. I lay off the azimuth of Polaris 1° 28.2' to the west, and mark the meridian thus determined by cutting a groove in the stone already set 5.00 chs.N.of the cor.; this mark falls 0.37 lns.east of the meridian determined with the solar.

At 7 h.35 m.a.m.l.m.t.I set off 37° 39'N.on the lat.arc 15° 45'N.on the decl.arc; and mark the meridian thus determined with the solar. by a cross on the stone already set 5.00 chs.N.of the cor.; this mark falls 0.31 lns.east of the meridian determined by Polaris observations.

The solar apparatus by p.m. and a.m.observations defines positions for meridians, respectively about 0' 19" east and 0' 16" west of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

Note: Errors in the N.bdy.Tp.37 S., R. 11 W. make it necessary to run the closing lines in Tp.36 S., R. 11 W. on regular courses as follows:

From the cor.of secs.26,27,34, and 35. T. 36 S., R. 11 W., I run

S.0° 1'E.on a true line bet.secs.34 and 35.

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

40.00 Set a volcanic stone 16 x 12 x 6 ins., 11 ins.in the ground. For ¼ sec.cor., mkd.¼ on W.face; from which

Subdivision Tp. 36 S.. R. 11 W.- Continued.

Chains.

A pinon pine, 8 ins.dia.bears S.13° 30'E. 83 lks. dist.. mkd.½ S 35 B T

A pinon pine, 10 ins.dia.bears S.68° 20'W. 102 lk dist.. mkd.½ S 34 B T

45.50 Top of ridge, 200 ft.above sec.cor.. bears E. and W.

Desc.over series of small ridges and gulches.

81.75 Intersect S.bdy.Tp.20 lks.N.89° 45'W.of the closing co of secs.2 and 3 Tp. 37 S.. R. 11 W.. which is a sandstone 13 x 5 x 10 ins.above ground. marked and witnessed as described by the surveyor general.

Set a sandstone 18 x 12 x 5 ins.. 12 ins.in the ground for the closing cor.of secs.34 and 35. mkd.C C on N. with 2 grooves on E. and 4 grooves on W.face; from which

A pinon pine 10 ins.dia.bears N.33° 55'E. 24 lks. dist.mkd.T 36 S R 11 W S 35 B T

A pinon pine, 15 ins.dia.bears N.62° 05'W. 39 lks. dist.. mkd.T 36 S R 11 W S 34 B T

Land, mountainous.

Soil, gravelly loam and clay; 2nd and 3rd rates.

Timber, cedar and pinon pine.

Undergrowth, oak, buck brush, and aspen saplings.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth 81.75 chs.

Exceptionally difficult to survey 81.75 chs.

August 10, 1910: At this cor. I set off 15° 40'N.on the decl.arc; and at 0 h. 5 m.a.m.l.m.t.. observe the sun on the meridian; the resulting lat.is 37° 38'N., which is the proper lat.nearly.

For reasons already stated , and knowing that the line between secs.33 and 34 will not fall within limits

Subdivision T. 39 S., R. 11 W.- Continued.

Chains	
	therefore from the cor.of secs.27.28.33, and 34. I run
	S.0° 2'E.on a true line bet.secs. 33 and 34
	Over mountainous land; through scattering timber. Asc.
30.00	Enter heavy timber bears E. and W.
35.30	Top of ridge. 300 ft.above cor., bears E. and W.
	Desc.
40.00	Set a volcanic stone 18 x 12 x 9 ins., 12 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; from which
	A pine 8 ins.dia.bears west 54 lks.dist.mkd.¼ S 33 B T
	A pine 9 ins.dia.bears N.88° 20'E. 99 lks.dist. mkd.¼ S 34 B T
54.20	Bottom of hollow. 100 ft.below ridge. course W.
	Asc.
65.00	Top of ridge. 50 ft.above hollow, bears E. and W.
	Desc.
75.00	Bottom of hollow, 40 ft.below ridge, course W.
	Asc.
77.00	Top of spur. 30 ft.above hollow, bears E. and W.
	Desc.
81.35	Intersect the S.bdy.of Tp.113 lks.N.89°45'W.from the closing cor.of secs.3 and 4. T. 37 S., R. 11 W., which is a sandstone 15 x 8 x 8 ins.above ground, firmly set and marked and witnessed as described by the surveyor general.
	Set a volcanic stone 20 x 12 x 5 ins., 15 ins.in the ground, for closing cor.of secs.33 and 34. mkd.C C on N.face, with 3 grooves on E. and 3 grooves on W. faces; from which
	A pine 4 ins.dia.bears N.9° 30'E. 25 lks.dist. mkd.T 36 S R 11 W S 34 B T
	A pine 8 ins.dia.bears N.63° 50'W. 24 lks.dist.

Subdivision T. 36 S., R. 11 W.

Cor[illegible] mkd.T 36 S R 11 W S 33 B T [illegible]

Land, mountainous.

Soil, gravelly loam; 2nd rate.

Timber, cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land 81.35 chs.

Exceptionally difficult to survey 81.35 chs.

August 10, 1910.

June 26, 1908:

Knowing from the retracement of the east bdy. of the Tp. that the line bet. secs. 24 and 25 will not close on the E. bdy. of the Tp. within limits, I run

East on a true line bet. secs. 24 and 25,

Over mountainous land; through heavy timber. Asc.

1.75 Top of spur, 20 ft. above cor., bears N. and S. Desc.

5.25 Bottom of hollow, 40 ft. below spur, course N. Asc.

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

9.00 Bottom of hollow, 80 ft. below spur, course N. 20° W. Asc.

14.50 Leave heavy and enter scattering timber, bears N. and S.

15.50 Old road on top of ridge 200 ft. above hollow, bears N. 20° W. and S. 20° E. Desc.

22.50 Bottom of hollow 50 ft. below spur, course N. Asc.

27.00 Top of spur, 40 ft. above hollow, bears N. and S. Desc.

29.50 Head of hollow, 80 ft. below spur, course N. Asc.

34.00 Top of spur, 40 ft. above hollow, bears NE. and SE. Desc.

36.50 Head of hollow, 200 ft. below spur, course NW. Asc.

40.00 Set a sandstone 18 x 1[illegible] x 6 ins., 12 ins. in the ground, for ¼ sec. cor., mkd. ¼ on N. face; from which

A pinon pine, 12 ins. dia. bears N. 52° 10' W. 40 lks.

Subdivision of T. 36 S., R. 11 W.- Continued.

Chains. dist., mkd. $\frac{1}{4}$ S 24 B T

A pinon pine, 16 ins.dia.bears S.6° 10'E. 74 lks. dist., mkd. $\frac{1}{4}$ S 25 B T

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

41.75 Bottom of hollow, 40 ft.below spur, course N.20° W. Asc.

64.50 Top of ridge, 500 ft.above hollow.bears N. and S. Desc.

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

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

82.50 Intersect E.bdy.of Tp.284 lks.N.of the witness cor.to cor.of secs.19,24,25, and 30, heretofore described.

14.50

68.00

Set a sandstone 18 x 7 x 7 ins., 12 ins.in the ground, for closing cor.of secs.24 and 25, mkd.C C on W., with 4 grooves on N. and 2 grooves on S.faces; from which

A balsam 12 ins.dia.bears S.37° 15'W. 24 lks.dist. mkd.T 36 S R 11 W S 25 B T

A balsam 12 ins.dia., bears N.13° 05'W. 68 lks.dist. mkd.T 36 S R 11 W S 24 B T

Note: I destroy all marks on the witness cor.to cor.of secs.19,24,25, and 30, which pertain to secs.24 and 25.

Land, mountainous.

Soil, gravelly and clay; 3rd rate.

Timber, cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land 82.50 chs.

Exceptionally difficult to survey 14.50 chs.

June 26, 1908.

June 27, 1908: At 7 h. 3 m.a.m.l.m.t.I set off 37° 40'N. on the lat.arc; 23° 21'N.on the decl.arc; and determine a meridian with the sclar at the cor.of secs.23, 24,25, and 26.

Subdivision of T. 36 S.R. 11 W.- Continued.

Chains	
	Note: Knowing from lines already run that the line bet secs.25 and 26 will be out of limits in measurement, run
	S.0° 1'E.on a true line bet.secs.25 and 26,
	Over mountainous land; through heavy timber. Asc.
22.00	Top of ridge 600 ft.above sec.cor., bears N.70° W. and S.70° E. Desc.
35.00	Old road, bears E. and W.
35.90	Bottom of hollow. 200 ft.below ridge. course W. Asc.
38.00	Top of spur, 30 ft.above hollow, bears E. and W. Desc.
39.90	Bottom of draw 15 ft.below spur, course W. Asc.
40.00	Set a sandstone 11 x 10 x 10 ins., 12 ins.in the ground for ¼ sec.cor., mkd.¼ on W.face; from which
	A pinon pine, 12 ins.dia.bears N.78° E. 69 lks.dis mkd.¼ S 25 B T
	A pinon pine, 8 ins.dia.bears N.62° 25'W. 69 lks. dist., mkd.¼ S 26 B T
47.50	Top of ridge, 40 ft.above hollow, bears E. and W.Desc.
49.20	Bottom of hollow, 50 ft.below ridge.course W. Asc.
52.00	Top of ridge,50 ft.above hollow,bears E. and W.Desc.
62.50	Creek, 2 lks.wide, 2 ins.deep, in bottom of hollow,50 ft.below ridge, course W. Asc.
63.75	Top of spur,30 ft.above hollow,bears E. and W. Desc.
67.25	Creek 2 lks.wide, 2 ins.deep,in bottom of hollow,30 ft. below spur, course W. Asc.
68.50	Road to mountain,bears E. and N.60° W. Road turns sharply to the north about 2.00 chs.E.of this point.
73.00	Top of ridge, 80 ft.above hollow,bears E. and W. Desc.
80.00	Set temp.cor.of secs.25,26,35, and 36.
	Permanent cor.afterwards set at 80.64 chs.
	Land, mountainous.
	Soil, gravelly and clay; 3d rate.

Subdivision of T.36 S.,R.11 W.-Continued.

Chains	
	Timber,cedar and pinon pine.
	Food grass for grazing.
	Mountainous or heavily timbered land,80.64 chs.
	Exceptionally difficult to survey,80.64 chs.
	June 27,1908:At this cor.I set off 23° 20'N.,on the decl. arc;and at 0H 3 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37°39'N.,which is the proper lat.nearly.
	West,on a random line bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
78.60	Intersect N.and S.line,64 lks.N.of the cor.of secs. 26,27,34,and 35,heretofore described.
	The falling is out of limits therefore I begin at the cor.of secs.26,27,34,and 35.
	Note:For the same reason explained on line bet.secs. 23 and 26,I put the deficiency of this mile in the western half mile.
	Thence I run
	East,on a true line bet.secs.26 and 35.
	Over mountainous land;through scattering timber and scattering undergrowth.
	Desc.
3.00	Bottom of hollow,50 ft.below sec.cor.,course N.
	Asc.
9.00	Top of spur,75 ft.above hollow,bears N.and S.
	Desc.
24.00	Bottom of hollow,125 ft.below spur course NW.
	Asc.

Subdivision of T.36 S.,R.11 W.-Continued.

Chains	
38.60	Set a volcanic stone,16x12x9 ins.,11 ins.in the ground for ¼ sec.cor..mkd.¼ on N.face;from which
	A pinon pine,4 ins.dia.,bears N.68°W.,64 lks. dist..mkd.¼ S 26 B T.
	A pinon pine,5 ins.dia.,bears S.87°E.,223 lks dist..mkd.¼ S 35 B T.
39.00	Top of ridge,150 ft.above hollow,bears N.and S.
	Desc.
45.00	Bottom of hollow,50 ft.below ridge,course N.
	Asc.
49.00	Top of red sandstone ridge,30 ft.above hollow,bears N.and S.
	Desc.
60.00	Bottom of hollow,50 ft.below ridge,course N.
	Asc.
60.25	Enter dense undergrowth,bears N.and S.
68.50	Top of red sandstone cliffs,25 ft.high,on top of ridge, 50 ft.above hollow,bears N.and S.
	Desc.
70.50	Creek,2 lks.wide,2 ins.deep,in bottom of hollow,60 ft. below ridge,course NW .
	Asc.
78.60	Intersect N.and S.line,64 lks.South of the temp.cor. of secs.25,26,35,and 36, which I destroy and at this poin
	Set a volcanic stone,18x8x5 ins.,8 ins.in the ground, for cor.of secs.25,26,35,and 36,mkd.with 1 notch on S. and 1 notch on E.edges;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor..
	Land,mountainous .
	Soil,gravelly and clay;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,and aspen saplings.
	Good grass for grazing.

Subdivision of T.36 S.,R.11 W.-Continued.

Chains	
	Mountainous land,or land covered with dense undergrowth, 78.60 chs.
	Exceptionally difficult to survey,18.35 chs.
	June 27,1908.
	June 28,1908:At 7 h 3 m a.m.,l.m.t.,I set off 37°39'N., on the lat.arc;23°19'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.25,26,35,and 36.
	Thence for reasons already explained I run
	East ,on a true line bet.secs.25 and 36.
	Over mountainous land;through dense undergrowth.
	Asc.
10.00	Top of spur,250 ft.above cor.,bears NW and SE.
	Desc.
13.00	Head of hollow,50 ft.below spur,course NW.
	Asc.
16.70	Top of ridge, 60 ft.above hollow,bears NW and SE.
	Desc.
21.85	Creek,2 lks.wide,2 ins.deep,in bottom of hollow,30 ft. below ridge,course NW .
	Asc.
27.00	Top of spur,50 ft.above hollow,bears NW and SE.
	Desc.
31.00	Bottom of draw,20 ft.below ridge,course NW .
	Asc.
35.00	Top of spur,30 ft.above draw,bears NW and SE.
	Desc.
40.00	Set a sandstone,14x8x7 ins.,9 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;and raise a mound of stone,

Subdivision of T.36 S.,R.11 W.-Continued.

Chains.	
	2 ft.base,1½ ft.high,N.of cor.
55.80	Creek,2 lks.wide,1 in.deep,in bottom of hollow,50 ft. below spur,course NW .
	Asc.
59.00	Mountain road,bears N.and S.
82.80	Intersect E.bdy.of Tp.,73 lks.S.of the cor.of secs.25, 30,31,and 36,heretofore described.
	Set a sandstone,16x9x6 ins.,11 ins.in the ground, for.closing cor.of secs.25 and 36,mkd.C C on W.;with 5 grooves on N.,and 1 groove on S.faces;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Note:I destroy all marks on the cor.of secs.25,30,31, and 36,which pertain to secs.25 and 36.
	Land,mountainous .
	Soilgravelly and clay;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak and aspen saplings.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth 82.80 chs.
	Exceptionally difficult to survey,82.80 chs.
	June 28,1908 :At this cor.I set off 23° 17'N.,on the decl.arc;and at 0 h 3 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37° 39'N.,which is the proper lat.nearly.

Aug.11. 1910: At 7 h. 35 m.a.m.l.m.t.I set off 37° 39' N.on the lat.arc;15° 27'N.on the decl.arc;and determine a mer.with the solar at cor.of secs.25.26,35 & 36.

For reasons already explained I run

S.0° 1'E.,on a true line bet.secs.35 and 36.

Over mountainous land;through scattering timber and scattering undergrowth.

Desc.

Subdivision of T. 36 S., R. 11 W.- Continued.

Chains.	
11.50	Creek 2 lks.wide, 2 ins.deep, in bottom of hollow, 75 ft.below cor., course NW. Asc.
12.00	Enter dense undergrowth, bears NW. and SE.
40.00	Set a black volcanic stone 18 x 12 x 6 ins., 12 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; from which A pine 4 ins.dia.bears E.29 lks.dist., mkd.¼ S 36 B T A pine 4 ins.dia.bears S.75° W. 63 lks.dist., mkd. ¼ S 35 B T.
60.00	Top of ridge, 600 ft.above hollow, bears N.80° W. and S.80° E. Desc.
60.50	Leave undergrowth bears N.80° W. and S.80° E.
82.00 60.50 21.50	Intersect S.bdy.of Tp. 2.73 chs.N.89° 45'W.from the cor. of secs.1.2.35. and 36, which is a volcanic stone 8 x 8 x 6 ins.above ground, mkd.and witnessed as described by the surveyor general. Set a volcanic stone 15 x 9 x 5 ins., 10 ins.in the ground, for closing cor.of secs.35 and 36, mkd.C C on N., with 1 groove on E. and 5 grooves on W.faces;and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor. Note: I destroy all marks on old cor.which pertain to secs.35 and 36. Land, mountainous. Soil, gravelly and clay; 3rd rate. Timber, cedar and pinon pine. Undergrowth, oak, buck brush, and aspen saplings. Good grass for grazing. Mountainous land, or land covered with dense undergrowth 82.00 chs. Exceptionally difficult to survey 60.50 chs. August 11, 1910.

Chains.

June 29, 1908: At 7 h. 3 m.a.m.l.m.t., I set off 37° 43' N.on the lat.arc; 23° 16'N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.1, 2,11, and 12, which is a red sandstone 10 x 10 x 4. ins.above ground, firmly set, and mkd.and witnessed as described by the surveyor general.

The bearing tree is dead. I therefore mark new bearing trees as follows:

A pinon pine, 12 ins.dia.bears N.8° 10'E. 80 lks. dist., mkd.T 36 S R 11 W S 1 B T

A pinon pine, 5 ins.dia., bears S.15° 10'E. 70 lks. dist., mkd.T 36 S R 11 W S 12 B T

A pinon pine, 6 ins.dia.bears S.10° W. 30 lks.dist. mkd.T 36 S R 11 W S 11 B T

A cedar 5 ins.dia.bears N.9° 35'W. 158 lks.dist. mkd.T 36 S R 11 W S 2 B T

Thence I run

East on a random line bet.secs.1 and 12,

40.00 Set temp.¼ sec.cor.

81.80 Intersect E.bdy.of Tp.5.68 chs.N.of the cor.of secs.1, 6,7, and 12, which is a sandstone 5 x 10 x 8 ins.above ground, firmly set, and mkd.and witnessed as described by the surveyor general.

The railing is out of limits; therefore at this point Set a limestone 18 x 10 x 7 ins., 12 ins.in the ground, for closing cor.of secs.1 and 12, mkd.C C on W., with 1 groove on N. and 5 grooves on S.faces; from which

A pinon pine, 12 ins.dia.bears S.7° W. 45 lks.dist. mkd.T 36 S R 11 W S 12 B T

A pinon pine, 8 ins.dia., bears N.19° W. 55 lks. dist., mkd.T 36 S R 11 W S 1 B T

Note: I destroy all marks on the cor.of secs.1,6,7, and

Subdivision of T.36 S.,R.11 W.-Continued.

Chains	
	12,which pertain to secs.1 and 12.
	Thence I run
	West,on a true line bet.secs.1 and 12.
	Over mountainous land;through heavy cedar and pinon pine timber.
	Asc.
16.60	Road on top of ridge,100 ft.above cor.,bears NE and SW.
	Desc.
26.50	Bottom of hollow,200 ft.below ridge,course S.
	Asc.
30.00	Gypsum ledge,on top of ridge,250 ft.above hodlow,bears N.and S.
35.50	Bottom of hollow,350 ft.below ridge,course S.80°W.
	Asc.
41.80	Set a sandstone,18x8x5 ins.,12 ins.,in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A pinon pine,6 ins.dia.,bears S.58°30'W.,56 lks.dist..mkd.¼ S 12 B T.
	A pinon pine,6 ins.dia.,bears N.15°45'W.,45 lks.dist..mkd.¼ S 1 B T.
42.00	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
44.50	Bottom of hollow,40 ft.below ridge,course SE.
	Asc.
51.50	Top of spur,130 ft.above hollow,bears NE and SW.
	Desc.
56.60	Head of hollow,100 ft.below spur,course N.60°W.
	Asc.
74.50	Top of ridge,300 ft.above hollow,bears N.45°W. and S.50°E.
	Desc.
81.80	The cor.of secs.1,2,11,and 12.
	Land,mountainous .

Subdivision of T.36 S.,R.11 W.-Continued.

Chains	
	Soil,gravelly and clay;3rd rate.
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Mountainous or heavily timbered land,81.80 chs.
	June 29,1908:At the noon hour the sky is overcast and solar observations are impossible.

	N.0°1'W.,on a true line bet.secs.1 and 2.
	Over mountainous land;through heavy timber.
	Asc.abruptly.
8.75	Top of ridge,300 ft.above sec.cor.,bears NW and SE.
	Desc.abruptly.
20.90	Bottom of hollow,400 ft.below ridge,course N.80°W.
	Leave heavy and enter scattering timber,bears E.and W.
	Asc.
26.80	Road on top of ridge,50 ft.above hollow, bears E.and W.
	Desc.
29.40	Bottom of hollow,40 ft.below ridge,course W.
	Asc.
31.74	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
35.90	Old road,bears N.45°W.and S.45°E.
40.00	Set a limestone,16x10x4 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,12 ins.dia.,bears S.50°30'E.,73 lks. dist..mkd.¼ S 1 B T.
	A cedar,16 ins.dia.,bears N.71°10'W.,152 lks.dist..mkd.¼ S 2 B T.
44.80	Bottom of hollow,40 ft.below ridge,course W.
	Asc.

Subdivision of T. 36 S., R. 11 W.- Continued.

Chains	
49.00	Road, bears E. and W.
55.00	Top of spur, 60 ft.above hollow,bears E. and W.
	Desc.
57.25	Bottom of hollow, 20 ft.below spur, course W.
	Asc.
68.20	Top of ridge, 400 ft.above hollow, bears NW. and S.60° E.Desc.
73.53	Wire fence bears E. and W.
74.37	Intersect 7th Standard Parallel South, 2.16 chs.S.89° 39'W.of the standard cor.of secs.35 and 36, which is a limestone 8 x 8 x 6 ins.above ground, firmly set, and mkd.and witnessed as described by the surveyor general.
20.90	
53.47	

Set a limestone 16 x 10 x 4 ins., 11 ins.in the ground, for closing cor.of secs.1 and 2, mkd.C C on S., with 1 groove on E. and 5 grooves on W.faces; from which

A pinon pine, 4 ins.dia., bears S.42° 30'E. 108 lks.dist., mkd.T 36 S R 11 W S 1 B T

A pinon pine, 6 ins.dia.bears S.45° 20'W. 130 lks. dist., mkd.T 36 S R 11 W S 2 B T

Land, mountainous.

Soil, gravelly and clay; 3rd rate.

Timber, cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land 74.37 chs.

Exceptionally difficult to survey 20.90 chs.

June 29, 1908.

Boundaries of T. 36 S. R. 11 W.

Latitudes, Departures, and Closing Errors.

Line Designated	Course	Dist.	Latitudes, N.	Latitudes, S.	Departures, E.	Departures, W.
		chs.	chs.	chs.	chs.	chs
S.bdy. T.36 S.R.11 W.	N.89°45'W.	281.95	1.23	.....	.....	281.
S.bdy. T.36 S.R.11 W.	West	140.00	.....	.....	.....	140.
W.bdy. sec.33	N. 0° 6'W.	81.00	81.00	.....	.....	.....
N.bdy. sec.33,	East	80.26	.....	.....	80.26	.....
W.bdy. sec.27,	N.0° 05'E.	80.64	80.64	.....	.12	.....
N.bdy. sec.27	East	80.55	.....	.....	80.55	.....
W.bdy. sec.23	N.0° 06'W.	82.12	82.12	.....	.....	
N.bdy. sec.23,	N.89°54'E.	78.63	.14	.....	78.63	.....
N.bdy. sec.24,	S.89°53'E.	81.95	.....	.16	81.95	.....
E.bdy. T.36 S.R.11 W.	S. 0°17'E.	80.22	.....	80.22	.40	.....
E.bdy. T.36 S.R.11 W.	S. 0° 7'E.	164.44	.....	164.44	.33	.....
Convergency					.14	
Totals			245.13	244.82	322.38	322.
			244.82		322.23	
Error in lat. and dep.			.31		.15	

Subdivision of T. 36 S., R. 11 W.

Latitudes, Departures, and Closing Errors.

Line Designated	Course	Dist.	Latitudes, N.	Latitudes, S.	Departures. E.	Departures. W.
		chs.	chs.	chs.	chs.	chs.
S.bdy.sec.12,Sub. T.36 S.R.11 W.	N.89° 35'W.	81.92	60	.....	.....	81.92
W.bdy.sec.12, Sub. T.36 S., R. 11 W.	North	80.00	80.00	.....	.....	.....
S.bdy.sec.2, Sub. T.36 S.R.11 W.	S.89° 27'W.	80.28	.....	77	.....	80.28
W.bdy.sec.2,Sub. T.36 S.R.11 W.	N.0° 26'W.	75.63	75.63	.....	.....	.57
N.bdy. T.36 S. R.11 W.	East	2.17	.....	.....	2.17	.....
	S.89°21'E.	40.42	.....	45	40.42	.....
	N.89°39'E.	40.06	.21	.....	40.06	.....
	S.89°50'E.	79.84	.....	23	79.84	.....
E.bdy.T.36 S. R.11 W.	South	154.68	.....	154.68	.....	.....
Convergency					.05	
Totals			156.44	156.13	162.54	162.77
Error in lat.			156.13			162.54
			.31			
Error in dep.						.23

GENERAL DESCRIPTION.

This fractional township lies in broken mountainous country, immediately adjoining Cedar City. The ridges have a general northwesterly trend toward Cedar Creek, which runs through the central part of the township.

The township is covered with a heavy growth of cedar and pinon pine timber, which is of a scrubby nature and fit for fuel only. There is some scattering oak and buck brush and saplings in the southern part of the township!

There are no settlers in the part of the township surveyed by me,

I found no trace of mineral, except some outcrops

Subdivision of T. 36 S., R. 11 W.

of gypsum.

The soil is usually gravelly loam and clay; 2nd and 3rd rate.

June 29, 1908.

Leo A. Snow,

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and

king the lines and corners described in the foregoing field notes of the survey of .....

.....

ving the respective capacities in which they acted:

list of names and final oath of assistants for 1908 see ....., *Chainman.*

book "U" T.40 S., R. 10½ W. ....., *Chainman.*

....., *Moundman.*

list of names and final oath of assistants for 1910 see ....., *Moundman.*

book "G" T.37 S., R. 10 W. ....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

parts or portions of the .....

.....

.....

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

..... meridian, ... of ....., which are represented

e foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the er monuments established, according to the instructions furnished by the United States Surveyor

ral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

cribed and sworn to before me this .....

lay of ....., 190

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract 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 deputy for 1908 see book "U" T.40 S., R. 10½ W.

For final oath of deputy for 1910 see book "G" T.37 S., R. 10 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; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....
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, Feb.20,1912, 190

The foregoing field notes of the survey of the subdivisional lines of Township No.36 South, Range No.11 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A.Snow under his contract No. 304, dated May 14, 190 8, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kell
United States Surveyor General.

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

.....
United States Surveyor General.

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BOOK A-366

D.

FIELD NOTES

OF THE ~~SURVEY~~ Retracement OF THE

SEVENTH STANDARD PARALLEL SOUTH,

through

Range No.11 West,

Of the Salt Lake Base and *Meridian,*

State of Utah,

AS SURVEYED BY

Leo A.Snow, *United States Deputy Surveyor,*

his Contract No. 304, *dated* May 14,1908., *1890*

cement
commenced June 30,1908., *1890*

cement
completed June 30,1908., *1890*

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2-00-64

BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M. Woodbury	Moundman
N. Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

For preliminary [illegible] of assistants see book

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BOOK A-366

INDEX DIAGRAM.

Township 36 South, *Range* 11 West

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BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M. Woodbury	Moundman
N. Henry Savage	Moundman
Ross Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

BOOK A-366

INDEX DIAGRAM.

Township 36 South, *Range* 11 West

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Meanders Page

Retracement 7th Standard Parallel South, through Range 11 W. Contd.

Chains	
40.06	Fall 12 lks.S.of the standard ¼ sec.cor.on S.bdy.sec.36, which is sandstone,10x18x15 ins.above ground,firmly set and mkd and witnessed as described by the surveyor general,except that the bearing trees have been cut down. I therefore mark new bearing trees as follows : A pinon pine,6 ins.dia.,bears N.71°45'E.,34 lks. dist..mkd. S C ¼ S 36 B T.
	A pinon pine,7 ins.dia.,bears N.12°W.,58 lks. dist.mkd. S C ¼ S 36 B T.
80.16	Fall 23 lks.S.of the standard cor.of secs.35 and 36, heretofore described.
	The course of this line is therefore N.89°50'W.,80.16 chs.

West,on retracement line along south bdy.sec.35.

2.16	The closing cor.of secs.1 and 2,heretofore described.
40.06	Fall 25 lks.N.of the standard ¼ sec.cor.on S.bdy.sec.35, which is a sandstone,10x12x10 ins.,above ground,firmly set, and mkd.and witnessed as described by the surveyor general.
80.48	Fall 21 lks.S.of the standard cor.of secs.34 and 35, which is a sandstone,9x10x8 ins.,above ground,firmly set and mkd.and witnessed as described by the surveyor general.
	The course of the east half of this mile is therefore S.89°39'W. 40.06 chs., and the west half is N.89°21' W.40.42 chs.
	Note:No change in topography from original notes.

Retracement 7th Standard Parallel South, through R.11 W.

June 30, 1908.

Leo A. Swan

U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Leo A. Snow, United States Deputy Surveyor, to assist in running, measuring, and king the lines and corners described in the foregoing field notes of the retracement of Seventh ndard Parallel South, through Range 11 West, Salt Lake Base and Meridian. tah, ving the respective capacities in which they acted:

Menzies Macfarlane, *Chainman.*

Reuben Stratton, *Chainman.*

Angus M. Woodbury, *Moundman.*

N. Henry Savage, *Moundman.*

Rass Macfarlane, *Axman.*

Samuel Brooks, *Axman.*

Grant Gregerson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in Retraceing all e parts or portions of the Seventh Standard Parallel South, through Range 11 st, of the Salt Lake se and meridian, State of Utah, which are represented e foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the er monuments established, according to the instructions furnished by the United States Surveyor eral for Utah

Menzies Macfarlane, *Chainman.*

Reuben Stratton, *Chainman.*

Angus M. Woodbury, *Moundman.*

N. Henry Savage, *Moundman.*

Rass Macfarlane, *Axman.*

Samuel Brooks, *Axman.*

Grant Gregerson, *Flagman.*

scribed and sworn to before me this 28th day of September, 1908.

SEAL

Leo A. Snow

U. S. Deputy Surveyor.

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BOOK A-366

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of 14th day of May, 1908, 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 Utah, the Manual of Surveying Instructions, and the laws of United States, ~~surveyed~~ Retraced all those parts or portions of Seventh Standard Parallel South through Range 11 West,

of the Salt Lake Base and meridian, in the State of Utah, which are represented in foregoing field notes as having been ~~surveyed~~ retraced by me, and under my direction; and I do further solem swear that all the corners of said ~~survey~~ retracement 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 Utah and in the specific manner described in the field notes, and t the foregoing are the original field notes of such ~~survey~~ retracement.

Leo A. Snow
United States Deputy Survey

Subscribed by said Leo A. Snow, and sworn to before me this 8th day of April, 1909.

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 190

The foregoing field notes of the survey of the retracement of the Seventh Stand ard Parallel South, through Range No. 11 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A. Snow under his contract No. 304, dated May 14, 1908, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and th ~~surveys~~ retracements 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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BOOK A-366

FILED
APR 8 1909

E.

FIELD NOTES

Refiled May 9, 1911.

Retracement
OF THE ~~SURVEY~~ OF THE

EAST BOUNDARY

of

Township No.37 South, Range No.10 West,

Of the Salt Lake Base and *Meridian,*

State of Utah,

AS SURVEYED BY

Leo A Snow, *United States Deputy Surveyor,*

er his Contract No. 304, *dated* May 14,1908, ~~100~~

acement
ey commenced July 7,1908, x ~~100~~

acement
ey completed August 6, 1910, ~~100~~ x

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2-00-21

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M. Woodbury	Moundman
N. Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

For preliminary oaths of assistants see book "A" Tp. 36 S., R. 11 W. for 1908.

1910:

John H. Cottam,	Chainman.
Eldon Snow,	Chainman.

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BOOK A-366

INDEX DIAGRAM.

Township 37 S., *Range* R. 10 W.

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, John H. Cottam and Eldon Snow 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 retracement survey of E.Bdy.Sec.13 T.37 S., R.10 W. of the Salt Lake Base and Meridian, Utah

John H Cottam, Chainman

Eldon Snow, Chainman

Subscribed and sworn to before me this 5th day of August 1910., 190

Leo A. Snow.

SEAL

Notary Public.

My commission expires Feb.14 1913.

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

....., Moundman

....., Moundman

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

SEAL

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

....., Axman

....., Axman

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

SEAL

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

....., Flagman.

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

SEAL

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1;

Retracement E.bdy.T.37S.,R.10 W.

Survey commenced July 7,1908,and executed with a Young and Sons light mountain transit No.7382,with solar attachment.The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct,and was approved by the surveyor general,for Utah,on June,8,1908.

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

At the cor.of secs.24 and 25,on E.bdy.of Tp.,latitude 37°34'42"N.,longitude 112°52'36"W.,I set off 37°35'N., on the lat.arc;22°35'N.,on the decl.arc;and at 3 h 5 m p.m.,l.m.t.,I determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.

July 7,1908.

July 8,1908:At 0 h 27.4 m a.m.,l.m.t.,I observe Polaris at eastern elongation in accordance with the Manual, and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground,5.00 chs. N.of the cor.

At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°29'to the west,and mark a point in the meridian thus determined by cutting a small groove in the stone already

Retracement of E.bdy.of T.37 S.,R.10 W.-Continued.

Chains set 5.00 chs.N.of the cor.;on which the meridian falls 0.38 ins.east of the meridian establihed by the solar. At 7 h 5 m a.m.,l.m.t.,I set off 37°35'N.,on the lat.arc; 22°31'N.,on the decl.arc;and mark the meridian determined with the solar,by a cross on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.31 ins. east of the meridian established by Polaris observation .

The solar apparatus by p.m.,and a.m.observations defines positions for meridians respectively about 0'20"west and 0'16"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h 30 m a.m., is N.16°35'W.,the angle thus determined gives the mag. decl.16°35'E.

From the cor.of secs.24 and 25,on E.bdy.of T.,which is a volcanic stone 6x7x7 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

Note:Before commencing the subdivision of T.37 S.,R.10 W. I proceed to retrace part of the east bdy.of the Tp.as follows:

North,on retracement line along the east bdy.sec.24 .

40.36 Fall 12 lks.W.of the ¼ sec.cor.on E.bdy.sec.24,which is a volcanic stone,6x6x5 ins.above ground,firmly set, and mkd.and witnessed as described by the surveyor general.

71.53 Fall 20 lks.W. of the closing cor.of secs.18 and 19 T.36 S.,R.9 W.,which is a volcanicstone8 x10x7 ins., above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

Retracement of E.bdy.T.37 S.,R.10 W.- Continued.

ains. 0.76	Fall 23 lks.W.of the cor.of secs.13 and 24, which is a volcanic stone 8 x 20 x 10 ins.in mound of stone, firmly set, and mkd.and witnessed as described by the surveyor general. The course of this line is therefore N.0° 10'E. 80.76 chs. No change in topography from original notes. July 8, 1908.

Note:
Finding that the retracement of the line between secs.13 and 18 made by me in 1908, was in error, I now rerun the line as follows:

Survey commenced Aug.5, 1910, and executed with a Young and Sons light mountain transit No.7382, with a solar attachment.

The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

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

At the cor.of secs.13 and 24 on the E.bdy.of Tp. lat.37° 35' 34" N.: long.112° 52' 36" W., I set off 37° 36'N. on the lat.arc; 17° 03'N.on the decl.arc; and at 3h. 6m.p.m.l.m.t., I determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5.00 chs.N.of the cor.

At 10h. 37m.p.m.l.m.t.. I observe Polaris at eastern elongation in accordance with the Manual, and mark a

Chains. point in the line thus determined by a tack driven in a wooden plug set in the ground 5.00 chs.N.of the cor. August 5. 1910.

August 6: At 6 h. 30 m.a.m.l.m.t.. I lay off the azimuth of Polaris 1° 29' to the west, and mark a point in the meridian thus determined by cutting a groove in the stone already set 5.00 chs.N.of the cor., on which the meridian falls 0.4 ins.west of the meridian established by the solar.

At 7 h. 36 m.a.m.l.m.t., I set off 37°36'N.on the lat. arc; 16° 52'N.on the decl.arc; and mark the meridian thus determined with the solar by a cross on the stone already set 5.00 chs.N.of the cor.; the mark falls 0.30 ins.west of the meridian established by Polaris observations.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 21" east and 16" west of the meridian established by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

From the cor.of sec.13 and 24 on E.bdy.of Tp., I run North on retracement line along the E.bdy.of sec.13,

39.52 Fall 65 lks.E.of the ¼ sec.cor.on E.bdy.sec.13, which is an aspen 5 ins.in dia., marked and witnessed as described by the surveyor general.

The tree is dead and decaying; therefore I destroy it, and set a volcanic stone 12 x 10 x 8 ins., 8 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Retracement of E.Bdy.T.37 S., R. 10 W. - Continued.

ains.
).44 Fall 26 lks.east of the cor.of secs.7.12.13, and 18, which is a sandstone 8 x 10 x 7 ins.above ground, firmly set and marked and witnessed as described by the surveyor general.

The course of the first half mile is therefore N.0° 56' W. 39.53 chs., and the 2d half mile N.0° 34'E. 39.92 chs.

No change in topography from original notes.

Sky overcast and latitude observation impossible.

Leo A. Snow.
U.S.Deputy Surveyor.

August 6, 1910

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and

g the lines and corners described in the foregoing field notes of the survey of .....

.....

g the respective capacities in which they acted:

list of names and final oaths of assistants for 1908....., *Chainman.*

e book "T", T. 40 S., R. 10 W. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

arts or portions of the .....

.....

.....

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

..... meridian, ... of ....., which are represented

oregoing field notes as having been surveyed by him and under his direction; and that said survey

en in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

monuments established, according to the instructions furnished by the United States Surveyor

l for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

ibed and sworn to before me this .....

y of ....., 190

SEAL

.....

.....

[illegible]

FINAL DATA OF VOTES STATES REPORT [illegible]

[illegible]

[illegible]

[

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Leo A. Snow, United States Deputy Surveyor, to assist in running, measuring, and ...g the lines and corners described in the foregoing field notes of the ~~survey~~ retracement of E. Bdy. Sec. 13 S., R. 10 W. of the Salt Lake Base and Meridian, Utah. ...g the respective capacities in which they acted:

John H. Cottam, *Chainman.*

Eldon Snow, *Chainman.*

, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in ~~surveying~~ retracing all ...arts or portions of the East Boundary of Sec. 13 T. 27 S., R. 10 W. of the Salt Lake ...and meridian, State of Utah, which are represented ...oregoing field notes as having been surveyed by him and under his direction; and that said survey ...n in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor ...l for Utah.

John H Cottam, *Chainman.*

Eldon Snow, *Chainman.*

, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

, *Flagman.*

...ibed and sworn to before me this 6th ...y of August 1910. xxxx

Leo A. Snow

Notary Public.

SEAL

My commission expires Feb. 14, 1912.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date the 14 day of May, 1908, 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 Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed~~ retraced all those parts or portions of E. Bdy. of Sec. 13 Township 27 South Range 10 West

of the Salt Lake Base and meridian, in the State of Utah, 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ~~survey~~ retracement.

Leo A. Snow.
United States Deputy Surveyor.

Subscribed by said Leo A. Snow, and sworn to before me this 2nd day of May, 1911.

John D. Woodbury
Clerk Fifth Judicial District Court
Washington County, Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 20 1911

The foregoing field notes of the ~~survey of~~ retracement of the East Boundary of Township 37 South, Range 10 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A. Snow under his contract No. 304, dated May 14, 1908, having been critically examined, and the necessary corrections ~~and explanations~~ made, the said field notes, and the ~~surveys~~ retracements 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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BOOK A-366

F.

FIELD NOTES

Refiled May 9, 1911.

RETRACEMENT
OF THE ~~SURVEY~~ OF THE

SUBDIVISION

of

Township No.37 South, Range No.10 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

r his Contract No. 304, *dated* May 14, 1908, ~~190~~

ecement
y commenced July 9, 1908, ~~190~~

ecement
y completed August 6, 1910, ~~190~~

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NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M.Woodbury	Moundman
N.Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

For preliminary oaths of assistants see book "B" Tp.36 S., R. 11 W. for 1908.

1910:

John H.Cottam.	Chainman.
Eldon Snow,	Chainman.

BOOK A-366

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Township 37 S., *Range* 10 W.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, John H. Cottam and Eldon Snow do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level t chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; tl 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

Retracement of N.Bdys. Secs. 13 and 14 T. 37 S., R. 10 W. S.L.B.&M. Utah.

John H Cottam, Chainm

Eldon Snow, Chainm

Subscribed and sworn to before me this 5th day of August, 1910

Leo A Snow.

SEAL

My commission expires Feb.14,1913.

Notary Public.

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

.....

....., Moundm

....., Moundm

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

SEAL

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

.....

....., Axm

....., Axm

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

SEAL

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

....., Flagm

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

SEAL

6—151

Retracement Subdivision of T. 37 S., R. 10 W.

Chains. Survey commenced July 9, 1908, and executed with a Young and Sons light mountain transit No.7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on June 8, 1908.

At the cor.of secs.12 and 13, on E.bdy.of Tp., heretofore described, lat.37° 36' 26" N.; long.112° 52' 36" W., I set off 37° 36'N.on lat.arc; 22° 24'N.on decl. arc; and at 7 h. 5 m.a.m.l.m.t., determine a meridian with the solar.

Note: For complete test of instrument see notes of retracement of E.bdy.T.37 S., R. 10 W.

Note:

Having been ordered into the field for the purpose of making corrections disclosed by the field examination, I proceed to again retrace some of the lines retraced by me in 1908, adjoining the sections needing correction.

Corrective survey commenced Aug.6, 1910, and executed with above described instrument.

At the cor.of secs.12 and 13 on E.bdy.of Tp., heretofore described; lat.37° 36' 26" N.; long.112° 52' 36" W., I set off 37° 36'N.on the lat.arc; 16° 47'N.on the decl.arc; and at 3 h. 6 m.p.m.l.m.t.I determine a meridian with the solar.

Thence I run

West on retracement line bet.secs.12 and 13,

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

4.00 Top of ridge, 75 ft.above cor., bears NW. and SE.

Retracements Subdivisions T. 37 S., R. 10 W.-Continued.

Chains.	Desc.
19.00	Creek 10 lks.wide, 3 ins.deep, in bottom of canon, 200 ft.below ridge, course N.15° W.
19.65	Road, bears N.15° W.and S.15° E.
	Enter heavy aspen timber, bears N.15° W. and S.15° E.
22.10	Creek, 2 lks.wide, 2 ins.deep, in mouth of canon, course N.10° E. Asc.
24.15	Spring branch 2 lks.wide, 1 in.deep, course N.25° E.
26.70	Begin abrupt ascent, bears N. and S.
32.60	Top of ridge, 150 ft.above canon, bears N.30° E. and S. 30° W. Desc.
35.00	Spring branch, 2 lks.wide, 1 in.deep, course N., in bottom of hollow, 10 ft.below ridge, course N. Asc.
39.15	Begin abrupt ascent, bears N. and S.
40.10	Fall 42 lks.N.of ¼ sec.cor.bet.secs.12 and 13, which is an aspen 6 ins.dia., mkd.and witnessed as described by the surveyor general.
	The tree cor.is almost decayed, therefore I destroyed it and set a cor.in its place as follows:
	Set a volcanic stone 16 x 12 x 8 ins., 11 ins.in the ground, for ¼ sec.cor., mkd.¼ on N.face; from which
	An aspen 3 ins.dia.bears N.55° W. 14 lks.dist. mkd.¼ S 12 B T
	An aspen 10 ins.dia.bears S.49° 30'E. 32 lks.dist. mkd.¼ S 13 B T
44.50	Top of ridge, 100 ft.above hollow, bears N. and S. Desc.
54.90	Creek 3 lks.wide, 2 ins.deep, in hollow, 150 ft.below ridge, course N.
80.00	Fall 84 lks.N.of the cor.of secs.11.12.13, and 14,which is a volcanic stone 18 x 10 x 6 ins. above ground, marked and witnessed as described by the surveyor general.
	The bearing trees were partly dead and decaying; there-

Retracements Subdivisions T. 37 S., R. 10 W.- Continued.

Chains. fore I marked new trees as follows:

An aspen 16 ins.dia.bears N.32° 30'E. 54 lks.dist. mkd.T.37 S R 10.W S.12 B T

An aspen 8 ins.dia.bears S.60° 30'E. 28 lks.dist. mkd.T.37 S.R 10 W.S 13 B T

An aspen 10 ins.dia.bears S.88° 00'W. 20 lks.dist. mkd.T 37 S R 10 W S.14 B T

An aspen 7 ins.dia.bears N.62° 00'W. 24 lks.dist. mkd.T 37 S R 10 W S 11 B T

Land, mountainous.

Soil, gravelly loam; 2nd rate.

Timber, cedar pinon pine, and aspen.

Undergrowth, oak and aspen saplings.

Good grass for grazing.

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

The course of this line is therefore S.89°.24'W. 80.00 chs.

N.89° 42'W.on a retracement line bet.secs.11 and 14, Over mountainous land; through heavy timber and scattering undergrowth. Asc.

13.30 Leave timber, bears N. and S.; enter volcanic rock, bears N. and S. Desc.

22.75 Leave rocks bear N. and S.; enter heavy aspen timber, bears N. and S.Desc.

25.20 Bottom of hollow, 100 ft.below rocks, course N. Asc.

32.80 Enter rocks, bear N. and S.

40.06 Fall 153 lks.S.of the ¼ sec.cor.bet.secs.11 and 14, which is a volcanic stone 10 x 8 x 18 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

I mark bearing trees as follows:

Retracement Subdivision T. 37 S., R. 10 W.- Continued.

Chains.	
	An aspen 6 ins.dia.bears N.58° W. 24 lks.dist., mkd.½ S.11 B T.
	An aspen 10 ins.dia., bears S.12° 30'W. 18 lks. dist., mkd.½ S 14 B T
58.40	Foot of volcanic ledge, 80 ft.high, bears N. 30° W. and SE.
60.50	Top of ridge, 200 ft.above hollow, bears N.30° W. and SE.
79.18	Fall 302 lks.S.of the cor.of secs.10.11.14, and 15, which is a volcanic stone 6 x 12 x 5 ins., firmly set and marked and witnessed as described by the surveyor general.
	The course of this line is therefore N.87° 31'W. 79.24 chs.for the whole mile and 40.09 for the first half-mile.
	Land, mountainous.
	Soil, gravelly loam; 2nd rate.
	Timber, pine and aspen.
	Undergrowth, oak and aspen saplings.
	Good grass for grazing.
	Mountainous or heavily timbered land 79.24 chs.
	Exceptionally difficult to survey 79.24 chs.
	August 6, 1910.

	July 9, 1908: At this cor.I set off 22° 21'N.on the decl.arc; and at 0 h. 5 m.p.m.l.m.t., I observe the sun on the meridian; the resulting lat.is 37° 36'N. which is the proper lat.nearly.
	South on retracement line bet.secs.14 and 15.
	Over mountainous land; through heavy aspen timber.
	Desc.
27.00	Creek 5 lks.wide, 2 ins.deep, in canon, 350 ft.below cor. course W.

Retracement of Sub.T.37 S.,R.10 W.-Continued.

Chains	
	Asc.
40.00	Intersect the ¼ sec.cor.bet.secs.14 and 15,which is a sandstone,6x10x4 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
	I mark bearing trees as follows:
	An aspen,6 ins.dia.,bears S.53° 30'E.,14 lks. dist..mkd.¼ S 14 B T.
	An aspen,6 ins.dia.,bears N.43° W.,10 lks. dist..mkd.¼ S 15 B T.
51.00	Begin steep ascent,bears E.and W.
56.00	Top of ridge,500 ft.above hollow,bears E.and W.
	Desc.
61.00	Descend abruptly,bears E.and W.
81.88	Fall 121 lks.East of the cor.of secs.14,15,22,and 23, which is a sandstone,6x8x6 ins.above ground,firmly set, and mkd.and witnessed as described by the surveyor general.
	I raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	The course of the south half of this line is therefore S.1°39'W. 41.90 chs.,and the north half is south ,40.00 chs.
	Land,mountainous .
	Soil,gravelly loam;2nd rate.
	Timber,aspen and pine.
	Undergrowth,aspen sapplings.
	Good grass for grazing.
	Mountainous or heavily timbered land,81.90 chs.
	Exceptionally difficult to survey,81.90 chs.

July 9,1908.

Retracement of Subdivision of T.37 S.,R.10 W.-Continued.

Chains	
	July 10,1908:At 7 h 5 m a.m.,l.m.t.,I set off 37°36'N., on the lat.arc;22°16'N.,on the decl.arc;and determine a meridian with the solar at the cor.of secs.14,15,22,and 23.
	Thence I run
	South,on retracement line bet.secs.22 and 23.
	Over mountainous land;through heavy aspen timber .
	Desc.
10.00	Fence ,bears E.and W.
40.81	Falls 15 lks.west of ¼ sec.cor.,bet.secs.22 and 23., which is a volcanic stone,6x12x5 ins.,above ground, firmly set,as described by the surveyor general but the trees witnessing the cor.have been destroyed(one cut down and the other decayed)therefore I mark new bearing trees as follows:
	An aspen,10 ins.dia.,bears S.63°10°E.,57 lks.dist..mkd.¼ S 23 B T.
	An aspen,8 ins.dia.,bears S.78°30'E.,64 lks. dist..mkd.¼ S 22 B T.
65.00	Creek,3 lks.wide,2 ins.deep,in bottom of hollow,200 ft.below ¼ sec.cor.,course S.10°W.
	Asc.
75.00	Creek,3 lks.wide,3 ins.deep,in bottom of hollow 50 ft. deep,course S.10°W.
	Asc.
80.57	Fall 14 lks.East of the cor.of secs.22,23,26,and 27, which is a volcanic stone,6x10x8 ins.,above ground, firmly set and mkd.and witnessed as described by the surveyor general. But the bearing trees all dead and partly decayed so that the markings are almost obliterated. I therefore mark new bearing trees as follows:
	An aspen,7 ins.dia.,bears S.69°5'E.,23 lks. dist..mkd.T 37 S R 10 W S 23 B T.

Retracement of Subdivision of T.37 S.,R.10 W.-Continued.

Chains

An aspen,7 ins.dia.,bears S.46° 30'E.,23 lks. dist..mkd. T 37 S R 10 W S 26 B T.

An aspen,7 ins.dia.,bears S.13° 15'W.,84 lks. dist..mkd.T 37 S R 10 W S 27 B T.

An aspen 8 ins.dia.,bears N.59°W.,28 lks. dist..mkd.T 37 S.,R.10 W S 22 B T.

The course of the north half of this mile is therefore S. 0°12'W.,40.81 chs.

The course of the south half of this mile is therefore S.0° 25'W.,39.76 chs.

Land,mountainous .

Soil,gravelly loam;2nd rate.

Timber,pine and aspen.

Undergrowth,aspen saplings.

Good grass for grazing.

Mountainous or heavily timbered land,80.57 chs.

Exceptionally difficult to survey,80.57 chs.

East,on a retracement line bet.secs.23 and 26.

Over mountainous land;through heavy aspen and pine timber, Asc.

17.00 Road,bears NW and SE.

17.90 Creek,4 lks. wide,3 ins.deep,course NW.

40.09 Fall 1 lk. N. of the ¼ sec.cor. bet.secs.23 and 26, which is an aspen,12 ins.dia.,mkd.and witnessed as described by the surveyor general.

The tree cor.and the bearing trees are all dead and if left standing would soon be decayed;therefore I destroy the tree cor.and the bearing trees and establish a new cor. in the same place as follows:

Retracement of Subdivision of T.37 S.,R.10 W.-Continued.

Chains

Set a sandstone,16x10x8 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which

An aspen,5 ins.dia.,bears N.8° 20'E.,22 lks. dist.mkd.¼ S 23 B T.

An aspen,6 ins.dia.,bears S.70° W.,46 lks. dist..mkd.¼ S 26 B T.

47.00 Creek,4 lks.wide,2 ins.deep,in bottom of canon,course S.80° W.

Asc .

78.00 Top of ridge,800 ft.above sec.cor.,bears N.30° E.and S.30° W.

Desc.

80.59 Fall 47 lks.N.of the cor.of secs.23,24,25,and 26, which is a volcanic stone,5x12x10 ins.,above ground, firmly set,and mkd.and witnessed as described by the surveyor general.

The bearing tree is nearly decayed therefore I mark new bearing trees as follows:

An aspen,4 ins.dia.,bears N.64° 30'E.,58 lks dist..mkd.T 37 S R 10 W S 24 B T.

An aspen,5 ins.dia.,bears S.70° 45'E.,76 lks. dist..mkd. T 37 S R 10 W S 25 B T.

An aspen,3 ins.dia.,bears S.63° W.,21 lks. dist..mkd.T 37 S R 10 W S 26 B T.

An aspen,3 ins.dia.,bears N.54° 30'W.,22 lks. dist..mkd.T 37 S R 10 W S 23 B T.

The course of the west half of this mile is therefore East 40.09 chs. and the east half is S.89° 20'E.,40.50 chs.

Land,mountainous .

Soil,gravelly loam;2nd rate.

Timber,aspen and pine.

Good grass for grazing.

Retracement of Sub.T.37 S.,R.10 W.-Continued.

Chains	
	Mountainous or heavily timbered land,80.59 chs.
	Exceptionaly difficult to survey,80.59 chs.
	July 10,1908:At this cor. I set off 22°14'N. ,on the decl. arc;and at 0 h 5 m p;m..,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°35'N.,which is the proper lat.nearly .
	N.89°43'E.,on a retracement line bet.secs.24 and 25.
40.20	Intersect the ¼ sec.cor.bet.secs.24 and 25,which is a volcanic stone,4x8x7 ins.,above ground,firmly set,and mkd.and witnessed as desribed by the surveyor general.
80.50	Intersect the cor.of secs.24 and 25,heretofore described.
	The course of this line is therefore N.89°43'E.,80.50 chs.
	No change in topography from original notes.
	July 10,1908.
	Leo A. Snow
	U.S.Deputy Surveyor .

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Leo A. Snow, United States Deputy Surveyor, to assist in running, measuring, and king the lines and corners described in the foregoing field notes of the ~~survey~~ retracement of Subdivision 36 S., R.11 W., and T.37 S., R.10 W., Salt Lake Base and Meridian, ving the respective capacities in which they acted:

Menzies Macfarlane, *Chainman.*
Reuben Stratton, *Chainman.*
Angus M. Woodbury, *Moundman.*
N. Henry Savage, *Moundman.*
Rass Macfarlane, *Axman.*
Samuel Brooks, *Axman.*
Grant Gregerson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in ~~surveying~~ retracing all e parts or portions of the Subdivision of T.36 S., R.11 W., and T.37 S., R.10 W., of the Salt Lake Base and meridian, State of Utah, which are represented e foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the er monuments established, according to the instructions furnished by the United States Surveyor eral for Utah.

Menzies Macfarlane, *Chainman.*
Reuben Stratton, *Chainman.*
Angus M. Woodbury, *Moundman.*
N. Henry Savage, *Moundman.*
Rass Macfarlane, *Axman.*
Samuel Brooks, *Axman.*
Grant Gregerson, *Flagman.*

scribed and sworn to before me this 28th day of September, 1908.

SEAL

Leo A. Snow
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of 14th day of May, 1908, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surve General for Utah, the Manual of Surveying Instructions, and the laws of United States, ~~surveyed~~ retraced all those parts or portions of Subdivision of T.36 S., R.11 W., and T.37 S., R.10 W., Sa

of the Salt Lake Base and meridian, in the State of Utah, which are represented in in books "B" & "F" foregoing field notes as having been ~~surveyed~~ retraced by me, and under my direction; and I do further solem swear that all the corners of said ~~survey~~ retracement 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 Utah and in the specific manner described in the field notes, and t the foregoing are the original field notes of such ~~survey~~ retracement.

Leo A. Snow
United States Deputy Survey

Subscribed by said Leo A. Snow, and sworn to before me this 8th day of April, 1909.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 190

The foregoing field notes of the ~~survey~~ of the retracement of the Subdivisional lines of fractional Township No. 37 South, Range No. 10 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A. Snow under his contract No. 304, dated May 14, 1908, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and t ~~surveys~~ retracements they describe, are hereby approved.

Thomas Hull
United States Surveyor Genera

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

United States Surveyor Genera

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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 Leo A. Snow, United States Deputy Surveyor, to assist in running, measuring, and g the lines and corners described in the foregoing field notes of the survey of Retracement Bdys. Secs. 13 and 14 T. 37 S., R. 10 W. S.L.B.& M., Utah, g the respective capacities in which they acted:

hn H. Cottan, *Chainman.*
don Snow, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
, *Flagman.*

FINAL OATH OF ASSISTANTS.

Ve hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in surveying all rts or portions of the N. Bdys. secs. 13 and 14 T. 37 S., R. 10 W. of the L. meridian, State of Utah, which are represented oregoing field notes as having been surveyed by him and under his direction; and that said survey n in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the nonuments established, according to the instructions furnished by the United States Surveyor for Utah

John H. Cottam, *Chainman.*
Eldon Snow, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
, *Flagman.*

ed and sworn to before me this 6th of August 1910, 190

SEAL

Leo A. Snow
Notary Public.

My commission expires Feb. 14, 1913.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surve
solemnly swear that, in pursuance of a contract received from Thos. Hull
United States Surveyor General for Utah, bearing date
14th day of May 1908, 190 , I have well, faithfully, and truly, in n
proper person, and in strict conformity with the instructions furnished by the United States Su
General for Utah, the Manual of Surveying Instructions, and the laws
United States, surveyed all those parts or portions of
N. Bdys. Secs. 13 and 14 T. 37 S., R. 10 W.

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

Leo A. Snow
United States Deputy Su

Subscribed by said Leo A. Snow, and sworn to before me
this 2nd day of May, 1901.

John T. Woodhu
Clerk Dist. C

SEAL

Fifth Judicial Dist
Washington Co.,

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 20, 1912.

The foregoing field notes of the ~~xxxxxxxx~~ retracement of subdivisional li
Township No. 37 South, Range No. 10 West of the Salt Lake Base a
Meridian, Utah,

executed by Leo A. Snow
under his contract No. 304, dated May 14, 1908, havin
critically examined, and the necessary corrections and explanations made, the said field notes, a
~~surveys~~ retracements they describe, are hereby approved.

Thomas Hull
United States Surveyor G

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

United States Surveyor G

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BOOK A-366

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APR 8 1909

G.

FIELD NOTES

Refiled May 9, 1911.

OF THE SURVEY OF THE

SUBDIVISION

of

Township No.37 South, Range No.10 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

er his Contract No. 304, *dated* May 14,1908. ~~1900~~

ey commenced July 10,1908. ~~1900~~

ey completed August 8,1910. ~~1900~~

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4-01-20

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NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M.Woodbury	Moundman
N.Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

For preliminary oaths of assistants see book "C" Tp.36 S., R. 11 for 1908.

1910:

John H.Cottam	Chainman.
Eldon Snow,	Chainman.

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For preliminary affidavits 1910 see book "C" T. 36 S., R. 11 W.

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PRELIMINARY OATHS OF ASSISTANTS.

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

.....*, Cha*

.....*, Cha*

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

SEAL

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

.....*, Mou*

.....*, Mou*

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

SEAL

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

.....

.....

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

SEAL

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

.....,

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

SEAL

Subdivision T.37 S.,R.10 W.-

Survey commenced July 10,1908,and executed with a Young and Sons light mountains transit,No.7382,with solar attachment .The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs.

The instrument was examined ,tested on the meridian at Salt Lake City,found correct,and was approved by the surveyor general for Utah,on June 8,1908.

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

At the cor.of secs.23,24,25,and 26,heretofore described, latitude 37° 34'42"N.,longitude 112° 53'42"W.,I set off 37° 35'N.,on the lar.arc;22° 13'N.,on the decl.and at 5 h 5 m p.m.,l.m.t.,I determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.

July 10,1908.

July 11,1908,0 h 16 m a.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with the Manual,and I mark a point in the line thus determined by a tack driven in a wooden plug set in the ground,5.00 chs.

N.of the cor.

At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1° 29'to the west and mark a point in the meridian thus determined by cutting a small groove in the stone

Subdivision of T.37 S.,R.10 W.-Continued.

Chains	
	already set 5.00 chs.N.of the cor.;this mark falls 0.37 ins.east of the meridian determined with the solar.
	At 7 h 5 m a.m.,l.m.t.,I set off 37° 35'N.,on the lat.arc; 22° 9'N.,on the decl.arc;and determine a meridian with the solar and mark a point thereof on the stone already set 5.00 chs.N.of the cor.;on wich the meridian falls 0.30 ins.east of the meridianestablished by Polaris observation.
	The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'19"west and 0'16"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of themeridian,at 7 h 30 m a.m., is N.16° 30 'W.,the angle thus determined gives the mag.decl.16° 30'E.
	———
	From the cor.of secs.23,24,25,and 26.
	I run
	N.0° 1'W.,bet.secs.23 and 24.
	Over mountainous land;through heavy timber .
	Asc.
5.00	Top of ridge,100 ft.above cor.bears N.30° E.and S.30° W.
	Desc.
38.80	Enter rock slide,bears E.and W.
40.00	Set a black volcanic stone,24x8x5 ins.,18 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	An aspen,12 ins.dia.,bears S.65° 25'E.,62 lks. dist..mkd.¼ S 24 B T.
	An aspen,8 ins.dia.,bears N.39° 10'W.,105 lks.dist..mkd.¼ S 23 B T.
44.50	Leave rock slide,bears E.and W.
	Asc.

Chains.

58.00 Top of ridge, 800 ft.above last ridge, bears E. and W.

Asc.gradually, along west slope of ridge.

80.00 Set a volcanic stone 18 x 9 x 7 ins., 12 ins.in the ground, for cor.of secs.13.14.23. and 24. mkd.with 3 notches on S. and 1 notch on E.edges; from which

A spruce 8 ins.dia.bears N.61° 50'E. 32 lks.dist. mkd.T 37 S R 10 W S 13 B T

A spruce 14 ins.dia.bears S.45° E. 85 lks.dist., mkd.T 37 S R 10 W S 24 B T

A spruce 16 ins.dia.bears S.60° 33'W. 77 lks.dist. mkd.T 37 S R 10 W S 23 B T

An aspen 10 ins.dia.bears N.43° 30'W. 55 lks.dist. mkd.T 37 S R 10 W S 14 B T

Land, mountainous.

Soil, loam and rocky; 1st and 4th rate.

Good grass for grazing.

Timber, aspen and spruce.

Undergrowth, aspen, oak, and buck brush.

Mountainous or heavily timbered land 80.00 chs.

Exceptionally difficult to survey 80.00 chs.

July 11, 1908.

Note:

U.S.Examiner of Surveys F.J.Van Winkle, reported the line bet.secs.13 and 24 out of limits in alinement; I therefore recheck the line as follows:

Survey commenced Aug.7, 1910, and executed with a Young and Sons light mountain transit No.7382, with solar attachment.

At the cor.of secs.13.14.23. and 24 , at 7 h. 36 m.a.m. l.m.t.I set off 37° 36'N.on the lat.arc;16° 36'N.on decl.arc, and determine a meridian with the solar.

Subdivision of Tp. 37 S., R. 10 W.- Continued.

Chains. Knowing from the retracement of the E.bdy.of Tp.37 S., R.10 W. that the line bet.secs.13 and 24 will not intersect the E.bdy.within limits, I run

East on a true line bet.secs.13 and 24,

Asc.over mountainous land; through heavy timber.

3.30 Top of ridge, 20 ft.above sec.cor., bears N.15° W. and S.15° E. Desc.

8.80 Begin abrupt descent bears N.15° W. and S.15° E.

37.75 Head of hollow, 600 ft.below ridge, course N.30° E. Asc.

38.50 Top of spur,40 ft.above hollow,bears N.and S. Desc.

40.00 Set a trachyte stone 22 x 8 x 5 ins., 16 ins.in the ground, for ¼ sec.cor., mkd.¼ on N.face; from which

A spruce 12 ins.dia.bears N.39° 10'E. 62 lks.dist. mkd.¼ S 13 B T

A spruce 10 ins.dia.bears S.37° 06'E. 38 lks.dist. mkd.¼ S 24 B T

50.00 Bottom of hollow, 80 ft.below spur, course N. Asc.

74.50 Leave heavy timber, bears N. and S.

Enter volcanic boulders, bear N. and S.

77.00 Top of rocky spur, 100 ft.above hollow, bears N. and S. Desc.

81.12 Intersect E.bdy.of Tp.145 lks.S.0° 10'W. of the cor.of secs.13 and 24, heretofore described.

Set a volcanic stone 30 x 18 x 4 ins., 22 ins.in mound of stone for closing cor.of secs.13 and 24, mkd.C C on W., with 3 grooves on N. and S.faces; from which

An aspen 8 ins.dia.bears S.69° 25'W. 117 lks.dist. mkd.T 37 S R 10 W S 24 B T

An aspen 4 ins.dia.bears N.24° 30'W. 146 lks.dist. mkd.T 37 S R 10 W S 13 B T

I destroy all marks on the old cor.of secs.13.18.19,and 24 which pertain to secs.13 and 24.

Land, mountainous.

Soil, gravelly loam; 2nd rate.

Subdivision of T. 37 S., R. 10 W.- Continued.

Chains. Timber, aspen and spruce.

Good grass for grazing.

Mountainous or heavily timbered land 81.12 chs.
Exceptionally difficult to survey 81.12 chs.

Note: U.S.Examiner of Surveys, F.J.Van Winkle, reported line bet.secs.14 and 23 out of limits in measurement. I therefore rerun this line as follows:

August 8, 1910: At 7 h. 36 m.a.m.l.m.t.. I set off 16° 19' N.on decl.arc; 37° 36'N.on lat.arc; and determine a meridian with the solar at the cor.of secs.14,15, 22,and 23. Thence I run

East on a random line bet.secs.14 and 23,

Note: I choose to run this line east, because the S.bdy. is out of limits in alinement.

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

80.28 Intersect N. and S.line 120 lks.N.of the cor.of secs. 13,14,23,and 24, heretofore described.

Therefore I begin at the cor.of secs.13,14,23. and 24, and run

West on a true line bet.secs.14 and 23,

Descending over mountainous land;through heavy timber and dense undergrowth.

6.50 Leave spruce timber; enter heavy aspen timber, bears N. and S. Begin abrupt descent bears N. and S.

40.14 Set a volcanic stone 12 x 8 x 6 ins., 8 ins.in the ground, for $\frac{1}{4}$ sec.cor.. mkd.$\frac{1}{4}$ on N.face; from which

An aspen 5 ins.dia., bears N.5° 30'E. 17 lks.dist. mkd.$\frac{1}{4}$ S 14 B T

An aspen 3 ins.dia.bears S.12° 45'E. 10 lks.dist. mkd.$\frac{1}{4}$ S 23 B T

62.50 Creek 4 lks.wide, 3 ins.deep, in bottom of canon. 1200 ft.below sec.cor...course S.20° W. Asc.

Subdivision To. 37 S., R. 10 W.- Continued.

Chains.
62.75 Leave heavy timber and enter scattering timber and dense undergrowth. bears N. and S.

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

Desc.

73.00 Head of hollow, 100 ft.below ridge, course S.20° W.

Asc.

80.28 Intersect the N. and S.line 120 lks.S.of the cor.of secs.14,15,22, and 23.

Set a sandstone 20 x 8 x 3 ins., 15 ins.in the ground, for closing cor.of secs.14 and 23, mkd.C C on E., with 3 grooves on S. and 2 grooves on E.face; from which

An aspen 4 ins.dia.bears N.76° 05'E. 25 lks.dist. mkd.T 37 S R 10 W S 14 B T

An aspen 4 ins.dia.bears S.54° 30'E. 19 lks.dist. mkd.T 37 S R 10 W S 23 B T

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

Land, mountainous.

Soil, gravelly loam; 2nd rate.

Timber, spruce and aspen.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth 80.28 chs.

Exceptionally difficult to survey 80.28 chs.

Note: The retracement of the line bet.secs.13 and 14 proved it to be out of limits in measurements, and I now re-run it as follows:

August 8, 1910: At this cor.I set off 16° 15'N.on the decl.arc; and at 0 h. 06 m.p.m.l.m.t., observe the sun on the meridian; the resulting lat.is 37° 36'N. which is the proper lat.nearly.

Subdivision Tp.37 S.. R. 10 W.- Continued.

Chains	
	Thence I run
	N.0° 01'W.on a random line bet.secs.13 and 14,
40.00	Set a temp.¼ sec.cor.
79.80	Intersect E. and W.line 39 lks.W.of the cor.of secs.11, 12,13, and 14, heretofore described.
	Thence I run
	S.0° 16'W.on a true line bet.secs.13 and 14,
	Ascending over mountainous land; through heavy timber and dense undergrowth.
39.80	Set a volcanic stone 14 x 8 x 7 ins..9 ins.in the ground for ¼ sec.cor.. mkd.¼ on W.face; from which
	An aspen 6 ins.dia.bears N.87° 30'E. 38 lks.dist. mkd.¼ S 13 B T
	An aspen 6 ins.dia.bears N.43° 20'W. 15 lks.dist. mkd.¼ S 14 B T
50.85	Top of steep ascent, bears N.10° W. and S.10° E.
	Continue ascent.
53.60	Top of ridge. 400 ft.above ¼ sec.cor.. bears N.10° W. and S.10° E. Desc.
79.80	The cor.of secs.13.14,23, and 24.
	Land, mountainous.
	Soil, gravelly loam and rocky; 3d and 4th rate.
	Timber, aspen and spruce.
	Undergrowth, oak and aspen.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth 79.80 chs.
	Exceptionally difficult to survey 79.80 chs.
	August 8, 1910.

GENERAL DESCRIPTION T.37 S., R.10 W.

The land embraced in the portion of this township surveyed by me is all mountainous. The soil is generally gravelly loam, capable of producing crops with irrigation.

The timber consists of a heavy growth of spruce and aspen, with undergrowth of oak, aspen and buck brush. Good grass for grazing purposes is found throughout this portion of the township.

There is no water in this part of the township. There are no settlers in this part of the township. I found no indications of mineral on the lines surveyed by me.

Leo A. Smith

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and

ing the lines and corners described in the foregoing field notes of the survey of .....

.....

ing the respective capacities in which they acted:

r list of names and final oath of assistants for 1908,
e book "U" T. 40 S., R. 10½ W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

parts or portions of the .....

.....

.....

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

..... meridian, ... of ....., which are represented

foregoing field notes as having been surveyed by him and under his direction; and that said survey
een in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
r monuments established, according to the instructions furnished by the United States Surveyor

al for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

ribed and sworn to before me this .....
y of ....., 190

SEAL

.....

.....

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

For final oath of deputy for 1908 see book "U" T.40 S., R. 10½ W.

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

.....
United States Deputy Surve

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 19

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

executed by .....
under his contract No. ....., dated ....., 190 , having b
critically examined, and the necessary corrections and explanations made, the said field notes, and
surveys they describe, are hereby approved.

.....
United States Surveyor Gene

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

.....
United States Surveyor Gene

6—151

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Leo A. Snow, United States Deputy Surveyor, to assist in running, measuring, and g the lines and corners described in the foregoing field notes of the survey of ivisions of T. 37 S. R. 10 W. and T. 36 S. R. 11 W. the respective capacities in which they acted:

n H. Cottam, *Chainman.*
on Snow, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
, *Flagman.*

FINAL OATH OF ASSISTANTS.

e hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in surveying all ts or portions of the Subdivision of Tp. 37 S. R. 10 W. and Sub. of S., R. 11 W.

of the meridian, State of Utah, which are represented egoing field notes as having been surveyed by him and under his direction; and that said survey in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the onuments established, according to the instructions furnished by the United States Surveyor or Utah

John H Cottam, *Chainman.*
Eldon Snow, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
, *Flagman.*

d and sworn to before me this 11th f August 1910, 190

Leo A Snow

SEAL

ly commission expires Feb. 14, 1913.

Notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surve
solemnly swear that, in pursuance of a contract received from Thomas Hull
United States Surveyor General for Utah, bearing dat
14th day of May 1908, 190 , I have well, faithfully, and truly, in
proper person, and in strict conformity with the instructions furnished by the United States S
General for Utah, the Manual of Surveying Instructions, and the law
United States, surveyed all those parts or portions of
Sub. T. 37 S., R. 10 W. and Sub. T. 36 S., R. 11 W.

of the
Salt Lake meridian, in the State of Utah, which are represente
foregoing field notes as having been surveyed by me, and under my direction; and I do further s
swear that all the corners of said survey have been established and perpetuated in strict accorda
the Manual of Surveying Instructions, and the special written instructions of the United States S
General for Utah and in the specific manner described in the field notes,
the foregoing are the original field notes of such survey.

Leo A. Snow
United States Deputy S

Subscribed by said Leo A. Snow, and sworn to before me
this 2nd day of May, 1901.

John T. Woodh
Clerk Dist. C

SEAL

Fifth Judicial Distr
Washington Co., Ut

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 20, 1912.

The foregoing field notes of the survey of the subdivisional lines of Towns
No. 37 South, Range No. 10 West of the Salt Lake Base and Meridia
Utah,

executed by Leo A. Snow
under his contract No. 304, dated May 14, 1908, havi
critically examined, and the necessary corrections and explanations made, the said field notes,
surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor

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

United States Surveyor

6—151

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Page

4—679.

BOOK A-366

P.

FILED
APR. 8 1909

FIELD NOTES

Refiled May 9, 1911.

OF THE SURVEY OF THE

EIGHTH STANDARD PARALLEL SOUTH,

through

Range 9 West,

Of the Salt Lake Base and *Meridian,*

State of Utah

AS SURVEYED BY

Leo A Snow, *United States Deputy Surveyor,*

r his Contract No. 304, *dated* May 14,1908. *190*

y commenced September 6,1908. *190*

y completed October 5,1910. *190*

6—151

Max. 6-02-60

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M.Woodbury	Chainman
N.Henry Savage	Chainman
Rass Macfarlane	Moundman
Samuel Brooks	Moundman
Grant Gregerson	Axman
Eldon Snow	Axman
James S.Gregerson	Flagman

For preliminary oaths of assistants see book "H" Tp.40 S., R. 8 W. for 1908.

1910:-

Chester Snow,	Chainman.
John H.Cottam,	Chainman.
Eldon Snow,	Chainman.
N.H.Savage,	Chainman.

BOOK A-366

INDEX DIAGRAM.

Township 40 South, *Range* 9 West

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Meanders Page

BOOK A-366

PRELIMINARY OATHS OF ASSISTANTS.

WE, Chester Snow, John H. Cottam and Eldon Snow and N. H. Savage 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 assi measuring, to the best of our skill and ability, and in accordance with instructions given us, in the surv 8th Standard Parallel South through Range 9 West of the S.L.B.& M. Utah.

Chester Snow, Chai
John H. Cottam, Chain
Eldon Snow, Chain
N. H. Savage Chai

Subscribed and sworn to before me this 5th day of October, 1900

Leo A. Snow
U.S. Deputy Surveyor.

SEAL

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

..... Mound
..... Mound

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

SEAL

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

..... Ax
..... Ax

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

SEAL

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

..... Flag

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

SEAL

6—151

Eighth Standard Parallel South, through Range 9 W.

Survey commenced Sept 6,1908, and executed with a Young and Sons light mountain transit, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declinationa arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the Surveyor general for Utah, on June 8, 1908.

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

At the Standard cor. of Tps. 40 S., Rs. 8 and 9 W., heretofore described, latitude 37° 17' 18" N., longitude 112° 46' 04" W., I set off 37° 17' N., on the lat. arc; 6° 21' N., on the decl. arc; and at 4 h 58 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone, firmly set in the ground, 5.00 chs. N. of the cor.

At 8 h 29 m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark the line thus determined on a wooden plug set in the ground, 5.00 chs. N. of the cor.

September 6, 1908.

September 7, 1908: At 6 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris 1° 29' to the west, and mark the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.37 ins. east of the meridian determined with the solar.

Eighth Standard Parallel South, through Range 9 West-Cor

Chains

At 6 h 58 m a.m., l.m.t., I set off 37° 17'N., on the lat. arc; 6° 08'N., on the decl. arc; and mark the meridian determined with the solar, by a cross on the stone already set 5.00 chs. North of the cor.; this mark falls 0.31 ins. east of the meridian determined by Polaris observation. The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about 0'19" west and 0'16" east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h 30 m a.m., is N. 16° 16'W., the angle thus determined gives the mag. decl. 16° 16'E.

From the standard cor. of Tps. 40 S., Rs. 8 and 9 W., heretofore described.

I run

West, along S. bdy. sec. 36.

Over mountainous land; through dense undergrowth.

Descending through scattering timber.

.15 Creek, 10 lks. wide, 3 ins. deep, in canon, course S.

Asc.

8.00 Top of spur, 75 ft. above canon, bears N. and S.

Desc.

10.00 Creek, 2 lks. wide, 2 ins. deep, in hollow, 60 ft. below spur, course S.

Asc.

14.00 Top of ridge, 75 ft. above hollow, bears N. and S.

Desc.

16.50 Bottom of hollow, 20 ft. below ridge, course S.

Asc.

Eighth Standard Parallel South, through Range 9 West-Continued.

Chains	
	Difference between measurements of 40.00 chs., by two sets of chainmen, is 2 lks.-; position of middle point,
	By 1st set, 39.99 chs.
	By 2nd set 40.01 chs.; the mean of which is
40.00	Set a sandstone, 18x12x10 ins., 12 ins. in the ground, for Standard ¼ sec. cor.. mkd. S C ¼ on N. face; from which
	A pinon pine, 8 ins. dia., bears N. 87° 16' W., 100 lks. dist.. mkd. S C ¼ S 36 B T.
	A cedar, 10 ins. dia., bears N. 8° 40' E., 83 lks. dist.. mkd. ¼ SC ¼ S 36 B T.
44.25	Swale, 20 ft. below ridge, course S.
	Asc.
45.50	Top of ridge, 60 ft. above swale, bears N. and S.
	Desc.
60.90	Creek, 3 lks. wide, 1 in. deep, in hollow, 75 ft. below ridge, cour course S. 30° E.
	Asc.
79.10	Top of ridge, 90 ft. above hollow, bears N. and S.
	Desc.
	Difference bet. measurements of 80.00 chs., by two sets of chainmen, is 4 lks.; position of middle point,
	By 1st set 79.98 chs.
	By 2nd set, 80.02 chs.; the mean of which is
80.00	Set a sandstone, 10x8x5 ins., 11 ins. in the ground, for standard cor. of secs. 35 and 36, mkd. S C on N., with 1 groove on E. and 5 grooves on W. faces; from which
	A pinon pine, 5 ins. dia., bears N. 84° W., 96 lks. dist.. mkd. T 40 S R 9 W S 35 B T.
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Land, mountainous .
	Soil, gravelly loam; 1st and 2nd rate.
	Timber, cedar and pinon pine.
	Undergrowth, oak, maple, sage, and larb.

Eighth Standard Parallel South, through Range 5 West-Continued.

Chains	
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey, 80.00 chs.
	West, on S.bdy.sec.35 .
	Over mountainous land; through dense undergrowth and scattering timber.
	Desc.
1.00	Bottom of draw, 15 ft.below sec.cor., course S.
	Asc.
9.75	Foot of nearly perpendicular sandstone ledge, 25 ft.high, bears NE and SW.
11.00	Top of spur, 100 ft.above hollow, bears N.30° W.and S.30° E.
	Desc.
13.40	Bottom of hollow, 50 ft.below spur, course S.30° E.
	Asc.abruptly.
38.00	Top of steep ascent, bears N.and S.
	Asc.gradually.
	Difference between measurements of 40.00 chs., by two sets of chainmen, is 4 lks.; position of middle point,
	By 1st set, 39.98 chs.
	By 2nd set, 40.02 chs.; the mean of which is
40.00	Set a sandstone, 16x10x9 ins., 11 ins.in the ground, for standard ¼ sec.cor.. mkd. S C ¼ on N face; and raise a mound of stone, 2 ft.base, 1½ ft.high, N.of cor.
65.00	Top of divide ridge, between Clear Creek and Winder canons, 250 ft.above hollow, bears N.and S.
	Desc.
66.50	Desc.abruptly over sandstone ledges, bears N.and S.
	At this point I erect a flag to be seen from the west.

Eighth Standard Parallel South, through Range 9 West-Continued.

Chains	
67.00	Foot of ledges, 150 ft. below top of ledges, bears N. and S.
	Desc. abruptly over talus of cliffs.
76.00	Foot of talus of cliffs, bears N. and S.
	Desc. more gradually.
	Difference between measurements of 80.00 chs., by two sets of chainmen, is 6 lks.; position of middle point,
	By 1st set, 79.97 chs.
	By 2nd set 80.03 chs.; the mean of which is
80.00	Set a sandstone, 16x8x7 ins., 11 ins. in the ground, for standard cor. of secs. 34 and 35, mkd. S C on N., with 2 grooves on E. and 4 grooves on W. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Land, mountainous.
	Soil, gravelly and sandy and rocky; 3rd and 4th rate.
	Timber, cedar and piñon pine and yellow pine.
	Undergrowth, aspen, maple, oak, buck brush, and service berry.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey, 80.00 chs.
	September 7, 1908. At this cor. I set off 6° 01' N., on the decl. arc; and at 11h 58 m. a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 37° 17' N., which is the proper lat. nearly.

	West, on S. bdy. secs. 34.
	Over mountainous land; through dense undergrowth and scattering timber.
	Desc.
21.50	Bottom of hollow, 150 ft. below ridge, course SW.

Eighth Standard Parallel South, through Range 9 West-Continued.

Chains	
	Asc.
23.00	Top of spur, 100 ft. above hollow, bears NE and SW.
	Desc.
32.00	Creek, 4 lks. wide, 2 ins. deep, in bottom of Clear Creek Canon, 150 ft. below spur, course S. 10° W.
	Asc.
39.80	Top of ridge, 50 ft. above canon, bears N. and S.
	Desc.
	Diffence between measurements of 40.00 chs., by two sets of chainmen, is 4 lks.; position of middle point,
	By 1st set 39.98 chs.
	By 2nd set 40.02 chs.; the mean of which is
40.00	Set a sandstone, 24x8x8 ins., 18 ins. in the ground, for Standard ¼ sec. cor., mkd. S C ¼ on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
47.60	Road from Orderville to Zion Canon, bears NE and SW.
52.85	Bottom of hollow, 40 ft. below ridge, course SE.
	Asc.
65.70	Top of ridge, 60 ft. above hollow, bears NW and SE.
	Desc.
66.50	Bottom of hollow, 30 ft. below ridge, course SE.
	Asc.
70.65	Top of spur, 70 ft. above hollow, bears NW and SE.
	Desc.
73.50	Bottom of hollow, 60 ft. below spur, course SE.
	Asc.
	Difference between measurements of 80.00 chs., by two sets of chainmen, is 2 lks.; position of middle point,
	By 1st set 79.99 chs.
	By 2nd set 80.01 chs.; the mean of which is
80.00	Set a sandstone, 16x12x8 ins., 11 ins. in the ground, for standard cor. of secs. 33 and 34, mkd. S C on N., with 3 grooves on E., and W. faces; from which
	A cedar, 7 ins. dia., bears N. 37° 15' E., 113 lks.

Eighth Standard Parallel South, through Range 9 West-Continued.

Chains	
	dist..mkd.T 40 S R 9 W S 34 B T.
	A cedar,17 ins.dia.,bears N.71° 40'W.,30 lks.
	dist..mkd.T 40 S R 9 W S 33 B T.
	Land,mountainous
	Soil,clay loam;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,larb, service berry,and sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	September 7,1908.

	September 8,1908:At 6 h 58m a.m.,l.m.t.,I set off 37° 17' N.,on the lat.arc;5° 45'N.,on the decl.arc;and determine a meridian with the solar,at the standard cor.of secs. 33 and 34.
	Thence I run
	West,along S.bdy.sec.33.
	Ovr mountainous land;through scattering timber and dense undergrowth.
	Desc.
1.00	Bottom of hollow,15 ft.below sec.cor.,course SE.
	Asc.
5.50	Top of ridge,25 ft.above hollow,bears NW and SE.
	Desc.
9.50	Bottom of hollow,45 ft.below ridge,course SE.
	Asc.
15.00	Top of ridge,60 ft .above hollow,bears NW.and SE.
	Desc.
17.50	Bottom of hollow,30 ft.below ridge,course SE.
	Asc.

Eighth Standard Parallel South, through Range 9 West-Continued

Chains	
20.00	Top of ridge, 40 ft. above hollow, bears NW and SE.
	Desc.
23.00	Bottom of hollow, 30 ft. below ridge, course SE.
	Asc.
37.80	Top of ridge, 30 ft. above hollow, bears NW and SE.
	Desc.
	Difference between measurements of 40.00 chs., by two sets of chainmen is 6 lks.; position of middle point,
	By 1st set 39.97 chs.
	By 2nd set 40.03 chs.; the mean of which is
40.00	Set a sandstone, 24x10x5 ins., 18 ins. in the ground, for standard ¼ sec. cor.. mkd. S C ¼ on N. face; from which
	A pinon pine, 5 ins. dia., bears N. 58° 22' E., 200 lks. dist.. mkd. S C ¼ S 33 B T.
	A pinon pine, 6 ins. dia., bears N. 76° 35' W., 163 lks. dist.. mkd. S C ¼ S 33B T.
48.90	Bottom of hollow, 75 ft, below ridge, course SE.
	Asc.
51.00	Top of ridge, 90 ft. above hollow, bears NW and SE.
	Desc.
67.20	Bottom of hollow, 60 ft. below ridge, course SE.
	Asc.
70.00	Top of ridge, 80 ft. above hollow, bears NW and SE.
	Desc.
	Difference between measurements of 80.00 chs., by two sets of chainmen is 2 lks.; position of middle point,
	By 1st set 79.99 chs.
	By 2nd set 80.01 chs.; the mean of which is
80.00	Bottom of hollow, 70 ft. below ridge, course S.
	Set a sandstone, 18x10x6 ins., 12 ins. in the ground, for standard cor. of secs. 32 and 33, mkd. S C on N., with 4 grooves on E. and 2 grooves on W. faces; from which
	A pinon pine, 5 ins. dia., bears N. 47° 06' E., 78 lks. dist.. mkd. T 40 S R 9 W S 33 B T.

Eighth Sandard Parallel South, through Range 9 W.-Continued.

Chains

A cedar, 6 ins. dia., bears N. 40° 15' W., 10 lks. dist.. mkd. T 40 S R 9 W S 32 B T.

Land, mountainous.

Soil, gravelly and clay; 3rd rate.

Timber, cedar and pinon pine.

Undergrowth, oak, service berry, and buck brush.

Good grass for grazing.

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

Exceptionally difficult to survey, 80.00 chs.

West, on S. bdy. of sec. 32.

Over mountainous land; through dense undergrowth and scattering timber.

Asc.

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

Desc.

20.00 Bottom of hollow, 90 ft. below ridge, course S.

Asc.

25.50 Top of ridge, 125 ft. above hollow, bears N. and S.

Desc.

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

By 1st set, 39.96 chs.

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

40.00 Set a sandstone, 16x8x6 ins., 11 ins. in the ground, for standard ¼ sec. cor.., mkd. S C ¼ on N face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

45.60 Bottom of hollow, 100 ft. below ridge, course S.

Asc.

52.00 Top of sandstone ridge, 200 ft. above hollow, bears N. and S.

Eighth Standard Parallel South, through Range 9 W.-Continued.

Chains

54.50 Bottom of hollow .75 ft.below ridge,course S.
Asc.

57.20 Top of spur,60 ft.above hollow,bears N.and S.
Desc.

61.50 Bottom of hollow,90 ft.below spur,course S.
Asc.

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

75.00 Begin abrupt descent,bears N.and S.

78.20 Bottom of hollow,150 ft.belowridge,course S.
Asc.

Difference between measurements of 80.00 chs.,by two sets of chainmen,is 10 lks.;position of middle point,

By 1st set,79.95 chs.

By 2nd set,80.05 chs.;the mean of which is

80.00 Set a sandstone,16x12x5 ins.,11 ins.in the ground,for standard cor.of secs.31 and 32,mkd. S C on N.,with 5 grooves on E.and 1 groove on W.face;from which

A cedar,30 ins.dia ,bears N.49°E.,279 lks. dist..mkd.T 40 S R 9 W S 32 B T.

A pinon pine,16 ins.dia.,bears N.57°15'W., 415 lks.dist..mkd. T 40 S R 9 W S 31 B T.

Land,mountainous .

Soil,clay and sandy and rocky;3rd and 4th rate.

Timber,cedar and pinon pine.

Undergrowth,oak,service berry,sage,and buck brush.

Good grass for grazing.

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

Exceptionally difficult to survey,80.00 chs.

September 8,1908:At this cor.I set off 5°39'N.,on the decl.arc;and at 11 h 58 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°17'N.,which is the proper lat.nearly.

Eighth Standard Parallel South, through Range 9 West-Continued.

Chains.	
	Having been ordered into the field to correct errors disclosed by the field examination, I proceed as follows:
	Corrective survey commenced Oct.5, 1910, and executed with a Young & Sons light mountain transit No.7382.
	At the standard cor.of secs.31 and 32, lat.37° 17' 18" N., long.112° 51' 27" W., I set off 37° 17'N.on lat. arc; 4° 31'S.on decl.arc; and at 7 h. 49 m.a.m.l.m.t. determine a meridian with the solar.
	Thence I run
	West on S.bdy.sec.31,
	Over mountainous land; through dense undergrowth and scattering timber.
	Asc.
3.60	Top of spur, 80 ft.above sec.cor., bears N. and S.
	Desc.
5.85	Bottom of hollow, 60 ft.below spur, course S.
	Asc.
8.60	Top of ridge, 75 ft.above hollow, bears N. and S.
	Desc.
12.40	Bottom of hollow, 50 ft.below ridge, course S.
	Ascend.
21.00	Top of ridge, 80 ft.above hollow, bears N. and S.
	Desc.
	Difference between measurements of 40.00 chs.by two sets of chainmen is 4 lks.; position of middle point
	By 1st set 39.98 chs.
	By 2d set 40.02 chs.; the mean of which is
40.00	Set a sandstone 18 x 7 x 5 ins., 12 ins.in the ground, for standard ¼ sec.cor., mkd.S C ¼ on N.face; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
	Difference between measurements of 81.32 chs.by two sets of chainmen is 8 lks.; position of middle point
	By 1st set 81.36 chs.

Eighth Standard Parallel South, through Range 9 W.- Continued.

Chains.

81.32 By 2d set 81.28 chs., the mean of which is Set a temp.standard cor.of Tp. 40 S., Rs.9 and 10 W. The permanent stand.cor.of Tp.40 S., Rs.9 and 10 W. was afterward set on this line at 82.60 chs., for description of which see notes of E.bdy.of T. 40 S., R. 10 W.

Land, mountainous.

Soil, gravelly and clay; 3d rate.

Timber, cedar and pinon pine.

Undergrowth oak, serviceberry, sage, and buck brush.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth 82.60 chs.

Exceptionally difficult to survey 82.60 chs.

Oct.5, 1910.

GENERAL DESCRIPTION.

This standard crosses a series of ridges and hollows having a general northerly and southerly trend, and covered with a dense undergrowth of oak, serviceberry, maple, sage, and buck brush, and scattering cedar and pinon pine timber.

The township north is considerably broken by ridges and hollows, and is covered with timber and undergrowth.

The township south of the line is more rolling until it breaks off into Zion Canon about 3 miles southerly.

Leo A. Snow.
U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and

ing the lines and corners described in the foregoing field notes of the survey of .....

.....

ng the respective capacities in which they acted:

....., *Chainman.*

ist of names and final oath of assistants 1908 see book ..., *Chainman.*

" T. 40 S., R. 10 W. ....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

arts or portions of the .....

.....

.....

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

..... meridian, ... of ....., which are represented

foregoing field notes as having been surveyed by him and under his direction; and that said survey

en in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

monuments established, according to the instructions furnished by the United States Surveyor

l for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

bed and sworn to before me this .....

of ....., 190

SEAL

.....

.....

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

.....

.....

.....

..... 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 solen swear that all the corners of said survey have been established and perpetuated in strict accordance v 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,

[illegible], 190

The foregoing field notes of the survey of [illegible]

.....

.....

.....

.....

.....

executed by .....

under his contract No. ....., dated ....., 190 , having l critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

.....

United States Surveyor Gene

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

.....

United States Surveyor Gene

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

list of the names of the individuals employed by Leo A. Snow, United States Deputy Surveyor, to assist in running, measuring, and the lines and corners described in the foregoing field notes of the survey of Standard Parallel South through Range 9 West, S.L.B.& M., Utah, the respective capacities in which they acted:

er Snow John H. Cottam, *Chainman.*

n Snow N.H. Savage, *Chainman.*

, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in surveying all s or portions of the 8th Standard Parallel South through Range t

of the Base and meridian, State of Utah, which are represented going field notes as having been surveyed by him and under his direction; and that said survey in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the numents established, according to the instructions furnished by the United States Surveyor r Utah

John H. Cottam Chainman ~~Moundman.~~

Eldon Snow Chainman ~~Moundman.~~

N. H. Savage Chainman ~~Moundman.~~

Chester Snow Chainman ~~Moundman.~~

, *Axman.*

, *Axman.*

, *Flagman.*

d and sworn to before me this 5th October 1910.

SEAL

Leo A Snow

U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyo
solemnly swear that, in pursuance of a contract received from Thomas Hull
United States Surveyor General for Utah, bearing date
14th day of May 1908, 190 , I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Sur
General for Utah, the Manual of Surveying Instructions, and the laws
United States, surveyed all those parts or portions of
8th Standard Parallel South through Range 9 West.

of the Salt
Lake Base and meridian, in the State of Utah, which are represented
foregoing field notes as having been surveyed by me, and under my direction; and I do further sol
swear that all the corners of said survey have been established and perpetuated in strict accordanc
the Manual of Surveying Instructions, and the special written instructions of the United States Su
General for Utah and in the specific manner described in the field notes, an
the foregoing are the original field notes of such survey.

Leo A. Snow
United States Deputy Su

Subscribed by said Leo A. Snow, and sworn to before me
this 23rd day of September 1911. 190

John C. Woodbu
Clerk of Fifth Dist. Court.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 20,

The foregoing field notes of the survey of the Eighth Standard Parallel Sout
through Range No. 9 West of the Salt Lake Base and Meridian, Ut

executed by Leo A. Snow
under his contract No. 304, dated May 14, 190 8, havi
critically examined, and the necessary corrections and explanations made, the said field notes, a
surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor G

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

United States Surveyor G

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4—679.

BOOK A-366

FILED
APR 8 1909

FIELD NOTES

OF THE SURVEY OF THE Refiled Sept.25,1911.

EAST AND WEST BOUNDARIES

of

Township No.40 South,Range No.10 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Leo A.Snow, *United States Deputy Surveyor,*

er his Contract No. 304, *dated* May 14,1908. *x190x*

ey commenced September 8,1908. *x190x*

ey completed August 4, 1911. *x190x*

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BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M.Woodwury	Moundman
N.Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

For preliminary oaths of assistants see book "I" Tp.40 S., R. 8 W. for 1908.

1910 and 1911:-

John H.Cottam,	Chainman.
Eldon Snow,	Chainman.
Chester Snow,	Flagman.

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BOOK A-366

INDEX DIAGRAM.

Township 40 South, *Range* 10 West

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, John H. Cottam and Eldon Snow do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will leve 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 ass measuring, to the best of our skill and ability, and in accordance with instructions given us, in the surv East and West Bdys. Tp. 40 S., R. 10 W. of the S.L.B.& M., Utah.

John H. Cottam, Chain

Eldon Snow, Chain

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

SEAL

Leo A. Snow

U.S. Deputy Surveyor.

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

..... Mound

..... Mound

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

SEAL

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

..... Ax

..... Ax

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

SEAL

I, Chester Snow, 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, i survey of East and West Bdys. Tp. 40 S., R. 10 W. S.L.B.& M., Utah.

Chester Snow, Flag

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

SEAL

Leo A. Snow

U.S. Deputy Surveyor

6—151

East bdy. of T. 40 S., R. 10 W.-

Survey commenced September 8,1908,and executed with a Young and Sons light mountains transit,aNo.7382,with solar attachment.The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs;

The instrument was examined ,tested on the meridian at Salt Lake City,found correct and was approved by the surveyor general for Utah,on June 8, 1908.

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

At the temp.standard cor.of Tps.40 S.,R.9 and 10 W., just established,latitude 37° 17'18"N.,longitude 112° 52' 36"W.,I set off 37° 17'N.,on the lat.arc;5° 36'N.,on the decl.arc;arc;and at 4 h 58 m p.m.,l.m.t.,determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.

At 8 h.21 m p.m.l.m t.,I observe Polaris at eastern elongation in accordance with the Manual,and mark a point in the line thus determined,by a tack driven in a wooden plug set in the ground,5.00 chs.N.of the cor.

September 8,1908.

September 9,1908:At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1° 29'to the west,and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor. this mark falls 0.33 ins.east of the meridian deter-

East bdy.of T 40 S.,R.10 W.-Continued.

Chains

mined with the solar. [illegible] determined with the solar.

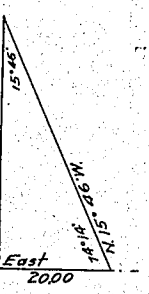
At 6 h 57 m a.m.,l.m.t.,I set off 37° 17'N.,on the lat. arc;5° 22'N.,on the decl.arc; and mark the meridian determined with the solar,by a cross on the stone already set 5.00 chs.,N.of the cor.;this mark falls 0.29 ins. east of the meridian established by Polaris observation. The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'17"west and 0'15"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h 30 m a.m., is N.16° 20'E.,the angle thus determined gives the mag. decl.16° 20'E.

From the temp.standard cor.of Tps.40 S.,Rs.9 and 10 W., I run

North,on a random line along east bdy.of Tp.,setting temp.¼ sec.and sec.cors.at intervals of 40.00 chs.

160.00 To south edge of Orderville Gulch,across which it is impossible to chain.



To determine distance across gulch I set a flag on line on north edge of canon,and measure a base line East, 20.00 chs. from which point the flag on north edge of gulch bears N.15° 46'W.,Then I cross to the flag on north edge of gulch from which the east end of base bears S.15° 46'E.,I compute the distance across the gulch as follows:

tan 74° 14'xbase= 3.354179 x 20.00 = 70.84 chs.

160.00 +70.84 makes

230.84 North edge of Orderville Gulch .Set temp.witness point.

East bdy.of T.40 S.,R.10 W.-Continued.

Chains	
	At 487.00 chs.Intersect N.bdy.of Tp.,12 lks.West of the cor.of Tps.39 and 40 S.,Rs.9 and 10 W.,which is a sandstone,6x9x8 ins.above ground,firmly set and mkd and witnessed as described by the surveyor general.
	I mark bearing trees as follows:
	A red pine,14 ins.dia.,bears N.77°15'E.,45 lks.dist..mkd.T 39 S R 9 W S 31 B T.
	A yellow pine,14 ins.dia.,bears S.47°35'E., 104 lks.dist..mkd.T 40 S R 9 W S 6 B T.
	A yellow pine,14 ins.dia.,bears S.69°30'W.,75 lks.dist..mkd.T 40 S R 10 W S 1 B T.
	A red cedar,6 ins.dia.,bears N.71°15'W.,106 lks.dist..mkd.T 39 S R 10 W S 36 B T.
	September 9,1908.
	September 10,1908;At 6 h 57 m a.m.,l.m.t.,I set off 37° 23'N.,on the lat.arc;5 °00'N.,on the decl.arc;and determine a meridian with the solar at the cor.of Tps.39 and 40 S.,Rs.9 and 10 W.
	South,on a true line bet.secs.1 and 6.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
7.40	Foot of perpendicular sandstone ledge,30 ft.high,bears NW and SE.
14.80	Top of ridge,100 ft.above cor.,bears NE and SW.
	Desc.
26.80	Bottom of hollow,100 ft.below ridge,course NE .

East bdy. of T. 40 S., R. 10 W.-Continued.

Chains	
	Asc.
32.20	Top of ridge, 150 ft. above hollow, bears NW. and SE.
	Desc.
43.00	Head of hollow, 40 ft. below ridge; course NW.
	Asc.
47.00	Set a limestone, 18x10x8 ins., 12 ins. in the ground, for ¼ sec. cor., mkd. ¼ on W. face; from which
	A cedar, 6 ins. dia., bears N. 66° E., 98 lks. dist., mkd. ¼ S 6 B T.
	A yellow pine, 36 ins. dia., bears N. 74° 16' W., 101 lks. dist., mkd. ¼ S 1 B T.
50.00	Top of spur, 30 ft. above hollow, bears E. and W.
	Desc.
52.50	Bottom of hollow, 30 ft. below spur, course N. 60° W.
	Asc.
53.00	Enter heavy timber, bears N. 10° E. and S. 10° W.
69.50	Top of ridge, 300 ft. above hollow, bears E. and W.
	Desc.
73.00	Bottom of hollow, 30 ft. below ridge, course NW.
	Asc.
78.80	Enter scattering timber, bears NE and SW.
82.50	Top of divide ridge bet. Orderville Gulch and canon on the north, 200 ft. above hollow, bears S. 80° E. and S. 50° W.
	Desc.
87.00	Point 30 ft. below ridge.
	Set a gypsum stone, 14x8x6 ins., 9 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, mkd. with 1 notch on N. and 5 notches on S. edges; from which
	A pinon pine, 10 ins. dia., bears N. 73° 45' E., 145 lks. dist., mkd. T 40 S R 9 W S 6 B T.
	A cedar, 24 ins. dia., bears S. 33° 20' E., 107 lks. dist., mkd. T 40 S R 9 W S 7 B T.
	A pinon pine, 18 ins. dia., bears S. 6° 15' W., 171 lks. dist., mkd. T 40 S R 10 W S 12 B T.

East bdy.of T.40 S.,R.10 W.-Continued.

Chains	
	A cedar,6 ins.dia.,bears N.5°25'W.,423 lks. dist..mkd.T 40 S R 10 W S 1 B T.
	Land,mountainous .
	Soil,clay and sandy and rocky;3rd and 4th rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,service berry,sage ,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 87.00 chs.
	Exceptionally difficult to survey,87.00 chs.
	South,on a true line bet.secs.7 and 12.
	Over mountainous land,through dense undergrowth.
	Desc.
9.00	Enter scattering timber,bears NW and SE.
34.00	Bottom of hollow,350 ft.below sec.cor.,course SE.
	Asc.
40.00	Set a limestone,20x8x8 ins.,15 ins.in the ground,for ¼ sec.cor..mkd. ¼ on W.face;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
57.00	Top of ridge,100 ft.above hollow,bears NW and SE.
	Desc.
62.20	Bottom of hollow,100 ft .below ridge,course S.60°E.
	Asc.
70.00	Top of ridge,60 ft.above hollow,bears N.80°W.and S.80° E.
	Desc.
75.00	Bottom of hollow,80 ft.below ridge,course S.70°E.
	Asc.
77.30	Top of ridge,60 ft.above hollow,bears E.and W.
	Desc.

East bdy. of T. 40 S., R. 10 W.--Continued.

Chains

80.00 Set a limestone, 18x12x12 ins., 12 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, mkd. with 2 notches on N. and 4 notches on S. edges; from which

A yellow pine, 30 ins. dia., bears N. 12° 30' E., 182 lks. dist., mkd. T 40 S R 9 W S 7 B T.

A cedar, 4 ins. dia., bears S. 45° 05' W., 53 lks. dist., mkd. T 40 S R 10 W S 13 B T.

A cedar, 12 ins. dia., bears N. 50° 20' W., 47 lks. dist., mkd. T 40 S R 10 W S 12 B T.

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

Land, mountainous.

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

Timber, cedar and pinon pine and yellow pine.

Undergrowth, oak, service berry, and buck brush.

Good grass for grazing.

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

Exceptionally difficult to survey, 80.00 chs.

September 10, 1908: At the noon hour the sky is overcast and solar observations are impossible.

South, on a true line bet. secs. 13 and 18.

Over mountainous land; through scattering timber and dense undergrowth.

Desc.

2.10 Bottom of hollow, 20 ft. below cor. course S. 80° E.

Asc.

8.60 Top of ridge, 100 ft. above hollow, bears N. 70° W. and S. 70° E.

Desc.

East Boundary of T. 40 S., R. 10 W.-Continued.

Chains	
13.90	Bottom of hollow, 200 ft.below ridge, course S.80° E.
	Asc.
22.80	Top of ridge, 200 ft.above hollow, bears E. and W.
	Desc.
30.00	Bottom of hollow, 200 ft.below ridge, course E.
	Asc.
36.80	Top of ridge, 300 ft.above hollow, bears E. and W.
	Desc.
40.00	Set a sandstone 18 x 9 x 8 ins., 12 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; from which
	A pinon pine 14 ins.dia., bears S.43° 30'E. 22 lks. dist., mkd.¼ S 18 B T
	A pinon pine 7 ins.dia.bears S.6° 40'W. 22 lks. dist., mkd.¼ S 13 B T
	A cross on the face of a limestone ledge, 6 ft. high bears W.5 lks.dist.,mkd.B O S 18 W.of cross.
57.40	Bottom of hollow, 200 ft.below ridge, course E.
	Asc.
68.00	Top of spur, 100 ft.above hollow, bears E. and W.
	Desc.
80.00	Point 100 ft.below spur.
	Set a limestone 16 x 10 x 10 ins., 11 ins.in the ground, for cor.of secs.13,18,19, and 24, mkd.with 3 notches on N. and 3 notches on S.edges; from which
	A cedar 10 ins.dia.bears N.18° 15'E. 74 lks.dist. mkd.T 40 S R 9 W S 18 B T
	A pinon pine, 14 ins.dia., bears S.21° 26'W. 123 lks.dist., mkd.T 40 S R 10 W S 24 B T
	A pinon pine, 14 ins.dia.bears N.51° 45'W. 110 lks. dist., mkd.T 40 S R 10 W S 13 B T
	No other trees within limits; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Land, mountainous.
	Soil, clay and rocky; 2nd and 4th rate.
	Timber, cedar, pinon pine, and yellow pine.

East Bay of T. 40 S., R. 10 W.- Continued.

Chains. Undergrowth, oak, sage, serviceberry, and buck brush.
Good grass for grazing.
Mountainous land, or land covered with dense undergrowth 80.00 chs.
Exceptionally difficult to survey 80.00 chs.

September 10, 1908.

Having been ordered into the field for the correction of errors disclosed by the field examination of Victor N.Dupuy, Examiner of Surveys, I proceed as follows:-

Corrective survey commenced October 3, 1910, and executed with a Young & Sons light mountain transit, No. 7382, with solar attachment.

At the cor.of secs.13.18.19. and 24, lat.37°19'54" N.; longitude 112° 52' 36" W., I set off 37° 20'N.on the lat.arc; 3° 45'S.on the decl.arc; and at 7 h. 49 m. a.m.l.m.t., I determine a meridian with the solar.

Thence I run

South on a true line bet.secs.19 and 24,

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

9.16 North edge of Orderville Gulch, bears E. and W.

The Orderville Gulch at this point is about 2000 ft. deep, with almost perpendicular walls on both sides. There is a creek 15 lks.wide, 12 ins.deep, in bottom of the gulch, course S.80° W. As this point is the nearest I can get to the ½ sec.cor.point I set a witness point as follows:-

Set a limestone 16 x 10 x 4 ins., 11 ins.in the ground for witness point, mkd.W P on W.face; from which

" A pine 14 ins.dia.bears S.28° 15'E. 47 lks.dist. mkd.W P B T

East Bdy.of T. 40 S., R. 10 W.-Continued.

Chains.

A pine 5 ins.dia.bears S.42°15'W. 25 lks.dist., mkd.W P B T

80.00 South edge of Orderville Gulch, bears E. and W.

Set.a sandstone 18 x 10 x 10 ins., 12 ins.in the ground, for cor.of secs.19.24.25. and 30, mkd.with 4 notches on N. and 2 notches on S.edges; from which

A red pine 12 ins.dia.bears N.54° 00'E. 525 lks. dist., mkd.T 40 S R 9 W S 19 B T

A pinon pine, 14 ins.dia.bears S.30° 20'E. 263 lks.dist., mkd.T 40 S R 9 W S 30 B T

A cedar 8 ins.dia.bears S.4° 40'W. 145 lks.dist. mkd.T 40 S R 10 W S 25 B T

A pinon pine, 12 ins.dia.bears N.32° 45'W. 245 lks dist., mkd.T 40 S R 10 W S 24 B T

Land, mountainous, very rough.

Soil, clay loam and rocky; 2nd and 4th rates.

Timber, cedar, pinon pine, yellow pine, and red pine.

Undergrowth, oak, serviceberry, larb, and buck brush.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth 80.00 chs.

Exceptionally difficult to survey 80.00 chs.

October 3, 1910: At this cor.I set off 3° 50'S.on the decl.arc; and at 11 h. 49 m.a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 37° 19'N., which is the proper lat.nearly.

South on a true line bet.secs.25 and 30,

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

3.00 Top of spur, 50 ft.above sec.cor., bears E. and W.

Desc.

10.00 Bottom of hollow, 190 ft.below spur, course NW.

Asc.

East Bdy.T. 40 S.. R. 10 W.- Continued.

Chains	
35.00	Top of ridge, 200 ft.above hollow, bears E. and W.
	Desc.
40.00	Set a sandstone 18 x 16 x 4 ins., 12 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; from which
	A yellow pine 20 ins.dia., bears N.54° 15'E.103 lks dist., mkd.¼ S 30 B T
	A cedar 15 ins.dia.bears N.51° 35'W. 21 lks.dist. mkd.¼ S 25 B T
43.30	Bottom of hollow. 30 ft.below ridge. course NE.
	Asc.
60.00	Top of ridge. 25 ft.above hollow, bears E. and W.
	Desc.
80.00	Point 30 ft.below ridge,
	Set a sandstone 18 x 10 x 5 ins., 12 ins.in the ground, for cor.of secs.25,30,31, and 36, mkd.5 notches on N. and 1 notch on S.edges; from which
	A cedar 8 ins.dia.bears N.83° 45'E. 195 lks.dist. mkd.T 40 S R 9 W S 30 B T
	A cedar 6 ins.dia.bears S.76° 45'E. 225 lks.dist. mkd.T 40 S R 9 W S 31 B T
	A yellow pine 20 ins.dia.bears S.3° 45'W. 156 lks. dist., mkd.T 40 S R 10 W S 36 B T
	A cedar 6 ins.dia., bears N.30° 00'W. 95 lks.dist. mkd.T 40 S R 10 W S 25 B T
	Land, mountainous.
	Soil, gravelly clay; 3rd rate.
	Timber, cedar, pinon, yellow, and red pine.
	Undergrowth, oak, serviceberry, sage, and buck brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 80.00 chs.
	Exceptionally difficult to survey 80.00 chs.

East Bdy.of T. 40 S..R. 10 W.- Continued.

Chains.	
	South on a true line bet.secs.31 and 36,
	Over mountainous land; through dense undergrowth and scattering yellow pine timber. Desc.
8.65	Bottom of hollow, 80 ft.below sec.cor.. course SW. Asc.
18.00	Top of ridge, 80 ft.above hollow, bears E. and W. Desc.
20.00	Bottom of hollow, 20 ft.below ridge, course W. Asc.
40.00	Set a sandstone 16 x 9 x 5 ins.. 11 ins.in the ground, for ¼ sec.cor.. mkd.¼ on W.face; from which
	A yellow pine 40 ins.dia.bears N.78° 00'E. 171 lks.dist.. mkd.½ S 31 B T
	A yellow pine, 16 ins.dia.bears S.31°30'W. 16 lks. dist.. mkd.½ S 36 B T
40.80	Top of low ridge, 20 ft.high, bears E. and W. Desc.
54.80	Creek 3 lks.wide, 2 ins.deep, in bottom of hollow, 100 ft.below ridge, course W. Asc.
80.00	Point 150 ft.above hollow,
	Indersect Eighth Standard Parallel South 1.28 chs.west of the temp.cor.of Tp.40 S., Rs.9 and 10 W. and 82.60 chs.west of the standard cor.of secs.31 and 32, heretofore described,
	Set a limestone 18 x 10 x 10 ins., 12 ins.in the ground for standard cor.of Tp.40 S., Rs.9 and 10 W., mkd.S C 40 S on N., 9 W on E., and 10 W on W.faces; with 6 grooves on N., E., and W.faces; from which
	A yellow pine, 15 ins.dia., bears N.24° 30'E. 548 lks.dist., mkd.T 40 S R 9 W S 31 B T
	A cedar 10 ins.dia.bears N.51° W. 389 lks.dist. mkd.T 40 S R 10 W S 36 B T
	and raise a mound of stone 2 ft.base, 1½ ft.high N. of cor.
	Land, mountainous.

Chains. Soil, clay loam and gravelly; 2nd and 3rd rates.
Timber, cedar, pinon pine, and yellow pine.
Undergrowth, oak, serviceberry, and buck brush.
Good grass for grazing.
Mountainous land, or land covered with dense undergrowth 80.00 chs.
Exceptionally difficult to survey 80.00 chs.

October 5, 1910.

West Boundary T. 40 S., R. 10 W.

August 4, 1911: At 7 h. 6 m.a.m.l.m.t.I set off 37° 20' N.on the lat.arc; 17° 29'N.on the decl.arc; and determine a meridian with the solar at the witness corner for secs.13.18.19, and 24 on W.bdy.T.40 S., R. 10 W. heretofore described. Thence I run

North on offset line bet.secs.13 and 18,

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

40.00 Offset west 6.75 chs., and

Set a sandstone 16 x 9 x 4 ins., 11 ins.in the ground, for the ¼ sec.cor., mkd.¼ on the W.face; from which

A pinon pine, 10 ins.dia., bears S.36° 30'E. 38 lks.dist., mkd.¼ S 18 B T

A pinon pine, 12 ins.dia.bears S.45° 00'W. 70 lks. dist., mkd.¼ S 13 B T

Asc.

42.00 Top of ascent along side of ridge bears N. 10° W.and S.

Leave timber, bears E. and W.; enter dense undergrowth bears E. and W.

50.60 Begin descent bears E. and W.

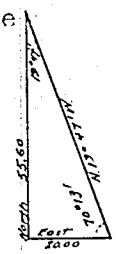
52.60 Edge of impassable canyon, bears E. and W.

Set a sandstone 18 x 12 x 8 ins., 12 ins.in the ground, for witness point, mkd.W P on W.face; and raise a

West Boundary of T. 40 S., R. 10 W.-Continued.

Chains. mound of stone 2 ft.base. 1½ ft.high W.of cor.

In order to determine the distance across the canon I set a flag on line on the N.side of canon. and measure a base east 20.00 chs., from which point the flag on N.side bears N.19° 47'W., and from the flag on the N. side the east end of base bears S.19° 47'E.; I compute the distance across the canon as follows:



Tan.70°13' x base, or 2.78014 x 20.00=55.60 chs.

55.60 plus 52.60 equals 108.20 chs.

80.00 Point for the cor.of secs.7,12,13, and 18 falls in canon, cor.is not set.

108.20 minus 80.00 equals 28.20 to edge of canon.

Land, mountainous.

Soil, gravelly and rocky, 3d and 4th rates.

Timber, cedar, pinon pine, and yellow pine.

Undergrowth. oak, larb. serviceberry. and buck brush.

Good grass for grazing.

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

Exceptionally difficult to survey 80.00 chs.

At the point triangulated to from the south side of the canon, which is 28.20 chs.N.of the point for cor. of secs.7,12,13, and 18

Set a red sandstone 18 x 10 x 8 ins., 12 ins.in the ground for witness point mkd.W P on W.face; from which

A cedar 6 ins.dia.bears S.17° 45'E. 30 lks.dist. mkd.W P B T

A pinon pine, 18 ins.dia.bears S.54° 00'W. 88 lks. dist., mkd.W P B T

August 4, 1911: At this cor.I set off 17° 24'N.on the decl.arc; and at 12 h. 6 m.a.m.l.m.t.. I observe the sun on the meridian; the resulting lat.is 37° 21'N.

Chains	
	which is the proper latitude nearly.
	Thence I continue north bet.secs.7 and 12,
	Distance counting from the point for sec.cor.7.12,13, and 18,
	Over mountainous land; through dense undergrowth and scattering timber. Desc.
36.00	Bottom of the canon, 36 ft.below witness point, drains S.10° W. Asc.
40.00	Set a red sandstone 16 x 10 x 4 ins., 11 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; from which
	A yellow pine 17 ins.dia.bears S.70° 00'E. 263 lks.dist., mkd.¼ S 7 B T
	A yellow pine 18 ins.dia.bears N.11° 30'W. 343 lks dist., mkd.¼ S 12 B T
55.50	Top of spur, 200 ft.above canon, projects.E. Desc.
63.30	Bottom of hollow, 30 ft.below spur, course SE. Asc.
75.50	Top of ridge, 60 ft.above hollow bears N.30° W. and S. 60° E. Desc.
78.10	Road to Potato Hollow, bears N. and S.60° E.
80.00	The cor.of secs.1.6.7, and 12 set by me in Sept.1908, which is a limestone 16 x 8 x 6 ins.11 ins.in the ground, mkd. with 1 notch on N. and 5 notches on S. edges; from which
	A yellow pine 40 ins.dia.bears N.33° 10'E. 122 lks. dist., mkd.T 40 S R 10 W S 6 B T
	A yellow pine, 16 ins.dia.bears S.75° 30'E. 181 lks.dist., mkd.T 40 S R 10 W S 7 B T
	A yellow pine 24 ins.dia.bears S.80° 35'W. 148 lks. dist., mkd.T 40 S R 10½ W. S 12 B T
	A yellow pine 38 ins.dia.bears N.84° W. 274 lks. dist., mkd.T 40 S R 10½ W S 1 B T
	Land, mountainous.
	Soil, gravelly and rocky; 3rd and 4th rates.

West Boundary Tp.40 S., R. 10 W.- Continued.

Chains.	
	Timber, cedar, pinon pine, and yellow pine.
	Undergrowth, oak, serviceberry, larb, and buck brush.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 80.00 chs.
	Exceptionally difficult to survey 80.00 chs.
	August 4, 1911.
	Sept.25, 1908: At the cor.of secs.1.6.7. and 12 I set off 0° 54'S.on the decl.arc; and at 11 h. 52 m.a.m. l.m.t. observe the sun on the meridian; the resulting lat.is 37° 22'N., which is the proper lat.nearly.
	North on true line bet.secs.1 and 6,
	Over mountainous land; through dense undergrowth and scattering timber. Desc.
1.00	Road to Potato Hollow, bears N.20° E. and S.20° W.
7.00	Bottom of hollow, 50 ft.below cor., course S.60° E.
	Asc.
10.50	Top of spur, 50 ft.above hollow, bears E. and W.
	Desc.
15.70	Bottom of hollow, 30 ft.below spur, course S.70° E.
	Asc.
22.15	Road to Potato Hollow, bears north and S.20° E.
22.25	Top of ridge, 40 ft.above hollow, bears N.20° E. and S. 20° W.
	Desc.
26.70	Same road bears N.20° E. and S.
34.60	Same road on top of ridge, bears N.40° W. and S.40° E.
	Desc.
40.00	Set a limestone 18 x 8 x 6 ins., 12 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; from which
	A yellow pine 26 ins.dia.bears N.37° 30'E. 106 lks.dist., mkd.¼ S 6 B T

West Bdy. of T. 40 S., R. 10 W. - Continued.

Chains.	
	A yellow pine, 40 ins.dia.bears S.73° 25'W. 88 lks.dist., mkd.¼ S 1 B T
40.50	Head of hollow, 30 ft.below ridge, course S.80° E.
	Asc.
42.50	Top of spur, 20 ft.above hollow, bears E. and W.
	From this point a small spring bears S.83° E. about 25.00 chs.dist.
	Desc.
56.00	Bottom of hollow 130 ft.below spur, course E.
	Asc.
71.50	Top of ridge, 50 ft.above hollow, bears N.80° W. and S. 80° E.
	Desc.
84.00	Head of canon, 30 ft.below ridge, course SE.
	Asc.
87.70	Intersect N.bdy.of Tp.42.00 chs.west of ¼ sec.cor.on S.bdy.sec.31 T. 39 S., R. 10 W., which is a limestone 10 x 10 x 6 ins.above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	Set a limestone 16 x 10 x 41ins., 11 ins.in the ground, for closing cor.of Tps.40 S., Rs.10 and 10½ W., mkd. C C 40 S on S., 10 W on E.and 10½ W on W.faces; with 6 grooves on E., W., and S.faces; from which
	A yellow pine, 30 ins.dia., bears S.4°.44'W. 367 lks.dist., mkd.T 40 S R 10½ W S 1 B T
	No other trees within limits; raise a mound of stone. 2 ft.base, 1½ ft.high S.of cor.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, cedar, pinon pine and yellow pine.
	Undergrowth, oak, serviceberry, and buck brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 87.70 chs.
	Exceptionally difficult to survey 87.70 chs.

September 25, 1903.

West Bdy.of T. 40 S., R. 10 W.-Continued.

Chains. Boundaries of T.40 S., R. 10 W.

Latitudes, Departures, and Closing Errors.

Line Designated		Course	Distance	Latitudes, Departures. N.	S.	E.	W.
			chs.	chs.	chs.	chs.	chs.
W.Bdy.	T.40 S.R.10 W.	North	247.70	247.70	.....	.....	.....
N.Bdy.	T.40 S.R.10 W.	East	480.40	.....	.....	480.40	.....
E.Bdy.	T.40 S.R.10 W.	South	487.00	.....	487.00	.....	.....
S.Bdy.	T.40 S.R.10 W.	West	360.00	.....	.....	.....	360.00
W.Bdy.	sec.32 Sub. T 40 S R 10 W.	N.0° 3'W.	40.00	40.00	.....	.....	.03
S.Bdy.	sec.32 Sub. T.40 S.R.10 W.	West	40.00	[illegible]	.....	.....	40.00
W.Bdy.	secs.32,29 and 20T.40 S.R.10 W.	N.0° 3'W.	200.00	200.00	.....	.....	.17
S.Bdy.	sec.18 Sub. T.40 S.R.10 W.	West	79.70	.....	.....	.....	79.70
Convergency						.25	
Totals				487.70	487.00	480.65	479.90
				487.00		479.90	
Error in lat.				.70			
Error in dep.						.75	

General Description.

For general description see notes of subdivisions of T.40 S., R .10 W.

Leo A. Swan

September 25. 1908. U.S.Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Leo A Snow, 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 W.bdy.T.40 S., R.8 W.;E.and W.bdys.T.40 S.,R.10 W.; and W.and N.bdys.T.39 S.,R.4 W., the Salt Lake Base and Meridian, showing the respective capacities in which they acted:

Menzies Macfarlane, *Chainman.*

Reuben Stratton, *Chainman.*

Angus M.Woodbury, *Moundman.*

N.Henry Savage, *Moundman.*

Ross Macfarlane, *Axman.*

Samuel Brooks, *Axman.*

Grant Gregerson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Leo A.Snow, United States Deputy Surveyor, in surveying all those parts or portions of the W.bdy.T.40 S.,R.8 W.;E.and W.bdys.T.40 S.,R.10 W.; and W.and N.bdys.T.39 S.,R.4 W.,of the Salt Lake Base and Meridian ~~xxxxxx~~ ~~xxxxxxx~~ 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.

Menzies Macfarlane, *Chainman.*

Reuben Stratton, *Chainman.*

Angus M. Woodbury, *Moundman.*

N. Henry Savage, *Moundman.*

Ross Macfarlane, *Axman.*

Samuel Brooks, *Axman.*

Grant Gregerson, *Flagman.*

Subscribed and sworn to before me this 28th day of September, 1908.

SEAL

Leo A. Snow

U.S.Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of 14th day of May, 1908; I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surve General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the W.bdy.T.40 S.,R.8 W.;E.and W.bdys.T.40 S.,R.10 W.;and W.and N.bdys.T.39 S.,R.4 W.,of the Salt Lake Base and Meridian.

xxxxxx

xxxxxx in the State of Utah, which are represented in in books "I", "M" & "Q" foregoing field notes as having been surveyed by me, and under my direction; and I do further solen 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 Surve General for Utah and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

Leo A. Snow

United States Deputy Surve

Subscribed by said Leo A. Snow, and sworn to before me this 8th day of April, 1909

Thomas Hull

SEAL

U. S. Surveyor-General for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 19

The foregoing field notes of the survey of the East and West Boundaries of Township No. 40 South, Range No.10 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A.Snow under his contract No. 304, dated May 14, 1908, having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Hull

United States Surveyor Gene

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

United States Surveyor Gene

6—151

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Leo A. Snow, United States Deputy Surveyor, to assist in running, measuring, and king the lines and corners described in the foregoing field notes of the survey of st and West Bdys. of Tp.40 S.,R.10 W. of the S.L.B.& M.,Utah, ving the respective capacities in which they acted:

n H. Cotton, *Chainman.*
don Snow, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
ester Snow, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in surveying all e parts or portions of the East and West Bdys. Tp.40 S.R.10 W. of the Salt e Base and meridian, State of Utah, which are represented e foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the er monuments established, according to the instructions furnished by the United States Surveyor ral for Utah.

John H. Cottam, *Chainman.*
Eldon Snow, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Chester Snow, *Flagman.*

cribed and sworn to before me this 4th day of August 1911. 100

SEAL

Leo A. Snow.
U.S. Deputy Surveyor.

61

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Sur
solemnly swear that, in pursuance of a contract received from Thomas Hull
United States Surveyor General for Utah, bearing da
14th day of May 1908, I have well, faithfully, and truly, in
proper person, and in strict conformity with the instructions furnished by the United States
General for Utah, the Manual of Surveying Instructions, and the la
United States, surveyed all those parts or portions of
East and West Bdys. Tp. 40 S., R. 10 W.

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

Leo A. Snow
United States Deputy S

Subscribed by said Leo A. Snow, and sworn to before me
this 22nd day of September, 1911.

John T. Woodh
Clerk Fifth Dist. Cour

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 20, 1912

The foregoing field notes of the survey of East and West Boundaries of To
No. 40 South, Range No. 10 West of the Salt Lake Base and Meri
Utah,

executed by Leo A. Snow
under his contract No. 304, dated May 14, 1908, hav
critically examined, and the necessary corrections and explanations made, the said field notes,
surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor

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

United States Surveyor

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4—679.

BOOK A-366

R.

FILED
SEP 25 1911

M.S.B.

FIELD NOTES

CORRECTIVE
OF THE SURVEY OF THE

EIGHTH STANDARD PARALLEL SOUTH

THROUGH

RANGE 10 WEST

Of the SALT LAKE BASE AND *Meridian,*

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

ıder his Contract No. 304, *dated* May 14, 1908, *190*

rvey commenced October 3, 1910, *190*

rvey completed October 11 1910. *190*

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NAMES AND DUTIES OF ASSISTANTS.

Chester Snow	Chainman.
John H.Cottam	Chainman
Eldon Snow	Chainman
N.H.Savage	Chainman

For preliminary affidavits for 1908, see book "H" T.40 S., R.8

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Volume
#
R0366

BOOK A-366

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, Chester Snow, John H. Cottam, Eldon Snow and N.H. Savage and

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

8th Standard Parallel South through Range 10 West S.L.B.& M., Utah.

Chester Snow, Chainm
John H. Cottam, Chainma
Eldon Snow, Chainma
N.H. Savage Chainm

Subscribed and sworn to before me this 2nd day of October 1910, ~~190x~~

Leo A. Snow
U.S. Deputy Surveyor.

SEAL

WE, ... and .....

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

..... Moundm
..... Moundm

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

SEAL

WE, ... and .....

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

..... Axm
..... Axm

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

SEAL

I, ..., 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
survey of .....

..... Flagm

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

SEAL

1.

Eighth Stndard Parallel South, through Range 10 West.

rrective Survey commenced October 3, 1910, and executed with a Young and Sons light mountain transit No.7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on June 8, 1908.

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

At the Standard cor. of Tps. 40S R. 9 and 10 W.latitude 37° 17' 18" N.,longitude 112° 52' 35.6" W. , I set off 37° 17' N. on the lat. arc; 3° 52' N. , on the decl. arc; and at 2 h 49m p. m. l. m. t., determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of Cor.

At 3 h 45m p. m.l.m.t., I observe Polaris at eastern elongation, in accordance with the manual, and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor.

October 3, 1910.

October 4, 1910: At 7 h 30"m a.m.l.m. t., I lay off the azimuth of Polaris 1° 28' to the west, and mark the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of the cor; this mark falls 0.38 lns. E. of the meridian determined with the solar.

At 7h 49m a. m.l.m.t., I set off 37° 17' N., on the lat. arc; 4° 08' S., on the decl. arc; and mark the meridian d

Eighth Standard Parallel South , through Range 10 W. Contin

Chains	
	determined with the solar , by a cross on the stone, alread set 5.00 chs. N. of the cor.; this mark falls 0?30 ins. eas of the meridian established by observation on Polaris. The solar apparatus by p. m. and a.m. observations defines positions for meridians respectively about 0' 20" W. and 0' 16" E. of the meridian established by Polaris observatio therefore I conclude that the adjustments of the instrumen are satisfactory.
	The magnetic bearing of the meridian at 8 h 30 m m.a/ is N. 16° 20' W., the angle thus determined gives the mag. decl. 16° 20' E.
	From the Standard cor. of Tp. 40 S., Rs. 9 and 10 W., I run
	West, on S. bdy.sec. 36.
	Over mountainous land; through scattering timber and dense undergrowth.
	Asc.
5.20	Top of ridge,40 ft. above cor. bears N. and S.
	Desc.
15.00	Bottom of hollow, 25 ft. below ridge, course N.
	Asc.
18.90	Top of spur, 20 ft. above hollow, bears N. 10° W. S.10° E.
	Desc.
26.85	Bottom of hollow , 15 ft. below spur, course N. 10° W.
	Asc.
30.90	Top of spur, 40 ft. above hollow, bears N. and S.
	Desc.
	Difference between measurements of 25.48 chs. by two sets of chainmen, is 2 lks; position of midle point
	By 1st set 25.49 chs.
	By 2nd set, 25.47 chs; the mean of which is

Eighth Standard Parallel South, through Range 10 W.- Continued.

Chains

25.48 East edge of branch of Zion Canyon, bears N. 20° E. and S. 20° W. This canon is about 1000 ft. deep, with nearly perpendicular ledges on both sides so that it is impossible to chain across it. Therefore at this point I

Set a conglomerate stone, 30x10x4 ins. 22 ins. in the ground for witness cor. to standard ¼ sec.cor. mkd. W. C. S C ¼ on N. face; from which

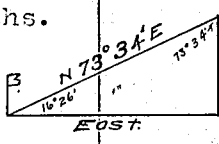
A pinon pine, 14 ins. dia. bears N.8° E. 38 lks dist. mkd.W C SC ¼S 36 BT

A pinon pine 9 ins. dia. bears N. 60° 30' E. 50 lks. dist.mkd. W C S C ¼ S 36 B T.

It is not convenientto get a base for triangulation at this point therefore I return to a point on the standard line 31.55 chs. West of the Standard Cor. of Tps. 40 S. Rs. 9 and 10 W. In order to determine the distance across the canon I set a flag on line on the west edge of canon, and measure a base north 16.00 chs. from which the flag on west edge of canon bears S. 73° 34' W. then from the flag on west edge of canon the north end of base bears N. 73° 34' E. I compute the distance across the canon as follows:

tan 73° 34' x base = 3.39042 x 16.00 = 54.25 chs.

31.55 + 54.25 = 85.80 chs. from tp. cor.



85.80 West edge of canon, bears N. and S.

Point for cor. of secs. 25 and 36 falls in canon where it is impossible to get to set a cor. therefore at this point I

Set a

sandstone, 16x8x5 ins.11 ins.in ground for witness cor. to standard cor. of secs. 25 and 36, mkd. W. C. S C on N. face; with 5 grooves on W.and 1 groove on E. faces; and taise a mound of stone, 2 ft. base 1½ ft.high, N. of cor.

Land, mountainous very rough.

Soil, gravelly and rocky 3rd and 4th rate.

Eighth Standard Parallel South, through Range 10 W.- Contin

Chains

Timber, cedar and pinon pine.

Undergrowth, oak, sage, service berry, and buck brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth.

80.00 chs.

Exceptionally difficult to survey, 80.00 chs.

From the witness cor. for standard cor. of secs. 25 and 36 which is 5.80 chs. W. of the true point for cor. of secs. 35 and 36,

I run

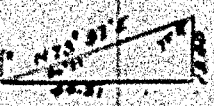
West, on S. bdy. sec. 25.

Over mountainous land; through scattering timber and dense undergrowth.

Asc.

.80 Top of ridge, 10 ft. above witness cor. bears N. and S.

From this ridge the line descends abruptly over precipitous sandstone ledges 1000 ft. high into a branch of Zion canon where it will be impossible to chain; To determine the distance across the canon, I set a flag on line on the west side of canon, and measure a base from this point N. 12.00 chs. from which point the flag on west side of canon bears S. 73° 27' W. and from the flag on west side of canon, the north end of base bears N. 73° 37' E. therefore I conclude that the angles are correct; and compute the distance across the canon as follows:



tan 73° 37' x base = 3.40176 x 12.00 = 44.22 chs.

5.80 + .80 + 44.22 makes (from true point for standard cor. of secs. 25 and 36) = 50.82 chs.

50.82 West side of canon, and top of ridge, bears N. and S.

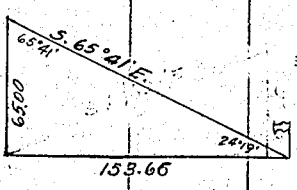
Note: From this point I measure E. a distance of 2.55 chs. in order to get the witness cor. as near the ¼ sec. cor. as possible, which makes the distance from the point

Eighth Standard Paralel South, through Range 10 W.- Continued.

Chains	
	for standard cor. of secs. 25 and 26, 48.29 chs.
48.29	Set a sandstone, 18x12x4 ins. 12 ins. in ground, for witness cor. to standard ¼ sec.cor. mkd. W C S C ¼ on N. face; from which
	A pinon pine, 18 ins. dia. bears N. 89° E. 19 lks dist. mkd. W C S C ¼ S 25 B T.
	A pinon pine, 18 ins. dia. bears N. 55° W. 80 lks. dist. mkd. W C S C ¼ S 25 B T.
50.82	Desc. from top of ridge, [illegible]
	Through scattering timber and dense undergrowth.
	Difference between measurements of 80.00 chs. by two sets of chainmen, is 2 lks; position of middle point,
	By 1st set 79.99 chs.
	By 2nd set 80.01 chs. the mean of which is
80.00	Set a sandstone, 18x10x5 ins. 12 ins. in the ground, for standard cor. of secs. 34 and 35 mkd. with S C on N. and 2 grooves on E. and 4 grooves on W. faces; from which
	A yellow pine, 30 ins. dia. bears N. 38° 15' W. 246 lks. dist. mkd. T 40 S R 10 W S 34 B T.
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Land, mountainous.
	Soil, gravelly and rocky; 3rd and 4th rate.
	Timber, cedar and pinon pine and yellow pine.
	Undergrowth, oak, service berry, and buck brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey, 80.00 chs.
	At this cor. I set off 4° 13' S. on the decl. arc and 11h 49m a. m. l. m. t., I observe the sun on the meridian the resulting latitude is 37° 17' N. which is the proper lat. nearly.

Eighth Standard Parallel South, through Range 10 W.- Continued.

34	Chains	West, on S. bdy. of sec. 34.
		Over mountainous land; through scattering timber and dens undergrowth.
		Asc.
	650	Top of sandstone ridge, 50 ft. above cor. bears N. and S.
		Desc.
	9.81	East edge of breaks of Zion canon, bears N. and S. Zion canon here is about 1500 ft. deep, with almost perpendicular walls. The N. fork of the Rio Virgin is in the bottom of the canon, it is about 20 lks wide, 2ft. deep, course S.
		It is impossible to chain across the canon; therefore at this point, I
		Set a sandstone, 18x10x7 ins. 12 ins. in the ground, for witness point, std. W. P. on N face; and raise a mound of stone 2ft. base, 1½ ft. high N. of cor.
		The canon is more than a mile across at this point and it is impossible to get a proper base on this side of the canon; therefore I erect a flag at this point to be seen from the west side of the canon.
		October 4, 1910.
		October 11, 1910: At 7 h 47 m a.m. l.m. t., I set off 27' 17' N. on the lat. arc; 6° 49' S. on the decl. arc; and determine a meridian with a solar, at a point on the Eigh Standard parallel South, on the west side of Zion canon In order to determine the distance across the canon. I measure a base North, by two sets of chainmen as follows:
		Difference between measurements of 65.00 chs., by two sets of chainmen, is 2 lks.; position of middle point,
		By 1st set, 64.99 chs.
		By 2nd set, 65.01 chs. the mean of which is 65.00 chs., from which point the flag erected on the east edge of canon, on October 4th bears S. 65° 41' E.; I



Eighth Standard Parallel South, through Range 10 W.-Continued.

Chains. recompute the distance across the canon as follows:
tan.65° 41' x base or 2.21304 x 65.00 = 143.85 chs.
143.85 + 9.81 makes 153.66.

153.66 West edge of Zion Canon, bears N. and S.

Set a red sandstone 20 x 12 x 6 ins., 15 ins. in the ground for witness point, mkd. W P on N. face, from which

A pinon pine, 8 ins. dia. bears N. 20° 30'E. 98 lks. dist., mkd. W P T 40 S R 10 W S 33 B T

A cedar 4 ins. dia. bears N. 0° 30'W. 19 lks. dist. mkd. T 40 S R 10 W S 33 B T

Asc. through dense undergrowth and scattering timber.

160.00 Set a red sandstone 14 x 8 x 7 ins., 9 ins. in the ground, for standard cor. of secs. 32 and 33, mkd. S C on N., with 4 grooves on E. and 2 grooves on W. face; from which

A pinon pine, 18 ins. dia. bears N. 5° 20'E. 6.83 chs. dist., mkd. T 40 S R 10 W S 33 B T

A yellow pine 40 ins. dia. bears N. 68° 50'W. 232 lks. dist., mkd. T 40 S R 10 W S 32 B T

Land, mountainous (that part crossing Zion Canon exceptionally rough).

Timber, cedar, pinon pine and yellow pine.

Soil, rocky; 4th rate.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth 160.00 chs.

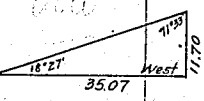
Exceptionally difficult to survey 160.00 chs.

October 11, 1910: At this cor. I set off 6° 54'S. on the decl. arc; and at 11 h. 47 m. a.m. l.m.t. I observe the sun on the meridian; the resulting lat. is 37° 17'N. which is the proper lat. nearly.

West on S. bdy. of sec. 32,

Eighth Standard Parallel South, through Range 10 W.- Continued.

Chains.	
	Over mountainous land; through dense undergrowth and scattering timber. Desc.
5.00	Edge of canon, bears N. and S.
	From this point the line descends abruptly over sandstone ledges into a branch of Zion Canon, where it is impossible to chain; therefore, in order to determine the distance across I return to the sec.cor. and measure a base N.11.70 chs., from which point flag on top of ridge on opposite side of canon bears S.71° 33' W. I compute the distance across the canon as follows: Tan.71°33' x base or 2.99738 x 11.70 =35.07 chs.
	I measure east from here 13.30 chs. to W.edge of canon.
21.77	(Measuring from sec.cor.) West edge of canon bears N.& S.
35.07	Top of ridge; 300 ft. above canon bottom bears N.& S. Desc.
40.00	Set a sandstone 16 x 12 x 5 ins., 11 ins. in the ground, for standard ¼ sec.cor., mkd. S C ¼ on N. face; from which
	A pinon pine, 14 ins. dia. bears N.14° 40'E. 60 lks. dist., mkd. S C ¼ S 32 B T
	A cedar 18 ins. dia. bears N.19° 40'W. 15 lks. dist. mkd. S C ¼ S 32 B T
	This cor. is at edge of impassable canon, across which it is impossible to triangulate; therefore I abandon the line at this point.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, cedar, pinon pine, and yellow pine.
	Undergrowth, oak, serviceberry, larb, and buck brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 40.00 chs.
	Exceptionally difficult to survey 40.00 chs.
	October 11, 1910.



GENERAL DESCRIPTION.

For general description see notes of subdivision of T. 40 S., R. 10 W.

Note:

The first survey of the 8th Stand.Par.S.through R. 10 W. was made by me in Sept.1908. I was afterwards instructed to proceed to the field to correct said line; and the foregoing notes are notes of a practically new survey. The old corners as originally marked were moved to points agreeing with the new chaining.

Leo A. Snow.

U.S.Deputy Surveyor.

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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 Leo A. Snow, United States Deputy Surveyor, to assist in running, measuring, and rking the lines and corners described in the foregoing field notes of the survey of the Eighth ndard Parallel South, through Ranges 8, 9, and 10 West, of the Salt Lake se and Meridian.
wing the respective capacities in which they acted:

Menzies Macfarlane, *Chainman.*

Reuben Stratton, *Chainman.*

Angus M. Woodbury Chainman, ~~Moundman~~

N. Henry Savage Chainman, ~~Moundman~~

Rass Macfarlane Moundman, ~~Axman.~~

Samuel Brooks Moundman, ~~Axman~~

Grant Gregerson and Eldon Snow Axmen ~~Axman.~~
James S. Gregerson Flagman

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in surveying al se parts or portions of the Eighth Standard Parallel South, through Ranges 8, 9, and 10 West, of the Salt e Base and meridian, State of Utah, which are represented he foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the ner monuments established, according to the instructions furnished by the United States Surveyor neral for Utah.

Menzies Macfarlane, *Chainman.*

Reuben Stratton, *Chainman.*

Angus M. Woodbury Chainman, ~~Moundman.~~

N. Henry Savage Chainman, ~~Moundman.~~

Rass Macfarlane Moundman, ~~Axman.~~

Grant Gregerson Axman, Samuel Brooks Moundman, ~~Axman.~~

Eldon Snow Axman. James S. Gregerson ~~Flagman.~~

scribed and sworn to before me this 28th day of September, 1908.

SEAL

Leo A. Snow
U. S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 14th day of May, 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Eighth Standard Parallel South, through Ranges 8, 9, and 10 West,

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

Leo A. Snow
United States Deputy Surveyor.

Subscribed by said Leo A. Snow, and sworn to before me this 8th day of April, 1909.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 1909

The foregoing field notes of the survey of the Eighth Standard Parallel South through Range No. 10 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A. Snow under his contract No. 304, dated May 14, 1908, 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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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Leo A. Snow, United States Deputy Surveyor, to assist in running, measuring, and king the lines and corners described in the foregoing field notes of the survey of 8th Standard Parallel South through Range 10 West, S.L.B.& M., Utah, ring the respective capacities in which they acted:

hester Snow, John H. Cottam, *Chainman.*

ldon Snow, W.H. Savage, *Chainman.*

, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in surveying all parts or portions of the 8th Standard Parallel South through Range 0 West, of the Salt Base and meridian, State of Utah, which are represented e foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the r monuments established, according to the instructions furnished by the United States Surveyor ral for Utah.

John H. Cottam, *Chainman.*

Eldon Snow, *Chainman.*

W. H. Savage, *Chainman.*

Chester Snow, *Moundman.*

, *Axman.*

, *Axman.*

, *Flagman.*

ribed and sworn to before me this 12th day of October 1910. 190

SEAL

Leo A. Snow.

U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ~~Thomas Hull~~ United States Surveyor General for Utah, bearing date of t 14th day of May 1908, ~~189~~, I have well, faithfully, and truly, in my ov proper person, and in strict conformity with the instructions furnished by the United States Survey General for Utah, the Manual of Surveying Instructions, and the laws of t United States, surveyed all those parts or portions of

8th Standard Parallel South through Range 10 West.

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

Leo A. Snow

United States Deputy Survey

Subscribed by said Leo A. Snow, and sworn to before me this 23 day of September ~~1911~~ 190

John L. Woodbury

SEAL

Clerk Fifth Dist. Court.

State of Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 20, 1912., 190

The foregoing field notes of the corrective survey of the Eighth Standard Parallel South through Range No. 10 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A. Snow under his contract No. 304, dated May 14, 1908, having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Hull

United States Surveyor Gene

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

United States Surveyor Gen

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395 M.S.B. 395

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BOOK A-366

S.

FILED
APR 8 1909

FIELD NOTES

S. 13.

Refiled Sept. 25, 1911.

OF THE SURVEY OF THE

SUBDIVISION

of

Township No.40 South, Range No.10 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

er his Contract No. 304, *dated* May 14, 1908. ~~190~~

ey commenced September 12, 1908. ~~190~~

ey completed August 6, 1911. ~~190~~

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Mat 38-76-95

BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M. Woodbury	Moundman
N. Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

For preliminary oaths of assistants see book "C" Tp. 36 S., R. 11 W for 1908.

1910:-

John H. Cottam	Chainman
Eldon Snow	Chainman
Chester Snow	Flagman

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BOOK A-366

INDEX DIAGRAM.

Township 40 South, *Range* 10 West

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, John H. Cottam and Eldon Snow do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level t chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; th we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey the subdivision of Tp.40 S.,R.10 W. S.L.B.& M.,Utah.

John H Cottam, Chainma

Eldon Snow, Chainma

Subscribed and sworn to before me this 5th day of October 1910. ~~190~~

Leo A Snow.

SEAL

U.S.Deputy Surveyor.

We, ... and ..... 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

..... Moundma

..... Moundma

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

SEAL

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

..... Axma

..... Axma

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

SEAL

I, Chester Snow, do solemnly swear that I will well and tru perform the duties of flagman according to instructions given me, to the best of my skill and ability, in t survey of Subdivisions of Tp.40 S,R.10 W. S.L.B.& M.,Utah.

Chester Snow, Flagma

Subscribed and sworn to before me this 5th day of October 1910. ~~190~~

Leo A Snow.

SEAL

U/S.Deputy Surveyor.

Subdivision of T. 40 S., R. 10 W.-

Survey commenced Sept.12, 1908, and executed with a Young and Sons light mountain transit, No.7382, with solar attachment.

For description and complete test of instrument see book "Q" of this survey.

Having been ordered into the field to make corrections, I proceed as follows:

Corrective survey commenced Oct.5, 1910, and executed with a Young and Sons light mountain transit No.7382.

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

At the witness cor.to the stand.cor.of secs.35 and 36, on S.bdy.of Tp., heretofore described, lat.37° 17'18" N., long.112° 53' 42" W., I set off 4° 39'S.on decl. arc; 37° 17'N.on the lat.arc; and at 2 h. 49 m.p.m. l.m.t., I determine a meridian with the solar and mark the point thereof on a stone firmly set in the ground 5 chs.N.of the cor.

At 6 h. 38 m. p.m.l.m.t., I observe Polaris at eastern elongation in accordance with the Manual, and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground 5 chs.N.of the cor.

Oct.5, 1910.

Oct.6: At 7 h. 30 m.a.m.l.m.t., I lay off the azimuth of Polaris 1° 28' to the west, and mark a point in the meridian thus determined, by cutting a small groove in the stone already set 5.00 chs.N.of the cor.; this mark falls 0.38 ins.E.of the meridian determined with the solar.

Subdivision T. 40 S. R. 10 W.

Chains. At 7 h. 48 m.a.m.l.m.t., I set off 37° 17'N.on the lat. arc; 4° 54'S.on the decl.arc; and mark the meridian determined with the solar by a cross on the stone already set 5.00 chs.N.of the cor. This mark falls 0.40 ins.E.of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0' and 20" W. and 0' 21" E., of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h. 30 m. a.m.l.m.t., is N.16° 20'W.; the angle thus determined gives the magnetic decl.16° 20'E.

From the witness cor.to the standard cor.of secs.35 and 36 on S.bdy.of Tp., heretofore described, which is 5.80 chs.west of the true point for standard cor.of secs.35 and 36, I run

N.0° 1'W.on an offset line bet.secs.35 and 36, Over mountainous land; through dense undergrowth and scattering timber. Asc.

8.50 Thence offset east 5.80 chs.to sec.line, at edge of breaks.

Set a sandstone 30 x 10 x 4 ins., 22 ins.in the ground, for witness cor.to standard cor.of secs.35 and 36,mkd. W C S C on N.face, with 1 groove on E. and 5 grooves on W.faces; from which

A pinon pine, 10 ins.dia., bears N.74° 00'E. 67 lks.dist., mkd.W C T 40 S R 10 W S 36 B T

A pinon pine. 7 ins.dia., bears S.28° 32'W.36 lks. dist., mkd.W C T 40 S R 10 W S 35 B T

Subdivision T.40 S.,R.10 W._ Continued.

Chains.	
	[illegible]
	Ascend abruptly.
21.00	Top of abrupt ascent bears E. and W.
	Ascend gradually.
21.50	Top of ridge 75 ft. above witness cor. bears E.and W.
	Desc.
26.50	Bottom of swale 20 ft. below ridge course East.
	Asc.
32.00	Top of spur, 30 ft.above swale bears E. and W.
	Desc.
37.00	Bottom of hollow,75 ft.below spur,course E.
	Asc.
40.00	Set a sandstone 16x7x5 ins.11 ins.in the ground for the ¼ sec. cor. mkd.¼ on W. face;from which
	A pinon pine 14 ins.dia.,bears N8°00'E 344 lks. dist. mkd. ¼ S 36 B T.
	A cedar 8 ins. dia.bears N44°25'W 18 lks. dist. mkd.¼ S 35 B T.
44.00	Top of ridge,85 ft. above hollow bears E. and W.
58.00	Bottom of hollow,100 ft. below ridge course E.
	Asc.
75.30	Top of ridge,75 ft.above hollow bears E. and W.
	Desc.
80.00	Set a sandstone 24x12x6 ins. 13 ins.in the ground for cor. of secs. 25,26,35 and 36 mkd.with 1 notch on S. and E. edges: edges; from which
	A yellow pine 40 ins.dia. bears N62°40'E 895 lks. dist.mkd.T.40 S.R.10 W S 25 BT.
	A yellow pine 30 ins.dia. bears S50°40'E 298 lks. dist. mkd.,T 40 S.R.10 W. S 36 BT.
	A yellow pine 38 ins.,dia.,bears S39° 00'W 114 lks. lks.dist. mkd. T.40 S.R.10 W.S 35 BT.
	A yellow pine 40 ins.dia.bears N70°35'W 601 lks. diat.mkd. T 40 S R 10 W S 26 B T.

Subdivision T.40 S., R.10 W. - Continued.

Chains.	
	Land mountainous.
	Soil, gravelly and rocky; 3rd and 4th rates.
	Timber, cedar pinon pine and yellow pine.
	Undergrowth, oak and service berry.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth
	80.00 chains.
	Exceptionally difficult to survey, 80.00 chs.
	East on a random line bet. secs. 25 and 36
40.00	Set a temp. ¼ sec. cor.
80.00	Intersect E. bdy. Tp. at the cor. of secs. 25, 30, 31 and 36 heretofore described.
	West on a true line bet. secs. 25 and 36
	Over mountainous land; through dense undergrowth and scattering timber.
	Asc.
22.90	Top of ridge, 40 ft. above cor. bears N and S.
	Desc.
33.85	Bottom of hollow, 60 ft. below ridge, course NE.
	Asc
40.00	Set a limestone, 16x10x8 ins. 11 ins. in the ground for the ¼ sec. cor. mkd. ¼ on N. face; from which
	A yellow pine 28 ins. dia. bears S 46° 10' E 78 lks. dist. mkd. ¼ S 36 B T.
	A yellow pine 30 ins. dia. bears N 22°40' W 120 lks. diat. mkd. ¼ S 25 B T.
46.50	Top of ridge, 80 ft. above hollow, bears N. and S.
	Desc.
54.20	Bottom of swale 25 ft. below ridge bearse S.
	Asc.
66.40	Top of ridge, 40 ft. above swale, bears N and S.
	Desc.
80.00	The cor. of secs. 25, 26, 35 and 36.
	Land, mountainous.

Subdivision Tp.40 S., R. 10 W.- Continued.

Chains

Soil, gravelly and rocky; 3d and 4th rates.

Timber, cedar, pinon pine and yellow pine.

Undergrowth, oak, buck brush, and service berry.

Good grass for grazing.

Mountainous land, or land covered with dense under-growth 80.00 chs.

Exceptionally difficult to survey 80.00 chs.

October 6, 1910: At this cor.I set off 4° 59'S.on the decl.arc; and at 11 h. 48 m.a.m.l.m.t., observe the sun on the meridian; the resulting lat.is 37° 18'N. which is the proper lat.nearly.

N.0° 01'W.bet.secs.25 and 26,

Over mountainous land; through scattering timber and dense undergrowth.

Desc.

12.50 Begin precipitous descent, bearing NW. and SE.

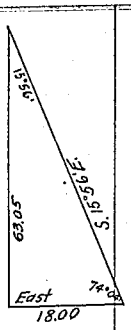
20.20 Edge of canon, bears NW. and SE.

This canon is 800 ft.deep, with perpendicular walls on both sides. It is impossible to chain across canon; therefore at this point,

Set a sandstone 14 x 8 x 6 ins., 9 ins.in the ground, for witness cor.to ¼ sec.cor., mkd.W C ¼ on W.face; and raise a mound of stone 2 ft.base, 1½ ft.high W. of cor.

It is impossible to get a base for triangulation at this point; therefore I return on line to a point 5.00 chs.N.of the cor.of secs.25,26,35, and 36. To determine the distance across the canon I place a flag on line on north side of canon, and from this point measure a base east 18.00 chs., from which point the

Subdivision Tp.40 S., R. 10 W.- Continued.



Chains. flag on N.side of canon bears N.15° 56'W.; then from the flag on N.side of canon the E.end of base bears S. 15°.56'E. I compute the distance across as follows:

tan.74° 04' x.base, or 3.50279.x 18.00 = 63.05 chs.

5.00 plus 63.05 equals 68.05 chs.

68.05 North edge of canon bears NW. and SE.

Ascend, through scattering timber and dense undergrowth.

69.00 Top of spur, 50 ft.above edge of canon, bears NW. and SE. Desc.

73.10 South edge of Orderville Gulch, bears NE. and SW.

The gulch is here about 200 ft.deep, with nearly perpendicular sides. It is impossible to chain across.

At this point I find the witness corner set by me Sept. 13, 1908, which is a sandstone 14 x 12 x 8 ins., 9 ins.in the ground, set for witness cor.to secs.23.24 25, and 26, mkd.W C on NE.face, with 2 notches on S. and 1 notch on E.edges; from which

A pinon pine, 10 ins.dia.bears N.20° 30'E. 75 lks. dist., mkd.W C T 40 S R 10 W S 24 B T

A cedar 12 ins.dia.bears S.70° W. 158 lks.dist. mkd.W C T 40 S R 10 W S 26 B T

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

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar, pinon pine, and yellow pine.

Undergrowth, oak, sage, and serviceberry brush.

Good grass for grazing.

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

Exceptionally difficult to survey 80.00 chs.

October 6, 1910.

Subdivision Tp.40 S., R. 10 W.- Continued.

Chains. From the witness cor.to the cor.of secs.23.24.25. and 26. I run. on offset line as follows:

East 8.00 chs.. then

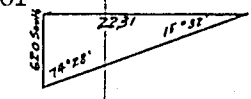
North 6.90 chs.to the random line bet.secs.24 and 25.

Set temp.witness cor.to cor.of secs.23.24.25. and 26.

Thence east on random line bet.secs.24 and 25(distance counted from point for cor.of secs.23.24.25. and 26.)

16.45 West edge of impassable canon.

To determine the distance across the canon I set a flag on line on east side of canon, and measure a base south 6.20 chs.. from which the flag on east side of canon bears N.74° 28'E., and from flag to S.end of base bears S.74° 28'W.



I compute the distance across the canon as follows:

Tan.74° 28' x base, or 3.59775 x 6.20 equals 22.31

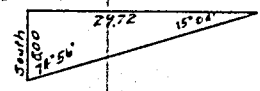
16.45 plus 22.31 equals 38.76 chs.

38.76 East side of canon.

40.00 Set a temp.$\frac{1}{2}$ sec.cor.

50.24 West edge of impassable canon.

In order to get the distance across canon I set a flag on east edge of canon on line, and measure a base south 8.00 chs., from which the flag on east edge of canon bears N.74° 56'E.. and from the flag (which is at the cor.of secs.19.24.25. and 30) the south end of base bears S.74° 56'W. I compute the distance across the canon as follows:



Tan.74°56' x base or 3.71476 x 8.00 equals 29.72

50.24 plus 29.72. equals 79.96

79.96 Intersect E.bdy.of Tp.at the corner of secs.19.24.25, and 30, heretofore described.

Thence I run

Subdivision of Tp.40 S., R. 10 W.- Continued.

Chains.	
	West on a true line bet.secs.24 and 25,
	Over mountainous land; through scattering timber and dense undergrowth
	Desc.
3.00	East side of branch Orderville Gulch, bears N. and S.
	This canon is about 1000 ft.deep, with perpendicular walls.
29.72	West side of canon, bears N. and S.
	Asc.
37.30	Top of knoll, 75 ft.above edge of canon.
	Desc.
39.98	Set a limestone 16 x 10 x 5 ins., 11 ins.in the ground, for ¼ sec.cor., mkd.¼ on N.face; from which
	A red pine, 12 ins.dia.bears N.8° E. 37 lks.dist. mkd.¼ S 24 B T
	A pinon pine, 15 ins.dia., bears S.78° 15'E. 68 lks.dist., mkd.¼ S 25 B T
41.20	East edge of canon, bears N. and S.
	This canon is about 1000 ft.deep, with perpendicular walls on both sides.
63.51	West edge of canon, bears N. and S.
	Asc.
70.96	Edge of Orderville Gulch, bears NE. and SW.
	It is impossible to chain farther on line.
	Set a sandstone 18 x 10 x 5 ins., 12 ins.in the ground, for witness cor.to cor.of secs.23.24.25, and 26, mkd. W C on NE.face; with 2 notches on South, and 1 notch on E.edges; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Thence offset south 6.90 chs.; thence thence on offset line west 9.00 chs. (making distance from sec.cor.)
79.96	The witness cor.to cor.of secs.23.24.25, and 26.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber

Subdivision of Tp.40 S., R. 10 W.- Continued.

Chains. Timber, cedar, pinon pine, and yellow pine and red pine.
Undergrowth, oak, buck brush and serviceberry brush.
Good grass for grazing, except in the canon.
Mountainous land, or land covered with dense undergrowth 79.96 chs.
Exceptionally difficult to survey 79.96 chs.

October 6, 1910.

October 7, 1910: At 7 h. 48 m.a.m.l.m.t., I set off 37° 17' N.on the latitude arc; 5° 17'S.on the decl.arc; and determine a meridian with the solar at the standard cor.of secs.34 and 35, heretofore described.

Thence I run

N.0° 1'W.bet.secs.34 and 35,

Over mountainous land; through dense undergrowth and scattering timber.

Asc.

9.20 Top of sandstone point, 50 ft.above cor., projecting east. From here north the line descend abruptly over perpendicular ledges, where it is impossible to chain; therefore at this point I

Set a sandstone 12 x 10 x 8 ins., 8 ins.in the ground, for witness point mkd.W P on west face; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. I then offset as follows:

East 11.40 chs.; then on offset line,

N.0° 1'W. 30.80 chs.

West 4.37 chs.to a point 7.03 chs.east of the point for ¼ sec.cor., at NE.edge of canon.

40.00 Set a sandstone 24 x 12 x 7 ins., 16 ins.in the ground for witness cor.to ¼ sec.cor., mkd.W C ¼ on W.face; from which

A pinon pine 8 ins.dia.bears N.41° 30' E. 23 lks.

Subdivision of Tp.40 S., R. 10 W. Continued.

Chains. dist., mkd.W C ¼ S 35 B T

A cedar 16 ins.dia.bears S.63°.25'W. 33 lks.dist.

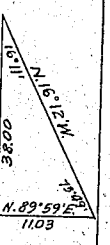
mkd.W C ¼ S 34 B T

From this witness cor.I continue on offset line,

N.0° 1'W. 1.75 chs. making from sec.cor.

41.75 chs.to south edge of canon, across which it is impossible to chain; canon bears NE. and SW.

In order to determine the distance across the canon I set a flag on offset line on north side of canon and measure a base N.89° 59'E. 11.03 chs., to a point from which the flag on north side bears N.16° 12'W. and from the flag on N.side the east end of base bears S. 16° 12'E. I compute the distance across the canon as follows:



Tan.73° 49' x base. or 3.44576 x 11.03 equals 38.00; 41.75 plus 38.00 makes (counting from the sec. cor.)

79.75 North edge of canon, bears NE. and SW.

80.00 Offset 7.03 chs. west to the true point for cor.

Set a sandstone 20 x 9 x 5 ins., 15 ins.in the ground, for cor.of secs.26,27,34, and 35, mkd.with 1 notch on S. and 2 notches on E.edges; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, cedar and pinon.pine.

Undergrowth, oak and serviceberry.

Good grass for grazing.

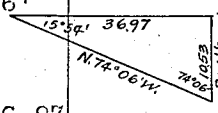
Mountainous land, or land covered with dense under-growth 80.00 chs.

Exceptionally difficult to survey 80.00 chs.

October 7, 1910: At this cor.I set off 5° 22' S. on the

Subdivision of Tp. 40 S., R. 10 W.- Continued.

Chains.	
	decl.arc; and at 11 h. 48 m.a.m.l.m.t., I observe the sun on the meridian; the resulting lat.is 37° 18'N., which is the proper lat.nearly.
	East on a random line bet.secs.26 and 35,
7.00	Edge of impassable canon.
	It is impossible to get a base for triangulation on this side of the canon; therefore I erect a flag at this point, and cross the canon to a point on line on east side and measure a base south 10.53 chs., from which the flag on west side of canon bears N.74° 06' W. I compute the distance across as follows:
	Tan.74° 06' x base, or 3.51053 x 10.53 equals 36.97
	7.00 plus 36.97 makes
43.97	Point on ridge on east side of canon.
	I measure 3.97 chs.west, making
40.00	Set a temp.½ sec.cor.
80.00	Intersect N. and S.line at the cor.of secs.25,26,35,and 36. Thence I run West on true line bet.secs.26 and 35,
	Ascending over mountainous land;through dense undergrowth and scattering yellow pine timber.
26.50	Top of ridge,50 ft.above cor., bears N. and S. Desc.
34.00	Bottom of hollow, 100 ft.below ridge, course N. Asc.
36.03	Top of ridge, 60 ft.above hollow, bears N. and S. Desc.
40.00	Set a limestone 18 x 8 x 7 ins., 12 ins.in the ground, for ½ sec.cor., mkd.½ on N.face; from which
	A pinon pine 20 ins.dia.bears N.78° 00'E. 23 lks. dist., mkd.½ S 26 B T.
	A pinon pine, 8 ins.dia.bears S.9° 30'E. 16 lks.



Subdivision Tr.40 S., R. 10 W.- Continued.

Chains. dist., mkd.$\frac{1}{2}$ S 35 B T

41.30 East edge of canon bears N. and S.

This canon is about 800 ft.deep, with perpendicular walls.

73.00 West edge of canon, bears N.70° E. and S.70° W.

80.00 The cor.of secs.26.27.34, and 35.

Land, mountainous.

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

Timber, red pine and yellow pine.

Undergrowth, oak and serviceberry.

Good grass for grazing.

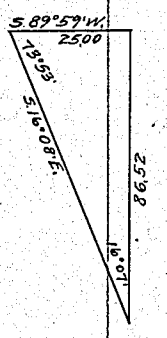
Mountainous land, or land covered with dense undergrowth 80.00 chs.

Exceptionally difficult to survey 80.00 chs.

October 7, 1910.

September 15, 1908: At 7 h. 55 m.a.m.l.m.t.I set off 37° 19'N.on the lat.arc; 3° 03'N.on the decl.arc; and determine a meridian with the solar at the witness cor. to cor.of secs.23.24.25, and 26.

It is impossible to chain the line north from this point across Orderville Gulch, which is about 1200 ft.deep, and very rugged. I therefore place a good flag at this witness cor., and get on line on north side of canon, where I measure a base S.89° 59'W. 25.00 chs.to a point, from which the flag on south side of canon bears S.16° 08'E. I compute the distance across the canon as follows:



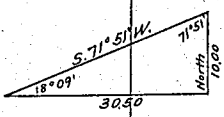
Subdivision of T. 40 S., R. 10 W.- Continued.

Chains.	
	Tan.73° 53' x base, or 3.46080 x 25.00 equals 86.52
	86.52 chs. minus 6.60 chs. equals
79.62	North edge of Orderville Gulch bears NE. and SW.
	Note:
	The point for ¼ sec.cor.falls in gulch where it could not be set,
80.00	Set a red sandstone 18 x 10 x 8 ins., 12 ins.in the ground, for cor.of secs.13.14.23. and 24. mkd.with 3 notches on S. and 1 notch on E.edges; from which
	A cedar 12 ins.dia.bears N.24° 10'E. 60 lks.dist. mkd.T 40 S R 10 W S 13 B T
	A cedar 22 ins.dia.bears S.54° 25'E. 152 lks. dist., mkd.T 40 S R 10 W S 24 B T
	A cedar 10 ins.dia.bears S.23° W. 170 lks.dist., mkd.T 40 S R 10 W S 23 B T
	A pinon pine. 13 ins.dia.bears N.9° 50'W. 130 lks. dist., mkd.T 40 S R 10 W S 14 B T.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, cedar and pinon pine and yellow pine.
	Undergrowth, oak, serviceberry and sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense under-growth 80.00 chs.
	Exceptionally difficult to survey 80.00 chs.

East on a random line bet.secs.13 and 24,

This cor.is at the west edge of a branch of Orderville Gulch, which is impassable; and as there is no good

Subdivision of T. 40 S., R. 10 W.- Continued.



Chains.	
	base obtainable on this side of canon, I erect a flag at this cor., and proceed to a point on line on east side of canon and measure a base north 10.00 chs. to point, from which the flag at the cor. of secs.13.14, 23 and 24 bears S.71° 51'W. I compute the distance across the canon as follows:
	Tan.71°51' x base. or 3.05049 x 10.00 equals 30.50
30.50	East edge of canon.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.10	Intersect E.bdy.of Tp.5 lks.N.of the cor.of secs.13,18, 19, and 24, heretofore described.
	Thence I run
	N.89° 58'W.on a true line bet.secs.13 and 24,
	Over mountainous land; through dense undergrowth and scattering timber.
	Ascend.
5.00	Top of ridge, 100 ft.above sec.cor., bears N.30° W. and S.30° E.
	Desc.
16.80	Bottom of hollow, 300 ft.below ridge, course S.30° W.
	Asc.
20.00	Top of spur, 40 ft.above hollow, bears N. and S.
	Desc.
25.15	Bottom of hollow, 40 ft.below ridge, course S.
	Asc.
40.05	Set a limestone 19 x 10 x 8 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.$\frac{1}{4}$ on N.face; from which
	A yellow pine 30 ins.dia., bears N.19° 30'W. 36 lks.dist., mkd.$\frac{1}{4}$ S 13 B T
	A cedar 10 ins.dia.bears S.4° 30'W. 8 lks.dist. mkd.$\frac{1}{4}$ S 24 B T
49.60	East edge of branch of Orderville Gulch bears N. and S.

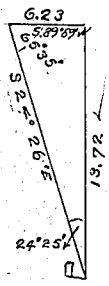
Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	This canon is about 800 ft.deep,and very steep and rugged
80.10	The cor.of secs.13,14,23,and 24.
	Land,mountainous.
	Soil,rocky and gravelly;4th and 3rd rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.10 chs.
	Exceptionally difficult to survey,80.10 chs.
	September 15,1908:At this cor.I set off 2°59'N.,on the decl.arc;and at 11.h 55 m a.m.,l.m.t.,I observe the sun on the meridian;the resulting lat.is 37°20'N.,which is the proper lat.nearly.

	Knowing the cor.of secs.14,15,22 and 23,cannot be established on account of breaks of Zion Canon,I run West,on a true line bet.secs.14 and 23.
	Over mountainous land;through dense undergrowth and scattering timber.
	Asc.abruptly.
10.25	Top of steep ascent.,bears N.and S.
24.80	Top of ridge,200 ft.above sec.cor.,bears N.and S.
	Desc.
30.70	East edge of breaks of Zions Canon ,bears NW and SE.
	It is impossible to continue this line farther .
	Set a sandstone,18x14x12 ins.,12 ins.in the ground,for witness cor.to ¼ sec.cor.,mkd.W C ¼ on N.face;from which
	A pinon pine,14 ins.dia.,bears N.36°30'W.,44 lks.dist..mkd.W C ¼ S 14 B T.
	A pinon pine,7 ins.dia.,bears S.18°10'W.,28 lks.dist..mkd. W C ¼ S 23 B T.
	Land,mountainous .

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,serviceberry,and maple.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 30.70 chs.
	Exceptionally difficult to survey,30.70 chs.
	———
	N.0°1'W.,bet.secs.13 and 14.
	Over mountainous land;through dense undergrowth and scattering timber .
	Desc.
16.79	South edge of canon,bears NW.and SE.
	This canon is about 350 ftldeep,with perpendicular walls so that it is impossible to chain across it.
	A suitable base cannot be obtained on the south side of canon ;therefore At this point I erect a flag and proceed to a point on line on north side of canon;And measure a base S.89°59'W.6.23 chs. to a point from which the flag on south side of canon bears S.24°26'E.;I compute the distance across the canon as follows:
	Tan 65°35' x base or 2.20278 x 6.23 = 13.72 chs.
	16.79 + 13.72 makes
30.51	North edge of canon,bears E.and W.
31.70	Top of spur,50 ft.above edge of canon,bears E.and W.
	Desc.
36.40	South edge of canon,bears E.and W.
	This canon is about 300 ft.deep and so steep and ledgy that it would be impossible to chain across it ;therefore at this point ,



Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	Set a sandstone,18x10x6 ins.,12 ins.in the ground,for witness cor.to ¼ sec.cor.,mkd.W C ¼ on W.face;from which
	A pinon pine,15 ins.dia.,bears S.37° E.,21 lks. dist..mkd.W C ¼ S 13 B T.
	A pinon pine,8 ins.dia.,bears N.81° W.,23 lks. dist..mkd. W C ¼ S 14 B T.
	I find it impossible to get a suitable base on south side of canon for triangulation ;therefore I erect a flag at this witness cor. and proceed to a point on line on north side of canon. To determine distance across the canon I measure a base S.89° 59'W.,4.00 chs.to a point from which the flag on North side of canon bears S.25° 01'E.I compute the distance across the canon as follows:
	Tan 65° x base,or 2.14451 x 4.00 = 8.58 chs.
	36.40 + 8.58 =
44.98	North side of canon,bears E.and W.
	Asc.
68.50	Enter ledges,bears E.and W.
70.00	Leave ledge,bears E.and W.
80.00	Set a limestone,16x10x8 ins.,11 ins.in the ground,for cor.of secs.11,12,13,and 14,mkd.with 4 notches on S.and 1 notch on E.edges;from which
	A yellow pine,12 ins.dia.,bears N.26° 30'E.,218 lks.dist..mkd.T 40 S.,R.10 W S 12 B T.
	A yellow pine,8 ins.dia.,bears S.44° 15'E.,120 lks.dist..mkd.T 40 S R 10 W S 13 B T.
	A red cedar,12 ins.dia.,bears S.89° W.,64 lks. dist..mkd.T 40 S R 10 W S 14 B T.
	A pinon pine,12 ins.dia.,bears N.31° W.,48 lks.dist..mkd. T 40 S R 10 W S 11 B T.
	Land,mountainous .
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar,pinon pine,red pine,and yellow pine.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	Undergrowth,oak,service berry,and maple brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	September 15,1908.
	September 16,1908:At 7 h 55 m a.m.,l.m.t.,I set off 37° 21'N.,on the lat.arc;2° 40'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
	S.89° 58'E.,on a random line bet.secs,12 and 13.
40.00	Set temp.¼ sec.cor.
80.04	Intersect E.bdy.of Tp.,12 lks.S.of the cor.of secs. 7,12,13,and 18.,heretofore described.
	Thence I run
	S.89° 57'W.,on a true line bet.secs.12 and13.
	Over mountainous land;through dense undergrowth and scattering timber .
	Asc.
6.50	Head of hollow,60 ft.above cor.,course S.30°E.
	Asc.
21.50	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
27.50	Bottom of hollow,50 ft.below ridge,course S.30°W.
	Asc.
30.00	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
40.02	Set a limestone,18x12x8 ins.,12 ins.in the ground,for

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	¼ sec.cor..mkd.¼ on N.face;from which
	A yellow pine,24 ins.dia.,bears N.82° W.,257 lks.dist..mkd.¼ S 12 B T.
	A cedar ,10 ins.dia.,bears S.56° 20'W.,250 lks. dist..mkd.¼ S 13 B T.
43.00	Enter heavy timber,bears N.and S.
53.00	Leave heavy and enter scattering timber,bears N.and S.
53.30	Begin abrupt descent,bears N.20°E .and SW.
68.80	Spring branch ,2 lks.wide,3 ins.deep,in bottom of canon, 700 ft.below ridge,course S.30° W.
	Asc.
80.04	The cor.of secs.11,12,13,and 14,400 ft.above canon.
	Land,mountainous .
	Soil,gravelly clay;3rd rate.
	Timber,cedar,pinon pine,yellow pine,and red pine.
	Undergrowth, oak,maple,larb,service berry,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.04 chs.
	Exceptionally difficult to survey,80.04 chs.

	Knowing the cor.of secs.10,11,14 and 15,cannot be established on account of breaks of Zion Canon,I run West,on a true line bet.secs.11 and 14.
	Over mountainous land;through dense undergrowth and heavy timber .
	Asc.
4.00	Bottom of draw,10 ft.above cor.,course S.10° E.
	Asc.
6.50	Top of spur,50 ft.above draw,bears N.40° W.and S.40° E.
	Desc.
9.20	Begin rapid descent into canon,bears N.40° W.and S.40° E.
19.00	Bottom of canon,150 ft.below spur,course S.
	Asc.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
22.80	Begin abrupt ascent,bears N.and S.
35.00	Top of ridge,200 ft.above canon,bears N.and S.
	Desc.
40.00	Set a sandstone,18x10x8 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A yellow pine,18 ins.dia.,bears N.49° 50'E.,84 lks.dist..mkd.¼ S 11 B T.
	A yellow pine,36 ins.dia.,bears S.87° 45'E., 156 lks.dist..mkd. ¼ S 14 B T.
45.00	Bottom swale,25 ft.below ridge,course S.
	Asc.
55.00	Top of ridge,20 ft.above swale,bears N.and S.
	Desc.
65.25	East edge of breaks of Zion Canon,bears N.and S.
	It is impossible to continue the line farther on account of precipitious ledges;therefore at this point ,
	Set a sandstone,18x14x10 ins.,12 ins.in the ground,for witness cor.to cor.of secs.10,11,14,and 15,mkd.W C on NE face;with 4 notches on S.and 2 notches on E.edges; from which
	A pinon pine,10 ins.dia.,bears N.41° 35'E.,61 lks.dist.mkd. W C T 40 S R 10 W S 11 B T.
	A pinon pine,24 ins.dia.,bears S.25°E.,78 lks. dist.mkd. W C T 40 S R 10 W S 14 B T.
	A pinon pine,18 ins.dia.,bears S.12° 35'W.,67 lks.dist.,mkd. W C T 40 S R 10 W S 15 B T.
	A pinon pine,12 ins.dia.,bears N.59°W.,65 lks. dist..mkd. W C T 40 S R 10 W S 10 B T.
	Land,mountainous .
	Soil,gravelly ;3rd rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,sage brush,buck brush and service berry.
	Good grass for grazing.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	Mountainous or heavily timbered land,or land covered with dense undergrowth,65.25 chs.
	Exceptionally difficult to survey,65.25 chs.
	September 16,1908:At this cor.I set off 2°36'N.,on the decl.arc;and at 11h 55 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°21'N.,which is the proper lat.nearly.
	N.0°1'W.,bet.secs.11 and 12.
	Over mountainous land;through dense undergrowth and scattering timber.
	Desc.
11.60	Bottom of hollow,150 ft.below sec.cor.,course S.80°E.
	Asc.
20.40	Top of ridge,150 ft.above hollow,bears E.and W.
	Desc.
30.00	Bottom of hollow,100 ft.below ridge,course N.80°E.
	Asc.
31.70	Top of spur,30 ft.above hollow,bears E.and W.
	Desc.
34.40	Bottom of canon,100 ft.below spur,course S.30°E.
	Asc. abruptly.
40.00	Set a limestone,20x10x8 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
I	A cedar,20 ins.dia.,bears S.25°30'E.,48 lks. dist..mkd.¼ S 12 B T.
	A pinon pine14 ins.dia.,bears S.19°W.,38 lks. dist..mkd.¼ S 11 B T.
45.00	Top of abrupt ascent,bears N.30°W.and S.30°E.
	Asc. gradually.
51.00	Top of ridge,400 ft.above hollow,bears N.and S.20°E.
75.00	Leave top of ridge,bears N.5°W.and S.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	Thence along east side of ridge.
80.00	Set a limestone,18x9x8 ins.,12 ins.in the ground,for cor.of secs.1,2,11,and 12,mkd with 5 notches on S.and 1 notches on E.edges;from which
	A cedar,6 ins.dia.,bears N.71° E.,40 lks. dist..mkd.T 40 S R 10 W S 1 B T.
	A cedar,10 ins.dia.,bears S.20° E.,83 lks. dist..mkd.T 40 S R 10 W S 12 B T.
	A cedar,10 ins.dia.,bears S.31° 10'W.,77 lks. dist..mkd.T 40 S R 10 W S 11 B T.
	A pinon pine 12 ins.dia.,bears N.71° 10'W.,81 lks.dist..mkd.T 40 S R 10 W S 2 B T.
	Land,mountainous.
	Soil,gravelly and clay;3rd rate.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,oak,buck brush,service berry and sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	September 16,1908.
	September 17,1908:At 7 h 55 m a.m.,l.m.t.,I set off 37° 22'N.,on the lat.arc;2° 17'N.,on the decl.arc;and determine a meridian with the solar,at the cor of secs.1,2,11 ,and 12.
	Thence I run
	N.89° 57'E.,on a random line bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.
80.14	Intersect E.bdy.of Tp.,at the cor.of secs.1,6,7,and 12. heretofore described.

Subdivision of T.40 S.,R.10 -Continued.

Chains	
	Thence I run
	S.89° 57'W.,on a true line bet.secs.1 and 12.
	Over mountainous land;through dense undergrowth and scattering timber.
	Asc.
5.00	Top of divide ridge between North fork and Orderville Gulch,50 ft.above sec.cor.,bears NE and S.60° W.
	Desc.
8.20	Head of hollow,50 ft.below ridge,course N.
	Asc.
15.00	Same divide ridge,80 ft.above hollow,bears NW and SE.
	Desc.
22.50	Head of hollow,60 ft.below ridge,course S.
	Asc.
26.00	Same divide ridge,60 ft.above hollow,bears NE and SW.
	Desc.
32.30	Head of hollow,20 ft.below ridge,course N.
	Asc.
40.07	Set a limestone,12x8x6 ins.,8 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A yellow pine,18 insdia.,bears N.37° 30'E.,540 lks.dist..mkd.¼ S 1 B T.
	A cedar,7 ins.dia.,bears S.69° 30'W.,430 lks. dist..mkd.¼ S 12 B T.
40.80	Enter heavy timber,bears N.and S.
49.00	Top of same divide ridge,300 ft.above hollow,bears N.80° W.and S.80° E.
	Desc.
51.90	Leave timber,bears NW and SE.
54.30	Head of hollow,100 ft.below ridge,course S.30° W.
	Asc.
67.20	Top of spur,60 ft.above hollow,bears N.and S.
	Desc.

Subdivision of T.40 S.,R.10 W. Continued.

Chains	
71.00	Enter heavy timber,bears NW and SE.
73.20	Bottom of hollow,40 ft.below spur,course S
	Asc.
80.14	The cor.of secs.1,2,11,and 12.
	Land,mountainous.
	Soil,gravelly and clay;3rd rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,service berry,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.14 chs.
	Exceptionally difficult to survey,80.14 chs.
	September 17,1908:At this cor.I set off 2°12'N.,on the decl.arc;and at 11 h 55 m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 37°22'N.,which is the proper lat.nearly.
	——— —
	N.0°1'W ,on a random line bet.secs.1 and 2.
40.00	Set temp ¼ sec.cor.
87.15	Intersect N.bdy.of Tp.,21 lks.W.,of the cor.of secs. 1,2,35,and 36,which is a sandstone,6x10x9 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.w
	Thence I run
	S.0°8 'W.,on a true line bet.secs.1 and 2.
	Over mountainous land;through dense undergrowth and scattering timber .
	Asc.abruptly over ledges.
14.00	Top of ledges,300 ft.above sec.cor.,bears NW and SE.
	Asc.more gradually.
41.00	Top of ridge,100 ft.above top of ledge,bears N.3°W.and

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	S.15E.
	Desc.
47.15	Set a limestone,16xCx6 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A yellow pine,30 ins.dia.,bears N.19°10'E.,122 lks.dist..mkd.¼ S 1 B T.
	A yellow pine,24 ins.dia.,bears N.30°05'W.,166 lks.dist..mkd.¼ S 2 B T.
47.25	Head of hollow,50 ft.below ridge,course S.80°W.
	Asc.
49.15	Top of ridge,30 ft.above hollow,bears N.W and SE.
	Desc.
53.15	Bottom of hollow,40 ft.below ridge,course S.80°W.
	Asc.
78.15	Top of divide ridge between north fork and Orderville Gulch,bears E.and W.
	Desc.
81.65	Enter heavy timber,bears E.and W.
82.60	Top of gypsum ledge,15 ft.high,bears E.and W.
87.15	The cor.of secs.1,2,11,and 12.
	Land,mountainous.
	Soil,gravelly and clay;3rd rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,service berry,sage,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,87.15 chs.
	Exceptionally difficult to survey,87.15 chs.

Knowing the line bet.secs.10 and 11 cannot be run on account of breaks of Zion Canon I run West,on a true line bet.secs.2 and 11.

Over mountainous land;through heavy timber and dense

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	undergrowth.
	Asc. over gypsum ledges.
.70	Top of spur,20 ft.above cor.,bears N.and S.
	Desc.
3.60	Bottom of hollow,30 ft.below spur,course S.10° W.
	Asc.
6.10	Top of ridge,60 ft.above hollow,bears N.10° E.and S.10° W.
	Desc.
8.30	Leave gypsum ledges,bears NW and S.80° E.
13.90	Bottom of hollow,100 ft.below ridge,course S.10° E.
	Asc.
15.00	Top of ridge,50 ft.above hollow,bears N.20° E.and S.20° W.
	Desc.
23.00	Head of canon,100 ft.below ridge,course SW.
	Asc.
40.00	Set a limestone,18x8x6 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A yellow pine,26 ins.dia.,bears N.60° 40'E.,23 lkd dist..mkd.¼ S 2 B T.
	A yellow pine,14 ins.dia.,bears S.10° 10'E.,68 lks.dist..mkd.¼ S 11 B T.
42.00	Top of ridge,100 ft.above hollow,bears N.70° E.and S.70° W.
	Desc.
56.00	begin abrupt descent,bears N.and S.
71.20	Head of hollow,400 ft.below ridge,course NW .
	Asc.
75.00	Top of spur,40 ft.above hollow,bears N.and S.
	Desc.
80.00	Set a limestone,16x8x8 ins.,11 ins.in the ground,for cor.of secs.2,3,10,and 11.,mkd.with 5 notches on S.and 2 notches on E.edges;from which

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	A yellow pine,24 ins.dia.,bears N.57° E.,35 lks.dist..mkd.T 40 S R 10 W S 2 B T.
	A cedar,7 ins.dia.,bears S.9° E.,60 lks. dist..mkd.T 40 S R 10 W S 11 B T.
	A yellow pine,16 ins.dia.,bears S.36° 25'W.,45 lks.dist..mkd.T 40 S R 10 W S 10 B T.
	A cedar,14 ins.dia.,bears N.76° 55'W.,44 lks. dist..mkd.T 40 S R 10 W S 3 B T.
	Land,mountainous .
	Soil,gravelly and clay and rocky3rd and 4th rate.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,oak,buck brush,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	September 17,1908.

	September 18,1908:At 7 h 54 m a.m.,l.m.t.,I set off 37° 22'N.,on the lat.arc;1° 54'N.,on the decl.arc;and determine a meridian with the solar at the cor.of secs. 2,3,10,and 11.
	Thence I run
	N.0° 01'W.,on a random line bet.secs.2 and 3.
40.00	Set temp.¼ sec.cor.
87.28	Intersect N.bdy.of Tp.,41 lks.W.of cor of secs.2,3,34, and 35,which is a sandstone,6x10x6 ins.,above ground, frimly set,and mkd.and witnessed as described by the surveyor general.
	Thence I run

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	S.0°17'W.,on a true line bet.secs.2 and 3.
	Over mountainous land;through dense undergrowth and heavy timber.
	Desc. abruptly.
10.00	Bottom of canon,700 ft.below sec.cor.,course S.65°W.
	Asc.abruptly.
30.00	Begin more gradual ascent,bears N.65°E.and S.65°W.
47.28	Set a red sandstone,18x8x4 ins.;12 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,40 ins.dia. bears S.34°E.,68 dist..mkd.¼ S 2 B T.
	A pinon pine,8 ins.dia.,bears S.22°W.,73 lks dist..mkd.¼ S 3 B T.
70.25	Top of ridge,900 ft.above canon,bears E.and W.
	Desc.
87.15	Bottom of hollow,400 ft.below ridge,course S.80°W.
	Asc.
87.28	The cor.of secs.2,3,10,and 11.
	Land,mountainous .
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,service berry,maple,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,87.28 chs.
	Exceptionally difficult to survey ,87 .28 chs.
	September 18,1908:At the noon hour the sky is overcast and solar observations are impossible.

	S.0°1'E.,on a true line bet.secs.10 and 11.
	Over mountainous land;through scattering timber and dense undergrowth.

Subdivisi n of T.40 S.,R.10 W.-Continued.

Chains	
	Asc.
21.00	Top of ridge,300 ft.above cor.,bears E.and W.
	Desc.
35.50	Top of sandstone ledge,30 ft.high,bears E.and W.
40.00	Set a red sandstone,20x12x4 ins.,15 ins.in the ground, for.¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,30 ins.dia.,bears N.78°20'E.,52 lks. dist..mkd.¼ S 11 B T.
	A cedar,10 ins.dia.,bears S.77°W.,18 lks. dist..mkd.¼ S 10 B T.
	Note:I abandon this line at this point because of the breaks of Zion canon which begin 1.00 chs.south of this cor.
	Land,mountainous .
	Soil,gravelly and clay ;3rd rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,service berry,and larb.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 40.00 chs.
	Exceptionally difficult to survey,40.00 chs.

Knowing the cor.of secs.3,4,9 and 10 cannot be established on account of breaks of Zion Canon,I run West,on a true line bet.secs.3 and 10.

	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
.30	Bottom of hollow,15 ft.below cor.,course S.80°W.
	Asc.
20.83	East edge of breaks of Zion Canon,bears N.and S.
	It is impossible to continue line farther on account of precipitious ledges hundreds of feet high.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains

Set a sandstone,16x12x6 ins.,11 ins.in the ground,for witness cor.to ¼ sec.cor..mkd. W C ¼ on N.face;from which

A cedar,10 ins.dia.,bears S.60° 40'E.,36 lks. dist..mkd. W C ¼ S IOBB T.

A pinon pine,18 ins.dia.,bears N.30° 50'E.,62 lks.dist..mkd.W C ¼ S 3 B T.

Note:At 21.06 chs.on this line I erect a flag in a large pinon pine tree in the hope that I will be able to see it from the west side of Zion canon.

Land,mountainous .

Soil,gravelly;3rd rate.

Timber,cedar,pinon pine,and yellow pine.

Undergrowth,oak and service berry.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 20.83 chs.

Exceptionally difficult to survey,20.83 chs.

September 18,1908.

September 21,1908:At 7 h 53 m a.m.,l.m.t.,I set off 37° 17'N.,on the lat.arc;0° 44'N.,on the decl.arc;and determine a meridian with the solar at the Standard cor. of secs.32,and 33,heretofore described ,on S.bdy.of Tp., Thence I run

N.0° 3'W.,bet.secs.32 and 33.

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

Asc.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
9.00	Begin abrupt ascent over ledges,bears E.and W.
13.75	Leave ledge,bears E.and W.
20.50	Top of ridge,360 ft.above cor.,bears E.and W.
	Desc.
40.00	Set a limestone,14x12x12 ins.,9 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A yellow pine,40 ins.dia.,bears N.62° 25'E., 79 lks.dist..mkd.¼ S 33 B T.
	An oak,4 ins.dia.,bears S.25° 34'W.,42 lks. dist..mkd.¼ S 32 B T.
47.60	Bottom of canon,600 ft.below ridge,course S.70° E.,
	Asc.
66.00	Top of ridge,400 ft.above canon,bears E.and W.
	Desc.
80.00	Set a limestone,18x12x6 ins.,12 ins.in the ground,for cor.of secs.28,29,32,and 33,mkd.with 1 notch on S.,and 4 notches on E.edges;from which
	A yellow pine,48 ins.dia.,bears N.8° 30'E.,117 lks.dist..mkd. T 40 S R 10 W S 28 B T.
	A yellow pine,24 ins.dia.,bears S.41° 50'E.,27 lks.dist .mkd.T 40 S R 10 W S 33 B T.
	A yellow pine,12 ins.dia.,bears S.37° 35'W.,25 lks.dist..mkd.T 40 S R 10 W S 32 B T.
	A yellow pine,12 ins.dia.,bears N,21° W.,120 lks.dist..mkd.T 40 S R 10 W S 29 B T,
	Land,mountainous.
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,yellow pine.,pinon pine,and cedar.
	Undergrowth,larb,oak,service berry,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	The cor.of secs.27,28,33 and 34 was not set on account of breaks of Zion Canon,therefore I run East,on a true line bet.secs.28 and 33:
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
12.00	Bottom of canon,300 ft.below sec.cor.,course S.60° E.
	Asc.
22.80	Leave timber,bears NW and SE.
28.00	Top of ridge,600 ft.above canon,bears NW and SE.
	Desc.
40.00	Set a limestone,20x12x6 ins.,15 ins.in the ground,for sec.cor.,mkd.$\frac{1}{4}$ on N.face;from which.
	A cedar,19 ins.dia. bears N.39° E.,185 lks. dist..mkd.$\frac{1}{4}$ S 28 B T.
	A red cedar,18 ins.dia.,bears S.41° E.,235 lks.dist..mkd.$\frac{1}{4}$ S 33 B T.
42.40	West edge of Zion canon,bears NW and SE.
	It is impossible to continue this line farther on account of precipitious ledges.
	Set a limestone,12x10x5 ins.,8 ins.in the ground,for witness point,mkd.W P.on N.face;from which
	A pinon pine,16 ins.dia.,bears N.39° 25'W.,182 lks.dist..mkd. W P B T.
	A cedar,18 ins.dia.,bears S.24° 05'W.,198 lks. dist..mkd. W P B T.
	Land,mountainous.
	Soil,gravelly and rocky;3rd rand 4th rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,larb,service berry,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	42.40 chs.
	Exceptionally difficult to survey,42.40 chs.
	September 21,1908:At the noon hour the sky is overcast and solar observations are impossible.
	N.0°3'W.,bet.secs.28 and 29.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
7.70	Bottom of canon,150 ft.below sec.cor.,course S.60°E.
	Asc.
22.75	Top of ridge,600 ft.above canon,bears N.80°W.and S.60° E.
	Desc.
35.00	Bottom of hollow,200 ft.below ridge,course N.60°E.
	Asc.
40.00	Top of spur,30 ft.above hollow,bears E.and W.
	Set a limestone,16x12x6 ins.,11 ins.in the ground,for ¼ sec.cor.,mkd.¼ on W.face;from which
	A yellow pine,36 ins.dia.,bears N.50°E.,101 lks.dist..mkd.¼ S 28 B T.
	A yellow pine,24 ins.dia.,bears N.40°20'W.,114 lks.dist..mkd.¼ S 29 B T.
	Desc.
44.20	Bottom of hollow,70 ft.below ridge,course S.80°E.
	Asc.
64.50	Top of ridge,500 ft.above hollow,bears E.and W.
	Desc.abruptly.
76.82	West edge of Zion Canon,bears E.and W.,400 ft.below ridge.
	It is impossible to chain farther on this line therefore at this point ,

Subdivision of T.4O S.,R.1O W.-Continued.

Chains Set a limestone,18x1Ox6 ins.,12 ins.in the ground,for witness cor.to cor.of secs.2O,21,28,and 29,mkd.W C on NE face;with 2 notches on S.and 4 notches on E.edges; from which

A yellow pine,26 ins.dia.,bears N.0° 3O'E.,42 lks.dist..mkd.W C T 4O S R 1O W S 21 BT..

A yellow pine,3O ins.dia.,bears S.88°E.,71 lks.dist..mkd.W C T 4O S R 1O W S 28 B T.

A red pine,2O ins.dia.,bears S.32° 4O'W.,91 lks.dist..mkd.WC T 4O S R 1O W S 29 B T.

A red pine,18 ins.dia.,bears N.6O°W.,15 lks. dist..mkd. W C T 4O S R 1O W S.2O B T.

8O.OO Point for cor.of secs.2O,21,28,and 29 ,falls in ledges where it is impossible to chain.

Land,mountainous .

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

Timber,cedar,pinon pine,red pine,and cedar.

Undergrowth,oak,service berry,and buck brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 8O.OO chs.

Exceptionally difficult to survey,8O.OO chs.

September 21,1908.

September 22,1908.At 7 h 53 m a.m.,l.m.t.,I set off 37° 19'N.,on the lat.arc; 0° 21'N.,on the decl.arc;and determine a meridian with the solar,at the witness cor.to the cor.of secs.2O,21,28,and 29.(which is 3.18 chs.south of the point for cor.of secs.2O,21,28,and 29).

N.0° 03'W.bet.secs.2O and 21,

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	Note :The line north crosses the mouth of Potato Hollow, which is about 1000 ft.deep,with perpendicular walls . It is impossible to chain across this hollow;therefore I triangulate across as follows:
	I set a flag on line on north side of hollow and measure a base S.89°57'W.,27.00 chs.,from which the flag on north side of hollow bears N.34°07'E.;and from the flag on the north side of hollow the west end of base bears S.34°07'W.;I compute the distance across the hollow as follows:
	tan 55°50' x base or 1.4733 x 27.00 = 39.78 chs.
	39.78 - 3.18 makes
36.60	North edge of Potato Hollow,bears E.and W.
	This is merely a rocky point between Potato Hollow and the canon on north and as the ¼ sec.cor.point will fall in deep canon whereit will be impossible to chain , I set a witness cor.at this point as follows:
	Set a sandstone,16x12x6 ins.,11 ins.in the ground,for witness cor.to ¼ sec.cor.,mkd.W C ¼ on W.face;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	To determine the distance across the canon north of witness cor.I set a flag on line on north edge of canon, and measure a base S.89°57'W.,10.00 chs.,from which the flag on north side of canon bears N.22°42'E.,and from the flag on north side of canon the west end of base bears S.22°42'W.;I compute the distance across the canon as follows:
	Tan 67° 15' x base = 2.38473 x 10.00 chs.= 23.85
	36.60 +23.85 makes
60.45	North edge of canon,bears E.and W.
	Asc.over mountainous land;through dense undergrowth and scattering timber .
62.00	Top of ridge,100 ft.above edge of canon,bears E.and W.
	Desc.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
64.15	South edge of canon,75 ft.below ridge,bears E.and W. This canon is about 800 ft.deep,and very steep and ledgy so that it will be impossible to chain across or to get any nearer to the point for cor.of secs.16,17,20,and 21, than this point;therefore I set a witness cor.as follows: Set a sandstone,14x12x6 ins.,9 ins.in the ground,for witness cor.to cor.of secs.16,17,20,and 21,mkd.W C on NE face;with 3 notches on S.and 4 notches on E.edges;from which A pinon pine,24 ins.dia.,bears S.88° 30'E.,116 lks.dist..mkd. W C T 40 S R 10 W S 21 B T. A pinon pine,12 ins.dia.,bears N.48° 35'W.,137 lks.dist..mkd. W C T 40 S R 10 W S 17 B T. No other trees within limits;raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
80.00	Point for cor.of secs.16,17,20,and 21 falls in canon and is not set . Land,mountainous . Soil,gravelly and rocky;3rd and 4th rate. Timber,cedar and pinon pine. Undergrowth,larb and buck brush. Good grass for grazing. Mountainous land,or land covered with dense undergrowth, 80.00 chs. Exceptionally difficult to survey,80.00 chs.

From witness cor.15.85 chs.S.of point for cor.of secs16172 N.0° 3'W.,bet.secs.16 and 17.(

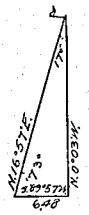
Over mountainous land,through dense undergrowth and scattering timber .

Note:It is impossible to chain north from the witness

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	cor.above mentioned and it is also impossible to get a suitable base for triangulation at this point ;therefore I set a flag at the witness cor.and proceed to the north edge of canon on line where I measure a base S.89° 57'W.
14.99	chs.from which point the flag on south side of canon bears S.20° 33'E.;I compute the distance across the canon as follows:
	tan 69° 30' x base or 2.67462 x 14.99 = 40.09 chs.
	40.09 - 15.85 makes
24.24	North edge of canom, bears NE and S.40° W.
	Set a red sandstone,24x10x10 ins.,18 ins.in the ground,for witness point,mkd.W P on W.face;from which
	A pinon pine,12 ins.dia.,bears N.72° E.,14 lks.dist.. mkd.W P B T.
	A pinon pine,18 ins.dia.,bears S.15° 50'W., 35 lks.dist.mkd. W P B T.
	Asc.through scattering timber and dense undergrowth.
35.40	Top of ridge,500 ft.above witness point,bears N.70° W. and S.70° E.
	Desc.abruptly.
40.00	Set a limestone,20x10x4 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,18 ins.dia.,bears S.34° E.,47 lks. dist..mkd.¼ S 16 B T.
	A pinon pine,10 ins.dia.,bears N.17° 40'W.,111 lks.dist..mkd. ¼ S 17 B T.
42.80	South edge of canon,bears NW and SE.
	On account of the perpendicular ledges leading into and out of this canon it is impossible to chain across; therefore at this point I ,
	Set a red sandstone,20x8x8 ins.,15 ins.in the ground, for witness point,mkd.W P on W.face;from which
	A red pine,14 ins.dia.,bears N.19° W.,31 lks. dist.,mkd. W P B T.

Subdivision of T.40 S.,R.10 W.-Continued.



Chains

A red pine,18 ins.dia.,bears S.80° 40'E.,18 lks.dist..mkd. W P B T.

In order to determine the distance across the canon I set a flag on line on north side of canon,and measure a base S.89° 57'W., 6.48 chs.,from which point the flag on north side of canon bears N.16° 57'E.,and from the flag on north side of canon the west end of the base bears S.16° 57'W.

I compute the distance across the canon as follows:

Tan 73° x base of 3.27085 x 6.48 = 21.20 chs.

42.80 + 21.20 makes

64.00 North edge of canon,bears NW and SE.

Asc.

80.00 Set a limestone,12x12x6 ins.,8 ins.in the ground,for cor.of secs.8,9,16,and 17,mkd.with 4 notches on S.,and E.edges;from which

A pinon pine,16 ins.dia.,bears N.18° 05'E.,72 lks. dist..mkd.T 40 S R 10 W S 9 B T.

A pinon pine,20 ins.dia.,bears S.60° 40'E.,45 lks.dist..mkd.T 40 S R 10 W S 16 B T.

A pinon pine,8 ins.dia.,bears S.40° 30'W.,54 lks. dist..mkd.T 40 S R 10 W S 17 B T.

A pinon pine 110 ins. dia.,bears N.62° 50 'W.,42 lks.dist .mkd.T 40 S R 10 W S 8 B T.

Land,mountainous .

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

Timber,cedar,pinon pine,and yellow pine.

Good grass for grazing.

Undergrowth,oak,larb,service berry,and buck brush.

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

Exceptionally difficult to survey,80.00 chs.

September 22,1908:At this cor.I set off 0 °16 'No,on the

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	decl.arc;and at 11 h 53 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat .is 37° 21'N.,which is the proper lat.nearly.
	N.0° 3'W.,bet.secs.8 and 9.
	Over mountainous land;through dense undergrowth and scattering timber .
	Asc.
2.50	Enter heavy timber,bears E.and W.
4.00	Top of ridge,80 ft.above cor.,bears N.70°W.and S.70° E.
	Desc.
5.00	Leave heavy and enter scattering timber,bears E.and W.
17.70	Bottom of hollow,150 ft.below ridge,course S.60° E.
	Asc.
23.80	Top of ridge,100 ft.above hollow,bears N.70° W.and S.70° E.
	Desc.abruptly.
23.90	South edge of canon.Impossible to chain or triangulate farther.
	Set a limestone,24x12x3 ins.,18 ins.in the ground,for witness cor.to ¼ sec.cor.,mkd.W C ¼ on W.face;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,gravelly;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,and larb.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,23.90 chs.
	Exceptionally difficult to survey,23.90 chs.

September 22,1908.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains

September 23,1908:At 7 h 52 m a.m.,l.m.t.,I set off 37° 17'N.,on the lat.arc;0° 03'S.,on the decl.arc;and determine a meridian with the solar at the Standard ¼ sec. cor.on S.bdy.sec.32,heretofore described .

Note:It was impossible to continue the standard west of this point ,so it will be impossible to run the line bet.secs.31 and 32 except by offsets ;therefore from this cor.I run

N.0° 3'W.,on offset line bet.secs.31 and 32.

Over mountainous land;through scattering timber and dense undergrowth.

Asc.

19.25 Top of ridge,200 ft.above standard ¼ sec.cor.,bears N.50° W.and S.30° E.

Desc.

22.50 Head of hollow,30 ft.below ridge,course S.55 ° E.

Asc.

25.00 Top of ridge,50 ft.above hollow,bears N.70° W.and S.70° E.

Desc.

40.00 West 31.60 chs.to East edge of canon,to a point 8.40 chs.east of the point for ¼ sec.cor.

Ridge at 21.00 chs.bears NW. and SE.

Set a sandstone,20x14x5 ins.,15 ins.in the ground,for witness cor.to ¼ sec.cor.,mkd.W C ¼ on W.face;from which

A cedar,5 ins.dia.,bears S.59° E.,7 lks. dist..mkd. W C ¼ S 32 B T.

A pinon pine,15 ins.dia.,bears S.61° W.,14 lks.dist..mkd. W C ¼ S 31 B T.

From this witness cor.I run

N.0° 3'W.,on off set line

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	Over mountainous land,through dense undergrowth and heavy timber .
	Asc.
57.00	Top of ridge,300 ft.above witness cor.,bears N.and S.35° E.
	Thence ascend along top of ridge.
80.00	Offset west 8.40 chs. to point for cor.of secs.29,30,31, and 32,which is 80.00 chs. north of the Standard Parallel.
	Set a sandstone,18x8x8 ins.12 ins.in the ground,for cor.of secs.29,30,31,and 32,mkd.with 1 notch on S.and 5 notches on E.edges;from which
	A cedar,28 ins.dia.,bears N.25° E.,8 lks. dist..mkd.T 40 S R 10 W S 29 B T.
	A pinon pine,5 ins.dia.,bears S.11° E.,24 lks. dist..mkd.T 40 S R 10 W S 32 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor .
	Land,mountainous .
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar ,pinon pine,red pine,and yellow pine.
	Undergrowth,oak,service berry,larb,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.

	East,on a random line bet.secs.29 and 32.
40.00	Set temp.¼ sec.cor.
79.76	Intersect N.and S.line,21 lks.N.of the cor.of secs. 28,29,32,and 33.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	Thence I run
	N.89° 51'W.,on a true line bet.secs.29 and 32.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
2.60	Top of ridge,20 ft.above cor.,bears N.and S.
	Desc.
7.70	Bottom of hollow,40 ft.below ridge,course N.
	Asc.
19.00	A spring bears N.about 2.00 chs.dist.
39.88	Set a limestone,18x10x6 ins.,12 ins.in the ground,for ¼ sec.cor..,mkd. ¼ on N.face;from which
	A yellow pine,36 ins.dia.,bears N.8° 5'W.,147 lks.dist..mkd.¼ S 29 B T.
	A yellow pine,48 ins.dia.,bears S.37° 20'E.,275 lks.dist..mkd.¼ S 32 B T.
46.20	Top of spur,100 ft.above hollow ,bears NE and SW.
	Desc.
51.50	Bottom of hollow,20 ft.below spur,course NE
	Asc.
71.70	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.over ledges.
79.76	The cor.of secs.29,30,31,and 32.
	Land,mountainous .
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,service berry,buck brush,oak ,and larb.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 79.76 chs.
	Exceptionally difficult to survey,79.76 chs.
	September 23,1908:At this cor.I set off 0° 7 'S.,on the decl.arc;and at 11 h 52 m a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 37° 18'N.,which is

Subdivision of T.40 S.,R.10 W.-Continued.

Chains the proper lat.nearly.

N.0° 3'W.,bet.secs.29 and 30 .

Over mountainous land;through dense undergrowth and heavy timber .

Asc.over ledges.

10.50 Leave ledges,bears NW and SE.

Continue ascent along west slope of ridge.

29.75 Top of spur,150 ft.above sec.cor.,bears NW and SE.

Desc.

33.41 Edge of breaks of canon,bears E.and W.

Impossible to chain across canon.

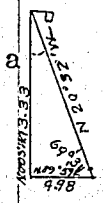
Set a white sandstone,20x13x8 ins.,15 ins.in the ground, for witness cor.to ¼ sec.cor.,mkd. W C ¼ on W.face;from which

A red pine,30 ins.dia.,bears S.7° W.,32 lks. dist..mkd. W C ¼ S 30 B T.

A yellow pine,40 ins.dia.,bears N.9° 40'E.,40 lks.dist..mkd. W C ¼ S 29 B T.

To determine the distance across the canon I proceed as follows:

I set a flag on line on north side of canon and measure a base N.89° 57'E.,4.98 chs., to a point from which the flag on North side of canon,bears N.20° 32'W.,and from the flag on north side of canon,the east end of base bears S.20° 32'E.;I compute the distance across the canon as follows:



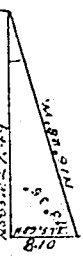
Tan 69° 31' x base or 2.677000 x 4.98 = 13.33 chs.

33.41 + 13.33 makes

46.74 North edge of canon,bears E.and W.

Asc.

Subdivision of T.40 S.,R.10 W.-Continued.



Chains	
54.00	Top of spur,100 ft.above edge of canon,bears E.and W. Desc.
58.00	South edge of breaks of canon which is impassable on account of perpendicular ledges.
	To determine the distance across the canon I set a flag on line on north edge of canon,and measure a base N.89° 57'E.; 8.10 chs.,to a point from which the flag on north side of canon bears N.16° 28'W.,and from the flag on north side of canon the east end of base bears S.16° 28'E.;I compute the distance across as follows:
	Tan 73° 35' x base or 3.39406 x 8.10 = 27.49 chs.
	58.00 +27.49 = 85.49 chs.
	Therefore I chain South 5.49 chs. making the distance from cor.of secs.29,30,31,and 32,
80.00	Point for cor.falls on stationary boulder,10x8x7 ft. above ground,on which I cut a cross (x) at the exact point for cor.of secs.19,20,29,and 30,mkd.with 2 grooves on S.,and 5 grooves on E.side of cross:from which
	A pinon pine,10 ins.dia.,bears N.12° E.,120 lks. dist..mkd.T 40 S R 10 W S 20 B T.
	A pinon pine,7 ins.dia.,bears S.88° E.,30 lks. dist.,mkd. T 40 S R 10 W S 29 B T.
	A pinon pine,8 ins.dia.,bears S.2° W.,80 lks. dist..mkd.T 40 S R 10 W S 30 B T.
	A pinon pine,10 ins.dia.,bears N.3° W.,115 lks.dist..mkd.T 40 S R 10 W S 19 B T.
	Land,mountainous .
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar ,pinon pine,red pine,and yellow pine.
	Undergrowth,oak,service berry,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	Exceptionally difficult to survey,80.00 chs.
	S.89° 51'E.,on a random line bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
73.94	Edge of impassable canon.Set temp.witness cor.;then offset as follows:
	South,3.18 chs.;then,on offset line:
	S.89° 51'E.,5.90 chs. making total distance
79.84	Intersect N.and S.line,7 lks.S.of the witness cor.to cor.of secs.20,21,28,and 29.
	Thence I run
	On offset line
	N.89° 54'W.,on offset line bet.secs.20 and 29.
	Over mountainous land;through dense undergrowth and scattering timber .
	Asc.
5.90	Offset north 3.18 chs. to true line.
	Set a sandstone,12x12x5 ins.,8 ins.in the ground,for witness cor.to cor.of secs.20,21,28,and 29,mkd.W C on NE face;with 2 notches on S.and 4 notches on E.edges; from which
	A spruce,20 ins.dia.,bears N.56°E., 78 lks. dist..mkd. W C T 40 S R 10 W S 21 B T.
	A yellow pine,24 ins.dia.,bears S.29° 30'E.,90 lks.dist..mkd. W C T 40 S R 10 W S 28 B T.
	A yellow pine,30 ins.dia.,bears S.83°W.,27 lks. dist..mkd W C T 40 S R 10 W S 29 B T.
	A yellow pine,25 ins.dia.,bears N.9°W.,87 lks. dist..mkd. W C T 40 S R 10 W S 20 B T.
	Edge of canon,bears NW and SE.
	Asc.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
25.50	Top of ridge,500 ft.above witness cor.,bears N.20° E. and S.20° W.
	Desc.
35.70	Bottom of hollow,200 ft.below ridge,course N.
	Asc.
39.92	Set a limestone,18x10x8 ins.,12 ins.in the ground,for ¼ sec.cor..mmkd. ¼ on N.face;from which
	A yellow pine,36 ins.dia.,bears N.48° 20'E.,123 lks.dist..mkd.¼ S 20 B T.
	A yellow pine,35 ins.dia.,bears S.72° 25'E.,175 lks.dist..mkd.¼ S 29 B T.
45.10	Top of spur,300 ft.above hollow,bears N.and S.
	Desc.
60.00	Bottom of hollow,200 ft.below ridge,course NE .
	Asc.
73.50	Top of ridge,400 ft.above hollow,bears N.and S.
	Desc.
75.20	Begin abrupt descent over perpendicular ledges,bears N.and S.
79.84	The cor.of secs.19,20,29,and 30.
	Land,mountainous.
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar,pinon pine,red pine,and yellow pine.
	Undergrowth,oak,service berry,larb,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 79.84 chs.
	Exceptionally difficult to survey,79.84 chs.

September 23,1908.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains	
	September 24,1908:At 7 h. 52 m a.m.,l.m.t.,I set off 3° 19'N.,on the lat.arc;0° 26'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs. 19,20,29,and 30.
	Thence I run
	N.0° 3'W.,bet.secs.19 and 20.
	Over mountainous land;through dense undergrowth and scattering timber ;
	Asc.over nearly perpendicular ledges.
3.00	Leave ledges,bears E.and W.
	Continue ascent .
17.20	Top of ridge,300 ft.above cor.,bears E.and W.
	Desc.
40.00	Set a sandstone,16x8x4 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A yellow pine,36 ins.dia.,bears N.44° 40'E.,170 lks.dist..mkd.¼ S 20 B T.
	A yellow pine,40 ins.dia.,bears N.70° 50'W.,336 lks.dist..mkd.¼ S 19 B T.
50.00	Bottom of canon,200 ft below ridge,course N.70° E.
	Asc.
60.30	Top of spur,100 ft.above canon,bears E.and W.
	From.this point the north west corner of J.W.Imlay's cabin bears S.61° 55'E.,
	A spring bears S.71° E.
	Desc.
69.00	Road to Potato Hollow,bears N.60° W.and S.40° E.
70.20	Bottom of Potato Hollow,100 ft.below spur,course S.60° E.
	Asc.
74.00	Begin abrupt ascent,bears E.and W.
80.00	Set a sandstone,18x9x7 ins.,12 ins.in the ground,for cor.of secs.17,18,19,and 20,mkd.with 3 notches on S.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains and 5 notches on E edges;from which

A pinon pine,8 ins.dia.,bears S.86°10'W.,58 lks.dist..mkd.T 40 S R 10 W S 19 B T.

A cedar, 6 ins.dia.,bearsN.60°W.,118 lks. dist..mkd.T 40 S R 10 W S 18,B T.

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

Land,mountainous.

Soil,gravelly loam and rocky;2nd and 4th rate.

Timber,cedar,pinon pine,red pine,and yellow pine.

Undergrowth,oak,service berry,larb,and buck brush.

Good grass for grazing.

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

Exceptionally difficult to survey,80.00 chs.

From this cor.J.W.Imlay's house bears S.30°E.

The spring bears S.30°40'E.

S.89°54'E.,on a random line bet.secs. 17 and 20.

40.00 Set temp.¼ sec.cor.

71.34 To edge of impassable canon.Set temp.witness cor.

In order to pass canon I offset as follows:

South 15.85 chs.;then, on offset line S.89°54'E., 8.60 chs. making total length of mile

79.94 Intersect N.and S.line,14 lks.S.of the witness cor.to the cor.of secs.16,17,20,and 21.

Thence I run

West,on offset line(bet.secs.17 and 20)

8.60 Offset north 15.85 chs.,to true line.

Subdivision of T. 40 S., R. 10 W.-Continued.

Chains	
	Set a limestone 18 x 10 x 12 ins., 12 ins. in the ground, for witness cor. to cor. of secs. 16, 17, 20, and 21, mkd. W C on NE. face; with 3 notches on S. and 4 notches on E. edges; from which
	A pinon pine, 8 ins. dia., bears N. 31° E. 52 lks. dist., mkd. W C T 40 S R 10 W S 16 B T
	A pinon pine, 12 ins. dia. bears S. 25° E. 50 lks. dist., mkd. W C T 40 S R 10 W S 21 B T
	A pinon pine 12 ins. dia, bears S. 29° 30' W. 63 lks. dist., mkd. W C T 40 S R 10 W S 20 B T
	A pinon pine, 18 ins. dia. bears N. 44° 40' W. 34 lks. dist., mkd. W C T 40 S R 10 W S 17 B T
	Edge of canon, bears NW. and SE.
	Asc. over mountainous land; through dense undergrowth and scattering timber.
17.00	Begin more gradual ascent, bears NE. and SW.
25.00	Top of ridge, 530 ft. above witness cor., bears NW. and SE. Desc.
34.00	Begin abrupt descent, bears NW. and SE.
38.00	Bottom of hollow, 300 ft. below ridge, course S. Asc.
39.87	Set a sandstone 16 x 8 x 4 ins., 11 ins. in the ground, for ¼ sec. cor., mkd. ¼ on N. face; from which
	A yellow pine, 15 ins. dia., bears N. 33° 40' W. 438 lks. dist., mkd. ¼ S 17 B T
	A cedar 20 ins. dia. bears S. 31° E. 87 lks. dist., mkd. ¼ S 20 B T
47.00	Top of perpendicular sandstone ledge, 100 ft. high, bears S. 10° E. Asc. gradually.
48.75	Top of ridge, 30 ft. above top of ledge, bears N. 10° W. and S. 10° E. Desc.
51.50	Top of sandstone ledge, 100 ft. high, bears N. 10° W. and S. 10° E. Desc.
58.30	Bottom of canon, 200 ft. below ridge, course S. Asc.
70.00	Top of spur, 150 ft. above canon, bears N. and S. [illegible]

Subdivision of T. 40 S., R. 10 W.- Continued.

Chains.	Desc.
79.94	The cor. of secs. 17, 18, 19, and 20.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, cedar, pinon pine, and yellow pine.
	Undergrowth, oak, larb, serviceberry, and buck brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense underg growth 79.94 chs.
	Exceptionally difficult to survey 79.94 chs.
	Sept. 24, 1908: At this cor. I set off 0° 31' S. on the decl. arc; and at 11 h. 52 m. a.m.l.m.t., I observe the sun on the meridian; the resulting lat. is 37° 20' N. which is the proper lat. nearly.
	Aug. 3, 1911: At 7 h. 6 m. a.m.l.m.t. I set off 37° 20' N. on the lat. arc; 17° 44' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19, and 20. Thence I run
	West, on true line bet. secs. 18 and 19,
	Descend over mountainous land; through scattering timber and dense undergrowth.
15.00	Road to Potato Hollow, bears N. 50° W. and S. 50° E. Bottom of hollow, 100 ft. below sec. cor., course S. 50° E.
	Ascend.
35.00	Top of spur, 100 ft. above hollow, bears N. 15° W. and S. 15° E. Desc.
40.00	Set a sandstone 16 x 12 x 5 ins., 11 ins. in the ground for ¼ sec. cor., mkd. ¼ on N. face; from which
	A pinon pine, 40 ins. dia. bears N. 12° 30' E. 25 lks. dist., mkd. ¼ S 18 B T
	A pinon pine, 12 ins. dia. bears S. 30° W. 45 lks. dist., mkd. ¼ S 19 B T

Subdivision Tp.40 S.. R. 10 W.- Continued.

Chains.	
40.20	Bottom of hollow, 40 ft.below spur,course SE. Asc.
54.10	Top of spur, 60 ft.above hollow, bears N. and S.Desc.
59.50	Bottom of swale, 20 ft.below spur, course S.Asc.
62.00	Top of spur, 40 ft.above hollow.bears N. and S. Desc.
72.90	Top of perpendicular ledges bear NW. and S.
	It is impossible to chain farther, therefore at this point I
	Set a sandstone 20 x 14 x 12 ins., 15 ins.in the ground for witness cor.of secs.13,18,19, and 24, mkd.W C on NE.face, with 3 notches on N. and S.edges; from which
	A pinon pine, 8 ins.dia., bears N.40° 45'W.45 lks. dist., mkd.W C T 40 S R 10 W S 13 B T
	A pinon pine 9 ins.dia.bears S.22° 30'W. 13 lks. dist., mkd.W C T 40 S R 10 W S 24 B T
	Land, mountainous.
	Soil, gravelly loam and rocky; 2d and 4th rates.
	Timber, cedar and pinon pine.
	Undergrowth, oak, serviceberry, larb, and sagebrush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 72.90 chs.
	Exceptionally difficult to survey 72.90 chs.
	August 3, 1911: At this cor.I set off 17° 40'N.on the decl.arc; and at 12 h. 0 m.p.m.l.m.t., observe the sun on the meridian; the resulting lat.is 37° 20'N. which is the proper latitude nearly.
	N.0° 3'W.bet.secs.17 and 18.
	Over mountainous land; through scattering timber and dense undergrowth. Asc.
12.00	Top of ridge, 200 ft.above sec.cor., bears E. and W. Desc.

Subdivision Tp.40 S., R. 10 W.- Continued.

Chains.	
24.30	Bottom of swale 40 ft.below ridge, course E. Asc.
33.50	Top of spur, 50 ft.above swale, bears E. and W. Desc.
40.00	Set a limestone 16 x 8 x 6 ins., 11 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; from which
	A yellow pine, 30 ins.diam.bears N.3° 10'E.659 lks. dist., mkd.¼ S 17 B T
	A yellow pine, 36 ins.dia.bears N.8° 15'W. 464 lks. dist., mkd.¼ S 18 B T
48.00	Bottom of hollow, 100 ft.below spur, course NE. Asc.
49.20	Top of spur, 70 ft.above hollow, bears NE. and SW.Desc.
62.00	Bottom of hollow, 50 ft.below spur, course E. Asc.
67.00	Top of ridge, 60 ft.above hollow, bears E. and W.Desc.
80.00	Set a limestone 20 x 8 x 4 ins., 15 ins.in the ground, for cor.of secs.7,8, 17, and 18, mkd.with 4 notches on S.and 5 notches on E.edges; from which
	A yellow pine 8 ins.dia.bears S.39° 30'E. 81 lks. dist., mkd.T 40 S R 10 W S 17 B T
	An oak 4 ins.dia.bears S.54° 15'W. 130 lks.dist., mkd.T 40 S R 10 W S 18 B T
	A yellow pine 40 ins.dia.bears N.11° 45'W. 391 lks. dist., mkd.T 40 S R 10 W S 7 B T
	No other trees within limits; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Land, mountainous.
	Soil, gravelly loam and rocky; 2d and 4th rate.
	Timber, cedar, pinon pine, and yellow pine.
	Undergrowth, oak, serviceberry, larb, cactus, and buck brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 80.00 chs.
	Exceptionally difficult to survey 80.00 chs.
	August 3, 1911.

Subdivision Tp.40 S., R. 10 W.- Continued.

Chains	
	Aug.5, 1911: At 7 h. 6 m.a.m.l.m.t.I set off 37° 21'N. on the lat.arc; 17° 13'N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.7, 8.17, and 18. Thence I run
	East on a random line bet.secs.8 and 17,
40.00	Set temp.¼ sec.cor.
79.88	Fall 11 lks.S.of the cor.of secs.8.9.16, and 17.
	Thence I run
	S.89° 55'W.on a true line bet.secs.8 and 17,
	Over mountainous land; through dense undergrowth and scattering timber.
	Desc.
20.00	Descend abruptly over ledges into canon, bears NW. and SE.
	Asc.
29.00	Bottom of rocky canon, 400 ft.below sec.cor., course SE.
	Asc.abruptly over ledges.
38.60	Top of ledges on the west side of canon, 500 ft.above canon, bears NW. and SE.
	This is only a rocky point projecting into the canon, and the line descends directly into a side hollow.
39.94	Set a sandstone 20 x 10 x 6 ins., 15 ins.in the ground. for ¼ sec.cor., mkd.¼ on N.face; from which
	A yellow pine, 30 ins.dia., bears N.34° 30'E. 164 lks.dist., mkd.¼ S 8 B T
	A yellow pine 30 ins.dia., bears S.76° 30'W. 435 lks.dist., mkd.¼ S 17 B T
40.60	Bottom of hollow, 50 ft.below point course N.
	Ascend.
50.00	Top of ridge, 60 ft.above hollow, bears NW. and SE.
	Desc.
55.00	Bottom of hollow, 60 ft.below ridge, course S.
	Asc.
60.00	Top of ridge, 80 ft.above hollow, bears N. and S.
	Desc.

Subdivision Tp.40 S., R. 10.W.- Continued.

Chains.	
69.20	Bottom of hollow, 100 ft.below spur, course S.60° E.
	Asc.
79.88	The cor.of secs.7,8, 17, and 18, 250 ft.above hollow.
	Land, mountainous.
	Soil, gravelly loam and rocky ;2d and 4th rates.
	Timber, cedar, pinon pine, and yellow pine.
	Undergrowth, oak, serviceberry larb, and buck brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 79.88 chs.
	Exceptionally difficult to survey 79.88 chs.
	West on a random line bet.secs.7 and 18,
40.00	Set temp.$\frac{1}{4}$ sec.cor.
52.80	To edge of impassable canon.
	Set temp.witness point.
	Then I offset as follows:
	South 27.40 chs.; then on offset line
	West 27.30 chs., making from sec.cor.
80.10	Intersect the W.bdy.of Tp.9 lks.north of the witness point, which is 27.40 chs.south of the true point for cor.of secs.7,12,13, and 18.
	Thence I run
	N.89° 56'E.on a true line bet.secs.7 and 18,
	Over mountainous land; through dense undergrowth and scattering timber.
	Asc.
27.30	Offset north 27.40 chs.to the true line,
	Set a limestone 16 x 10 x 5 ins., 11 ins.in the ground, for witness point, mkd.W P on N.face; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
	Thence on true line N.89° 56'E.

Subdivision Tp. 40 S., R. 10 W.- Continued.

Chains.	
	Ascend
28.00	Top of ridge, 50 ft.above witness point bears N. and S.
	Desc.
28.75	Road to Potato Hollow, bears N. and S.
40.10	Set a limestone 14 x 10 x 4 ins.. 9 ins.in the ground, for ¼ sec.cor.. mkd.¼ on N.face; from which
	An oak 4 ins.dia.bears N.14° 45'W. 25 lks.dist.. mkd.¼ S 7 B T
	An oak 4 ins.dia.bears S.45° 00'W. 8 lks.dist. mkd.¼ S 18 B T
51.50	Bottom of hollow, 200 ft.below ridge, course S.30° E.
	Asc.
66.60	Top of ridge, 100 ft.above hollow, bears N. and S.
	Desc.
80.10	The cor.of secs.7,8,17, and 18.
	Land, mountainous.
	Soil, rocky and gravelly; 3d and 4th rates.
	Timber, cedar and pinon pine.
	Undergrowth, oak, sage, serviceberry and buck brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 80.10 chs.
	Exceptionally difficult to survey 80.10 chs.
	Aug.5, 1911: At this cor.I set off 17° 08'N.on decl.arc; and at 12 h. 06 m.p.m.l.m.t.I observe the sun on the meridian; the resulting lat.is 37° 21', which is the proper lat..nearly.

N.0° 3'W.bet.secs.7 and 8,

Over mountainous land; through dense undergrowth and scattering timber.

Descend.

Subdivision Tp.40 S., R. 10 W.- Continued.

Chains.	
12.50	Bottom of canon. 150 ft.below sec.cor.course SE.
	Ascend.
26.00	Top of ridge, 150 ft.above hollow, bears E. and W.
	Desc.
34.00	Head of hollow, 60 ft.below ridge, course W.
	Ascend.
40.00	Set a limestone 12 x 10 x 6 ins., 8 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; from which
	A yellow pine. 8 ins.dia.bears N.21° 15'W.250 lks. dist., mkd.¼ S 7 B T
	A pinon pine, 12 ins.dia.bears N.76° 30'E. 21¾ lks. dist., mkd.¼ S 8 B T
43.20	Top of ridge, 150 ft.above hollow, bears N.80° W. and SE.
	Desc.
70.50	Edge of breaks of Zion Canon, 350 ft.below ridge, bears E. and W.
	It is impossible to chain farther on this line.
	Set a limestone 12 x 10 x 6 ins., 8 ins.in the ground, for witness cor.to cor.of secs.5.6.7, and 8, mkd.W C on NE.face; with 5 notches on S. and E.edges; from which
	A red pine 14 ins.dia.bears N.11° 00'E. 38 lks. dist., mkd.W C T 40 S R 10 W S 5 B T
	A yellow pine 20 ins.dia.bears S.26° 15'E. 172 lks. dist., mkd.W C T 40 S R 10 W S 8 B T
	A yellow pine 18 ins.dia.bears S.71° 00'W. 116 lks dist., mkd.W C T 40 S R 10 W S 7 B T
	A yellow pine 8 ins.dia.bears N.89° 30'W. 100 lks. dist., mkd.W C T 40 S R 10 W S 6 B T
80.00	Point for cor.of secs.5,6,7 and 8 falls in breaks of Zion Canon; corner not set.
	Land, mountainous.

Subdivision Tp.40.S., R.10 W.- Continued.

Chains.

Soil, gravelly and rocky; 3d and 4th rate.

Timber, cedar and pinon pine.

Undergrowth, oak, serviceberry, and buck brush.

Good grass for grazing.

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

Exceptionally difficult to survey 80.00 chs.

August 5, 1911.

August 6: At 7 h. 6 m.a.m.l.m.t. I set off 37° 22'N.on lat.arc; 16° 56'N.on decl.arc; and determine a meridian with the solar at the witness corner to secs.5,6,7 and 8.

Thence I run

S.89° 56'W.on random offset line bet.secs.6 and 7 from witness cor.to cor.of secs.5.6.7, and 8, which is 9.50 chs.south of the point for the cor.of secs.5.6, 7, and 8.

5.16 chs.; thence

North 9.50 chs.to point on random line.

Set a temp.witness cor.

Thence on random line S.89° 56'W.

40.00 Set temp.¼ sec.cor.

79.98 Intersect W.bdy.of Tp.11 lks.S.of the cor.of secs.1,6, 7, and 12, heretofore described.

Thence I run

S.89° 59'E.on a true line bet.secs.6 and 7, Over mountainous land; through dense undergrowth and

Subdivisions Tp.40.S., R. 10 W.- Continued.

Chains.	
	scattering timber.
	Descend.
10.50	Bottom of hollow, 100 ft.below cor., course N.
	Ascend.
14.60	Top of ridge, 75 ft.above hollow, bears N. and S.
	Desc.
17.20	Bottom of hollow, 60 ft.below ridge, course N.
	Asc.
19.35	Top of spur, 50 ft.above hollow, bears N. and S.
	Desc.
21.20	Bottom of hollow, 50 ft.below spur, course N. Asc.
25.15	Top of spur, 80 ft.above hollow, bears N. and S. Desc.
39.10	Bottom of hollow, 150 ft.below spur, course SE.
	Asc.
39.98	Set a limestone 15 x 10 x 8 ins., 10 ins.in the ground, for ¼ sec.cor., mkd.¼ on N.face; from which
	A yellow pine 30 ins.dia.bears N.16° 30'W. 114 lks. dist., mkd.¼ S 6 B T
	A yellow pine 14 ins.dia.bears S.71° 45'W. 158 lks.dist., mkd.¼ S 7 B T
48.15	Top of ridge, 300 ft.above hollow, bears N. and S.
	Desc.
74.82	Edge of breaks of Zion Canon, 500 ft.below ridge, bears NW. and SE.
	Set a sandstone 24 x 10 x 6 ins., 18 ins.in the ground, for witness cor.to cor.of secs.5,6,7, and 8 mkd.W C on NE.face; with 5 notches on S. and E.edges; from which
	A yellow pine 36 ins.dia.bears N.25° W. 236 lks. dist., mkd.W C T 40 S R 10 W S 6 B T
	No other trees within limits; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Thence offset south 9.50 chs.; then on offset line

Subdivision of T. 40 S., R. 10 W.- Continued.

Chains.	
	S.89° 59'E. 5.16 chs., making
79.98	The witness cor.to the cor.of secs.5.6.7, and 8.
	Land, mountainous.
	Soil, gravelly and rocky; 3rd and 4th rates.
	Timber, cedar, pinon pine, and yellow pine.
	Undergrowth, oak, serviceberry, larb, and buck brush.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 79.98 chs.
	Exceptionally difficult to survey 79.98 chs.
	August 6, 1911.

GENERAL DESCRIPTION.

This township is all mountainous land. The ridges are generally steep and rugged.

Traversing from north to south through the middle of the township is Zion Canon, with its tributaries.This canon, in general,has smooth perpendicular sandstone walls, ranging in height from 800 ft.to 2000 ft. It is impossible for man to get down at any point on either side within the limits of the township, or from seven miles to the north or twenty-five miles to the southeast of its limits, with one exception. There is a trail constructed at great expense and labor which heads on the east side of the canon about 60.00 chs.south of the Eighth Standard Parallel South, and leads to the bottom one half mile below. This trail is used by lumbermen and stock raisers, but is so dangerous, that only unburdened animals are permitted to travel it. Parallel with the canon, and in the middle is a long ridge which cuts off all view from one side to the other. It also divides

the canon into two canons, each apparently as important as the other.

The creek in the bottom of this canon is known as the North Fork of the Rio Virgin. It is about 40 lks. wide, 18 ins.deep, rapid current,rocky bottom, clear cold water. In the bottom of the canon is a dense undergrowth of willows and wild grape vines. In the bottom of this canon the climate is tropical, while the country immediately adjoining has a regular mountain climate.

From a point about one and one half miles south of the Eighth Standard Parallel South, a view can be had of this canon, surpassed in grandeur only by a similar one of the Grand Canon of the Colorado. At intervals along the west side of the canon streams of various sizes rush over the edge of the chasm forming waterfalls from 800 to 2000 ft.high. The creek in the bottom of the canon appears as a silver ribbon winding its way among the undergrowth and occasionally disappearing from view. In my opinion this canon should be set apart by the Government as a National Park.

The soil of this township is generally gravelly and rocky; 3rd and 4th rates; but supports an excellent growth of grasses especially good on the west side of the canon.

The timber in this township is mostly pinon pine, yellow and red pine, and cedar; but is mostly scattering.

The undergrowth is oak, larb,serviceberry, buck brush, bitter brush, willows, wild grape vines, and some cactus.

Subdivision of T.40 S.,R.10 W.-Continued.

Chains

The township is not very well watered on the east side, only one small stream 3 lks.wide was found.But on the west side of the canon several small springs furnish sufficient water for stock watering purposes.These springs during extremely dry seasons have been known to go dry.

J.W.Imlay's claim in sec.20,consists of a small cabin and a potato patch consisting of about 2 acres. Value of improvements about $100.00 .

This township is of sedimentary origin of probably preCretaceous age . There are no minerals in the township.

Note:In relation to triangulations in T.40 S.R.10 W.,in every case where the vertex of triangle is less than 30° it is because a longer base was impossible on account of the roughness of the country.

[illegible]

Leo A. Snow
U.S.Deputy Surveyor .

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Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of .....

.....

showing the respective capacities in which they acted:

For list of names and final oath of assistants for 1908 see ....., *Chainman.*

book "U" T. 40 S., R. 104 W. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, 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 .....

.....

.....

.....

..... 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; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....

United States Deputy Surveyor

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

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 190

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

.....

.....

.....

.....

.....

.....

executed by ..... under his contract No. ....., dated ....., 190 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....

United States Surveyor General

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

.....

United States Surveyor General

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Leo A. Snow, 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 Tp40 S.,R.10 W. S.L.B.& M.,Utah, showing the respective capacities in which they acted:

John H. Cottam, *Chainman.*
Eldon Snow, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Chester Snow, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Tp.40 S.,R.10 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

John H. Cottam, *Chainman.*
Eldon Snow, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Chester Snow, *Flagman.*

Subscribed and sworn to before me this 6th day of August 1911. 190

SEAL

Leo A. Snow
U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 14th day of May 1908~~XX~~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 Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

Subdivisions of Tp. 40 S., R. 10 W.

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

Leo A. Snow.
United States Deputy Surveyor.

Subscribed by said Leo A. Snow, and sworn to before me this 23rd day of September, 1911.

John T. Woodbury
Clerk Fifth Dist. Court.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 20, 1912.

The foregoing field notes of the survey of the subdivisional lines of Township No. 40 South, Range No. 10 West of the Salt Lake Base and Meridian, Utah executed by Leo A. Snow under his contract No. 304, dated May 14, 1908, 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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BOOK. A-366

T.

FILED
APR 8 1909

FIELD NOTES

Retracement
OF THE ~~SURVEY~~ OF THE

NORTH BOUNDARY

of

Township No.40 South, Range No.10 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

Under his Contract No. 304, *dated* May 14, 1908. 190xx

Survey commenced September 25, 1908. 190x

Survey completed September 25, 1908. 190x

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BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M. Woodbury	Moundman
N. Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

For preliminary oaths of assistants see book "A" Tp. 36 S., R. 11 W.

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BOOK A-366

INDEX DIAGRAM.

Township 40 South, *Range* 10 West.

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

.....

..... *Moundman*

..... *Moundman*

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

SEAL

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

.....

..... *Axman*

..... *Axman*

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

SEAL

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

..... *Flagma*

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

SEAL

6—151

Retracement of N.bdy.of T.40 S.,R.10 W.

Survey Commenced September 25,1908,and executed with a Young and sons light mountain transit,No.7382,with solar attachment.The horizontal limb is provided with two double verniers,placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct and was approved by the surveyor general for Utah on June 8,1908.

At the ¼ sec.cor.,on S.bdy.of sec.31,S.bdy.of T.39 S., R.10 W.,heretofore described ,latitude 37° 22'31'N., longitude 112° 58'35"W.,I set off 37° 23'N.,on the lat. arc;0 °57' S.,on the decl.arc;and at 3h52 m P.m.,l.m.t., I determine a meridian with the solar.

Note:For complete test of instrument see notes of Subdivision of T.40 S.,R.10½ W.

Thence I run

East,on a retracement line along south bdy.sec.31.

38.40 Intersect the cor.of secs.5,6,31,and 32,which is a limestone,12x10x5 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.

September 25,1908.

Leo A. Snow
U.S.Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Leo A. Snow, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ Retracement of E. and S. bdys. T.36 S., R.11 W.; E. bdy. T.37 S., R.10 W.; S. bdy. T.39 S., R.4 W.; N. and E. bdys. T.40 S., R.8 W.; and N. bdy. T.40 S., R.10 W. Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

Menzies Macfarlane, *Chainman.*

Reuben Stratton, *Chainman.*

Angus M. Woodbury, *Moundman.*

N. Henry Savage, *Moundman.*

Ross Macfarlane, *Axman.*

Samuel Brooks, *Axman.*

Grant Gregerson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in ~~marking all~~ Retracement of those parts or portions of the E. and S. bdys. T.36 S., R.11 W.; E. bdy. T.37 S., R.10 W.; S. bdy. T.39 S., R.4 W.; N. and E. bdys. T.40 S., R.8 W.; and N. bdy. T.40 S., R.10 W.

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

Menzies Macfarlane, *Chainman.*

Reuben Stratton, *Chainman.*

Angus M. Woodbury, *Moundman.*

N. Henry Savage, *Moundman.*

Ross Macfarlane, *Axman.*

Samuel Brooks, *Axman.*

Grant Gregerson, *Flagman.*

Subscribed and sworn to before me this 28th day of September, 1908.

SEAL

Leo A. Snow,
U. S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 14th day of May, 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~xxxxxx~~ Retraced all those parts or portions of E. and S. bdys. T. 36 S., R. 11 W. E. bdy. T. 37 S., R. 10 W.; S. bdy. T. 39 S., R. 4 W.; N. and E. bdys. T. 40 S., R. 8 W. and N. bdy. T. 40 S., R. 10 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been ~~surveyed~~ retraced in books "A", "E", "J", "N" & "T" by me, and under my direction; and I do further solemnly swear that all the corners of said ~~survey~~ retracement have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ~~survey~~ retracement.

Leo A. Snow
United States Deputy Surveyor.

Subscribed by said Leo A. Snow, and sworn to before me this 8th day of April, 1909.

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 1909

The foregoing field notes of the ~~survey of~~ retracement of the North Boundary of Township No. 40 South, Range No. 10 West of the Salt Lake Base and Meridian, in the State of Utah,

executed by Leo A. Snow under his contract No. 304, dated May 14, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys~~ retracements 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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BOOK A-366

U.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

of

Township No. 40 South, Range No. 10½ West,

Of the Salt Lake Base and *Meridian,*

State of Utah

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

der his Contract No. 304, *dated* May 14, 1908, 190

vey commenced September 28, 1908, 190

vey completed September 28, 1908, 190

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FILED
APR 8 1909

BOOK A-366

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlance	Chainman
Reuben Stratton	Chainman
Angus M. Woodbury	Moundman
N. Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

For preliminary oaths of assistants see book "C" Tp. 36 S., R. 11 W.

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BOOK A-366

INDEX DIAGRAM.

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Meanders Page

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BOOK A-366

PRELIMINARY OATHS OF ASSISTANTS.

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

_____, *Chainma*

_____, *Chainma*

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

SEAL

_____

_____

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

_____, *Moundma*

_____, *Moundma*

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

SEAL

_____

_____

WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corne
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, _____, do solemnly swear that I will well and trul
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in th
survey of _____

_____, *Flagman*

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

SEAL

_____

_____

Subdivision of T.40 S.,R.10½ W.

Survey commenced September 26,1908,and executed with a Young and Sons light mountain transit,No.7382,with solar attachment.The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct,and was approved by the surveyor general for Utah,on June 8,1908.

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

At the witness point between secs.7 and 12,heretofore described ,which is 28.00 chs.North of the true point for cor.of secs.7,12,13,and 18,latitude 37°21'4"N., longitude 112°59'07.7 "W.,I set off 37°21'N.,on the lat. arc;1°20'S.,on the decl.arc;and at 4 h 51 m p.m.,l.m.t., I determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5.00 chs. N.of the cor.

At 7 h 10 m p.m.,l.m.t.,I observe Polaris at eastern elongation in accordance with the Manual,and mark a point in the line thus determine on a wooden plug set in the ground,5.00 chs.N.of the cor.

September 26,1908.

September 27,1908:At 7 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°29'to the west,and mark a point in

Subdivision of T.40 S.,R.10½ W.-Continued.

Chains	
	the meridian thus determined,by cutting a small groove in the stone already set 5.00 chs.N.of the cor.;on which the meridian falls 0.37 ins.east of the meridian established by the solar.
	At 7 h 51 m a.m.,l.m.t.,I set off 37° 21'N.,on the lat. arc;1° 36'S.,on the decl.arc;and mark the meridian determined with the solar,by a cross on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.41 ins.east of the meridian established by Polaris observation.
	The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'19"west and 0'22"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the meridian at 8 h 30 m a.m., is N.16° 22'W.,the angle thus determined gives the mag. decl.16° 22'E.
	———
	From the above described witness point bet.secs.7 and 12 I run
	West,on offset line
14.05	Offset South 28.00 chs.to the true line bet.secs.12 and 13,which point is 14.05 chs.West of the true point for the cor.of secs.7,12,13,and 18.
	Set a Red sandstone,18x10x7 ins.,12 ins.in the ground,for witness cor.to cor.of secs.7,12,13,and 18,mkd.W C on NE. face;with 2 notches on N.and 4 notches on S.edges;from which
	A pinon pine,14 ins.dia.,bears N.14° 50'E.,55 lks.dist.mkd. W C T 40 S R 10 W.S 7 B T.
	A cedar,3 ins.dia.,bears S.69° 15'E.,14 lks. dist..mkd.W C T 40 S.,R.10 W.,S 18 B T.

Subdivision of T.40 S.,R.10½ W.-Continued.

Chains	
	A pinon pine,14 ins.dia.,bears S.13° 30'W.,17 lks.dist..mkd. W C T 40 S R 10½ W S 13 B T.
	A cedar,10 ins.dia.,bears N.41° 20'W.,66 lks. dist..mkd.W C T 40 S R 10½ W S 12 B T.
	Thence West,on true line bet.secs.12 and 13.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Note:This witness cor.is on west edge of canon,which bears N.20° E.and S.20° W.
	Asc.
27.40	(Counting from point for sec.cor.) East edge of Wild Cat Canon,bears N.and S.
	Desc.abruptly overledges.
	Leave heavy and enter scattering timber,bears N.and S.
33.50	Bottom of Wild Cat Canon,600 ft.below edge,course S.
	There is a creek,10 lks.wide,7 ins.deep,in this canon.
	Asc.abruptly .
40.00	Set a sandstone,18x12x6 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
40.60	Top of ridge,175 ft.above canon,bears N.and S.
	Desc.
52.70	Bottom of hollow,50 ft.below ridge,course S.
	Asc.
60.00	Top of spur,100 ft.above hollow,bears N.and S.
	Desc.
76.00	Bottom of hollow,150 ft.below spur,course S.
	Asc.
80.00	Point 80 ft.above hollow.
	Set a sandstone,18x12x6 ins.,12 ins.in the ground,for cor.of secs.11,12,13,and 14,mkd.with 4 notches on S. and 1 notch on E.edges;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .

Subdivision of T.40 S.,R.10½ W.-Continued.

Chains	
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	N.0° 1'W.,bet.secs.11 and 12.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
10.00	Top of ridge,200 ft.above sec.cor.,bears N.75° W.and S.75° E.
	Desc.
38.20	Begin abrupt descent over sandstone ledges,bears E. and W.
40.00	Set a sandstone,18x9x8 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
43.00	Foot of sandstone ledges,bears E.and W.
	Continue descent.
47.50	Creek,16f lks.wide,5 ins.deep,in bottom of Wild Cat Canon,200 ft.below ridge,course E.
	Asc.
52.00	Top of ridge,125 ft.above canon,bears N.80° W.and S.80° E.
	Descend.
60.00	Asc abruptly over sandstone ledges,bears NW and SE.
80.00	Point for cor.falls on the west face of a smooth ledge, about 100 ft.high,I cut a cross (x) at the exact point for cor.of secs.1,2,11,and 12,;and mark 5 notches on

Subdivision of T.40 S.,R.10½ W.-Continued.

Chains	
	S.,and 1 notch above the cross;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,rocky;4rt rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak and service berry.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	September 27,1908:At this cor.I set off 1°41'S.,on the decl.arc;and at 11 h 51 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°22'N.,which is the proper lat.nearly.
	East,on a random line bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.
80.10	Intersect E.bdy.of Tp.,at the cor.of secs.1,6,7,and 12, heretofore described.
	Thence I run
	West,on a true line bet.secs.1 and 12.
	Over mountainous land;through dense undergrowth and scattering timber .
	Asc.
.50	Road to Potato Hollow,bears N.and S.
11.60	Top of ridge;bears N.30°W.and S.30°E.
	Desc.
6.80	Begin abrupt descent,bears N.and S.
20.00	Bottom of canon,200 ft.below ridge,course S.
	Asc. abruptly.
34.75	Top of abrupt ascent,bears N.and S.

Subdivision of T.40 S.,R.10½ W.-Continued.

Chains

36.85 Top of ridge,200 ft.above canon ,bears N.and S.

Desc.

40.05 Set a limestone,16x8x4 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which

A cedar,14 ins.dia.,bears N.82°15'E.,150 lks. dist.,mkd.¼ S 1 B T.

A cedar,20 ins.dia.,bears S.75°E.,225 lks. dist..mkd.¼ S 12 B T.

46.00 Edge of canon,bears N.and S.

Desc.abruptly into canon.

57.20 Bottom of canon,400 ft.deep,course S.

Asc.abruptly.

67.25 Top of abrupt,and west side of canon,400 ft.above bottom ,bears N.and S.

Asc.more gradually.

70.00 Top of spur,75 ft.above west side of canon,bears N.and S.

Desc.

73.25 East edge of Wild Cat Canon,bears N.and S.

Desc.abruptly over ledges .

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

Land,mountainous.

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

Timber,cedar and pinon pine.

Undergrowth,oak,service berry,larb,and buck brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.10 chs.

Exceptionally difficult to survey,80.10 chs.

September 27,1908.

Subdivision of T.40 S.,R.10½ W.-Continued.

Chains	
	September 28,1908:At 7 h 51 m a.m.,l.m.t.,I set off 37° 22'N.,on the lat.arc;1°59'S.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.1,2, 11,and 12.
	Thence I run
	N.0°1'W.,on a true line bet.secs.1 and 2.
	(In accordance with Special Instructions)
	Over mountainous land;through dense undergrowth and scattering timber .
	Asc.abruptly over ledges.
10.00	Top of ledges and edge of Wild Cat Canon,200 ft.above sec.cor.,bears NW and SE.
	Asc.more gradually.
30.00	Top of spur,150 ft.above top of ledges,bears E.and W.
	Desc.
37.00	Bottom of hollow,75 ft.below spur,course W.
	Asc.
40.00	Set a limestone,14x8x6 ins.,10 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,10 ins.dia.,bears N.58°45'W.,150 lks.dist..mkd.¼ S 2 B T.
	A yellow pine,15 ins.dia.,bears N.21° 50'E., 112 lks.dist..mkd.¼ S 1 B T.
44.00	Top of spur,60 ft.above hollow,bears E.and W.
	Desc.
60.00	Bottom of canon,300 ft.below ridge,course S.60°W.
	Asc.
78.00	Top of divide ridge,400 ft.above canon,bears N.15°E.and S.18°W.
	Desc.
87.67	Intersect N.Bdy.of Tp.,38.10 chs.E.of the closing cor. Tps.39 and 40 S.,Rs.10 and 10½ W.,which is a black lava stone,10x9x8 ins.,above ground,firmly set,and mkd.and

Subdivision of T.40 S.,R.10½ W.-Continued.

Chains witnessed as described by the surveyor general.

Set a limestone,18x8x6 ins.,12 ins.in the ground,for closing cor.of secs.1 and 2,mkd.C C on S.,with 1 groove on E.and 5 grooves on W.faces;from which,

A yellow pine,36 ins.dia.,bears S.34° 40'E.,48 lks.dist..mkd. T 40 S R 10½ W S 1 B T.

A yellow pine,36 ins.dia.,bears S.11°W.,326 lks.dist..mkd. T 40 S R 10½ W S 2 B T.

Land,mountainous .

Soil,gravelly ;3rd rate

Timber,cedar,pinon pine,and yellow pine.

Undergrowth,oak,service berry,larb,and buck brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 87.67 chs.

Exceptionally difficult to survey,87.67 chs.

September 28,1908:At the noon hour the sky is overcast and solar observations are impossible.

September 28,1908.

Boundaries of T.40 S.,R.10½ W..

Latitudes,departures,and closing errors.

Line designated.	Course	Distance chs.	Latitudes N. chs.	Latitudes S. chs.	Departures E chs.	Departures W chs.
S.bdy.sec.12,Sub. T.40 S.,R.10½ W.	West	80.00				80.00
W.bdy.secs.12 and 1 T.40 S.,R.10½ W.	N.0°11'W.	167.67	167.67			.05
N.bdy.T.40 S.R10½ W.	East	80.00			80.00	
E.bdy.T.40 S.R10½ W.	South	167.70		167.70		
Convergency					.03	
Totals			167.67	167.70	80.03	80.05
				167.67		80.03
Error in lat.				.03		
Error in dep.						.02

Subdivision of T.40 S.,R.10½ W.-Continued.

GENERAL DESCRIPTION.

This fractional township is mountainous.The soil is generally gravelly and rocky;3rd and 4th rate.

There is a scattering growth of cedar,pinon pine,and yellow pine timber in the township.

The undergrowth in this township is very dense and consists of service berry,oak,larb,and buck brush.

The township produces an abundant growth of good grasses for grazing purposes.

There is a small Creek in Wild Cat Canon but it is difficult for cattle to get down into it from the surrounding ridges.

There are no settlers in the township.

There is no mineral in the township.

Secs.1 and 12 were the only secs.surveyed in this township;the remainder of the township is composed of barren red and white sandstone ledges and gorges;which it is impossible to survey and which if surveyed would be non-agricultural.

Leo A. Snow
U.S.Deputy Surveyor.

September 28,1908.

Note:

There being no notary public or other officer authorized to administer oaths, within a reasonable distance, at the beginning or ending of the surveys embraced in this contract, therefore, in order to save time and expense, I administer the preliminary and final oaths myself.

Leo A. Swan

U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Leo A. Snow, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Sub.T.36 S.,R.11 W.;T.37 S.,R.10 W.;T.39 S.,R.4 W.;T.40 S.,Rs.8,10,and 10½ W.,Salt Lake Base and Meridian showing the respective capacities in which they acted:

Menzies Macfarlane, *Chainman.*
Reuben Stratton, *Chainman.*
Angus M.Woodbury, *Moundman.*
N.Henry Savage, *Moundman.*
Rass Macfarlane, *Axman.*
Samuel Brooks, *Axman.*
Grant Gregerson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Leo A.Snow, United States Deputy Surveyor, in surveying all those parts or portions of the Sub.T.36 S.,R.11 W.;T.37 S.,R.10 W.;T.39 S.,R.4 W.; Tp.40 S.,Rs.8,10,and 10½ 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.

Menzies Macfarlane, *Chainman.*
Reuben Stratton, *Chainman.*
Angus M. Woodbury, *Moundman.*
N. Henry Savage, *Moundman.*
Rass Macfarlane, *Axman.*
Samuel Brooks, *Axman.*
Grant Gregerson, *Flagman.*

Subscribed and sworn to before me this 28th day of September, 1908.

SEAL

Leo A. Snow
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 14th day of May, 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Sub.T.36 S.,R.11 W.;T.37 S., R.10 W.;T.39 S.,R.4 W.;T.40 S.,Rs.8,10,and 10½ W.

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

Leo A. Snow
United States Deputy Surveyor.

Subscribed by said Leo A. Snow, and sworn to before ~~me~~ this 8th day of April, 1909.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 1909

The foregoing field notes of the survey of the subdivisional lines of Township No.40 South, Range No.10 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A. Snow under his contract No. 304, dated May 14, 1908, 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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