Volume

#

R0363

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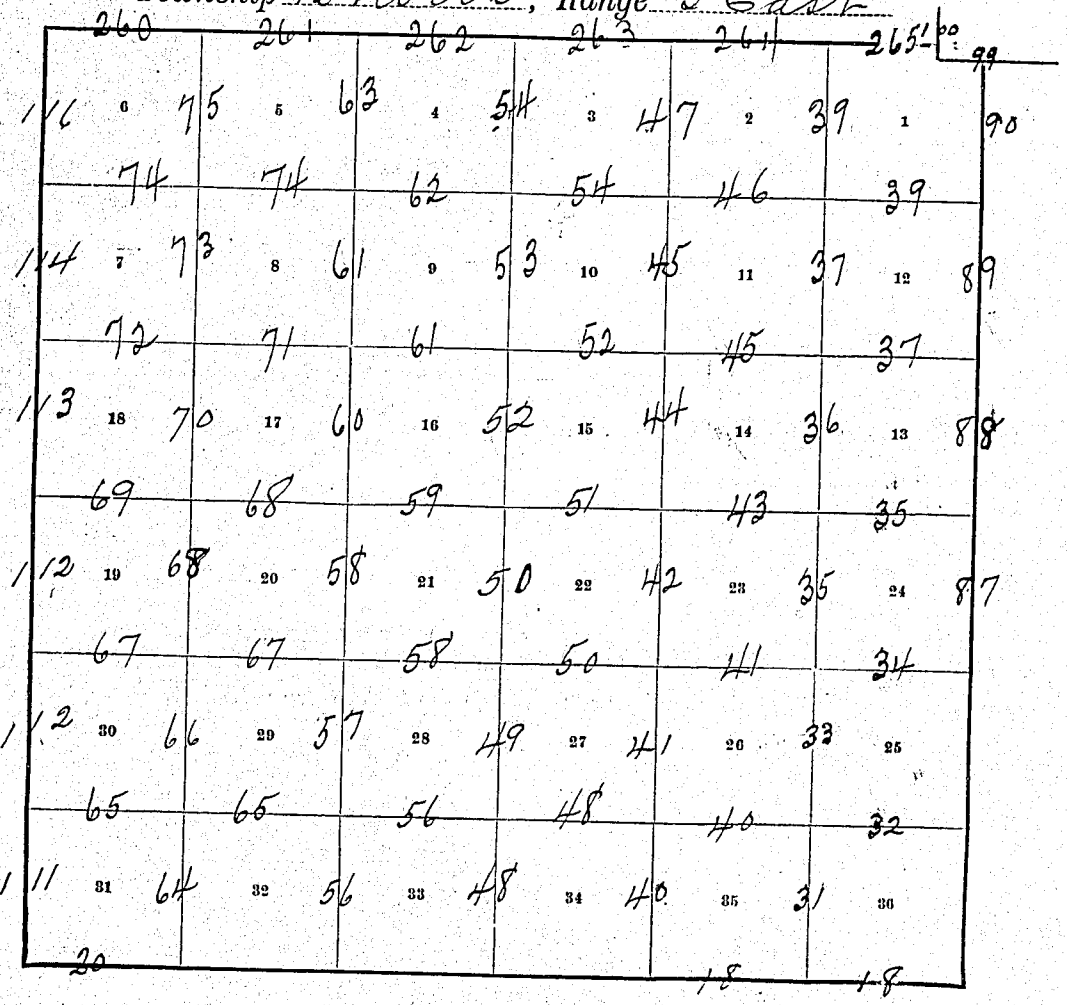
INDEX DIAGRAM.

Township 12 North, *Range* 3 East 4 East



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PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

.....

..... *Moundman.*

..... *Moundman.*

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

SEAL

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

.....

..... *Axman.*

..... *Axman.*

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

SEAL

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

..... *Flagman.*

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

SEAL

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PRELIMINARY OATHS OF ASSISTANTS.

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

....., *Chainman.*

....., *Chainman.*

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

SEAL

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

....., *Moundman.*

....., *Moundman.*

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

SEAL

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

....., *Axman.*

....., *Axman.*

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

SEAL

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

....., *Flagman.*

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

SEAL

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Township 12 North, *Range* 1 East

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PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... *Chainman.*

..... *Chainman.*

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

SEAL

.....

.....

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

.....

..... *Moundman.*

..... *Moundman.*

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

SEAL

.....

.....

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

.....

..... *Axman.*

..... *Axman.*

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

SEAL

.....

.....

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

..... *Flagman.*

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

SEAL

.....

.....

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PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... *Chainman.*

..... *Chainman.*

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

.....

SEAL

.....

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

.....

..... *Moundman.*

..... *Moundman.*

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

.....

SEAL

.....

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

.....

..... *Axman.*

..... *Axman.*

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

.....

SEAL

.....

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

..... *Flagman.*

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

.....

SEAL

.....

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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 over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of .....

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

..... *Moundman.*

..... *Moundman.*

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

SEAL

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

..... *Axman.*

..... *Axman.*

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

SEAL

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

..... *Flagman.*

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

SEAL

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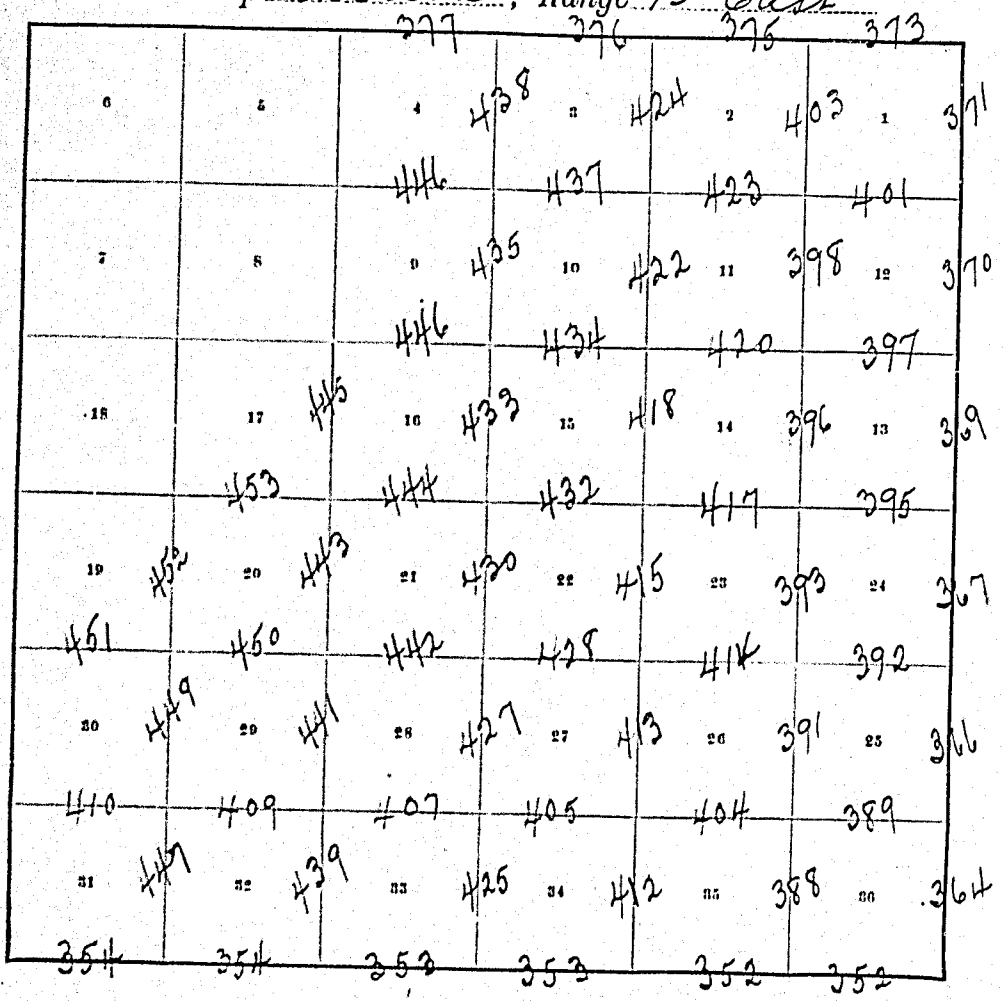
Township 10 South, *Range* 15 East



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 over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of .....

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

..... *Moundman.*

..... *Moundman.*

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

SEAL

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

..... *Axman.*

..... *Axman.*

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

SEAL

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

..... *Flagman.*

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

SEAL

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FILED
JAN 28 1903

BOOK A-363

a.

FIELD NOTES

OF THE RE SURVEY OF THE

South Boundary

of

Tp. 12 N., R. 3 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

...er his Contract No. 260, dated February 12, 1903.

...ey commenced July 25, 1904.

...ey completed August 19, 1904.

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Rec. high 1-79-96 ✓

Retr. 1-25-48 ✓

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NAMES AND DUTIES OF ASSISTANTS.

Oscar Lee,	Chainman.
Rawson A. Lee,	Chainman.
Errol C. Valentine,	Moundman.
Lin[illegible] Hansen,	Axman.
Alma Tingey,	Flagman.

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31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Oscar Lee and Rawson A. Lee 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 resurvey of S. bdy. of Tps. 12 N., Rs. 1, 2 and 3 E.; E. bdy. Tps. 12 N., R. 3 E., and resurvey and retracement of E. bdy. Tps. 12 N., R. 1 E., Salt Lake Base and Meridian, Utah.

Oscar Lee, Chainman

Rawson A. Lee, Chainman

Subscribed and sworn to before me this 18 day of July, 1904

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

I, ~~WE~~, Errol C. Valentine and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us,~~ me to the best of ~~our~~ my skill and ability, in the resurvey of S. bdy. Tps. 12 N., Rs. 1, 2 and 3 E., E. bdy. Tps. 12 N., R. 3 E., and resurvey and retracement E. bdy. Tps. 12 N., R. 1 E., of the Salt Lake Base and Meridian, Utah.

Errol C. Valentine, Moundman

, Moundman

Subscribed and sworn to before me this 18 day of July, 1904

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

I, ~~WE~~, Linus Hansen 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 resurvey of S. bdy. of Tps. 12 N., Rs. 1, 2 and 3 E., E. bdy. Tps. 12 N., R. 3 E., and resurvey and retracement E. bdy. Tps. 12 N., R. 1 E., of the Salt Lake Base and Meridian, Utah.

Linus Hansen, Axman

, Axman

Subscribed and sworn to before me this 18 day of July, 1904

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

I, Alma Tinger, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the resurvey of S. bdy. of Tps. 12 N., Rs. 1, 2 and 3 E.; E. bdy. Tps. 12 N., R. 3 E., and resurvey and retracement E. bdy. Tps. 12 N., R. 1 E., Salt Lake Base and Meridian, Utah.

Alma Tinger, Flagman

Subscribed and sworn to before me this 18 day of July, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

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Resurvey of the South Boundary of Tp. 12 N., R. 3 E.

Chains	
	Survey commenced July 25, 1904 and executed with a W. & L. E. Gurley engineers transit. The horizontal plate is provided with two double verniers placed opposite eachother, reading to 20 seconds of arc, and the telescope axis is provided with a 6 ins. vertical circle, reading by a double vernier to 10 seconds of arc.
	The instrument was examined, tested on the true meridian at Salt Lake City, found correct and approved by the surveyor general for Utah, July 16, 1903.
	At the cor. of Tps. 11 and 12 N., Rs. 3 and 4 E., which is a sandstone, 7×14×12 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, in latitude 41°43' 27" N., longitude 111°32'59" W., at $11^h 15^m 2$, p. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined, by a tack driven in a wooden peg set in the ground, 5 chs. N. of my station.
	July 25, 1904.
	July 26: At $6^h 50^m$ a. m., l. m. t., I lay off the azimuth of Polaris 1°37' to the west, and mark the true meridian thus determined by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18° W., which gives the magnetic declination 18° E.
	Thence I retrace.
	West bet. secs. 1 and 36.
40.00	I find the old 1/4 sec. cor., loosely standing, 10 lks. N. of line.
80.00	I search diligently for the old sec. cor. but find no traces of it.
	West bet. secs. 2 and 35.

Resurvey of the South Boundary of Tp. 12 N., R. 3 E.

Chains	
40.00	I search diligently for the old 1/4 sec. cor. but find no traces of it.
79.96	Intersect N. and S. line 40 lks. S. of the cor. of secs. 2, 3, 34 and 35, which is a sandstone, 8×8×7 ins. above ground, firmly set, marked and witnessed as described by the surveyor general; consequently the Tp. line bet. secs. 1, 2, 35 and 36 bears N. 89°51' W.
	Thence I run
	S. 89°51' E., on true line, bet. secs. 2 and 35.
	Over mountainous land, through timber and dense aspen undergrowth; descend.
19.92	Ravine, drains S.E., ascend.
35.00	Spur, bears N. and S., descend.
39.98½	On slope, bears S.E. and N.W.
	Set a sandstone, 16×10×6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Pits, impracticable.
56.00	Ravine, drains S.E.
78.00	Ridge, bears N. and S., descend.
79.97	I search again for the old cor. of secs. 1, 2, 35 and 36, and find the stone set and loose on the ground, which I reset.
	Set a limestone, 17×8×8 ins., 12 ins. in the ground, for re-established cor. of secs. 1, 2, 35 and 36, marked with 5 notches on W. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky loam, 3rd rate.
	Timber, aspens and pines; undergrowth aspen brush.
	Mountainous land and dense undergrowth 79.97 chs.
	S. 89°51' E. bet. secs. 1 and 36.
	Over mountainous land, through timber and dense aspen undergrowth. Descend on S.E. slope.
15.00	Leave abrupt slope.
15.40	Brook, 3 lks. wide, 2 ins. deep, flows S.W., ascend.
26.50	Spur, bears N.W. and S.E., descend.
32.75	Ravine, 50 ft. deep, drains N.W., ascend.
39.99	On spur, bears N.W. and S.E.

Resurvey of the South Boundary of Tp. 12 N., R. 3 E.

Chains	
	Reset the old cor., which is
	A sandstone, 17×7×7 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
	Descend.
49.25	Gulch, drains N.W., ascend.
61.00	Spur, bears N. and S., descend.
65.50	Gulch, drains S., ascend.
79.99	The cor. of Tps. 11 and 12 N., Rs. 3 and 4 E.
	Land, mountainous.
	Soil, rocky loam, 3rd rate.
	Timber, aspens and pines; undergrowth, aspen and maple brush.
	Mountainous land 79.99 chs.
	From the cor. of secs. 2, 3, 34 and 35, on S. bdy. the Tp. I retrace N. 89° 51' W. to the cor. of secs. 5, 6, 31 and 32, and find the cors. in proper places.
	July 26, 1904.

August 18, 1904.

At the cor. of secs. 5, 6, 31 and 32, on S. bdy. of the Tp., which is a sandstone, 6×8×6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, at 9h 41m 2s p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined, by a tack driven in a wooden peg, set in the ground 5 chs. N. of my station.

Latitude 41° 43' 27" N., longitude 111° 38' 55" W.

August 18, 1904.

August 19, 1904: At 7h 50m a.m., l.m.t., I lay off the azimuth of Polaris 1° 37' to the west, and mark the true meridian thus determined, by a cross on a stone, firmly set in the ground, west of the point established last night.

The magnetic bearing of the true meridian

Chains	
	is N. 18°3' W., which gives the magnetic declination 18°3' E.
	Thence I run
	N. 89°51' W. bet. secs. 6 and 31.
	Over mountainous land, through timber and dense undergrowth, descending.
7.50	Hollow, drains S.W., elevation 7650 ft., ascend.
17.30	Spur, bears N. and S., elevation 7740 ft., descend.
24.00	Gulch, drains S., ascend.
31.00	Ridge, divide between Logan River and Blacksmith Fork, bears S.W. and N.E., descend.
40.00	I find an aspen tree for 1/4 sec. cor., marked and witnessed as described by the surveyor general.
51.00	Head of ravine, drains N., ascend.
67.75	Spur, bears N. and S., descend.
73.50	Hollow, heads N., ascend.
81.00	Recross dividing ridge bet. Logan River and Blacksmith Fork drains, bears N.W. and S.E., elevation 8210 ft., descend.
96.00	Recross same ridge, bears S.W. and N.E. Enter upon northern slope.
105.48	I find a sandstone, 6×9×8 ins. above ground, marked and witnessed as described by the surveyor general, for cor. of Tps. 11 and 12 N., Rs. 2 and 3 E.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, aspens and pines; undergrowth, aspen brush.
	Mountainous land 105.48 chs.
	August 19, 1904.

For general description see notes of subdivision.

Nephi P. Anderson,
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 .....

.....

howing the respective capacities in which they acted:

....., *Chainman.*

or list of names and final oaths of assistants see book "J"., *Chainman.*

S.Bdy.T. 12 N., R. 2 E. ....., *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.*

.....

bscribed 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 .....

For final affidavit see book "J" S.Bdy.Tp.12 N., R. 3 E.

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

.....

United States Deputy Surveyor.

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

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 5, 190 8.

The foregoing field notes of the resurvey of the South Boundary of Township No. 12 North, Range No.3 East of the Salt Lake Base and Meridian, Utah,

executed by Hephi P.Anderson, under his contract No. 260, dated February 12, 190 3, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys they describe, are hereby approved.

Thomas Hall

United States Surveyor General.

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

.....

United States Surveyor General.

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BOOK A-353

B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions of Tp. 12 N., R. 3 E.

Of the Salt Lake Base and Meridian,

State of Utah.

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

under his Contract No. 260, dated February 12, 1903.

Survey commenced July 26, 1903.

Survey completed November 14, 1907.

BOOK A-353

NAMES AND DUTIES OF ASSISTANTS.

George R. Freeman, Chainman.
Oscar Lee, Chainman,
Rawson A. Lee, Moundman,
Errol C. Valentine, Axman,
Linus Hansen, Flagman.

Linus Hansen, Chainman,
William N. Lee Chainman,
Harry L. Freeman Moundman.
Errol C. Valentine, Axman.
Alma Tingey, Flagman.

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Meanders Page ....

PRELIMINARY OATHS OF ASSISTANTS.

We, George R. Freeman and Oscar Lee do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Subdivision of Twp. 12 N., Rs. 2 and 3 E., Salt Lake Base and Meridian, Utah.

George R. Freeman, Chainman.
Oscar Lee, Chainman.

Subscribed and sworn to before me this 26 day of July, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

~~We,~~ I, Rawson A. Lee and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of Subdivisions of Twp. 12 N., Rs. 2 and 3 E., Salt Lake Base and Meridian, Utah.

Rawson A. Lee, Moundman.
, Moundman.

Subscribed and sworn to before me this 26 day of July, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

~~We,~~ I, Errol C. Valentine and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of Subdivision of Twp. 12 N., Rs. 2 and 3 E., Salt Lake Base and Meridian, Utah.

Errol C. Valentine, Axman.
, Axman.

Subscribed and sworn to before me this 26 day of July, 1904.

SEAL

Nephi P. Anderson
U. S. Deputy Surveyor.

I, Linus Hansen, 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 Subdivision of Twp. 12 N., Rs. 2 and 3 E., Salt Lake Base and Meridian, Utah.

Linus Hansen, Flagman.

Subscribed and sworn to before me this 26 day of July, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

BOOK A-363

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Meanders Page .....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Linus Hansen and William N. Lee do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Subdivision of Tps. 12 N., Rs. 2 and 3 E., Salt Lake Base and Meridian, Utah.

Linus Hansen, Chainman.

William N. Lee, Chainman.

Subscribed and sworn to before me this 18 day of October, 1907

Nephi P. Anderson,
U. S. Deputy Surveyor.

SEAL

~~WE~~ I, Harry L. Freeman and ~~do~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of Subdivisions of Tps. 12 N., Rs. 2 and 3 E., Salt Lake Base and Meridian, Utah.

Harry L. Freeman, Moundman.

, Moundman.

Subscribed and sworn to before me this 18 day of October, 1907

Nephi P. Anderson,
U. S. Deputy Surveyor.

SEAL

~~WE~~ I, Errol C. Valentine and ~~do~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of Subdivisions of Tps. 12 N., Rs. 2 and 3 E., Salt Lake Base and Meridian, Utah.

Errol C. Valentine, Axman.

, Axman.

Subscribed and sworn to before me this 18 day of October, 1907

Nephi P. Anderson,
U. S. Deputy Surveyor.

SEAL

I, Alma Tingey, 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 Subdivisions of Tps. 12 N., Rs. 2 and 3 E., Salt Lake Base and Meridian, Utah.

Alma Tingey, Flagman.

Subscribed and sworn to before me this 18 day of October, 1907.

Nephi P. Anderson,
U. S. Deputy Surveyor.

SEAL

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Subdivision of Tp. 12 N., R. 3 E.

Chains	
	Survey commenced July 26, 1904, and executed with a W. & L. E. Gurley engineers transit, described in the notes of resurvey of the south boundary of this Tp.
	The elevations are taken from a two inches aneroid barometer, made by Aspirez, London, adjusted to railway level.
	At the cor. of secs. 1, 2, 35 and 36, on S. bdy. of the Tp., herein before described, at $11^h 11^m.3$ p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line, thus determined, by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station. Latitude 41°43'27" N., longitude 111°34'08" W.
	July 26, 1904.
	July 27: At $7^h 5^m$ a.m., l.m.t., I lay off the azimuth of Polaris 1°37' to the west, and mark the meridian thus determined by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18°02' W., which gives the magnetic declination 18°02' E.
	Thence I run
	N. 0°1' W. bet. secs. 35 and 36.
	Over mountainous land, through timber and dense aspen brush, descending.
40.00	Set a sandstone, 16×8×7 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
43.50	Hollow, drains N.W., acend.
70.00	Ridge, bears N.W. and S.E., elevation 8750 ft.
80.00	Set a sandstone, 15×9×9 ins., 10 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with one notch on S. and

Chains

E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.

An aspen, 6 ins. diam., bears N. 35° 10' W., 1.62 chs. dist., marked T. 12 N., R. 3 E., S. 26, B.T.

No more suitable trees within limit.

Land, mountainous.

Soil, gravelly and rocky, 3rd rate.

Timber, aspens and pines; undergrowth, aspen brush.

Mountainous land with heavy undergrowth 80.00 chs.

S. 89° 51' E., on random line, bet. secs. 25 and 36.

40.00 Set temp. ¼ sec. cor.

80.26 Intersect the east bdy. of the Tp. 5 lks. N. of the cor. of secs. 25, 30, 31 and 36, which is a sandstone, 6 × 7 × 6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

Thence I run

N. 89° 49' W., on true line, bet. secs. 25 and 36.

Over mountainous, through timber and dense brush; descending.

27.00 Hollow, drains N. W., ascend.

40.13 Set a sandstone, 17 × 6 × 6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, dig pits, 18 × 18 × 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.

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

Land, mountainous.

Soil, gravelly and rocky, rich, 3rd rate.

Timber aspens and pines; undergrowth aspen brush.

Mountainous land and heavy brush 80.26 chs.

At this cor. at 11 h. 47 m. 4 p. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground, five chains N. of my

Chains	
	station. Latitude 41°44'19" N., longitude 111° 34'08" W.
	July 27, 1904.
	July 28: At 6h 45m a.m., l.m.t., I lay off the azimuth of Polaris 1°37' to the west, and mark the meridian, thus determined by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18°1' W., which gives the magnetic declination 18°1' E.
	N. 0°1' W. bet. secs. 25 and 26.
	Over mountainous land with heavy brush and timber.
31.00	Spur, bearing S.W. and N.E., descend.
40.00	Set a sandstone, 16×9×6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, dig pits, 18×18×12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
48.00	Hollow, drains N.E., ascend.
71.00	Spur, bears S.W. and N.E., descend in willow brush.
80.00	Set a sandstone, 17×6×5 ins., 12 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, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor, pits impracticable.
	An aspen, 5 ins. diam. bears N. 45° W., 16 lks. dist., marked T. 12 N., R. 3 E., S. 23, B.T.
	An aspen, 4 ins. diam., bears N. 19 1/4° E., 36 lks. dist., marked T. 12 N., R. 3 E., S. 24, B.T.
	No more suitable trees within limit.
	Elevation 7760 ft.
	Land, mountainous.
	Soil, gravelly, rich, 3rd rate.
	Timber, Aspens and pines; undergrowth, aspen brush.
	Mountainous land with dense undergrowth
	80.00 chs.

Subdivision of Tp. 12 N., R. 3 E.

Chains	
	S. 89° 49' E., on random line, bet. secs. 24 and 25.
40.00	Set temp. 1/4 sec. cor.
80.08	Intersect the east bdy. of the Tp. 3 lks. S. of the cor. of secs. 19, 24, 25 and 30, which is a sandstone, 6 x 9 x 8 ins. above ground, firmly set, marked and witnessed as decribed by the surveyor general.
	Thence I run
	N. 89° 50' W., on true line, bet. secs. 24 and 25.
	Over mountainous land, through timber and dense undergrowth, descending.
7.84	Hollow, drains N. W., ascend.
40.04	Set a sandstone, 16 x 6 x 6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
52.00	Ridge, bears N. W. and S. E., descend.
70.50	Hollow, drains N. W., elevation 7450 ft.
	Ascend.
80.08	The cor. of secs. 23, 24, 25 and 26.
	Land, mountainous.
	Soil, gravelly, rich, 3rd rate.
	Timber, aspens and pines, undergrowth aspen.
	Mountainous land and dense undergrowth 80.08 chs.
	July 28, 1904.

July 30: At this cor. at $10^h 56^m$ p. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station. Latitude 41° 45' 11" N., longitude 111° 34' 08" W.

July 30,

July 31: At $6^h 45^m$ a. m., l. m. t., I lay off the azimuth of Polaris 1° 37' to the west, and mark the meridian thus determined by a cross on a stone firmly set in the ground,

Chains	
	west of the point established last night.
	The magnetic bearing of the true meridian is N. 18° 1' W., which gives the magnetic declination 18° 1' E.
	Thence I run
	N. 0° 1' W. bet. secs. 23 and 24.
	Over mountainous land, through dense willows, ascending.
11.00	Spur, bears S. W. and N. E., descend among fireswept timber
40.00	Set a quartz stone, 13×10×9 ins., 9 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, dig pits, 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
46.25	Brook, 3 lks. wide, 3 ins. deep, flows W., elevation 6500 ft., ascend.
72.50	Spur, bears S. W. and N. E., descend.
76.75	Hollow, drains S. W., ascend.
80.00	Set a sandstone, 12×10×5 ins., 8 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked with 3 notches on S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, coarse gravelly, 3rd rate.
	Timber, mahogany and pines, undergrowth, as prev.
	Mountainous land with heavy brush 80.00 chs.
	S. 87° 50' E., on random line, bet. secs. 13 and 24.
40.00	Set temp. 1/4 sec. cor.
80.31	Intersect the east bdy. of the Tp. 7 lks. S. of the cor. of secs. 13, 18, 19 and 24, herein before described, elevation 6720 ft. Thence I run
	N. 89° 53' W., on true line, bet. secs. 13 and 24.
	Over mountainous land, through dense brush. Descend.
23.90	Brook, 3 lks. wide, 2 ins. deep, flows S., elevation 6570 ft., ascend.
40.15 1/2	Set a quartz stone, 17×9×8 ins., 12 ins. in the ground,

Chains	
	for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
43.00	Hollow, drains S.E., ascend.
61.00	Ridge, bears N.W. and S.E., elevation 7200 ft. Descend.
76.50	Hollow, drains S.W., ascend.
80.31	The cor. of secs. 13, 14, 23 and 24. Elevation 7130 ft. Land, mountainous. Soil, gravelly, partly rocky, 3rd rate. Timber, aspens; undergrowth, aspen brush. Mountainous land, with heavy brush, 80.31 chs.
	N. 0° 1' W., bet. secs. 13 and 14. Over mountainous land, through dense aspens, ascend.
18.00	Ridge, bears S.W. and N.E., descend in aspens.
28.60	Hollow, drains W., ascend.
40.00	Set a sandstone, 14×9×4 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable. An aspen, 6 ins. diam., bears S. 41° W., 30 lks. dist., marked 1/4 S. 14 B.T. No more suitable bearing trees within limit.
52.00	Ridge, bears N.W. and S.E., descend.
80.00	Set a sandstone, 15×9×8 ins., 10 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked with 4 notches on S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable. An aspen, 5 ins. diam., bears S. 5 1/2° E., 28 lks. dist., marked T. 12 N., R. 3 W., S. 13, B.T. An aspen, 4 ins. diam., bears N. 76° 14' W., 22 lks. dist., marked T. 12 N., R. 3 E., S. 11, B.T. No more suitable bearing trees within limit. Land, mountainous. Soil, gravelly loam, 2nd rate. Timber, aspens and pines; undergrowth, aspen brush. Mountainous land and heavy undergrowth 80.00 chs.

Subdivision of Tp. 12 N., R. 3 E.

Chains	
	S. 89°53' E., on random line, bet. secs. 12 and 13.
40.00	Set temp. 1/4 sec. cor.
80.10	Intersect the east bdy. of the Tp. 14 lks. N. of the cor. of secs. 7, 12, 13 and 18, herein before described.
	Thence I run
	N. 89°47' W., on true line, bet. secs. 12 and 13.
	Over mountainous, brushy land; ascend.
3.50	Small spur, bears N.W. and S.E.
16.00	Small hollow, drains S.E.
19.00	Spur, bears N. and S., elevation 7130 ft., descend.
38.00	Hollow, drains S.E., elevation 7060 ft., ascend.
40.05	Set a sandstone, 14×8×6 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dig pits, 18×18×12 ins., east and west of stone 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
	An aspen, 5 ins. diam., bears N. 73° W., 18 lks. dist., marked 1/4 S. 12, B.T.
	An aspen, 4 ins. diam., bears S. 28° E., 16 lks. dist., marked 1/4 S. 13, B.T.
55.50	Ridge, bears S.W. and N.E., elevation 7200 ft. Descend.
78.60	Hollow, drains N.W., elevation 7040 ft., ascend.
80.10	The cor. of secs. 11, 12, 13 and 14.
	Land, mountainous.
	Soil, gravelly, rich, 2nd rate.
	Timber, aspens; undergrowth, aspen & maple bush.
	Mountainous land with aspen undergrowth. 80.10 chs.

	N. 0°1' W. bet. secs. 11 and 12.
	Over mountainous land through dense aspens, descending.
5.00	Old dragroad, in hollow, draining N.W., thence along western slope of mountain.
19.50	Spur, bears N.W. and S.E., descend.
28.00	Road, bet. Logan and Bear Lake Valley, bears S.W. and N.E., telephone line bet. same points along N. side of road.
39.80	Gulch, drains N.W.

Subdivision of Tp. 12 N., R. 3 E.

Chains	
40.00	Set a limestone, 12×10×6 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
58.00	Low divide, bears N.W. and S.E., descend.
80.00	Open hollow, drains N.W.
	Set a lime stone, 15×10×8 ins., 10 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 5 notches on S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	An aspen, 5 ins. diam., bears S. 3° 15' W. 45 lks. dist., marked T. 12 N., R. 3 E., S. 11, B.T.
	No more trees within limit.
	Land, mountainous.
	Soil, gravelly, partly rocky, 2nd rate.
	Timber, aspens; undergrowth, sage and aspen brush.
	Mountainous, brushy land 80.00 chs.
	At this cor. at $10^h 52^m$ p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station. Latitude 41° 47' 47" N., longitude 111° 34' 08" W.
	July 31, 1904.
	August 1: At $7^h 25^m$ a.m., l.m.t., I lay off the azimuth of Polaris 1° 37' to the west, and mark the true meridian thus determined, by a cross on a stone firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18° 3' W., which gives the magnetic declination 18° 3' E.
	Thence I run
	S. 89° 47' E., on random line, bet. secs. 1 and 12.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect the E. bdy. of the Tp. 5 lks. S. of the cor. of secs. 1, 6, 7 and 12, herein before described.

Subdivision of Tp. 12 N., R. 2 E.

Chains		
	Thence I run	
	N. 89° 49' W., on true line, bet. secs. 1 and 12.	
	Over mountainous land, through dense aspens, ascending.	
23.00	Ridge, bears N. W. and S. E., elevation 7250 ft. Aspens thin out; descend.	
33.00	Hollow, drains N. W., ascend.	
40.00	Set a limestone, 14×8×5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.	
56.00	Ridge, bears N. W. and S. E., descend.	
69.00	Leave main ridge, enter hollow; drains N. W.	
73.50	Small spur, bears N. W. and S. E.,	
80.00	The cor. of secs. 1, 2, 11 and 12.	
	Land, mountainous.	
	Soil, gravelly, partly rocky, 2nd rate.	
	Timber, aspens and pines.	
	Mountainous land 80.00 chs. August 1, 1904.	
	Nov. 13, 1907. At this cor. at 8h 44m a. m., l. m. t., I set off 41° 48' on the lat. arc, 17° 45.5' on the ded. arc, and determine the meridian with the solar. (For description and test of instrument see book "K.")	
	Knowing that I can not intersect the 3rd St. Par. N. within closing limit I run	
	N. 0° 1' W. on true line, bet. secs. 1 and 2.	
	Over mountainous land, ascend through timber.	
3.00	Spur, bears N. W. and S. E., spring 6 chs. W.; descend.	
29.00	Hollow, drains N. W.	
40.00	Set a limestone, 14×8×8 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable	
52.15	Temple Fork, 12 lks. wide, 10 ins. deep, flows N. W., road along N. side, elevation 6100 ft.; ascend.	
93.27	Intersect the Third Standard Parallel North.	See page 27 Book "K"
	Set a ~~limestone, 15×10×8~~ granite 8×8×20 ins., ~~13~~ 15 ins. in the ground, for closing cor. of secs. 1 and 2, marked C. C. on S., with 5 grooves on W. and 1 groove on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.; pits impracticable.	
	Land, mountainous.	
	Soil, gravelly, 2nd rate.	
	Timber, aspens.	
	Mountainous land 93.27 chs.	

Subdivision of Tp. 12 N., R. 3 E.

Chains	
	N. 89° 48' E., on Third Standard Parallel North.
	Over mountainous land.
11.23 ~~9.50~~	Intersect the standard 1/4 sec. cor. of sec. 36, herein before described. Mountainous land 9.50 chs.
	November 13, 1907.
	August 2: At the cor. of secs. 2, 3, 34 and 35, on S. bdy. of the Tp., which is a sandstone, 5×8×7 ins. above ground, firmly set, marked and witnessed as described by the surveyor general; latitude 41° 43' 27" N., longitude 111° 35' 17" W., at 10h 43m 9 p. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station.
	August 3: At 7h 30m a. m., I lay off the azimuth of Polaris, 1° 37', to the west and mark the true meridian thus determined, by a cross on a stone, firmly set in the ground, W. of the point established last night. The magnetic bearing of the true meridian is N. 18° W., which gives the magnetic declination 18° E.
	N. 0° 2' W., bet. secs. 34 and 35.
	Over mountainous land, ascending through timber
27.00	Ridge, bears N. W. and S. E., descend gradually.
40.00	Set a sandstone, 16×9×6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
42.00	Hollow, drains N. W., ascend.
80.00	Set a sandstone, 15×10×6 ins., 10 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
	Land, mountainous
	Soil, gravelly, 3rd rate.
	Timber, aspens and pines.
	Mountainous land 80.00 chs.
	S. 89° 51' E., on random line, bet. secs. 26 and 35.
40.00	Set temp. 1/4 sec. cor.
80.06	Intersect the N. and S. line 9 lks. N. of the cor. of secs. 25, 26, 35 and 36. Thence I run
	N. 89° 47' W., on true line, bet. secs. 26 and 35
	Over mountainous land, through dense brush and timber, ascend.
4.00	Ridge, bears N. W. and S. E., descend.
27.50	Hollow, drains N. W., ascend.

Subdivision of Tp. 12 N., R. 3 E.

Chains	
40.03	Set a sand stone, 14×7×7 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, dig pits, 18×18×12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
69.00	Ridge, bears N.W. and S.E., descend.
80.06	The cor. of secs. 26, 27, 34 and 35.
	Land, mountainous.
	Soil, gravelly, 3rd rate.
	Timber, aspens and pines; undergrowth, aspen brush.
	Mountainous land and dense undergrowth 80.06 chs.
	N. 0°2' W. bet. secs. 26 and 27.
	Over mountainous land, ascend.
9.00	Ridge, bears N.W. and S.E., descend through aspen brush and timber.
40.00	Set a limestone, 14×9×9 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dig pits, 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3¼ ft. base, 1½ ft. high, W. of cor.
43.00	Canyon, drains N.W., ascend.
60.00	Ridge, bears N.W. and S.E., descend.
76.50	Hollow, drains S.W., ascend.
80.00	Set a limestone, 16×9×5 ins., 11 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly, rich, 3rd rate.
	Timber, aspens and pines.
	Mountainous land 80.00 chs.
	S. 89°47' E. on random line bet. secs. 23 and 26.
40.00	Set temp. 1/4 sec. cor.
79.90	Intersect the N. and S. line 3 lks. N. of the cor. of secs. 23, 24, 25 and 26. Thence I run
	N. 89°46' W. on true line, bet. secs. 23 and 26.
	Over mountainous land, through dense brush and timber.

Chains	
	descending.
7.00	Ridge, bears N. and S., descend.
27.00	Canyon, drains N. W.
39.95	In willow brush.
	Set a charred aspen post, 3 ft. long, 3 ins. square, 24 ins. in ground, for 1/4 sec. cor., marked 1/4 S. 23 on N. face, and 26 on S. face, from which a pine, 16 ins. diam. bears N. 10° W., 16 lks. dist., marked 1/4 S. 23 B. T.
	A pine, 4 ins. diam., bears S. 14° 10' W., 23 lks. dist., marked 1/4 S. 26, B. T.
43.50	Hollow, drains N. W.
52.50	Hollow, drains N. E., ascend.
63.00	Ridge, bears N. W. and S. E., elevation 7920 ft. Descend.
79.90	The cor. of secs. 22, 23, 26 and 27.
	Land, mountainous.
	Soil, gravelly, rich, 3rd rate.
	Timber, aspens and pines; undergrowth, sage & aspen brush.
	Mountainous land and dense brush 79.90 chs.
	At this cor. at $10^h 40^m$ p. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station. Latitude 41° 45' 11" N., longitude 111° 35' 17" W.
	August 3, 1904.
	August 4, at $6^h 50^m$ a. m., l. m. t., I lay off the azimuth of Polaris 1° 37' to the west and mark the true meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18° 2' W., which gives the magnetic declination 18° 2' E.
	Thence I run
	N. 0° 2' W. bet. secs. 22 and 23.
	Over mountainous land, descending through timber
4.00	Hollow, drains S. W., ascend.
15.80	Spur, projects S. W.

Chains	
31.00	Hollow heads to the S.W.
40.00	Set a limestone, 17×8×8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dig pits, 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
72.50	Descend among cliffs.
76.00	Brook, 3 lks. wide, 3 ins. deep, flows W. in gorge, elevation 6020 ft., ascend among cliffs.
80.00	Set a limestone, 15×6×6 ins., 10 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd and 4th rates
	Timber, aspens interspersed with pines.
	Mountainous land 80.00 chs.
	S. 89° 46' E., on random line, bet. secs. 14 and 23.
40.00	Set temp. 1/4 sec. cor.
80.05	Intersect the N. and S. line 5 lks. S. of the cor. of secs. 13, 14, 23 and 24. Thence I run
	N. 89° 48' W., on true line, bet. secs. 14 and 23.
	Over mountainous land, ascend through timber.
27.00	Ridge, bears N. and S., elevation 7210 ft., descend.
40.02 1/2	Set a limestone, 16×12×7 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
	This cor. stands at the foot of a ledge, bearing E. and W., and the mound of stone is placed on top of the ledge, 2 ft. above the cor.
58.00	Deep hollow, drains S., ascend.
66.00	Precipitous ridge, bears N. and S., descend.
80.05	The cor. of secs. 14, 15, 22 and 23.
	Land, mountainous.
	Soil, gravelly, rocky, scanty, 4th rate.
	Timber, aspens and mahoganies.
	Mountainous land 80.05 chs.

Chains	
	N. 0°2' W., bet. secs. 14 and 15.
	Over mountainous land, ascending through timber.
19.75	Ridge, bears S.W. and N.E., elevation 6520 ft.,
40.00	Set a conglomerate stone, 15×6×6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.. pits impracticable.
61.20	Wash, in hollow, drains S.W., elevation 6140 ft., ascend.
61.50	Road, bet. Logan and Bear Lake Valley bears N.E. and S.W. Telephone line along S. side of road.
75.50	Ridge, bears S.W. and N.E.
80.00	Set a sand stone, 14×10×6 ins., 10 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly, 3rd rate.
	Timber, aspens.
	Mountainous land 80.00 chs.
	At this cor. at 10h 36m p.m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.
	Latitude 41°46'55" N, longitude 111°35'17" W.
	August 4, 1904.
	August 5: At 6h 30m a. m., l. m. t., I lay off the azimuth of Polaris 1°37' to the west and mark the true meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18° W., which the magnetic declination 18° E.

Subdivision of Tp. 12 N., R. 3 E.

Chains	
	Thence I run
	S. 89°48' E. on random line bet. secs. 11 and 14.
40.00	Set temp. 1/4 sec. cor.
79.98	Intersect the N. and S. line 10 lks. N. of the cor. of secs. 11, 12, 13 and 14.
	Thence I run
	N. 89°44' W., on true line, bet. secs. 11 and 14.
	Over mountainous land, ascend through aspens.
22.00	Ridge, bears N. W. and S. E., descend.
39.99	Set a sandstone, 18×17×4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracicable.
51.00	Telephone line bet. Logan City and Bear Lake Valley, bears S. W. and N. E.
55.75	Road, bet. same points, with same bearings.
56.00	Brook, 1 lk. wide, 1 in. deep, flows S. W.
	Ascend.
71.50	Ridge, bears S. W. and N. E., descend.
79.98	The cor. of secs. 10, 11, 14 and 15.
	Land mountainous.
	Soil, gravelly loam, 2nd rate.
	Timber, aspens.
	Mountainous land 79.98 chs.
	N. 0°2' W., bet. secs. 10 and 11.
	Over mountainous land, descending through timber.
12.00	Brook, 1 lk. wide, 1 in. deep, flows S. W. in hollow.
26.00	Ascend abruptly.
33.00	Top of ascent, bears E. and W.
40.00	Set a quartz stone, 14×8×7 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
51.00	Ridge, bears N. W. and E.
55.00	Head of hollow, draining N. W.
70.00	Ridge, bears W. and E., descend.

Chains	
80.00	Set a sandstone, 14×10×6 ins., 10 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on S. and 2 notches on E. edge; dig pits, 18×18×12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	This cor. is in aspen brush.
	Land, mountainous.
	Soil, gravelly loam, 2nd rate.
	Timber, aspens.
	Mountainous land 80.00 chs.
	The northern sky is overcast the whole night and Polaris can not be observed.
	August 5, 1904.
	August 6, 1904.
	S. 89° 44' E., on random line, bet. secs. 2 and 11.
	Over mountainous land.
40.00	Set temp. ¼ sec. cor.
80.18	Intersect the N. and S. line 9 lks. N. of the cor. of secs. 1, 2, 11 and 12.
	Thence I run
	N. 89° 40' W., on true line bet. secs. 2 and 11.
	Over mountainous land, descending through timber
6.00	Hollow, drains N.W., ascend.
33.00	Ridge, bears N.W. and S.E., elevation 6750 ft.
	Descend.
40.09	Set a sandstone, 17×8×6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
43.00	Low divide, bears S.W. and N.E., descend.
52.75	Hollow, drains N.E., spring 12 chs. down, Ascend.
70.00	Enter upon north slope.
80.18	The cor. of secs. 2, 3, 10 and 11.
	Land, mountainous.
	Soil, gravelly loam, 2nd rate.
	Timber, aspens.
	Mountainous land 80.18 chs.
	August 6, 1904.
	November 13, 1907: At the cor. of secs. 2, 3, 10 and 11, at 11h 44m 19s set off

Chains		
	17°48' S. on the decl. arc and observe the sun on the meridian, the resulting lat. is 41°48'	
	Knowing that I can intersect the 3rd St. Par. N. within limits I run N. 0°2' W., on true line, bet. secs. 2 and 3.	
	Over mountainous land, descending through timber	
8.00	A spring bears W., 14 chs. dist.	
25.00	Brook, 1 lk. wide, 1 in. deep, flows N. E.	
35.50	Recross brook, same size, flows N. W., ascend.	
40.00	Set a sand stone, 12×9×8 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base 1½ ft. high, W. of cor., pits impracticable.	
65.00	Ridge, bears N. W. and S. E., descend.	
92.62	Intersect the 3rd Standard Parallel North.	
	Set a ~~quartz stone~~ granite, ~~24×12×6~~ 10×10×20 ins., 18 13 ins. in the ground, for closing cor. of secs. 2 and 3, marked C. C. on S., with 4 grooves on W. and 2 grooves on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor., pits impracticable.	See page 26 Book "K"
	Land, mountainous.	
	Soil, gravelly, rich, 2nd rate.	
	Timber, aspens.	
	Mountainous land 92.62 chs.	
	Thence I run	
	N. 89°48' E. along the 3rd Standard Parallel North, through dense aspen brush, and at	
10.93 ~~9.50~~	Intersect the standard 1/4 sec. cor. of sec. 35, herein before described.	See page 2 Book "K"
	November 13, 1907.	

August, 7, 1904: At the cor. of secs. 3, 4, 33 and 34, on S. bdy. of the Tp., which is a sandstone, 5×9×7 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, at 10h 24m 3s p. m., l. m. t., I observe Polaris at eastern elongation in accordance with istructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground 5 chs. N. of my station. Latitude 41°43'

Chains	
	27" N., longitude 111°36'27" W. August 7, 1904.
	August 8: At 6h 35m a. m., l. m. t., I lay of the azimuth of Polaris, 1°37', to the west and mark the true meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night. The magnetic bearing of the true meridian is N. 18° W., which gives the magnetic declination 18° E. Thence I run N. 0°2' W., bet. secs. 33 and 34. Over mountainous land, through brush and timber, descending.
14.00	Head of hollow, drains N. W., ascend.
24.00	Ridge, bears N. W. and S. E., descend.
36.00	Fork of hollows from S. W. and S. E., ascend.
40.00	Set a sandstone, 16×7×7 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, dig pits, 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
66.50	Fork of canyons from S. W. and S. E., ascend.
80.00	Set a sandstone, 15×9×9 ins., 10 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edge, dig pits, 18×18×12 ins., in each sec. 3 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, mountainous. Soil, gravelly, 3rd rate. Timber, aspens and pines; undergrowth, aspen brush. Mountainous land and dense brush 8000 chs.
	S. 89°51' E., on random line, bet. secs. 27 and 34.
40.00	Set temp. 1/4 sec. cor.
79.92	Intersect the N. and S. line 10 lks. N. of the cor. of secs. 26, 27, 34 and 35. Thence I run N. 89°47' W., on true, bet. secs. 27 and 34.

Chains	
	Over mountainous land, through dense brush and timber, descending.
39.96	Set a sandstone, 14×8×8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, dig pits, 18×18×12 ins. east and west of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
56.00	Canyon, drains N. W., ascend.
79.92	The cor. of secs. 27, 28, 33 and 34.
	Land, mountainous.
	Soil, gravelly, 3rd rate.
	Timber, aspens and pines, undergrowth, aspen brush.
	Mountainous land and dense brush, 79.92 chs.
	August 8, 1904.
	Note.- The sky was overcast during the entire night. Polaris not visible.
	August 9, 1904.
	N. 0°2' W., bet. secs. 27 and 28.
	Over mountainous land, through timber.
40.00	Set a sandstone 17×8×5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
43.00	Descend in dense brush.
65.00	Canyon, drains N. W., elevation 6680 ft., ascend.
80.00	Set a limestone, 16×10×8 ins., 11 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly, partly rocky, 3rd rate.
	Timber, aspens and pines, undergrowth, aspen brush.
	Mountainous land and dense brush 80.00 chs.
	S. 89°47' E., on random line, bet. secs. 22 and 27.
40.00	Set temp. 1/4 sec. cor.
80.02	Intersect the N. and S. line 3 lks. S. of the cor.

[illegible]

Chains	
	a point in the line thus determined by a tack driven in a wooden peg set in the ground, 5 chs. N. of my station. Latitude 41° 46' 03" N., longitude 111° 36' 27" W. August 9, 1904.
	August 10: At 7h 40m a.m., l.m.t., I lay off the azimuth of Polaris 1° 37' to the west, and mark the true meridian thus determined by a cross on a stone firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18° 3' W., which gives the magnetic declination 18° 3' E.
	Thence I run
	S. 89° 48' E., on random line, bet. secs. 15 and 22.
40.00	Set temp. 1/4 sec. cor.
80.18	Intersect the N. and S. line 8 lks. N. of the cor. of secs. 14, 15, 22 and 23. Thence I run
	N. 89° 45' W., on true line, bet. secs. 15 and 22.
	Over mountainous land, descend through timber.
0.70	Small hollow, drains S., ascend.
14.50	Rocky spur, bears S. and N., descend.
20.00	Hollow, drains S.W., ascend.
25.00	Precipitous ridge, bears S.W. and N.E., descend.
34.00	Brook, 5 lks. wide, 3 ins. deep, flows N.W., ascend. Elevation 5680 ft.
40.09	On top of cliffs, 20 ft. high, bears W. and E.
	Set a limestone, 13 x 8 x 5 ins., in mound of stone, marked 1/4 on N. face, for 1/4 sec. cor., and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
	A cedar, 4 ins. diam., bears S. 70° W., 63 lks. dist., marked 1/4 S. 22, B.T.
	A pine, 16 ins. diam., bears N. 34° E., 130 lks. dist., marked 1/4 S. 15 B.T.
52.00	Spur, bears S. and N., descend.
66.00	Brook, 3 lks. wide, 3 ins. deep, flows S.W.
75.00	Road bet. Logan City and Bear Lake Valley, bears N.E. and S.W.
	Telephone line bet. same points; same bearings,

Chains	
	along N. side of road; ascend.
80.18	The cor. of secs. 15, 16, 21 and 22.
	Land, mountainous.
	Soil, rocky, scanty, 4th rate.
	Timber, pines and cedars.
	Mountainous land 80.18 chs.
	N. 0° 2' W., bet. secs. 15 and 16.
	Over mountainous land, descend through timber.
23.00	Ridge, bears S.W. and N.E., elevation 6190 ft.,
	Descend.
40.00	Set a sandstone, 14×9×6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
41.80	Brook, 2 lks. wide, 1 in. deep, flows S.W. in canyon, elevation 5840 ft., ascend.
80.00	On ridge, bears S.W. and N.E., elevation 6560 ft.
	Set a sandstone, 12×10×6 ins., 8 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly, partly rocky, 2nd and 4th rates.
	Timber, aspens.
	Mountainous land 80.00 chs.
	S. 89° 45' E., on random line, bet. secs. 10 and 15.
40.00	Set temp. 1/4 sec. cor.
80.12	Intersect the N. and S. line, 4 lks. N. of the cor. of secs. 10, 11, 14 and 15. Thence I run
	N. 89° 43' W., on true line, bet. secs. 10 and 15.
	Over mountainous land, through timber, descend.
12.30	Brook, 1 lk. wide, 1 in. deep, flows S.W., ascend.
25.50	Hollow, drains S.W., ascend.
31.00	Spur, bears S.W. and N.E., descend.
40.06	Set a sandstone, 15×10×9 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Chains	
44.00	Brook, 1 lk. wide, 1 in. deep, flows S.W., elevation 6200 ft., ascend
77.00	Leave ascend, enter upon ridge.
80.12	The cor. of secs. 9, 10, 15 and 16.
	Land, mountainous.
	Soil, gravelly, 2nd rate.
	Timber, aspens.
	Mountainous land 80.12 chs.
	At this cor. at $10^h 12^m 5$ p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions in the Manual and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station. Latitude 41°46'55" N., longitude 111°36'27" W.
	August 10, 1904.
	August 11, at $7^h 5^m$ a.m., l.m.t., I lay off the azimuth of Polaris 1°37' to the west, and mark the meridian thus determined by a cross on a stone, firmly set in the ground, W. of the point established last night.
	The magnetic bearing of the true meridian is N. 18°2' W., which gives the magnetic declination 18°2' E.
	Thence I run
	N. 0°2' W., bet. secs. 9 and 10.
	Over mountainous land, descending.
17.50	Hollow, drains S.W., ascend through timber.
23.50	Ridge, bears S.W. and N.E., descend
40.00	Set a sandstone, 16×7×5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
49.50	Wash, drains S.W. in hollow.
54.00	Wash, drains S.E. in hollow.
80.00	Set a sandstone, 16×7×6 ins., 11 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.

Subdivision of Tp. 12 N., R. 3 E.

Chains	
	Land, mountainous.
	Soil, gravelly loam, 2nd rate.
	Timber, aspens.
	Mountainous land 80.00 chs.
	Thunderstorms prevent further work this day.
	August 11, 1904.
	Note.—The northern sky is overcast the entire night. Polaris not visible.
	August 12.
	S. 89° 43' E., on random line, bet. secs. 3 and 10.
40.00	Set temp. 1/4 sec. cor.
80.15	Intersect the N. and S. line 3 lks. N. of the cor. of secs. 2, 3, 10 and 11. Thence I run
	N. 89° 42' W., on true line, bet. secs. 3 and 10.
	Over mountainous land, elevation 6550 ft.
	Descend through aspens and mahogany brush.
14.00	Brook, 1 lk. wide, 1 in. deep, flows N.E. in hollow.
	Ascend.
32.50	Ridge, bears N.W. and S.E., descend.
40.07½	Set a quartzstone, 14 x 8 x 6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
59.00	A corral bears S., 8 chs. dist.
74.90	Brook, ½ lk. wide, 1 in. deep, flows N.W. in wash.
80.15	The cor. of secs. 3, 4, 9 and 10.
	Land, mountainous.
	Soil, gravelly rich, 2nd rate.
	Timber, aspens, undergrowth, sage and mahogany brush.
	Mountainous land or dense undergrowth 80.15 chs.
	August 12, 1904.
	November 13, 1907. At this cor. at 3h 44m p.m. I set off 4° 48' on the lat. arc, 17° 48' S. on the decl. arc, and determine the meridian with the solar.
	Knowing that I can not intersect the 3rd St. Par. N. within closing limit I run
	N. 0° 2' W., on true line, bet. secs. 3 and 4.
	Over mountainous land, descend through timber.
20.00	Wash, drains N.E.
40.00	Set a sandstone, 13 x 10 x 4 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft.

Chains		
	base, 1½ ft. high, W. of cor., pits impracticable.	
44.20	A spring bears east, 4 chs. dist, drains N.W. in gorge,	
58.00	Limestone spur, bears N.W. and S.E., descend.	
63.00	Gorge, drains W., ascend on precipitous ridge	
91.97	Intersect the Third Standard Parallel North.	See page 25 Book "K"
	Set a sand stone, ~~16×8×5 ins.~~ 7×10×18, ~~11 ins. in the ground~~ set firmly in mound of stone and earth, for closing cor. of secs. 3 and 4, marked C.C. on S., with 3 grooves on W. and E. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor., pits impracticable.	
	Land, mountainous.	
	Soil, gravelly and rocky, 3rd and 4th rates.	
	Timber, aspens and pines.	
	Mountainous land 91.97 chs.	
	Thence I run	
	N. 89°48' E. on Third Standard Parallel North.	
	Over mountainous land, and at	
10.60 ~~9.52~~	Intersect the standard 1/4 sec. cor. of sec. 34, Tp. 13 N., R. 3 E., herein before described.	See page 25 Book "K"
	Land, mountainous.	
	Soil, gravelly, 3rd rate.	
	No timber.	
	Mountainous land 9.52 chs.	
	November 13, 1907.	

August 13, 1904: At the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., which is a sandstone, 5×9×7 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, at $10^h 0^m.8$ p.m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined, by a tack driven in a wooden peg set in the ground, 5 chs. N. of my station. Latitude 41°43'27" N., longitude 111°37'36" W.

August 13, 1904.

Chains	
	August 14, 1904, at 6h 25m a. m., l. m. t., I lay off the azimuth of Polaris 1°37' to the west, and mark the true meridian thus determined by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18° W., which gives the magnetic declination 18° E.
	Thence I run
	N. 0°3' W. bet. secs. 32 and 33.
	Over mountainous land and heavy brush, descending through timber.
17.00	Hollow, drains N. E., ascend.
32.50	Spur, bears S. W. and N. E., descend gradually.
40.00	Set a sandstone, 16 × 8 × 5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
65.50	Hollow, drains N. E.
80.00	Set a sandstone, 15 × 11 × 8 ins., 10 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edge, dig pits, 18 × 18 × 12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, mountainous.
	Soil, gravelly, partly rocky, 3rd rate.
	Timber, aspens and pines, undergrowth sage and aspen brush.
	Mountainous land or dense undergrowth 80.00 chs.
	S. 89°51' E., on random line, bet. secs. 28 and 33.
40.00	Set temp. 1/4 sec. cor.
80.22	Intersect the N. and S. line 16 lks. N. of the cor. of secs. 27, 28, 33 and 34. Thence I run
	N. 89°42' W., on true line, bet. secs. 28 and 33.
	Over mountainous land, ascending through brush
6.00	Ridge, bears N. and S., elevation 7900 ft.
	Descend in dense undergrowth.
16.50	Hollow, drains N., ascend.

Subdivision of Tp. 12 N., R. 3 E.

Chains	
30.00	Ridge, bears N. and S., descend through timber
40.11	Set a sandstone, 17×6×6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, dig pits, 18×18×12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
72.50	Hollow, drains N., ascend.
80.22	The cor. of secs. 28, 29, 32 and 33.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, aspens and pines; undergrowth aspen brush
	Mountainous land or dense undergrowth 80.22 chs.
	August 14, 1904.
	Note. – The sky is overcast the entire night. Polar is not visible.
	August 15, 1904.
	N. 0°3' W. bet. secs. 28 and 29.
	Over mountainous land, through heavy brush and timber.
3.50	Descend.
16.00	Hollow, drains E., ascend.
27.50	Ridge, bears S.W. and N.E., descend.
40.00	Set a sandstone, 14×8×7 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, dig pits, 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
45.50	Hollow, drains N.E., ascend.
59.00	Spur, bears S.W. and N.E., descend.
72.50	Hollow, drains N.E., ascend.
80.00	Set a conglomerate rock, 15×8×5 ins., 10 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on S. and 4 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, aspens and pines; undergrowth aspen brush.
	Mountainous land or dense undergrowth 80.00 chs.

Subdivision of Tp. 12 N., R. 3 E.

Chains	
	S. 89°42' E., on random line, bet. secs. 21 and 28.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect the N. and S. line 5 lks. N. of the cor. of secs. 21, 22, 27 and 28. Thence I run
	N. 89° 40' W., on true line, bet. secs. 21 and 28.
	Over mountainous land, through dense brush, descend through timber.
2.00	Canyon, drains N., elevation 6680 ft., ascend.
29.00	Ridge, bears N. and S., elevation 7150 ft., descend.
33.00	Hollow, drains N.
40.00	In laurel brush.
	Set a sandstone, 25×7×6 ins., 19 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
	An aspen, 3 ins. diam., bears N. 46° E., 30 lks. dist., marked 1/4 S. 21, B. T.
	No more bearing trees within limit.
42.00	Ridge, bears N. and S., elevation 7100 ft., descend.
67.50	Wash, drains N. W.
68.00	Road, in canyon, bears N. W. and S. E., ascend.
71.00	Hollow, drains N. E.
80.00	The cor. of secs. 20, 21, 28 and 29, elevation 6850 ft.
	Land, mountainous.
	Soil, gravelly, rich, 3rd rate
	Timber, aspens and pines; undergrowth aspen.
	Mountainous land or dense undergrowth 80.00 chs.

	N. 0° 3' W. bet. secs. 20 and 21.
	Over mountainous, through dense brush and timber, ascending.
5.00	Spur, bears S. W. and N. E., descend.
15.50	Hollow, drains N. E., ascend.
23.00	Spur, bears S. W. and N. E.
	Dragroad on spur, same bearings
	Descend.
34.50	Spring bears S. E., 75 lks. dist.
37.00	Wood road, in canyon draining N. W., elevation 6420 ft., ascend on S. W. slopes of mountain.
39.50	Hollow, drains S. W.
40.00	Set a limestone, 17×6×5 ins., 12 ins. in the ground,

Chains	
	for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
55.00	Hollow, drains W., ascend.
76.50	Spur, bears N.W. and S.E., descend.
80.00	Set a limestone, 15×10×6 ins., 10 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly, partly rocky, 3rd rate.
	Timber, pines and aspens; undergrowth aspen brush.
	Mountainous land or dense undergrowth 80.00 chs.
	S. 89° 40' E., on random line, bet. secs. 16 and 21.
40.00	Set temp. 1/4 secs cor.
80.28	Intersect the N. and S. line 7 lks. S. of the cor. of secs. 15, 16, 21 and 22. Thence I run
	N. 89° 44' W., on true line, bet. secs. 16 and 21.
	Over mountainous land, ascend through dense sagebrush.
4.00	Rocky spur, bears S. and N., descend.
23.80	Road bet. Logan City and Bear Lake Valley, bears N.W. and S.E., in canyon.
	Telephone line bet. same points along N. side of road.
24.30	Creek, 15 lks. wide, 6 ins. deep, flows N.W.
	Enter pines and aspens; ascend.
40.14	Set a limestone, 15×7×5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
58.00	Ridge, bears S. and N., descend.
74.50	Hollow, drains N., leave pines and ascend.
80.28	The cor. of secs. 16, 17, 20 and 21.
	Land, mountainous.
	Soil, gravelly and rocky, 4th rate.
	Timber, aspens and pines; undergrowth, dense sagebrush.
	Mountainous land or dense brush, 80.28 chs.
	At this cor., at 9h 53m p.m., l.m.t., I observe Polaris is at eastern elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driv-

Chains	
	en in a wooden peg set in the ground, 5 chs. N. of my station. Latitude 41°46'03" N., longitude 111°37'36" W.
	August 15, 1904.
	August 16: At 6h 50m a.m., l.m.t., I lay off the azimuth of Polaris 1°37' to the west and mark the true meridian thus determined by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18°2' W., which gives the magnetic deli-nation 18°2' E.
	Thence I run
	N. 0°3' W. bet. secs. 16 and 17.
	Over mountainous land, descend through timber.
15.00	Creek, 16 lks. wide, 7 ins. deep, flow N.W., ascend.
15.75	Road bet. Logan City and Bear Lake Valley, bears N.W. and S.E., elevation 5030 ft.
	Telephone line bet. same points, same bearings along N. side of road, in canyon.
40.00	Set a sandstone, 14×8×6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	A spring bears N. 52° W., 3 chs. dist.
60.50	Ridge, bears S.E. and N.W., elevation 5600 ft.
69.00	Head of hollow, drains S.E., spring 4 chs. down.
80.00	Set a sandstone, 14×8×6 ins., 10 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, aspens interspersed with pines.
	Mountainous land 80.00 chs.
	S. 89°44' E., on random line, bet. secs. 9 and 16.
40.00	Set temp. 1/4 sec. cor.
80.16	Intersect the N. and S. line 12 lks. S. of the cor.

Chains	
	of secs. 9, 10, 15 and 16. Thence I run
	N. 89°49' W., on true line, bet. secs. 9 and 16.
	Over mountainous land, descend through timber.
39.50	Hollow, drains N. W.
40.08	Set a limestone, 14×12×4 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
	An aspen, 5 ins. diam., bears N. 1°10' W., 22 lks. dist., marked 1/4 S. 9, B. T.
	An aspen, 4 ins. diam., bears S. 36°45' E., 36 lks. dist., marked 1/4 S. 16, B. T.
50.50	Wash, drains S. W.
55.00	Wash, drains S. in road hollow.
80.16	The cor. of secs. 8, 9, 16 and 17.
	Land, mountainous.
	Soil, gravelly, rich, 2nd rate.
	Timber, aspens.
	Mountainous land 80.16 chs.
	At this cor. at 9h 49m 1 p.m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, firmly set in the ground, 5 chs. N. of my station.
	Latitude 41°46'55" N., longitude 111°37'36" W.
	August 16, 1904.
	August 17, 1904: At 7h 10m a.m., l. m. t., I lay off the azimuth of Polaris 1°37' to the west, and mark the true meridian thus determined by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18°3' W., which gives the magnetic declination 18°3' E.
	I erect a signal for backsighting from some points west; thence run
	N. 0°3' W. bet. secs. 8 and 9.
	Over mountainous land, ascend through dense brush and timber

Subdivision of Tp. 12 N., R. 3 E.

Chains	
22.00	Spring, 7 chs. E.
40.00	Set a sandstone, 13×12×6 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
64.00	Wash, drains S.E. in hollow.
70.00	Wash, drains S.W. in hollow.
80.00	Set a sandstone, 12×10×9 ins., 8 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked with 5 notches on S. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly, 2nd rate.
	Timber, aspens interspersed with pines, undergrowth dense sage.
	Mountainous land 80.00 chs.
	S. 89° 49' E. on random line, bet. secs. 4 and 9.
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect the N. and S. line 3 lks. S. of the cor. of secs. 3, 4, 9 and 10. Thence I run.
	N. 89° 50' W. on true line, bet. secs. 4 and 9.
	Over mountainous land; ascend.
3.50	Spur, bears S. and N., descend.
18.40	Hollow, drains N.E., ascend.
33.50	Low divide, bears N.W. and S.E., descend.
40.02	Set a quartz stone, 15×9×7 ins., on bed rock in mound of stone, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
	A spring bears N. 40° W. 6 chs. dist.
44.50	Hollow, drains S., ascend.
77.50	Hollow, drains S.
80.04	The cor. of secs. 4, 5, 8 and 9.
	Land, mountainous.
	Soil, gravelly, rich, 2nd rate.
	Timber, aspens in patches.
	Mountainous land 80.04 chs. August 17, 1904.

November 14, 1907: At this cor. at 8h 44m a.m., l. m. t., I set off 41° 18' on the lat. arc, 18° 1' E. on the decl. arc, and determine the meridian with the solar.

Chains	
	Knowing that I can not intersect the Third Standard Parallel North within closing limit, I run
	N. 0° 3' W., on true line, bet. secs. 4 and 5.
	Over mountainous land, ascend through timber
15.50	Low divide, bears W. and E., elevation 6400 ft.
	Descend.
40.00	Set a limestone stone, 14×10×9 ins., 9 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	An aspen, 6 ins. diam., bears S. 60° W., 95 lks. dist., marked 1/4 S. 5, B. T.
	A pine, 20 ins. diam., bears S. 25° 30' E., 105 lks. dist., marked 1/4 S. 4, B. T.
46.00	Hollow, drains N. E., ascend.
50.00	Descend abruptly.
59.60	Enter crags and precipitous ledges.
62.00	Recross hollow, drains N. W.
81.50	Logan River, 80 lks. wide, 18 ins. deep, flows S. W., ascend.
85.00	County road, bet. Logan City and the saw mills, bears S. W. and N. E., enter dense maple brush.
91.32	Intersect the Third Standard Parallel North.
	Set a ~~limestone~~ granite, ~~14×9×5~~ 16×8×6 ins., ~~14 ins. in the ground~~ in bed of slide rock, for closing cor. of secs. 4 and 5, marked C. C. on S., with 2 grooves on W. and 4 grooves on E. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor., pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines and cedars; undergrowth maple brush.
	Mountainous land 91.32 chs.
	Thence I run
	N. 89° 48' E., on Third Standard Parallel North, over mountainous land, through timber.
10.15 ~~9.56~~	Intersect the standard 1/4 sec. cor. of sec. 33, Tp. 13 N., R. 3 E., herein before described.
	Land mountainous.
	Soil, rocky, 3rd rate.

See page 24 Book "K"

See page 24 Book "K"

Chains

Timber, maple; undergrowth, maple brush.
Mountainous land 9.56 chs.

November 14, 1907.

Aug. 22, 1904, 2h p.m. A thunder shower, followed by low clouds on the mountains and among the timber, prevents further work this day.

August 23, 1904.
From the cor. of secs. 5, 6, 31 and 32, on S. bdy. of the Tps., which is a sandstone, 6 × 8 × 6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, and at which cor. I made an observation on Polaris, August 18, (see notes of S. bdy.) I run
N. 0° 4' W., bet. secs. 31 and 32.
Over mountainous land, through dense undergrowth and timber, descending.
5.30 Hollow, drains S.W., ascend.
38.00 Ridge, bears S.W. and N.E.
40.00 Set a sandstone, 14 × 11 × 5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dig pits, 18 × 18 × 12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
80.00 Set a sandstone, 17 × 8 × 5 ins., 12 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
Land, mountainous.
Soil, gravelly, rich, 2nd rate.
Timber, aspens and pines; undergrowth, dense sagebrush.
Mountainous land or dense undergrowth 80.00 chs.

Subdivision of Tp. 12 N., R. 3 E.

Chains	
	S. 89° 51' E., on random line, bet. secs. 29 and 32.
40.00	Set temp. 1/4 sec. cor.
80.22	Intersect the N. and S. line 14 lks. N. of the cor. of secs. 28, 29, 32 and 33. Thence I run
	N. 89° 45' W., on true line, bet. secs. 29 and 32.
	Over mountainous land, through dense undergrowth; ascend through timber
24.00	Ridge, bears S. W. and N. E.
40.11	Set a sand stone, 14 x 8 x 8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
44.50	Descend.
65.00	Head of hollow, drains N. E., ascend.
80.22	The cor. of secs. 29, 30, 31 and 32.
	Land, mountainous.
	Soil, gravelly, rich, 2nd rate.
	Timber, aspens and pines; undergrowth, dense sagebrush.
	Mountainous land or dens undergrowth 80.22 chs.
	N. 89° 51' W., on random line, bet. secs. 30 and 31.
40.00	Set temp. 1/4 sec. cor.
105.38	Intersect the W. bdy. of the Tp. 15 lks. S. of the cor. of secs. 25, 30, 31 and 36, herein before described.
	Thence I run
	S. 89° 46' E., on true line, bet. secs. 30 and 31.
	Over mountainous land, through dense brush, descend.
50.50	Hollow, drains N. W., ascend.
65.38	Set a sand stone, 15 x 9 x 6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
94.50	Ridge, bears N. W. and S. E., descend.
105.38	The cor. of secs. 29, 30, 31 and 32.
	Land, mountainous.
	Soil, gravelly, rich, second rate.
	No timber; undergrowth, dense aspen and maple brush.
	Mountainous land 105.38 chs.

Chains N. 0° 4' W. bet. secs. 29 and 30.
Over mountainous land, through aspens & pines, ascend.
6.00 Spur, bears S.W. and N.E., descend.
21.50 Head of hollow, drains E. ascend.
34.50 Spur, bears W. and E., descend.
40.00 Set a sandstone, 16×7×5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
53.00 Hollow, drains E.
80.00 Set a sandstone, 15×9×6 ins., 10 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
Land, mountainous.
Soil, gravelly and rocky, 3rd rate.
Timber, aspens and pines.
Mountainous land 80.00 chs.
At this cor. at 9h 21m 6 p.m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station. Latitude 41° 45' 11" N., longitude 111° 38' 45" W.

August 23, 1904

August 24: At 6h 55m a. m., l. m. t., I lay off the azimuth of Polaris 1° 39' to the west, and mark the true meridian, thus determined, by a cross on a stone, firmly set in the ground, west of the point established last night.
The magnetic bearing of the true meridian is N. 18° W., which gives the magnetic declination 18° E.
Thence S. run
S. 89° 45' E., on a random line, bet. secs. 20 and 29.
40.00 Set temp. 1/4 sec. cor.
73.76 Intersect the N. and S. line 3 lks. N. of the cor.

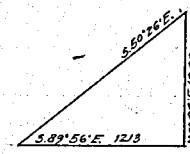
Chains	
	of secs. 20, 21, 28 and 29. Thence I run
	N. 89° 44' W., on true line, bet. secs. 20 and 29.
	Over mountainous land, ascending through timber.
39.98	Set a sandstone, 14×9×8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, dig pits, 18×18×12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
	This cor. stands on a ridge, bearing S.W. and N.E.
	Thence along northern slope
70.00	Recross ridge, now bearing N.W. and S.E.
79.96	The cor. of secs. 19, 20, 29 and 30.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, aspens, pines, and some maple.
	Mountainous land 79.96 chs.
	N. 89° 46' W., on random line, bet. secs. 19 and 30.
40.00	Set temp. 1/4 sec. cor.
105.31	Intersect the west bdy. of the Tp. 24 lks. N. of the cor. of secs. 19, 24, 25 and 30, herein before described. Thence I run
	S. 89° 54' E., on true line, bet. secs. 19 and 30.
	Over mountainous land, through dense brush and timber, descend.
11.20	Brook, 2 lks. wide, 2 ins. deep, flows N.W.
	Ascend.
65.31	Set a limestone, 18×8×+ ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dig pits, 18×18×12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
92.50	Ridge, bears S. and N.
105.31	The cor. of secs. 19, 20, 29 and 30.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, aspens, cedars and pines, undergrowth, cedar and aspen brush.
	Mountainous land or dense undergrowth 105.31 chs.
	Note.— At 2 p.m., heavy rain prevents further work this day. The sky remains

Chains	
	overcast the entire night. Polaris not visible. August 24, 1904.
	August 25. N. 0°4' W., bet. secs. 19 and 20. Over mountainous land, through dense undergrowth; ascend through timber.
13.50	Spur, bears E. and W., elevation 7900 ft.
40.00	Set a limestone, 16×6×6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
42.00	Head of hollow, drains N.E.
47.00	Spur, bears S.W. and N.E., descend.
65.50	Hollow, drains N.E., elevation 7300 ft., ascend
69.50	Ridge, bears S.W. and N.E., thence along ridge.
	Leave dense brush, enter pines,
80.00	Set a limestone, 19×8×6 ins., 14 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable. Center of ridge.
	A pine, 15 ins. diam., bears S. 39°45' W., 81 lks. dist., marked T. 12 N. R. 3 E., S. 19, B.T.
	A pine, 12 ins. diam., bears S. 32° E., 40 lks. dist., marked T. 12 N., R. 3 E., S. 20, B.T.
	No more trees within limit. Elevation 7500 ft.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, aspens and pines, undergrowth, dense aspen brush.
	Mountainous land 80.00 chains.
	S. 89°44' E., on random line, bet. secs. 17 and 20.
40.00	Set temp. 1/4 sec. cor.
80.30	Intersect the N. and S. line 5 lks. S. of the cor. of secs. 16, 17, 20 and 21. Thence I run
	N. 89°46' W., on true line, bet. secs. 17 and 20.
	Over mountainous land and limestone ledges, through pine timber.

Subdivision of Tp. 12 N., R. 3 E.

Chains	
	Ascend.
2.75	Limestone spur, bears N.W. and S.E., descend.
15.05	Brook, 3 lks. wide, 4 ins. deep, flows N.W., elevation 5205 ft., ascend.
15.50	Old wood road, same bearing as brook, ascend.
30.00	Cliffs, 30 ft. high, bears N. and S.; ascend along top of ridge.
40.15	On ridge, bearing E. and W.
	Set a limestone, 17×8×5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
80.30	The cor. of secs. 17, 18, 19 and 20.
	Land, mountainous
	Soil, gravelly, rocky, 4th rate.
	Timber, pines.
	Mountainous land 80.30 chs.

	N. 89°54' W., on random line, bet. secs. 18 and 19.
40.00	Set temp. 1/4 sec. cor.
105.20	Intersect the W. bdy of the Tp. 6 lks. N. of the cor. of secs. 13, 18, 19 and 24, herein before described. Thence I run
	S. 89°56' E., on true line, bet. secs. 18 and 19.
	Over mountainous land, descending through timber.
10.50	Road, bet. Logan City and the saw mills and Bear Lake Valley, bears S. 1/2 and N. E. Telephone line along W. side of road, same bearing
11.30	Logan River, 75 lks. wide, 2 ft. deep, flows S.W.
12.25	Ascend.
65.20	Set a limestone, 14×9×6 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable
80.00	Impasable cliffs; can proceed no further on line. Send a flag to top of cliffs; thence I run N. 0°4' E., 10 chs. for a base. Flag now bears S. 50°26' E.; nat. tan. 1.21331 × 10 = 12.13 chs., the distance to flag; hence
92.13	Top of cliffs.
103.70	Ridge, bears S.W. and N.E.
105.20	The cor. of secs. 17, 18, 19 and 20.



Chains	
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines.
	Mountainous land 105.20 chs.
	At this cor. at 9h 13m p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line, thus determined, by a tack driven in a wooden peg, set in the ground 5.00 chs. N. of my station.
	Latitude 41°46'03" N., longitude 111°38'45" W.
	August 25, 1904.
	August 26.
	At 7h 15m a.m., l.m.t., I lay off the azimuth of Polaris 1°37' to the west, and mark the true meridian thus determined by a cross on a stone, firmly set in a mound of stone, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18°3' W., which gives the magnetic declination 18°3' E.
	At this cor. I erect a signal for a test sight from some points to the north and west.
	N. 0°4' W., bet. secs. 17 and 18.
	Over mountainous land, through timber.
3.50	Descend over precipitous limestone ledges.
40.00	Set a quartz stone, 14×8×5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	A pine, 6 ins. diam., bears N. 73°50' E., 65 lks. dist., marked 1/4 S. 17, B.T.
	No more bearing trees within limit.
44.45	Brook, 10 lks. wide, 12 ins. deep, flows W.
46.00	Road, bet. Logan City and Bear Lake Valley, bears E. and W.
	Telephone line bet. same points along N. side of road. Wire fence on S. side of road.

Chains	
	A lumber cabin, belonging to George L. Rich of Logan City, bears W., 11 chs. dist.
	Ascend.
60.00	Rocky spur, bears E. and W.; thence over ledges
64.00	Flat, rocky hollow, drains W.
79.00	Flat, rocky hollow, drains W.
80.00	Set a limestone, 15×12×7 ins., 10 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked with 4 notches on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable. Elevation 6300 ft. ×
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines and cedars.
	Mountainous land 80.00 chs.
	At this cor. I erect a signal for a test sight from some points to the west.
	S. 89°46' E., on random line, bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
80.18	Intersect the N. and S. line 8 lks. N. of the cor. of secs. 8, 9, 16 and 17. Thence I run
	N. 89°43' W., on true line, bet. secs. 8 and 17.
	Over mountainous land; ascend through timber.
14.00	Spur, bears S. E. and N. W.
27.00	Hollow, drains S. E.
40.09	Set a limestone, 16×14×9 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, from which
	A mahogany, 4 ins. diam., bears S. 24°50' W., 63 lks. distant, marked ¼ S. 17, B. T.
	A pine, 5 ins. diam., bears N. 5°50' E., 85 lks. dist., marked ¼ S. 8, B. T.
	I erect a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable
63.00	Ridge, bears S. and N., elevation 6750 ft.
65.46	Impassable cliffs; set a flag on top and
	Set a flag below crags on line with signal at sec. cor.
	From flag below crags I run S. 0°17' W. 12.00 chs.

Chains	
	for a base. Flag on cliff now bears N. 48° 7' E. Natural tangent 1.10414
	12.
	13.25 chs.
	Hence
78.71	Flag below crags.
80.18	The cor. of secs. 7, 8, 17 and 18.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd and 4th rates
	Timber, pines and mahoganies.
	Mountainous land 80.18 chs.
	N. 89° 56' W., on random line, bet. secs. 7 and 18.
40.00	Set temp. 1/4 sec. cor.
105.07	Intersect the W. bdy. of the Tp. 16 lks. S. of the cor. of secs. 7 × 12, 13 and 18, heretofore described. Thence I run
	S. 89° 50' E., on true line, bet. secs. 7 and 18.
	Over mountonous land, through timber
5.00	Cross ridge, bearing E. and W., from N. to S. slope.
63.50	Descend abruptly among cliffs and crags.
65.07	At foot of a cliff, 90 ft. high, facing E.
	Set a limestone, 20 × 7 × 6 ins., in mound of stone, at talus of cliff, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
72.00	Cliffs, 150 ft. high, facing N.E.; can proceed no farther on line.
	Set a flag on line on the east bank of river, and leave a flag on top of cliff.
	From the flag on the east bank of river I run N. 0° 10' E. 8.00 chs. for a base. Flag on cliffs now bears S. 55° 11' W. Natural tangent 1.4290
	8.
	11.4322 chs.
	Hence
83.43	East bank of Logan River, 65 lks. wide, 2 ft. deep, flows S., elevation 4740 ft.
84.30	Road, bet. Logan City and the saw mills, bears S. and N.; ascen over limestone ledges.
105.07	The cor. of secs. 7, 8, 17 and 18.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines and maple; undergrowth, maple brush.

Subdivision of Tp. 12 N., R. 3 E.

Chains	Mountainous land 105.07 chs.
	N. 0° 4' W., bet. secs. 7 and 8.
	Over cliffs and mountainous land, through timber.
0.40	Perpendicular cliff, 90 ft. high, facing S.
	Can proceed no farther N., and run W. on offsett line 14 chs., thence N. 0° 4' W. 18 chs., thence east 14 chs., thence N. 0° 4' W. on true line
22.00	Rocky spur, bears E. and W.
40.00	Set a limestone, 14 × 8 × 6 ins., on bed rock in in mound of stone, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
54.00	An unfinish log cabin bears S. 83° 15' W., 32 chs. dist., the property of Tassey Conrad of Logan City.
	Descend.
72.50	Cliffs 100 ft. high, bears E. and W.
73.75	Road, bet. Logan City and the saw-mills, bears S. W. and N. E.
74.00	South bank of Logan River, 70 lks. wide, 20 ins. deep, flows S. W.
75.00	Ascend on precipitous slope.
80.00	Set a limestone, 18 × 8 × 5 ins., 12 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, mountainous
	Soil, rocky, 4th rate.
	Timber, pines and cedars;
	Mountainous land 80.00 chs.
	At this cor. at 9h. 10m. p. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line, thus determined, by a tack driven in a wooden peg, set in the grount, 5 chs. N. of my station. Latitude 41° 47' 47" N., longitude 111° 38' 45" W.
	August 26, 1904.

Chains	
	August 27: At 7h 30m a.m., l.m.t., I lay off the azimuth of Polaris 1°37' to the west, and mark the true meridian by a cross on a stone firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian thus determined is N. 18°3' W., which gives the magnetic declination 18°3' E.
	Thence I run
	S. 89°43' E., on random line, bet. secs. 5 and 8.
40.00	Set temp. 1/4 sec. cor.
80.26	Intersect the N. and S. line 3 lks. S. of the cor. of secs. 4, 5, 8 and 9. Thence I run
	N. 89°44' W., on true line, bet. secs. 5 and 8.
	Over mountainous land, ascending through timber
25.20	Spur, bears N. E. and S. W., elevation 6620 ft.
	Descend abruptly among cliffs
32.65	Crag, 100 ft. high, bears N. E. and S. W.
40.13	Set a limestone, 17 x 8 x 8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
71.40	Road, bet. Logan City and the saw mills, bears S. W. and N. E.
72.00	East bank of Logan River, 65 lks. wide, 2 ft. deep, flows S. W.
73.20	Ascend.
80.26	The cor. of secs. 5, 6, 7 and 8.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines, cedars, and mahoganies.
	Mountainous 80.26 chs.
	N. 89°50' W., on random line, bet. secs. 6 and 7.
40.00	Set temp. 1/4 sec. cor.
104.95	Intersect the W. bdy. of the Tp. 15 lks. N. of the cor. of secs. 1, 6, 7 and 12, herein before described.
	Thence I run
	S. 89°55' E., on true line, bet. secs. 6 and 7.
	Over mountainous land, ascend through timber.
9.50	Ridge, bears N. W. and S. E., descend.

Subdivision of Tp. 12 N., R. 3 E.

Chains	
46.00	Road, in canyon, draining S.E., ascend.
64.95	Set a lime stone, 15x9x8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
69.00	Rocky spur, bears S.W. and N.E. Enter cliffs on southern slope of mountains.
104.95	The cor. of secs. 5, 6, 7 and 8.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines and cedars.
	Mountainous land 104.95 chs.
	August 27, 1904.
	November 14, 1907: At this cor. at $11^h 41^m 26^s$ a.m. l.m. t., I set off 48° 1' S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 41° 46'.
	Knowing that I can not intersect the Third St. Par. N. within closing limit, I run N. 0° 4' W., on true line, bet. secs. 5 and 6.
	Over mountainous land and cliffs, through timber, ascending.
18.00	Spur, bears N.W. and S.E.
26.00	Hollow, heads to the S.E., ascend.
38.00	Ridge, bears N.E. and S.W., descend.
40.00	Set a limestone, 16x7x6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
52.50	Hollow, drains S.W., ascend.
78.00	Ridge, bears E. and W., descend abruptly.
90.67	Intersect the Third St. Par. N.
	~~Mark a boulder in place, 6x3x2 ft. above ground, with a cross (x) at exact cor. point, 2 ft. above ground~~ Set a granite 16x10x8 ins, 10 ins, in the ground, for the closing corner of secs. 5 and 6, marked C.C. on S., with 1 groove on W. and 5 grooves on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor., pits impracticable.
	~~This closing cor. is in tall, dense hollows.~~
	Land, mountainous.

See page 2 Book "K"

Chains: Soil, rocky, 4th rate.
Timber, cedars pines and mahoganies, undergrowth, sagebrush and willows.
Mountainous land 90.67 chs.
Thence I run N. 89° 48' E. on Third St. Par. N., through dense brush, and at
9.95 ~~9.50~~ Intersect the point for the standard 1/4 sec. cor. of sec. 32, Tp. 13 N., R. 3 E., herein before described.

page 23 Bk "K"

November 14, 1907.

Boundaries of Tp. 12 N., R. 3 E.
Latitudes, departures and closing errors.

Line designated	True bear	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary	N. 89° 51' W.	505.48	1.32	....	....	505.48
West Boundary	N.	490.02	490.02	....	....	....
North Boundary	N. 89° 48' E.	474.68	1.66	....	474.68	....
" "	S.	4.50	....	4.50	....	....
" "	E.	30.30	....	....	30.30	....
East Boundary	S.	488.55	....	488.55	....	....
Convergency		....	....	....	0.65	....
			493.00	493.05	505.63	505.48
				493.00	505.48	
Errors in lat. and departure				0.05	0.15	

General Description.

This township is all mountainous, and the western part very rough. The soil, although shallow on a large area, is fertile and produces abundant vegetation.

The average altitude would probably be about 6000 ft. above the ocean.

Timber is found on every section; heaviest in the south and north western parts. Aspens predominate, next pines, then cedars and mahoganies. Ruthless fires have swept the timber years ago, and in places it is possible to walk on fallen timber over many acres of ground.

Water abounds, but the creeks have so much fall that there are but few, if any, chances for storing it.

There are two claimants to improvement; Mrs. Tassey Conrad, log frames and about 80 rods of fence, on N.E. 1/4 of sec. 7, value $150.

George D. Rich, a lumber cabin and about 1 mile of fence, on Sec. 18, value $300.

Note.- Later visits to this place show that the improvement has been considerably increased.

No well defined mineral land, and but little prospecting was noticed within the township.

Nephi P. Anderson,
U.S. Deputy Surveyor.

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BOOK A-363

C.

FIELD NOTES

OF THE SURVEY OF THE

East Boundary

of

Tp. 12 N., R. 3 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

Under his Contract No. 260, dated February 12, 1903.

Survey commenced July 28, 1904.

Survey completed July 29, 1904.

Res high 3-00-00 ✓

Retn 1-08-55 low

NAMES AND DUTIES OF ASSISTANTS.

Oscar Lee,	Chainman.
Rawson A. Lee,	Chainman.
Errol C. Valentine,	Moundman.
Linus Hansen,	Axman.
Alma Tingey,	Flagman.

For preliminary affidavits see book "A" S.Bdy.T.12 N. R.3 E.

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BOOK A-363

INDEX DIAGRAM.

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

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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page ....

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PRELIMINARY OATHS OF ASSISTANTS.

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

.....

.....*, Chainman.*

.....*, Chainman.*

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

.....

SEAL

.....

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

.....

.....*Moundman.*

.....*, Moundman.*

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

.....

SEAL

.....

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

.....

.....*, Axman.*

.....*, Axman.*

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

.....

SEAL

.....

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

.....*, Flagman.*

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

.....

SEAL

.....

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Resurvey of the East Boundary of Tp. 12 N., R. 3 E.

Chains	
	Survey commenced July 28, 1904, and executed with a W. and L. E. Gurley engineers transit, described in field notes of Resurvey of the south boundary of this Tp.
	At the cor. of secs. 19, 24, 25 and 30, on the east bdy. of the Tp., which is a sand stone, 6×9×8 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, at $11^{h}3^{m}4$ p. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined, by a tack driven in a wooden peg, set in the ground, five chains N. of my station. Latitude 41° 45' 11" N., longitude 111° 32' 39" W.
	July 28, 1904.
	July 29: At $7^{h}30^{m}$ a. m., l. m. t., I lay off the azimuth of Polaris 1° 37' to the west, and mark the meridian thus determined by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18° 2' W., which gives the magnetic dec. 18° 2' E.
	Knowing from previous retracements that some of the cors. N. of this cor. is missing I resurvey the line as follows:
	North bet. secs. 19 and 24.
	Over mountainous land, through timber and dense brush, ascend.
8.00	Spur, bears N. W. and S. E., descend.
14.10	Gulch, drains W., ascend.
33.50	Spur, bears W. and E., descend.
40.00	Set a sandstone, 16×9×6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	I find no traces of the old cor.

Resurvey of the East Boundary of Tp. 12 N., R. 3 E.

Chains	
58.25	Gulch, about 230 ft. deep, drains W., ascend.
61.00	Spur, projects N.W., descend.
64.30	Gulch, drains S.W., ascend.
69.00	Spur, bears N.W. and S.E., enter heavier pine timber, same bearing.
78.00	Head of hollow, drains S.W., pine timber scatters out; ascend.
80.00	I find the old sec. cor., loose and out of the ground, which I Reset, a sand stone, 18×7×6 ins., 12 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	A pine tree, 20 ins. diam., bears S. 20° 22' E., 236 lks. dist., marked T. 12 N., R. 4 E., S. 19, B.T.
	No more suitable bearing trees within limit.
	The new cor. sufficiently obliterate all traces of the old one.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, pines and aspens; undergrowth maple brush.
	Mountainous land and dense brush 80.00 chs.

	North bet. secs. 13 and 18.
	Over mountainous land, through dense brush.
	Ascend.
2.00	Spur, bears W. and E., descend.
11.00	Hollow, drains W., ascend.
26.00	Spur, bears W. and E., descend.
34.25	Gulch, drains W., Ascend.
40.00	Set a sandstone, 18×9×7 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Find no traces of the old cor.
45.60	Spur, bears E. and W., descend.
52.75	Brook, 2 lks. wide, 1 in. deep, flows S.W. in hollow.
	Ascend in hollow.
59.30	Recross brook, 2 lks. wide, 1 in. deep, flows S.E.
70.80	Recross same brook, 2 lks. wide, flows S.W.
80.00	In dense laurel brush.

Resurvey of the East Boundary of Tp. 12 N., R. 3 E.

Chains	
	I search diligently for the old cor., but find no traces of it.
	Set a quartz stone, 17×8×4 ins., 12 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly, rich, 3rd rate.
	Timber, young aspens and pines; undergrowth maple brush
	Mountainous and dense brush 80.00 chs.
	North bet. secs. 7 and 12.
	Over mountainous land, through dense brush, ascending.
30.50	Road bet. Logan and Bear Lake Valley, bears W. and E., on ridge, same bearings; telepone line on N. side of road, bet. same points
	Descend and enter pines.
40.00	I find the old ¼ sec. cor., which is a lime stone, 6×10×4 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
45.00	Hollow heads to N. E.
	Live pines and descend on eastern slope.
70.00	Descend on precipitous slope among pines
80.00	I search diligently and find the old cor. stone, slid down hill about 35 lks; which I reset, a limestone, 18×8×6 ins., 12 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	A point of a limestone ledge, 2 ft. above ground, bears S. 54° 10' W., 30 lks. dist., marked with a cross and T. 12 N., R. 3 E., S. 12, B. C.
	A pine, 8 ins. diam., bears N. 60° 40' W., 78 lks. dist., marked T. 12 N., R. 3 E., S. 1, B. T.
	No other trees within limit.

Resurvey of the East Boundary of Tp. 12 N., R. 3 E.

Chains	
	Land, mountainous.
	Soil, gravelly and rocky, 3rd and 4th rates.
	Timber, pines, aspens and maples; undergrowth maple bush
	Mountainous land, dense brush and timber 80.00 chs.
	North bet. secs. 1 and 6.
	Over mountainous land, through dense brush and timber, descend.
4.00	Old drag road, in hollow draining N. W.
20.00	A spring of pure water, flowing about 7 sec. ft., bears W., 4.50 chs. dist., stream flows N. W.
23.00	An old, abandoned saw mill site bears W., about 6 chs. dist.
28.50	Old road, bears S. W. and N. E.
31.00	Temple Fork, 10 lks. wide, 10 ins. deep, flows S. W.
31.50	Ascend abruptly on rocky slope, through mahoganies, cedars and pines.
40.00	I find the old 1/4 sec. cor., which is a limestone, 6×11×6 ins above ground, firmly set, marked and witnessed as described by the surveyor general.
88.55	Intersect the Third Standard Parallel North at the closing cor. of Tps. 12 N., Rs. 3 and 4 E., which is a limestone, 7×9×6 ins. above ground, marked and witnessed as described by the surveyor general. Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, aspens, cedars, and pines; undergrowth sage and maple bush
	Mountainous land and dense brush 88.55 chs.
	Elevation by aneroid barometer 7300 ft.
	July 29, 1904.
	Nephi P. Anderson,
	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 .....

.....

howing the respective capacities in which they acted:

..... *Chainman.*

For list of names and final oaths of assistants see book "J" *Chainman.*

S.Bdy.T. 12 N., R. 2 E. ..... *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 neral for .....

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

.....

bscribed 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 .....

For final affidavits see book "J" S.Bdy.T. 12 N., R. 3 E.

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

United States Deputy Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah. June 7, 190 5.

The foregoing field notes of the resurvey of the East Boundary of Township No. 12 North, Range No. 3 East of the Salt Lake Base and Meridian, Utah.

executed by Nephi P. Anderson under his contract No. 260, dated February 12, 190 3, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

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

United States Surveyor General.

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BOOK A-363

D.

FIELD NOTES

OF THE Re SURVEY OF THE

Third Standard Parallel North, R. 4 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

Under his Contract No. 260, dated February 12, 1903.

Survey commenced July 29, 1904

Survey completed July 30, 1904.

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Res. high 30 chs - 30 chs ✓

Clay 4 - 50 ✓

NAMES AND DUTIES OF ASSISTANTS.

George R. Freeman, Chainman,

John S. Christensen, Chainman,

Oscar Lee, Chainman,

Eli Christensen, Chainman,

Linus Hansen, Moundman,

Owen Cheney, Axman,

Anna Tingey, Flagman.

BOOK A-363

INDEX DIAGRAM.

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31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, George R. Freeman, John S. Christensen and Oscar Lee and Eli Christensen do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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 ~~re~~ survey of The Third Standard Parallel North, R. 4 E., Salt Lake Base and Meridian, Utah.

George R Freeman, John S. Christensen, Chainman.

Oscar Lee, Eli Christensen, Chainman.

Subscribed and sworn to before me this 28 day of July, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

~~WE,~~ I, Linus Hansen and ~~—~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the ~~re~~ survey of The Third Standard Parallel North, R. 4 E., Salt Lake Base and Meridian, Utah.

Linus Hansen, Moundman.

, Moundman.

Subscribed and sworn to before me this 28 day of July, 1904

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

~~WE,~~ I, Owen Cheney 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 ~~re~~ survey of The Third Standard Parallel North, R. 4 E., Salt Lake Base and Meridian, Utah.

Owen Cheney, Axman.

, Axman.

Subscribed and sworn to before me this 28 day of July, 1904

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

I, Alma Tingey, 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 ~~re~~ survey of The Third Standard Parallel North, R. 4 E., Salt Lake Base and Meridian, Utah.

Alma Tingey, Flagman.

Subscribed and sworn to before me this 28 day of July, 1904

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

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Resurvey of the Third Standard Parallel North, R. 4 E.

Chains	
	Survey commenced July 29, 1904, and executed with a W. and L. E. Gurley engineers transit, described in the field notes of the resurvey of south bdy. of this Tp.
	I begin at the closing cor. of Tp. 12 N., Rs. 3 and 4 E.; which is a lime stone, 7×9×6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	At a point 2.98 ft. south of said corner, in latitude 41°48'40" N., longitude 111°32'59" W., at 10h 59m.5 p. m., l. m. t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined, by a tack driven in a wooden peg set in the ground, five chains north of my station.
	July 30, 1904: At 6h 15m a. m., l. m. t., I lay off the azimuth of Polaris 1°37' to the west, and mark the true meridian thus determined, by by cutting a mark on a stone firmly set in the ground, west of the point established last night.
	The magnetic bearing of said true meridian is N. 18°1' W., which gives the magnetic declination 18°1' E.
	At this station (i.e. 2.98 ft. south of the closing township cor.) I turn from the meridian an angle of 89°57'.7 toward the west and run
	N. 89°57'.7 W., on the secant, S. of sec. 31, R. 4 E.
	Over mountainous land, through brush and mahoganies, descending.
28.53	After diligent search no signs of the old cor. are found.
28.29 ~~30.30~~	Flag at the standard cor. of Tps. 13 N., R. 3 E., bear north.
	Difference between measurements of 30.30 chs. by two sets of chainmen is 4 lks.; position of middle point
	By 1st set, 30.32 chs.,
	By 2nd set 30.28 chs., the mean of which is
28.29 ~~30.30~~	N. 1.74 ft. from the secant.
	Set temp. cor.
	Thence I run

See page 27 Book "K"

	Chains	
		North on W. bdy. of sec. 31, R. 4 E.
page 19 K "K"	4.62 ~~4.50~~	Intersect the standard cor. of Tps. 13 N., R. 3 E., which is a limestone, 9×8×5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
		Thence I run
		South on W. bdy. of sec. 31, R. 4 E., and at
page 20 K "K"	4.62 ~~4.50~~	Set a limestone, 17×7×6 ins., 12 ins. in the ground, for standard cor. of Tps. 13 N., R. 4 E., marked with 6 notches on N. and E. edges, S. C. T. 13 on N. E. and R. 4 E. on S. E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
		Land, mountainous.
		Soil, rocky, 4th rate.
		Timber, mahoganies and cedars.
		Mountainous land 30.30 chs.
		July 30, 1904.
		Nephi P. Anderson,
		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 Nephi P. Anderson, 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 Third Standard Parallel North, R. 4 E, Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

George R. Freeman, John S. Christensen, Chainman.
Oscar Lee, Eli Christensen, Chainman.
Linus Hansen, Moundman.
[illegible], Moundman.
Owen Cheney, Axman.
[illegible], Axman.
Alma Tingey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson, United States Deputy Surveyor, in surveying all those parts or portions of the Third Standard Parallel North, R. 4 E. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for the State of Utah.

George R Freeman, John S. Christensen, Chainman.
Oscar Lee, Eli Christensen, Chainman.
Linus Hansen, Moundman.
[illegible], Moundman.
Owen Cheney, Axman.
[illegible], Axman.
Alma Tingey, Flagman.

Subscribed and sworn to before me this 30 day of July, 1904

SEAL

Nephi P. Anderson,
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward W. Anderson, United States Surveyor General for the State of Utah, bearing date of the 12 day of February, 1903, 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 State of Utah, the Manual of Surveying Instructions, and the laws of the United States, re surveyed all those parts or portions of Third Standard Parallel North, R. 4 E.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been re surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said re 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 the State of Utah 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.

Nephi P. Anderson,
United States Deputy Surveyor.

Subscribed by said Nephi P. Anderson, and sworn to before me this 14 day of January, 1908.

SEAL

W. D. Valentine
Clerk of District Court

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 9, 1908.

The foregoing field notes of the re survey of the Third Standard Parallel North through Range No. 4 East of the Salt Lake Base and Meridian, Utah,

executed by Nephi P. Anderson under his contract No. 260, dated February 12, 1893, 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-363

E.

FIELD NOTES

OF THE SURVEY OF THE

West Boundary of Tp. 12 N., R. 3 E.

Of the Salt Lake Base and Meridian,

State of Utah,

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

Under his Contract No. 260, dated February 12, 1903.

Survey commenced August 19, 1904.

Survey completed November 15, 1907.

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high 6-13-02 ✓

Closing 5-52 ✓

NAMES AND DUTIES OF ASSISTANTS.

George R. Freeman,	Chainman,
Alf L. Freeman,	Chainman,
Linus Hansen,	Moundman,
Owen Cheney,	Axman,
Alma Tingey,	Flagman.

Linus Hansen,	Chainman,
William N. Lee,	Chainman,
Harry L. Freeman,	Moundman,
Errol C. Valentine,	Axman,
Alma Tingey,	Flagman.

BOOK A-363

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, George R. Freeman and Alf L. Freeman 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 West Bdy. of Tps. 12 N., R. 3 E., Salt Lake Base and Meridian, Utah

George R. Freeman, Chainman.
Alf. L. Freeman, Chainman.

Subscribed and sworn to before me this 18 day of August, 1904.

SEAL

Nephi P. Anderson
U. S. Deputy Surveyor.

I ~~WE~~, Linus Hansen ~~and~~ do solemnly swear that I ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me ~~us~~, to the best of my ~~our~~ skill and ability, in the survey of West Bdy. of Tps. 12 N., R. 3 E., Salt Lake Base and Meridian, Utah

Linus Hansen, Moundman.
, Moundman.

Subscribed and sworn to before me this 18 day of August, 1904

SEAL

Nephi P. Anderson
U. S. Deputy Surveyor.

I ~~WE~~, Owen Cheney ~~and~~ do solemnly swear that I ~~we~~ will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given me ~~us~~, to the best of my ~~our~~ skill and ability, in the survey of West Bdy. of Tps. 12 N., R. 3 E., Salt Lake Base and Meridian, Utah.

Owen Cheney, Axman.
, Axman.

Subscribed and sworn to before me this 18 day of August, 1904.

SEAL

Nephi P. Anderson
U. S. Deputy Surveyor.

I, Alma Tingey, 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 West Bdy. of Tps. 12 N., R. 3 E., Salt Lake Base and Meridian, Utah.

Alma Tingey, Flagman.

Subscribed and sworn to before me this 18 day of August, 1904

SEAL

Nephi P. Anderson
U. S. Deputy Surveyor.

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INDEX DIAGRAM.

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Meanders Page ....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Linus Hansen and William N. Lee

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 West Bdy. of Tp. 12 N., R. 3 E., Salt Lake Base and Meridian, Utah.

Linus Hansen, Chainman.

William N. Lee, Chainman.

Subscribed and sworn to before me this 15 day of November, 1907

Nephi P. Anderson
U. S. Deputy Surveyor.

SEAL

I ~~WE~~, Harry L. Freeman ~~and~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us,~~ me to the best of ~~our~~ my skill and ability, in the survey of West Bdy. of Tp. 12 N., R. 3 E., Salt Lake Base and Meridian, Utah.

Harry L. Freeman, Moundman.

, Moundman.

Subscribed and sworn to before me this 15 day of November, 1907.

Nephi P. Anderson
U. S. Deputy Surveyor.

SEAL

I ~~WE~~, Errol C. Valentine ~~and~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us,~~ me to the best of ~~our~~ my skill and ability, in the survey of West Bdy. of Tp. 12 N., R. 3 E., Salt Lake Base and Meridian, Utah.

Errol C. Valentine, Axman.

, Axman.

Subscribed and sworn to before me this 15 day of November, 1907

Nephi P. Anderson
U. S. Deputy Surveyor.

SEAL

I, Alma Tingey, 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 West Bdy. of Tp. 12 N., R. 3 E., Salt Lake Base and Meridian, Utah.

Alma Tingey, Flagman.

Subscribed and sworn to before me this 15 day of November, 1907.

Nephi P. Anderson
U. S. Deputy Surveyor.

SEAL

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West Boundary of Tp. 12 N. R. 3 E.

Chains	
	Survey commenced August 19, 1904, and executed with a W. and L. E. Gurley engineers transit, described in bk. D of this survey.
	The elevations are taken from an aneroid barometer, also herein before described.
	At the cor. of Tps. 11 and 12 N. Rs. 2 and 3 E., which is a sandstone, 6×9×8 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	At 9h 37m 3s p. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground, 5 chs. N. of my station.
	Latitude 41° 43' 27" N., longitude 111° 39' 55" W.
	August 19, 1904.
	August 20: At 6h 40m a. m., l. m. t., I lay off the azimuth of Polaris 1° 37' to the west, and mark the true meridian thus determined by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18° 2' W., which gives the magnetic declination 18° 2' E.
	Thence I run
	North bet. secs. 31 and 36.
	Over mountainous land, through dense aspens.
40.00	Set a sandstone, 17×9×5 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
40.00	Descend abruptly a northern slope.
80.00	Set a limestone, 22×8×7 ins., 17 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.

West Boundary of Tp. 12 N., R. 3 E.

Chains	Land, mountainous. Soil, gravelly and rocky, 3rd rate. Timber, aspens, undergrowth, dense aspen brush. Mountainous land, or dense undergrowth 80.00 chs.
	North bet. secs. 25 and 30. Over mountainous land, through dense brush, descending.
15.00	Canyon, drains N.E., drag road, same bearing, ascend.
40.00	Set a sand stone, 15×10×6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
42.50	Ridge, bears W. and S., elevation 6540 ft., enter pines and descend.
66.00	Canyon, drains N.E., elevation 5800 ft., ascend.
76.00	Spur, bears S. W. and N.E., leave pines.
80.00	Set a limestone, 14×8×6 ins., 10 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable. Land, mountainous, Soil, rocky, 3rd rate. Timber, pines, undergrowth, dense sage brush. Mountainous land or dense undergrowth 80.00 chs.
	North bet. secs. 19 and 24. Over mountainous land, descend among cliffs, cedars and pines.
20.00	Creek, 2 ft. wide, 2 ins. deep, flows N.W., elevation 5700 ft., ascend.
32.00	Road, bears N.W. and S.E.
40.00	Ravine, drains S.W., cliff in place. Cut a cross (x) at exact corner point, and figure it, 3 ft. above ground, on W. face of a cliff, 2 ft. high, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.

West Boundary of Tp. 12 N., R. 3 E.

Chains	
44.00	Spur, bears S.W. and N.E.
50.00	Descend abruptly among crags.
55.50	South bank of Logan River, flows S.W.
56.20	North bank of Logan River
57.30	Road, bet. Logan City and Bear Lake Valley, bears S.W. and N.E., telephone line on N. side bet. same points
61.50	Enter cliffs and ascend abruptly.
67.50	Top of cliffs, 90 ft. high, bears S.W. and N.E., ascend gradually.
80.00	On ridge, bears N.W. and S.E.
	Set a limestone, 16×6×6 ins., 11 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on S. and N. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, cedars and pines; undergrowth maple brush
	Mountainous land 80.00 chs.
	At this cor. at 9h 33m 3 p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instruction in the Manual, and mark a point in the line thus determined, by a tack, driven in a wooden peg, set in the ground, 5 chs. N. of my station. Latitude 41° 46′ 23″ N, longitude 111° 39′ 55″ W.
	August 20, 1904.
	August 21, at 6h 30m a.m., l.m.t., I lay off the azimuth of Polaris 1° 37′ to the west, and mark the true meridian thus determined by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 17° 58′ W., which gives the magnetic declination 17° 58′ E.
	Thence I run
	North bet. secs. 13 and 18.
	Over mountainous land.

West Boundary of Tp. 12 N., R. 3 E.

Chains	
	Descend gradually among timber.
6.00	Gulch, drains S.E.
13.00	Spur, bears N.W. and S.E., descend.
28.00	Hollow, drains S.E., ascend.
38.00	Leave ascend, enter upon ridge.
40.00	Set a limestone, 17×9×6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
41.30	Ridge, bears N.W. and S.E., elevation 7550 ft. Descend.
57.00	Hollow, drains S.E., ascend.
78.50	Ridge, bears S.W. and N.E., descend.
80.00	Set a limestone, 15×10×7 ins., 10 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, aspens and pines; undergrowth, dense sagebrush
	Mountainous land 80.00 chs.

	North bet. secs. 7 and 12.
	Over mountainous land, descend through dense brush and timber.
16.00	Canyon, drains N.E., elevation 5860 ft. Ascend.
26.00	Spur, bears N.W. and S.E., descend.
40.00	In hollow, drains S.E.
	Set a limestone, 16×9×5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable;
	Ascend.
46.00	Ridge, bears N.W. and S.E.
50.50	Descend over limestone ledges.
63.00	Canyon, drains S.E.; small brook 16 chs. up canyon; ascend.

West Boundary of Tp. 12 N., R. 3 E.

Chains.	
80.00	Set a sandstone, 17×8×6 ins., 12 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable. Land, mountainous. Soil, gravelly and rocky, 4th rate. Timber, aspens, maple, mahoganies and pines; undergrowth, maple brush. Mountainous land 80.00 chs. August 21, 1904.
	November 15, 1907. At the cor. of secs. 1, 6, 7 and 12, at 3h 50m a. m., l. m. t., I observe Polaris at western elong. in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground, 5.00 chs. N. of my station. Latitude 41° 47′ 47″ N, longitude 111° 39′ 55″ W. At 8h 10m a. m., l. m. t., I lay off the azimuth of Polaris, 1° 36′, to the east, and mark the true meridian thus determined by a cross on a stone, firmly set in the ground, east of the point established last night. The magnetic bearing of the true meridian is N. 18° W., which gives the magnetic declination 18° E. At 8h 45m a. m., l. m. t., I set off 41° 47′ 47″ on the lat. arc, 18° 17′ S. . . ., on the decl. arc, and mark the true meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.4 in. east of the meridian established by the Polaris observation. The solar apparatus, by a. m. observation, defines position for the meridian about 21″ east of the Polaris observation; therefore

West Boundary of Tp. 12 N., R. 3 E.

Chains	
	I conclude that the adjustments of the instrument are satisfactory.
	Thence I run
	North bet. secs. 1 and 6.
	Over mountainous land, through brush, ascending
7.50	Ridge, bears N.W. and S.E., elevation 6700 ft., descend over limestone ledges.
38.00	Canyon, drains S.E., elevation 5680 ft.
40.00	Set a sandstone, 17×8×7 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
42.00	Dragroad, bears N.W. and S.E.
43.50	Ascend, leave limestone ledges.
75.00	Ridge, bears N.W. and S.E., descend over limestone ledges
81.50	Canyon, drains S.E.
90.02	Intersect the Third Standard Parallel North.
	Set a limestone, 18×7×6 ins., 12 ins. in the ground, for closing cor. of Tp. 12 N., Rs. 2 and 3 E., marked C C on S., with 6 grooves on S., W. and E. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky 4th rate.
	Timber, cedars, mahoganies and few pines, undergrowth, sage and maple brush.
	Mountainous land 90.02 chs. Thence I run
	S. 89°48' W., along the Third Standard Parallel North, and at
5.52	Intersect the standard cor. of Tp. 13 N., Rs. 2 and 3 E., herein before described.
	Nov. 15, 1907.

For general description see notes of subdivisions.

Nephi P. Anderson,
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 Nephi P. Anderson, 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 West Bdy. of Tp. 12 N., R. 3 E., Salt Lake Base and Meridian, Utah. showing the respective capacities in which they acted:

George R. Freeman ..... Chainman.
Alf L. Freeman ..... Chainman.
Linus Hansen ..... Moundman.
..... Moundman.
Owen Cheney ..... Axman.
..... Axman.
Alma Tingey ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson, United States Deputy Surveyor, in surveying all those parts or portions of the West Bdy. of Tp. 12 N., R. 3 E. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for the State of Utah.

George R. Freeman ..... Chainman.
Alf L. Freeman ..... Chainman.
Linus Hansen ..... Moundman.
..... Moundman.
Owen Cheney ..... Axman.
..... Axman.
Alma Tingey ..... Flagman.

Subscribed and sworn to before me this 21 day of August, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

BOOK A-363

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for the State of Utah, bearing date of the 12 day of February, 1903, 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 State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of West Bdy. of Tp. 12 N., R. 3 E.

(Void) Nephi P. Anderson

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

Nephi P. Anderson,
United States Deputy Surveyor.

Subscribed by said Nephi P. Anderson, and sworn to before me this 14 day of January, 1908.

W. J. Valentine
Clerk of District 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.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Nephi P. Anderson, 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 West Bdy. of Tps. 12 N., R. 3 E., Salt Lake Base and Meridian, Utah, owing the respective capacities in which they acted:

Linus Hansen, *Chainman.*
William N. Lee, *Chainman.*
Harry L. Freeman, *Moundman.*
[illegible], *Moundman.*
Errol C. Valentine, *Axman.*
, *Axman.*
Alma Tingey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson, United States Deputy Surveyor, in surveying all se parts or portions of the West Bdy. of Tps. 12 N., R. 3 E. of the Salt Lake 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 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 the State of Utah.

Linus Hansen, *Chainman.*
William N. Lee, *Chainman.*
Harry L. Freeman, *Moundman.*
, *Moundman.*
Errol C. Valentine, *Axman.*
, *Axman.*
Alma Tingey, *Flagman.*

scribed and sworn to before me this 15 day of November, 1907.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

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BOOK A-363

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward E. Anderson, United States Surveyor General for the State of Utah, bearing date of the 12 day of February, 1903, 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 State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of West Bdy. of Tp. 12 N., R. 3 E.,

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

Nephi P. Anderson,
United States Deputy Surveyor.

Subscribed by said Nephi P. Anderson, and sworn to before me this 14 day of January, 1908.

N. J. Valentine
Clerk of District Court

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 9, 1908

The foregoing field notes of the survey of the West Boundary of Township No. 12 North, Range No. 3 East of the Salt Lake Base and Meridian, Utah

executed by Nephi P. Anderson under his contract No. 260, dated February 12, 1903, 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-363

J.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision
of
Tps. 12 N. R. 2 E.

Of the Salt Lake Base and Meridian,
State of Utah

AS SURVEYED BY

Stephen P. Anderson, United States Deputy Surveyor,
under his Contract No. 260, dated February 12, 1903.
Survey commenced August 29, 1904.
Survey completed November 17, 1907.

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Book A-363

NAMES AND DUTIES OF ASSISTANTS.

George R. Freeman,	Chainman.
Oscar Lee,	Chainman.
Rawson A. Lee,	Moundman.
Errol C. Valentine,	Axman,
Linus Hansen,	Flagman.
Linus Hansen,	Chainman,
William N. Lee,	Chainman,
Harry L. Freeman,	Moundman,
Errol C. Valentine,	Axman,
Alma Tingey,	Flagman.

For preliminary affidavits see book "E" T. 12 N., R. 3 E.

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BOOK A-363

INDEX DIAGRAM.

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31	32	33	34	35	36

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 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

.....

.....

Subdivision of Tp. 12 N., R. 2 E.

Chains	
	Survey commenced August 29, 1904, and executed with a W. and L. E. Gurley engineer's transit, described in the field notes of Resurvey of S. Bdy. of Tp. 12 N., R. 3 E.
	The aneroid barometer, from which the elevations are taken, is also therein described.
	I commence at the cor. of Tps. 11 and 12 N., Rs. 2 and 3 E., which is a sandstone, 6×9×8 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, at which cor. I made an observation on Polaris August 19 (See W. bdy. of this Tp.), and from the meridian mark, still standing, I turn off an angle of 90° toward the west, and run
	West bet. secs. 1 and 36.
	Over mountainous land, through dense aspens, ascending.
10.00	Dividing ridge bet. Logan River and Blacksmith Fork drainage basins, bears N. W. and S. E., elevation 8570 ft.
30.00	Recross same ridge, now bearing S. W. and N. E., descend.
40.06	N. 13 lks. I find the old 1/4 sec. cor., which is a limestone, 6×10×5 ins., firmly set, marked and witnessed as described by the surveyor general.
48.00	Hollow heads to the N. E., ascend.
80.04	28 lks N. I find the old cor. stone, laying loose on the ground. To relocate it I run from the old bearing tree, an aspen, 9 ins. diam., marked T. 12 N., R. 2 E., S. 36 B. T., S. 58° 26' W., 67 lks. From this point an aspen, 7 ins. diam. bears N. 68° 34' W., 20 lks., distant, marked T. 11 N., R. 2 E., S. 35, B. T., and an aspen, 7 ins. diam., bears S. 76 1/2° W., 35 lks. dist., marked T. 11 N., R. 2 E., S. 2, B. T. This is a fair agreement with the old field notes and shows that the stone was laying near where it was set originally, I therefore reset the cor.
	A sandstone, 17×8×6 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked with 5 notches on W. and 1 notch on E. edge, with bearing trees as described by the survey-

Chains.

on general.

My chaining practically agrees with the fieldnotes of the original survey, but the bearing of the line bet. Tps. 11 and 12 N., R. 2 E., from the fallings, would be N. 89° 48' W.

At this cor. at 8h 58m p. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station.

Latitude 41° 43' 27" N., longitude 111° 41' 04" W.

August 29, 1904.

August 30: At 7h 25m a. m., I lay off the azimuth of Polaris 1° 37' to the west, and mark the true meridian, thus determined, by a cross on a stone, firmly set in the ground, west of the point established last night.

The magnetic bearing of the true meridian is N. 18° W., which gives the magnetic declination 18° E.

Thence I run

N. 0° 1' W. bet. secs. 35 and 36.

Over mountainous land, ascend through timber.

16.00 Spur, bears S. W. and N. E., descend.

37.00 Hollow, heads to the N. E., ascend.

40.00 Set a limestone, 16×9×9 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.

56.00 Spur, bears S. W. and N. E.; thence along western slope over limestone ledges.

80.00 Set a limestone, 17×7×5 ins., 12 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. edges, and a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable. Elevation 8540 ft.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, pines and aspens.

Subdivision of Tp. 12 N., R. 2 E.

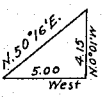
Chains	
	Mountainous land 80.00 chs.
	S. 89° 48' E., on random line, bet. secs. 25 and 36.
	Over mountainous land, ascending.
40.00	Set temp. 1/4 sec. cor.
80.26	Intersect the east bdy. of the Tp. 5 lks. S. of the cor. of secs. 25, 30, 31 and 36, herein before described.
	Thence Run
	N. 89° 50' W., on true line, bet. secs. 25 and 36.
	Over mountainous land, through dense dense brush, descend.
31.00	Canyon, drains N. E.; old woodroad along bottom, elevation 6350 ft., ascend through timber.
40.13	Set a limestone, 14 x 8 x 7 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
72.50	Ridge, bears N. and S., descend.
80.26	The cor. of secs. 25, 26, 35 and 36.
	Land, mountainous.
	Soil, gravelly and rocky, 4th rate.
	Timber, Pines and aspens; undergrowth, maple brush.
	Mountainous land 80.26 chs.
	N. 0° 1' W. bet. secs. 25 and 26.
	Over mountainous, precipitous land.
	Descending, through timber
22.00	Head of hollow, drains N. W.
40.00	Set a limestone, 15 x 9 x 8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
64.50	Limestone cliffs, 40 ft. high, bears W. and E.
80.00	Set a limestone, 18 x 11 x 4 ins., 12 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, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 4th rate.

Chains	
	Timber, pines, maple and cedars.
	Mountainous land 80.00 chs.
	At this cor. at $8^h 54^m.2$ p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instruction in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station.
	Latitude 41°45'11" N., longitude 111°41'04" W.
	August 30, 1904.
	August 31: At $7^h 40^m$ a.m., l.m.t., I lay off the azimuth of Polaris 1°37' to the west, and mark the true meridian, thus determined, by a cross on a stone, firmly set in the ground, west of the point, established last night.
	The magnetic bearing of the true meridian is N. 18°2' W., which gives the magnetic declination 18°2' E. Thence I run
	S. 89°50' E., on random line, bet. secs. 24 and 25.
40.00	Set temp. 1/4 sec. cor.
80.08	Intersect the east bdy. of the Tp. at the cor. of secs. 19, 24, 25 and 30. Thence I run
	N. 89°50' W., on true line, bet. secs. 24 and 25.
	Over mountainous land; ascend in timber.
21.00	Spur, bears N. E. and S. W.
39.40	Hollow, drains N.
40.04	Set a limestone, 15×9×7 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
55.00	Hollow, drains N. E., ascend.
73.50	Precipitous spur, bears S. and N.
	Descend abruptly.
80.08	The cor. of secs. 23, 24, 25 and 26. Elevation 6750 ft.
	Land, mountainous.
	Soil, gravelly and rocky, 4th rate.
	Timber, pines, cedars and maple.
	Mountainous land 80.08 chs.

Subdivision of Tp. 12 N., Rg. 2 E.

Chains	
	N. 0° 1' W., bet. secs. 23 and 24.
	Over mountainous land, through dense mahogany brush; descending through timber
13.00	Descend abruptly, leave dense brush.
39.47	South bank of Logan River, 24 ins. deep, flows S. W.
40.00	North bank of river, in dense willows.
	Set a limestone, 17 x 6 x 5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 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, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
41.00	Road, bet. Logan City and Bear Lake Valley, bears S. W. and N. E.; Telephone along N. side, leave willows, elev. 5240 ft. Ascend.
80.00	Set a sandstone, 13 x 10 x 5 ins., 9 ins. in the ground, for cor. of secs. 13, 14, 23 and 24. marked with 3 notches on S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor, pits impracticable. Elevation 6130 ft.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, mahoganies and pines, undergrowth maple brush.
	Mountainous land 80.00 chs.
	S. 89° 50' E., on random line, bet. secs. 13 and 24
40.00	Set temp. 1/4 sec. cor.
80.31	Intersect the east bdy. of the Tp. 8 lks. S. of the cor. of secs. 13, 18, 19 and 24, herein before described. Thence I run
	N. 89° 53' W., on true line, bet. secs. 13 and 24.
	Over mountainous land; descending through timber.
16.50	Small hollow, drains S. E.
25.00	Main hollow, drains S. E., ascend.
40.15 1/2	Set a limestone, 20 x 6 x 5 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
47.00	Spur bears S. E., elevation 5610 ft., descend.
66.50	Hollow, drains S., ascend.
72.50	Spur, bears N. W. and S. E.

Chains	
79.70	Top of cliffs, 30 ft. high, facing S.E.
80.31	Niche, W. of cliffs. The cor. of secs. 13, 14, 23 and 24.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, mahognies.
	Mountainous land 80.31 chs.
	2 chs. S. of this cor., at 8h 50m 3 p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instruction in the Manual, and mark a point in the line thus determined, on a rock on top of cliffs, about 5 chs. N. of my station.
	Latitude 41°46'03" N., longitude 111°41'04" W.
	August 31, 1904.
	September 1: At 7h 40m a.m., l.m.t., I lay of the azimuth of Polaris 1°37' to the west, and mark the true meridian, thus determined, by a cross on a stone, firmly set in a mound of stone, on top of cliffs, and set a flag by it N. 0°1' W.
	The magnetic bearing of the true meridian is N. 18°1' W., which gives the magnetic declination 18°1' E.
	Thence I run west 5 chs. for a base. Flag then bears N. 50°16' E.. Nat. cot. 83120 × 5 = 4.15 chs.
	N. 0°1' W. bet. secs. 13 and 14.
	Over mountainous land, ascend on cliffs, through timb
4.15	Top of cliffs, bearing E. and W., 70 ft. high.
40.00	Set a limestone, 16 × 10 × 5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable
80.00	On south slope of ridge, bearing E. and W.
	Set a limestone, 14 × 7 × 7 ins., 13 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked with 4 notches on S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable. Elevation 7850 ft.
	Land, mountainous.
	Soil, rocky, 4th rate.



Chains	
	Timber, cedars and maple.
	Mountainous land, 80.00 chs.
	S. 89°53' E., on random line, bet. secs. 12 and 13.
40.00	Set temp. 1/4 sec. cor.
80.10	Intersect the east bdy. of the Tp. 15 lks. N. of the cor. of secs. 7, 12, 13 and 18, herein before described.
	Thence I run
	N. 89°47' W., on true line, bet. secs. 12 and 13.
	Over mountainous land, on N. side of ridge, ascending through timber.
40.05	Set a limestone, 17×8×6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
64.00	Ridge, bears N. W. and S. E.
80.10	The cor. of secs. 11, 12, 13 and 14.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, maples and pines, undergrowth maple brush
	Mountainous land, 80.10 chs.
	N. 0°1' W., bet. secs. 11 and 12.
	Over mountainous land, escending.
2.50	Ridge, bears N. W. and S. E., descend through timber
20.50	Hollow, drains E., ascend.
36.00	Ridge, bears E. and W., descend.
40.00	Set a sandstone, 15×10×9 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
51.50	Hollow, drains E., ascend.
60.00	Ridge, bears E. and W. descend.
67.20	Hollow, drains E., ascend.
80.00	On ridge, bears N. W. and S. E.
	Set a limestone, 14×8×6 ins., 10 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 5 notches on S. and 1 notch on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, mountainous.

Subdivision of Tp. 12 N., R. 2 E.

Chains	Soil, gravelly and rocky, 4th rate.
	Timber, cedars, pines and maple.
	Mountainous land, 80.00 chs.
	At this cor. at 8h 46m 4 p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line, thus determined, by a tack driven in a wooden peg set in the ground, 5 chs N. of my station.
	Latitude 41°47'47"N; longitude 111°41'04" W.
	Sep. 1, 1904.
	September 2:- At 7h 35m a.m., l.m.t., I lay off the azimuth of Polaris 1°37' to the west, and mark the true meridian thus determined, by a cross on a stone, firmly set in the ground, 5 chs. N. of my station
	The magnetic bearing of the true meridian is N. 17°58' W., which gives the magnetic declination 17°58' E.
	S. 89°47' E., on random line, bet. secs. 1 and 12.
40.00	Set templ. 1/4 sec. cor.
80.00	Intersect the east. bdy. of the Tp. 5 lks. S. of the cor. of secs. 1, 6, 7 and 12, herein before described.
	Thence I run
	N. 89°49' W., on true line, bet. secs. 1 and 12.
	Over mountainous land, through dense brush, descending.
32.00	Hollow, drains S.E., ascend
36.00	Leave dense brush.
40.00	Set a limestone, 16 × 7 × 5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
80.00	The cor. of secs. 1, 2, 11 and 12.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Undergrowth, sage and maple brush.
	Mountainous land or dense brush 80.00 chs.
	September 2, 1904.
	Nov. 16, 1907: At this cor. at 8h 45m a.m., l.m.t., I set off 41°48' on the lat. arc, 18°32' S. on the decl. arc, and determine the true meridian with the solar. (For description and test see book "K" this survey.) Knowing that I can not

Chains	
	intersect the 3rd St. Par. N. within the closing limit. Run
	N. 0° 1' W., on true line, bet. secs. 1 and 2:
	Over mountainous land; descend through timber.
15.00	Hollow, drains S.E., ascend.
40.00	Set a limestone, 13×8×6 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable
89.37	Intersect the Third Standard Parallel North.
	Set a limestone, 16×8×6 ins., 11 ins. in the ground, for closing cor. of secs. 1 and 2, marked C.C. on S., with 5 grooves on W. and 1 groove on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. S. of cor., pits impracticable. Elev. 9500 ft.
	Land, mountainous,
	Soil, gravelly and rocky, 4th rate.
	Timber, maple, mahoganies and pines.
	Mountainous land 89.37 chs.
	Thence Run
	S. 89° 48' W., on Third Standard Parallel North,
	Over mountainous land. Ascend
5.48	Intersect the standard cor. of secs. 35 and 36, Tp. 13 N., R. 2 E., herein before described
	Mountainous 5.48 chs.
	November 16, 1907.

September 3.

At the cor. of secs. 2, 3, 34 and 35, on S. bdy. of the Tp., which is a limestone, 5×8×6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, at $8^h 38^m 6^s$ p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground, 5 chs. N. of my station.

Latitude 41° 43' 27" N., longitude 111° 42' 13" W.

September 3, 1904.

Chains	
	September 4: At 7h 20m a.m., l.m.t., I lay off the azimuth of Polaris 1°37' to the west, and mark the true meridian thus determined, by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18°1' W., which gives the magnetic declination 18°1' E.
	Thence I run
	N. 0°2' W. bet. secs. 34 and 35.
	Over mountainous land and cliffs, through timber, ascend.
9.00	Ridge, bears N. W. and S. E., elevation 8900 ft. Descend.
40.00	Set a limestone, 17×6×6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
59.00	Cliffs 70 ft. high, bears N. W. and S. E.
61.00	Drag road, bears N. W. and S. E.
68.00	Canyon, drains N.W., has enormous masses of rocks, broken by glacial action, ascend.
80.00	Set a limestone, 16×7×4 ins., 11 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable. Elevation 7550 ft.
	This cor. stands on a ridge bearing E. and W.
	Land, mountainous.
	Soil, gravelly and rocky, 4th rate.
	Timber, pines.
	Mountainous land 80.00 chs.
	S. 89°48' E., on random line, bet. secs. 26 and 35.
40.00	Set temp. 1/4 sec. cor.
80.07	Intersect the N. and S. line 3 lks. S. of the cor. of secs. 25, 26, 35 and 36. Thence I run
	N. 89°49' W., on true line, bet. secs. 26 and 35.
	Over mountainous land, through pines

Subdivision of Tp. 12 N., R. 2 E.

Chains.	
	and dense aspens.
40.03½	Set a limestone, 16×9×9 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
44.00	Descend
59.00	Hollow, drains N. W., ascend.
80.07	The cor. of secs. 26, 27, 34 and 35.
	Land, mountainous.
	Soil, gravelly and rocky, 4th rate.
	Timber, pines and aspens.
	Mountainous land or dense undergrowth, 80.07 chs.
	N. 0° 2' W., bet. secs. 26 and 27.
	Over mountainous land, descend through timber
9.00	Hollow, dr. W., ascend.
16.00	Ridge, bears E. and W., descend.
40.00	Set a limestone, 14×8×8 ins., 9 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
74.00	Cliffs, 90 ft. high, bears E. and W.
80.00	On cliffs.
	Set a limestone, 19×8×6 ins., on bed rock, in mound of stone, for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines
	Mountainous land 80.00 chs.
	At this cor. at 8h 34m 6 p.m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground, 5 chs. N. of my station.
	Latitude 41° 45' 11" N., longitude 111° 42' 13" W.
	September 4, 1904.

Chains	September 5: At 7h 30m a.m. l.m.t., I lay off the azimuth of Polaris 1°37' to the west, and mark the true meridian, thus determined, by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18°2' W., which gives the magnetic declination 18°2' E.
	S. 89°49' E., on random line, bet. secs. 23 and 26.
40.00	Set temp. 1/4 sec. cor.
80.12	Intersect the N. and S. line 4 lks. S. of the cor. of secs. 23, 24, 25 and 26. Thence I run
	N. 89°51' W., on true line, bet. secs. 23 and 26.
	Over mountainous land, descend through timber.
8.00	Dragroad, bears N. and S., in hollow, ascend.
17.50	Rocky spur, bears S. and N., descend among cliffs.
40.06	Set a limestone, 15×9×8 ins., on bed rock in mound of stone, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable
80.12	The cor. of secs. 22, 23, 26 and 27.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd and 4th rates.
	Timber, pines; undergrowth, maple brush.
	Mountainous land 80.12 chs.
	N. 0°2' W., bet. secs. 22 and 23.
	Over mountainous land, descending through timber and dense brush.
22.42	South bank of Logan River, 2 ft. deep flows S.W., elevation 5100 ft.
23.00	North bank of Logan River.
29.00	Road, bet. Logan City and Bear Lake Valley, bears S.W. and N.E. Telephone line along N. side of road, bet. same points. Fence along S. side of road. Ascend.
40.00	Set a limestone, 17×9×5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high,

Chains	
	W. of cor.; pits impracticable.
52.50	Two springs, bears W., 7 and 8 chs. dist.
53.00	Spur, bears N. W. and S. E., descend.
65.00	Several springs on east side of hollow.
70.00	Brook, 1 lk. wide, 2 ins. deep, flows S. E., spring 3 chs. up hollow, ascend.
80.00	Set a limestone, 20 × 6 × 5 ins., 15 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines; undergrowth sage and maplebrush.
	Mountainous land or dense brush, 80.00 chs.
	At this cor. at 8h 31m 7s p. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station.
	Latitude 41° 46' 03" N., longitude 111° 42' 13" W.
	September 5, 1904.
	September 6: At 7h 30m a. m., l. m. t., I lay off the azimuth of Polaris, 1° 37', to the west, and mark the true meridian, thus determined, by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian is N. 18° 2' W., which gives the magnetic declination 18° 2' E.
	Thence I run
	S. 89° 51' E., on random line, bet. secs. 14 and 23.
40.00	Set temp. 1/4 sec. cor.
80.05	Intersect the N. and S. line 8 lks. N. of the cor. of secs. 13, 14, 23 and 24. Thence I run
	N. 89° 48' W., on true line, bet. secs. 14 and 23.
	Over mountainous land, descending through timber.
10.00	Hollow, drains S., ascend.

Chains	
16.00	Spur, bears N. and S., descend.
27.00	Hollow, drains S.
40.02½	On limestone ledge, 20 ft. high, bears S.W. and N.E.
	Set a limestone, 18×6×6 ins., on bed rock, in mound of stone, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
	This cor. stands on a spur, bearing S.W. and N.E.
	Elevation 6700 ft
66.50	Cliffs, 50 ft. high, bears S.E. and N.W., descend.
75.00	Hollow, drains S., spring 8 chs. down hollow.
	Ascend.
80.05	The cor. of secs. 14, 15, 22 and 23.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, mahoganies and aspens; undergrowth maple brush.
	Mountainous land 80.05 chs.
	N. 0° 2' W., bet. secs. 14 and 15.
	Over mountainous land, ascend through timber.
40.00	Set a limestone, 16×8×5 ins., 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor., pits impracticable.
51.00	Descend.
61.50	Hollow, drains S.E., ascend.
80.00	Set a limestone, 18×7×6 ins., 12 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, aspens and mahoganies.
	Mountainous land 80.00 chs.
	S. 89° 48' E., on random line, bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect the N. and S. line 3 chs. N. of the cor. of secs. 10, 11, 14 and 15. Thence I run
	N. 89° 47' W., on true line, bet. secs. 11 and 14.

Chains	
	Over mountainous land and limestone ledges.
	Ascend through timber
26.00	Head of hollow, drains S.
39.38	Set a limestone, 14 × 9 × 5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
52.50	Head of hollow, drains S.W.
79.96	The cor. of secs. 10, 11, 14 and 15. Elevation 7860 ft.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, mahogany and maple.
	Mountainous land 79.96 chs.
	At this cor. at 8h 26m 8s p. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined, by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station.
	Latitude 41° 46′ 55″ N., longitude 111° 42′ 13″ W.
	September 6, 1904.
	September 8: At 7h 50m a. m., l. m. t., I lay off the azimuth of Polaris 1° 37′ to the west, and mark the true meridian, thus determined, by a cross on a stone, firmly set in the ground, W. of the point established last night.
	The magnetic bearing of the true meridian is N. 18° 2′ W., which gives the magnetic declination 18° 2′ E.
	N. 0° 2′ W., bet. secs. 10 and 11.
	Over mountainous, ascending.
5.50	Ridge, bears E. and W.
17.00	Head of hollow, drains N.E.
38.50	Ridge, bears S.W. and N.E., elevation 8450 ft., descend in brush and among pines.
40.00	Set a limestone, 17 × 7 × 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
54.00	Head of hollow, drains W.
80.00	On spur, bears E. and W.

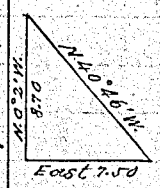
Chains	
	Set a limestone, 15×10×8 ins., 10 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on S. and 2 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 4th rate.
	Timber, pines.
	Mountainous land, 80.00 chs.
	Sept. 8, 1904.
	Sept. 9, 1904.
	S. 89° 47' E., on random line, bet. secs. 2 and 11.
40.00	Set temp. 1/4 sec. cor.
80.28	Intersect the N. and S. line 3 lks. S. of the cor. of the cor. of secs. 1, 2, 11 and 12. Thence I run
	N. 89° 48' W., on true line, bet. secs. 2 and 11.
	Over mountainous land, ascending.
40.14	Set a limestone, 13×9×8 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
57.00	Ridge, bears S.W. and N.E., elevation 8600 ft., enter pines and descend.
80.28	The cor. of secs. 2, 3, 10 and 11.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, pines.
	Mountainous land 80.28 chs.
	September 9, 1904.
	November 16, 1907: At this cor. I set off 18° 34' 5" S. on the decl. arc, and at 11h 45m a.m. l.m.t., observe the sun on the meridian, the resulting lat. is 41° 48'
	Knowing that I can not intersect the Third Standard Parallel North within the closing limit I run
	N. 0° 2' W., on true line, bet. secs. 2 and 3.
	Over mountainous land, descend through timber.
20.50	Hollow, drains W.
33.75	Green Canyon; drain S.W., elevation 7240 ft. Ascend.
40.00	Set a limestone, 14×9×6 ins., 11 ins. in the ground,

Chains	
	for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
88.72	Intersect the Third Standard Parallel North. Set a limestone, 15×7×7 ins., 10 ins. in the ground, for closing cor. of secs. 2 and 3, marked C. C. on S., with 4 grooves on W. and 2 grooves on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines.
	Mountainous land 88.72 chs.
	Thence I run
	S. 89° 48' W. on Third Standard Parallel North.
	Over mountainous land, and at
5.56	Intersect the standard cor. of secs. 34 and 35, Tp. 13 N., R. 2 E., herein before described.
	Mountainous land 5.56 chs.
	November 16, 1907.
	September 10: At the cor. of secs. 3, 4, 33 and 34, on S. bdy. of the Tp., which is a limestone, 5×8×6 ins. above ground, firmly set, at 8h 11m 1 p. m., l. m. t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark a point in the line, thus determined, by a cross on a stone, firmly set in the ground, 5 chs. N. of my station.
	Latitude 41° 43' 27" N., longitude 111° 43' 23" W.
	September 10, 1904.
	September 11: At 8h 5m a. m., l. m. t., I lay off the azimuth of Polaris 1° 37' to the west and mark the true meridian, thus determined, by a cross on a stone, firmly set in the ground, west of the point established last night.
	The magnetic bearing of the true meridian

Chains	
	is N. 18° 2' W., which gives the magnetic declination 18° 2' E.
	N. 0° 2' W., bet. secs. 33 and 34.
	Over mountainous land and limestone ledges, descend through pine timber.
28.00	Enter Mill Canyon, drains N., elevation 7450 ft.
40.00	Set a limestone, 16×9×5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
57.00	Fork of canyon from S.E., ascend.
80.00	Set a limestone, 16×9×9 ins., 11 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines.
	Mountainous land 80.00 chs.

	S. 89° 48' E., on random line, bet. secs. 27 and 34.
40.00	Set temp. 1/4 sec. cor.
72.88	Intersect the N. and S. line 9 lks. N. of the cor. of secs. 27, 28, 33 and 34. Thence I run
	N. 89° 44' W., on true line, bet. secs. 27 and 34.
	Over mountainous land, through dense maple brush, descending through timber.
26.00	Dug road, bears N.W. and S.E., elevation 6760 ft. into large moraine of cliff moraine, have brush.
33.00	Spring, canyon, drains N.W., ascend.
51.00	Leave moraine of cliffs and enter brush.
32.00	Set a limestone, 18×8×5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
65.50	Rocky spur, bears S.E. and N.W.
77.66	Top of cliffs, 40 ft. high, facing W., descend.
77.88	The cor. of secs. 27, 28, 33 and 34.
	Land, mountainous.

Chains	
	Soil, rocky, 4th rate.
	Timber, aspens; pines and maple; under growth, maple brush.
	Mountainous land 79.88 chs.
	N. 0° 2' W., bet. secs. 27 and 28.
	Over mountainous land, ascending through timber.
21.50	Spur, bears N. W. and S. E., descend.
	A big spring, about 8 second ft., bears east, 22 chs. distant. Elevation of spring 6050 ft.
	Descend.
38.35	Dug road, bears N. W. and S. E.
40.00	Set a pine post, 3 ft. long, 3 ins square (with charred stake) 24 ins. in the ground, for 1/4 sec. corner, marked 1/4 S. 28 on W. and S. 27 on E. face; dig pits 18×18×12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
46.00	Two log cabins, belonging to Crowther Brothers, bears E., 7.50 chs. dist.
47.00	S. edge of back water from Logan City power dam.
	Set a flag on line by N. edge of pond, and run east 7.50 chains for a base. Flag N. of pond now bears N. 40° 46' W. Est. 1.1599 × 7.50 = 8.70 chs, and 47.00 chs. + 8.70 chs. making
55.70	N. edge of pond.
56.00	Road, bet. Logan City and Bear Lake Valley, bears W. and E.; telephone line along N. side of road, between same points, same bearings.
	Logan City power dam bears S. 83° 50' W., 16 chs. dist. Elevation of power dam 5860 ft. ascend.
79.75	Foot of cliffs, facing S. E., 40 ft. high.
80.00	On cliffs.
	Set a limestone, 20×6×5 ins., on bed rock.



Chains

in mound of stone, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable

A cedar, 18 ins. diam., bears N. 23° 40' W., 21 lks. dist., marked T. 12 N., R. 2 E., S. 21. B.T.

A cedar, 6 ins. diam., bears N. 39° 45' E., 20 lks. dist., marked T. 12 N., R. 2 E., S. 22, B.T.

No more trees within limit.

Land, mountainous.

Soil, gravelly and rocky; 2nd and 4th rates.

Timber, pines and cedars.

Mountainous land 80.00 chs.

September 11, 1904.

October 19, 1904.

At the cor. of secs. 21, 22, 27 and 28, described above; at $5^h 32^m$ a. m., l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station

Latitude 41° 45' 11" N., longitude 111° 43' 23" W.

At $8^h 20^m$ a. m., I lay off the azimuth of Polaris, 1° 37' to the west, and mark the true meridian thus determined, by a cross on a stone, firmly set in the ground, west of the point established this a.m.

The magnetic bearing of the true meridian is N. 18° 1' W., which gives the magnetic declination 18° 1' E.

Thence I run

S. 89° 44' E., on random line, bet. secs. 22 and 27.

40.00 Set temp. ¼ sec. cor.

80.10 Intersect the N. and S. line 12 lks. S. of the cor.

Subdivision of Tp. 12 N., R. 26.

Chains	
	of secs. 22, 23, 26 and 27. Thence [illegible]
	N. 89°49' W., on true line, bet. secs. 22 and 27.
	Over mountainous land through timber
0.50	Gorge, 70 ft. deep, drains N.
1.40	Cliffs, 50 ft. high, bears S.W. and N.E.
	Descend.
36.50	East bank of Logan River, 28 ins. deep; flows S.W. Spring, about 1/5 the flow of the river rises 4 chs. N.
37.00	West bank of Logan River.
37.02	Log cabin of H. J. DeWitt bears S. 4 chs. dist.
38.00	Road, bet. Logan City and Bear Lake Valley, bears S.W. and N.E.; fence on E. side; telephone line on W. side bet. same point; elevation [illegible] ft.
38.40	Fence, bears S.W. and N.E., ascend.
40.05	Set a limestone, 16×8×6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
43.50	Fence, bears N.W. and S.E.
75.00	Cliffs, 140 ft. high, bears S.W. and N.E.
80.10	The cor. of secs. 21, 22, 27 and 28.
	Land, mountainous.
	Soil, rocky, partly gravelly, 4th and 2nd rates.
	Timber, cedars and pines.
	Mountainous land 80.10 chs.
	N. 0°2' W. bet. secs. 21 and 22
	Over mountainous land, ascend through timber.
8.00	Rocky spur, bears N.W. and S.E., descend.
26.50	Hollow, drains S.E., ascend.
40.00	Set a limestone, 15×8×7 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
55.00	Hollow heads to the S.E.
80.00	On ridge, bears S.W. and N.E. Elevation 8750 ft.
	Set a sandstone, 15×9×4 ins., 10 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked T. 12 N. on N.E., R. 2 E. on S.E. faces, with 3 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high,

Chains

W. of cor., pits impracticable.
Land, mountainous.
Soil, rocky, 3rd rate.
Timber, cedars; undergrowth, maple brush.
Mountainous land 80.00 chs.
Oct. 20: At this cor. at 5h 28m a. m., l. m. t., I observe Polaris at western elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground, 5 chs. N. of my station.
Latitude 41°46'03" N., longitude 111°43'23" W.
October 20, 1904.

October 20: At 8h 30m a. m., I lay off the azimuth of Polaris, 1°37', to the west, and mark the true meridian, thus determined, by a cross on a stone, firmly set in the ground, west of the point established this a. m.
The magnetic bearing of the true meridian is N. 17°59' W., which gives the magnetic declination 17°59' E.
Thence I run
S. 89°49' E., on random line, bet. secs. 15 and 22.
40.00 Set temp. 1/4 sec. cor.
79.94 Intersect the N. and S. line 2 lks. N. of the cor. of secs. 14, 15, 22 and 23. Thence I run
N. 89°48' W., on true line, bet. secs. 15 and 22.
Over mountainous land, descend through timber.
20.50 Hollow, drains S. E., ascend.
39.97 Set a limestone, 14×8×7 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
79.94 Fre cor. of secs. 15, 16, 21 and 22.
Land, mountainous.
Soil, gravelly and rocky, 3rd rate.
Timber, pines and maple; undergrowth, maple brush.
Mountainous land 79.94 chs.

Subdivision of Tp. 12 N., R. 2 E.

Chains	
	N. 0° 2' W., bet. secs. 15 and 16.
	Over mountainous land, through dense brush; descend on western slope through timber.
5.00	Enter dense pine timber.
32.00	Canyon, drains N. W.; pine timber scatters out.
	Ascend.
40.00	Set a limestone, 36 × 24 × 4 ins., on bed rock, in mound of stone, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
48.00	Cliffs, 50 ft. high, bears N. W. and S. E., descend.
51.50	Gorge, drains N. W.; leave dense brush.
80.00	In hollow, drains W.
	Set a limestone, 16 × 8 × 4 ins., 11 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky leaf mould, 4th rate.
	Timber, pines; undergrowth, maple brush.
	Mountainous land 80.00 chs.

	S. 89° 48' E., on random line, bet. secs. 10 and 15.
40.00	Set temp. 1/4 sec. cor.
80.10	Intersect the N. and S. line 2 lks. N. of the cor. of secs. 10, 11, 14 and 15. Thence I run
	N. 89° 47' W., on true line, bet. secs. 10 and 15.
	Over mountainous land, ascending.
27.50	Ridge, bears S. W. and N. E., elevation 8360 ft.; enter pines and descend.
40.05	Set a limestone, 18 × 7 × 5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high; N. of cor.; pits impracticable.
78.00	Hollow, drains W.
80.10	The cor. of secs. 9, 10, 15 and 16.
	Land, mountainous.
	Soil, gravelly and rocky, 4th rate.
	Timber, pines; undergrowth, maple brush.
	Mountainous land 80.10 chs.

Chains	
	N. 0° 2' W., bet. secs. 9 and 10.
	Over mountainous land, ascend through timber
2.50	Point of spur, bears W., descend.
7.50	Green Canyon, drains S. W., elevation 7700 ft., ascend.
40.00	Set a limestone, 14×10×7 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
41.00	Spur, bears S. W. and N. E.
80.00	Set a limestone, 16×9×8 ins., 11 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on S. and 3 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines; undergrowth, maple brush.
	Mountainous land 80.00 chs.
	October 20, 1904.
	The sky is overcast the entire night. Polaris not visible.
	Oct. 21.
	S. 89° 47' E., on random line, bet. secs. 3 and 10.
40.00	Set temp. 1/4 sec. cor.
80.20	Intersect the N. and S. line 5 lks. N. of the cor. of secs. 2, 3, 10 and 11. Thence I run
	N. 89° 45' W., on true line, bet. secs. 3 and 10.
	Over mountainous land, descending in timber.
32.50	Green Canyon, drains S. W., ascend; elev. 7400 ft.
40.10	Set a limestone, 15×8×6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
42.50	Ridge, bears S. W. and N. E., descend.
51.00	Hollow, drains S., ascend.
72.50	Spur, bears N. E. and S. W., descend.
80.20	The cor. of secs. 3, 4, 9 and 10.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, pines; undergrowth, maple brush.
	Mountainous land 80.20 chs. Oct. 21, 1904.

Subdivision of Tp. 12 N., R. 2 E.

Chains	
	Nov. 16, 1907. At this cor. at 3h 45m p.m., l.m.t., I set off 4° 48' on the lat. arc, 18° 35' S. on the decl. arc, and determine the true meridian with the solar.
	Knowing that I can not intersect the Third Standard Parallel North within the closing limit I run
	N. 0° 2' W., on true line, bet. secs. 3 and 4.
	Over mountainous land, through timber
21.00	Wash, drains S.W.
40.00	Set a limestone, 14×7×7 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
44.50	Hollow, drains S.W. ascend.
70.00	Ridge; bears S.W. and N.E., descend.
84.00	Brook 1 ft. wide, 2 ins. deep, flows S.W. in hollow.
88.07	Intersect the Third Standard Parallel North.
	Set a limestone, 20×8×6 ins., 15 ins. in the ground, for closing cor. of secs. 3 and 4, marked C.C. on S., with 3 grooves on W. and E. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor., pits impracticable.
	Land, mountainous
	Soil, coarse gravelly and rocky, 4th rate.
	Timber, pines; undergrowth, maple brush.
	Mountainous land 88.07 chs.
	Thence I run
	S. 89° 48' W. on Third Standard Parallel North
	Over mountainous land, ascending.
5.50	Intersect the standard cor. of secs. 33 and 34, Tp. 13 N., R. 2 E., heretofore described.
	Mountainous land 5.50 chs.
	November 16, 1907.

October 23, 1904: At the cor. of secs. 4, 5, 32 and 33, on S. bdy. of the Tp., which is a limestone, 6×9×5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, at 5h 19m 3 a.m., l.m.t., I observe Polaris at western elongation in in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a

Chains	
	wooden peg, set in the ground, 5 chs. N. of my station.
	Latitude 41°43'27" N., longitude 111°44'32" W.
	October 23, 1904.
	October 23, at 8h 50m a.m., l. m. t., I lay off the azimuth of Polaris, 1°37', to the west, and mark the true meridian, thus determined, by a cross on a stone, firmly set in the ground, west of the point established this a. m.
	The magnetic bearing of the true meridian is N. 18°2' W., which gives the magnetic declination 18°2' E.
	Thence I run
	N. 0°3' W., bet. secs. 32 and 33.
	Over mountainous land, ascending.
25.50	Ridge, bears N. W. and S. E., descend over crags through timber.
40.00	Set a limestone, 17×10×6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
65.50	Impassable cliffs, bears N. W. and southeast.
	Then offset as follows:
	West 4.60 chs.,
	N. 0°3' W. 4.50 chs.,
	East 4.60 chs., making
70.00	Foot of cliffs.
	Then N. 0°3' W. on line
80.00	Set a limestone, 18×7×6 ins., 7 ins. in the ground, on bed rock, in mound of stone, for cor. of secs. 28, 29, 32 and 33, marked with 4 notches on E. and 1 notch on S. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines.
	Mountainous land 80.00 chs.
	October 23, 1904.

Subdivision of Tp. 12 N., R. 2 E.

Chains	
	Showers and low clouds prevented work until this afternoon October 25, 1904.
	S. 89° 48' E., on random line, bet. secs. 28 and 33.
40.00	Set temp. 1/4 sec. cor.
45.00	To impassable cliffs; set temp. witness point. Then offset as follows: North 14.00 chs., then on offset line: S. 89° 48' E. 16.00 chs., then South 14.00 chs. to the random line, on which at
79.98	Intersect the N. and S. line 4 chs. S. of the cor. of secs. 27, 28, 33 and 34. Thence I run
	N. 89° 50' W., on true line, bet. secs. 28 and 33.
	Over mountainous land, descending in timber.
2.50	Dragroad, bears N. W. and S. E.
4.50	Mill Canyon, drains N. W., ascend, elevation 7200 ft.
19.00	Impassable cliffs, bears N. W. and S. E.
	Set a limestone, 14×9×8 ins., in mound of stone, at talus of cliffs, for witness point, marked W. P. on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
	Thence offset N. 14.00 chs.; then run on offset line N. 89° 50' W. 16.00 chs.; then south 14.00 chs. to foot of cliffs, and at
35.00	Set a limestone, 18×7×6 ins., in mound of stone, for witness point, marked W. P. on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
	Then N. 89° 50' W. on true line.
39.99	Set a limestone, 16×6×6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Descend.
54.00	Hollow, drains N., ascend.
68.50	Spur, bears N. and S., descend.
73.00	Hollow, drains N., ascend.
79.98	The cor. of secs. 28, 29, 32 and 33.
	Land, mountainous.

Chains	
	Soil, rocky, 4th rate.
	Timber, pines.
	Mountainous land 79.98 chs.
	N. 0° 3' W., bet. secs. 28 and 29.
	Over mountainous land, descend through timber
16.80	South bank of Logan River, 2 ft. deep, flows W.
17.50	North bank of Logan River. Enter clover field.
19.50	House of Hans Hansen bears E., 3 chs. dist.
21.40	Fence, bears E. and W., leave clover field and ascend.
21.60	Road, bet. Logan City and Bear Lake Valley, bears E. and W.; telephone line along north side, bet. same points; elevation 4900 ft.
23.20	Pipe line, 6 ft. diam., from power dam to Logan City power plant.
40.00	Set a limestone, 16 x 8 x 5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable
	A fresh cedar stump, 10 ins. diam., 5 ft. high, bears N. 50° 30' E., 39 lks. dist., marked 1/4 S. 28, B. T.
	No more trees within limit.
80.00	Set a limestone, 14 x 8 x 5 ins., 10 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on S. and 4 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
	A cedar, 5 ins. diam., bears N. 57° E., 24 lks. dist., marked T. 12 N., R. 2 E., S. 21, B. T.
	No more trees within limit. Elevation 6650 ft.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, pines, cedars and mahoganies.
	Mountainous land 80.00 chs.
	October 25, 1904.
	October 26. At the cor. of secs. 20, 21, 28 and 29, last described, at $5^h 4^m 5$ a.m., l.m.t., October 25, $17^h 04^m 5$, astronomical time, I observe Polaris at western elongation in accordance with instructions in the

Chains	
	Manual, and mark a point in the line, thus determined, by a tack driven in a wooden peg, set in the ground 5 chs. N. of my station.
	Latitude 41° 45' 11" N., longitude 111° 44' 32" W.
	At 8h 10m a.m. I lay off the azimuth of Polaris, 1° 37', to the east, and mark the true meridian, thus determined by a cross on a stone, firmly set in the ground, E. of the point established this a.m.
	The magnetic bearing of the true meridian is N. 18° W., which gives the magnetic declination 18° E.
	Thence I run -
	S. 89° 50' E., on random line, bet. secs. 21 and 28.
40.00	Set temp. 1/4 sec. cor.
80.15	Intersect the N. and S. line 10 lks. N. of the cor. of secs. 21, 22, 27 and 28. Thence I run
	N. 89° 46' W., on true line, bet. secs. 21 and 28.
	Over mountainous land and cliffs, ascending
40.07½	Set a limestone, 17 x 8 x 4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
54.00	Spur, bears S. W. and N. E., leave cliffs.
	Descend.
75.50	Hollow, drains S., ascend.
80.15	The cor. of secs. 20, 21, 28 and 29.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, cedars and mahoganies.
	Mountainous land 80.15 chs.
	N. 0° 3' W., bet. secs. 20 and 21.
	Over mountainous land, ascend.
36.50	Ridge, bears W. and E., elevation 7500 ft., enter pines, descend.
40.00	Set a limestone, 27 x 5 x 4 ins., 5 ins. in the ground, on bed rock, in mound of stone. Marked 1/4 on W. face
	A pine, 7 ins. diam., bears S. 60° W., 22 lks. dist., marked 1/4 S. 20, B. T.

Subdivision of Tp. 12 N., R. 2 E.

Chains	
	A pine, 9 ins. diam., bears N. 25° E., 22 lks. dist., marked 1/4 S. 21, B. T.
67.50	Cliffs, 30 ft. high, bears N. W. and S. E., have pines.
78.50	Road, bears W. and N. E.
79.50	Wash, in Green Canyon, drains W.; elevation 6010 ft.
80.00	Set a limestone, 20×8×5 ins., 15 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines.
	Mountainous land 20.00 chs.
	October 26th, 1904.

October 27. At the last described cor. at 5h 01m a. m. civil time, October 26, 17h 01m astronomical time, I observe Polaris at western elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station.

Latitude 41° 46′ 03″ N., longitude 111° 44′ 32″ W.

At 8h a. m. I lay off the azimuth of Polaris, 1° 37′, to the east, and mark the true meridian, thus determined, by a cross on a stone, firmly set in the ground, east of the point established this a. m.

The magnetic bearing of the true meridian is N. 17° 59′ W., which gives the magnetic declination 17° 59′ E.

Thence I run

S. 89° 46′ E., on random line, bet. secs. 16 and 21.

40.00	Set temp. 1/4 sec. cor.
80.05	Intersect the N. and S. line 11 lks. S. of the cor. of secs. 15, 16, 21 and 22. Thence I run

N. 89° 51′ W., on true line, bet. secs. 16 and 21.

Over mountainous land, through timber

Descend.

Subdivision of Tp. 12 N., R. 2 E.

Chains	
21.00	Hollow, drains N. W., ascend.
30.50	Top of cliffs, 30 ft. high, bears N. and S.
40.02½	Set a limestone, 17×7×5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
42.50	Spur, bears N. W., descend.
60.50	Dragroad, in hollow, drains N. W.
69.40	Dragroad, in hollow, drains N. W.
76.90	Road, in Green Canyon, bears S. W. and N. E.
77.75	Wash, in canyon, drains S. W.
80.05	The cor. of secs. 16, 17, 20 and 21.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, pines; undergrowth maple brush.
	Mountainous land 80.05 chs.

N. 0° 3' W. bet. secs. 16 and 17.
Over mountainous land; ascend through timber.

1.80	Enter upon denuded limestone and granite slope, facing S. E.
34.00	Spur, bears W. and E., elevation 7650 ft.
	Descend, leave barefaced slope.
40.00	Set a limestone, 18×9×6 ins., on bed rock in mound of stone, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
49.00	Hollow, drains S. E., ascend.
72.50	Spur, bears S. E. and N. W., descend.
80.00	Set a limestone, 16×6×6 ins., 11 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky, scanty, 4th rate.
	Timber, cedars and Pines.
	Mountainous land 80.00 chs.

October 27, 1904.

Subdivision of Tp. 12 N., R. 2 E.

Chains	
	October 28, at the last described cor. at 4h 56m 6 a.m., l.m.t, I observe Polaris at western elongation in accordance with instructions in the Manual, and mark a point in the line thus determined, by a tack driven in a wooden peg set in the ground, 5 chs. N. of my station.
	Latitude 41°46'55" N., longitude 111°44'32" W.
	At 7h 50m a.m. I lay off the azimuth of Polaris, 1°37' to the east, and mark the true meridian thus determined by a cross on a stone, firmly set in the ground, east of the point established this a.m.
	The magnetic bearing of the true meridian is N. 17°58' W., which gives the magnetic declination 17°58' E.
	Thence I run,
	S. 89°51' E., on random line, bet. secs. 9 and 16.
40.00	Set temp. 1/4 sec. cor.
79.93	Intersect the N. and S. line 14 lks. N. of the cor. of secs. 9, 10, 15 and 16. Thence I run
	N. 89°45' W., on true line, bet. secs. 9 and 16.
	Over mountainous land, through dense brush, descend through timber
6.50	Road; in Green Canyon, drains S. W., elevation 6500 ft., ascend.
14.00	Spur; bears N. and S., descend.
22.00	Hollow, drains S., ascend.
39.96½	Set a limestone, 14×7×7 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
79.93	The cor. of secs. 8, 9, 16 and 17.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, Pines and maple; undergrowth maple brush.
	Mountainous land or dense brush 79.93 chs.
	N. 0°3' W., bet. secs. 8 and 9.
	Over mountainous land, descending
33.50	Hollow, drains S.E., ascend.

Subdivision of Tp. 12 N., R. 2 E.

Chains	
40.00	Set a limestone, 15×9×8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor.; pits impracticable.
50.50	Spur, bears N. W. and S.E., descend.
68.50	Head of hollow, drains S.E.
80.00	Set a limestone, 17×6×6 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked with 5 notches on S. and 4 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, pines.
	Mountainous land 80.00 chs.
	October 28, 1904.
	Note:- The sky was overcast the entire night. Polaris not visible.
	October 29, 1904.
	S. 89° 45' E., on random line, bet. secs. 4 and 9.
40.00	Set temp. 1/4 sec. cor.
80.18	Intersect the N. and S. line 5 lks. S. of the cor. of secs. 3, 4, 9 and 10. Thence I run
	N. 89° 47' W., on true line, bet. secs. 4 and 9.
	Over mountainous land, descend through timber.
8.50	Hollow, drains S. W., ascend.
24.00	Spur, bears N. and S., descend.
40.09	Set a limestone, 14×9×7 ins., 5 ins. in the ground, on bed rock, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
43.50	Hollow, drains S.E., ascend.
51.20	Spur, bears N. W. and S.E.
80.18	The cor. of secs. 4, 5, 8, and 9, elevation 8650 ft.
	Land, mountainous.
	Soil, coarse gravelly and rocky, 3rd rate.
	Timber, pines.
	Mountainous land 80.18 chs.
	October 29, 1904.
	Nov. 17, 1907: At this cor. at 8 h. 45 m. a.m., l.m.t., I set off 41° 48' on the lat. arc, 18° 47' S. on the decl. arc, and determine the true meridian with the solar

Chains	
	Knowing that I can not intersect the N. bdy. of the Tp. within closing limit, I run
	N. 0° 3' W., on true line, bet. secs. 4 and 5.
	Over mountainous land, ascend through timber.
18.00	Ridge, bears N. W. and S. E., elevation 8400 ft.
	Thence along western slope.
40.00	Set a limestone, 16×6×6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
87.42	Intersect the Third Standard Parallel North.
	Set a limestone, 16×6×6 ins., 6 ins. in the ground, on bed rock, in mound of stone, for closing cor. of secs. 4 and 5, marked C. C. on S. with 4 grooves on W. and 2 grooves on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 4th rate.
	Timber, pines; undergrowth, maple brush.
	Mountainous land 87.42 chs.
	Thence I run
	S. 89° 51' W. on Third Standard Parallel North.
	Over mountainous land, descending.
5.48	Intersect the standard cor. of secs. 32 and 33, Tp. 13 N., R. 2 E., herein before described.
	Mountainous land 5.48 chs.
	November 17, 1907.

November 6, 1904.

At the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., herein before described, at 4h 07m a. m., l. m. t., I observe Polaris at western elongation in accordance with instructions in the Manual, and mark a point in the line thus determined, by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station.

Latitude 41° 43' 27" N., longitude 111° 45' 41" W.

At 9h 15m a. m. I lay off the azimuth of Polaris, 1° 37', to the east, and mark the true

Chains

meridian thus determined by a cross on a stone, firmly set in the ground, east of the point established this a. m.
The magnetic bearing of the true meridian is N. 18°2' W., which gives the magnetic declination 18°2' E.
Thence I run
N. 0°4' W. bet. secs. 31 and 32.
Over mountainous land, descend through timber
17.50 Jackie Canyon, drains N. W., elevation 8110 ft., ascend.
38.00 Spur, bears N. W. and S. E., descend.
40.00 Set a limestone, 16×8×5 ins., on bed rock, in mound of stone, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
Enter crags and cliffs.
73.50 Impassable cliffs, 200 ft. high, facing N.
Then offset, as follows:
East 2.00 chs.
N. 0°4' W. 4.00 chs.,
West 2.00 chs., making
77.50 Foot of cliffs, on S. bank of Logan River.
78.00 N. bank of Logan River, 15 ins. deep, flows S. W., elevation 5225 ft.
79.60 Road, bet. Logan City and Bear Lake Valley, bears S. W. and N. E., telephone line along N. side between same points.
80.00 Set a limestone, 21×6×6 ins., 16 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.; pits impracticable.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, pines; undergrowth, maple brush

Chains	Mountainous land 80.00 chs.
	S. 89°48' E., on random line, bet. secs. 29 and 32.
40.00	Set temp. 1/4 sec. cor.
80.20	Intersect the N. and S. line 4 lks. N. of the cor. of secs. 28, 29, 32 and 33.
	Thence I run:
	N. 89°46' W. on true line, bet. secs. 29 and 32.
	Over mountainous land and cliffs.
	Descend through brush and timber.
5.50	Hollow, drains N., ascend.
12.00	Rocky spur, bears N. and S.
40.10	Set a limestone, 18×12×3 ins., on bed rock, 6 ins. in the ground, in mound of stone, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
	A pine, 8 ins. diam., bears S. 83°15' W., 48 lks. dist., marked 1/4 S. 32, B.T.
	A cedar, 4 ins. diam., bears N. 60 3/4° E., 44 lks. dist., marked 1/4 S. 29, B.T.
	Elevation 5850 ft.
	Logan City power plant bears N. 34°50' E., 14 chs. dist.
	Herculese power dam bears N. 39°10' W., 5.75 chs. dist.
	Descend.
67.50	East bank of Logan River, 50 lks. wide, 1 ft. deep, flows S.W.
78.00	Road, bet. Logan City and Bear Lake Valley, bears S.W. and N.E., telephone line along N. side.
80.20	Thence of secs. 29, 30, 31 and 32.
	Sand, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines and maple; undergrowth maple brush.
	Mountainous land or dense brush 80.20 chs.
	November 6, 1904.

November 7: At 4h 17m 2 a.m., l.m.t., I observe Polaris at western elongation in accordance with instructions in the Manual and mark a point in the line

Chains	
	thus determined by a tack driven in a wooden peg set in the ground 5 chs. N. of my station.
	Latitude 41° 44' 19" N, longitude 111° 45' 44" W.
	At 8h 30m a.m., I lay off the azimuth of Polaris, 1° 37', to the east, and mark the true meridian, thus determined, by a cross on a stone firmly set in the ground, east of the point established this a.m.
	The magnetic bearing of the true meridian is N. 18° 3' W, which gives the magnetic declination 18° 3' E.
	Thence I run
	N. 89° 48' W., on random line, bet. secs. 30 and 31.
40.00	Set temp. 1/4 sec. cor.
74.46	Intersect the W. bdy. of the Tp. 5 lks. S. of the cor. of secs. 25, 30, 31 and 36, herein before described.
	Thence I run
	S. 89° 46' E., on true line, bet. secs. 30 and 31.
	Over mountainous land and limestone ledges through timber
28.00	Descend.
34.46	Set a limestone, 21 x 12 x 5 ins., 4 ins. in the ground, on bed rock, in mound of stone, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
42.50	Hercules power flume, bears S. W. and N. E.
45.00	Dragroad, bears S. and N.
46.25	Wash, in hollow, drains S. E.
	Elevation 5420 ft.
62.50	Road, bet. Logan City and Bear Lake Valley bears S. E. and S. W.
	Telephone line along N. side, bet. same points.
74.46	The cor. of secs. 29, 30, 31 and 32.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, cedars, undergrowth maple brush.
	Mountainous land 74.46 chs.
	N. 0° 4' W. bet. secs. 29 and 30.
	Over mountainous land, through timber.
1.00	Ascend.

Chains	
1.50	Hercules power flume, 6×6 ft., bears S.W. and N.E., discharges 115 second ft.
33.00	Hollow, drains S.E.
40.00	Set a limestone, 18×8×5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
43.50	Spur, bears N.W. and S.E., descend.
53.50	Hollow, drains S.E., ascend.
63.00	Drag road, bears N.W. and S.E.
66.50	Hollow, drains S.E., ascend.
75.00	Spur, bears N.W. and S.E.
80.00	Set a limestone, 16×9×8 ins., 11 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable. Elevation 7200 ft.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, pines and cedars.
	Mountainous land, 80.00 chs.
	November 7, 1904.

November 8, 1904: At $4^h 13^m$ a.m., l.m.t., I observe Polaris at western elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground 5 chs. N. of my station. Latitude 41°45' N, longitude 111°45'42" W.

At $8^h 10^m$ a.m., l.m.t., I lay off the azimuth of Polaris, 1°37', to the east, and mark the true meridian thus determined by a cross on a stone, firmly set in the ground, east of the point established this a.m.

The magnetic bearing of the true meridian is N. 13°1' W., which gives the magnetic declination 12°1' E.

Thence I run

S. 89°46' E., on random line, bet. secs. 20 and 29.

40.00	Set temp. 1/4 sec. cor.

Subdivision of Tp. 12 N., R. 2 E.

Chains.	
80.14	Intersect the N. and S. line 4 lks. S. of the cor. of secs. 20, 21, 28 and 29. Thence I run
	N. 89°48' W., on true line, bet. secs. 20 and 29.
	Over mountainous land, through timber, ascend
0.50	Spur, bears N. and S., descend.
12.00	Hollow, drains S.W.
23.00	Hollow, drains S., ascend.
40.07	Set a limestone, 14×9×9 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
65.00	Spur, bears N.W. and S.E., descend.
70.00	Hollow, drains S.E., ascend.
80.14	The cor. of secs. 19, 20, 29 and 30.
	Land, mountainous.
	Soil, rocky, 3rd rate.
	Timber, cedars and pines; undergrowth maple brush.
	Mountainous land, 80.14 chs.
	N. 89°46' W., on random line, bet. secs. 19 and 30.
40.00	Set temp. 1/4 sec. cor.
74.56	Intersect the W. bdy. of the Tp. 8 lks. N. of the cor. of secs. 19, 24, 25 and 30, herein before described.
	Thence I run
	S. 89°49' E., on true line, bet. secs. 19 and 30.
	Over mountainous land, ascend through timber.
34.56	Set a limestone, 15×10×9 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
38.50	Ridge, bears S.W. and N.E., elevation 8800 ft.
41.00	Descend.
62.00	Hollow, drains S.E., ascend.
69.50	Spur, bears N.W. and S.E.
74.56	The cor. of secs. 19, 20, 29 and 30.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines; undergrowth, maple brush.
	Mountainous land, 74.56 chs.
	November 8, 1904.

Chains

Nov. 9, 1904: At this cor. at $4^{h}9^{m}$ a.m., l.m.t., I observe Polaris at western elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station.

Latitude 41°45'11" N., longitude 111°45'41" W.

At 8^{h} a.m., I lay off the azimuth of Polaris 1°37' to the east, and mark the true meridian thus determined, by a cross on a stone, firmly set in the ground, east of the point established this a.m.

The magnetic bearing of the true meridian is N. 17°58' W., which gives the magnetic declination 17°58' E.

Thence I run

N. 0°4' W. bet. secs. 19 and 20.

Over mountainous land; ascend through timber.

12.50 Head of Hollow, drains S.E.

23.00 Ridge, bears S.W. and N.E., descend.

40.00 Set a limestone, 15×9×7 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable; enter precipitous slope.

69.50 Leave precipitous slope, enter Green canyon.

72.60 Road, in Green canyon, bears N.W. and S.E., elevation 5360 ft., ascend.

80.00 Set a limestone, 16×9×6 ins., 11 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.

Land, mountainous.

Soil, rocky, 4th rate.

Timber pines, undergrowth maple and mohogany brush.

Mountainous land 80.00 chs.

Subdivision of Tps. 12 N., R. 2 E.

Chains	
	S. 89° 48' E., on random line, bet. secs. 17 and 20.
40.00	Set temp. 1/4 sec. cor.
79.88	Intersect the cor. of secs. 16, 17, 20 and 21.
	Thence I run
	N. 89° 48' W., on true line, bet. secs. 17 and 20.
	Over mountainous land, descend through timber.
37.50	Hollow, drains S., ascend.
39.94	On eastern slope, of small rocky spur, bearing N. and S.
	Set a limestone, 18×10×4 ins., on bed rock, in mound of stone, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
41.75	Spur, bears N. and S., descend gradually.
50.00	Flat hollow, drains S., ascend gradually.
64.00	Spur, bears N. and S., descend.
71.50	Hollow, drains S., some silver prospect work on east side of hollow, ascend.
75.00	Line crosses Redrock Quarry.
79.88	The cor. of secs. 17, 18, 19 and 20.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines and cedars; undergrowth maple brush.
	Mountainous land 79.88 chs.
	N. 89° 49' W., on random line, bet. secs. 18 and 19.
40.00	Set temp. 1/4 sec. cor.
74.78	Intersect the W. bdy. of the Tps. at the cor. of secs. 13, 18, 19 and 24, herein before described.
	Thence I run
	S. 89° 49' E., on true line, bet. secs. 18 and 19.
	Over mountainous land, ascend throug timber
9.50	Spur, bears S.W. and N.E.,
	Thence over precipitous slope.
25.20	Dragroad, bears N. and S., in hollow, draining S.
28.50	Cliffs, 40 ft. high, bears N. and S.
	House of J. Burries bears S. 55 1/2° E., on S. side of road 25 chs. dist.
34.78	Set a limestone, 14×8×6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise

Chains	
	a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
36.00	Hollow, drains S.
45.00	Hollow, drains S.
49.50	Spur, bears N. and S.
60.00	Hollow, drains S., ascend.
74.78	The cor. of secs. 17, 18, 19 and 20.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, cedars; undergrowth sage and maple brush.
	Mountainous land 74.78 chs.
	N. 0° 4' W., bet. secs. 17 and 18.
	Over mountainous land, ascend through timber.
36.85	Spur, bears N.W. and S.E.
40.00	Set a lime stone, 16×8×8 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
47.80	Head of hollow, drains S.W.
57.60	Ridge, bears S.W. and N.E., elevation 8250 ft., descend.
73.00	Canyon, drains N.W., elevation 7600 ft., ascend.
81.85	Intersect west; 5.00 chs. from traces of the old cor. of secs. 7, 8, 17 and 18; but the marked stone I can not find.
	Set a limestone, 16×6×6 ins., 11 ins. in the ground, for closing cor. of secs. 17 and 18; marked C C with 4 grooves on S. and 5 grooves on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines and cedars; undrowth, maple and laurel brush.
	Mountainous land 81.85 chs.
	From the indication of the old cor. of secs. 7, 8, 17 and 18, as above, I run
	West, on random line, bet. secs. 7 and 18.
40.00	Set temp. 1/4 sec. cor.
80.20	Intersect the W. bdy. of the Tp. at the cor. of secs. 7, 12, 13 and 18, herein before described.

Chains	
	Thence I run
	East, on true line, bet. secs. 7 and 18.
	Over high bench.
10.50	Enter mountainous slope.
14.50	Spur, bears N.W. and S.E.; descend through dense mahoganies and pines.
20.50	Canyon, drains N.W.; leave mahognies and ascend over slide rocks, through brush.
40.10	I search diligently for the old cor., but find no traces of it.
	Set a limestone, 16×7×5 ins., 11 ins. deep, in loose rocks, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.; pits impracticable.
	Note - The condition at the site does not permit of the mound of stone being raised N. of cor.
75.20	Intersect the closing cor. of secs. 17 and 18.
80.20	Indications of the old cor. as above.
	I search again for the old cor. stone, but can not find it.
	Set a limestone, 16×8×7 ins., 11 ins. in the ground, for cor. of secs. 7 only; marked with 4 notches on S. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines and mahoganies; undergrowth maple and mahogany brush.
	Mountainous land 80.20 chs.
	November 9, 1904.

November 10, 1904: At this cor. at $4^h 05^m.4$ a.m., l. m. t. I observe Polaris at western elongation in accordance with instructions in the Manual, and mark a point in the line thus determined, by a tack driven in a wooden peg, set in the ground, 5 chs. N. of my station.

Latitude 41°46'55" N., longitude 111°45'41" W.

At 9^h a.m., I lay off the azimuth of Polaris, 1°37', to the east, and mark the true merid-

Chain — can, thus determined, by a cross on a stone, firmly set in the ground, east of the point established the 2 ½.
The magnetic bearing of the true meridian is N 11° 3' W, which gives the magnetic declination 11° 3' E.
Thence I run
S 19° 41' E, on random line, bet. secs. 8 and 17.
34.11 Set temp. 1/4 sec. cor.
35.20 Intersect the N and S line, 185 chs. N 0° 4' W from the cor. of secs. 8, 9, 16 and 17.
Thence from this cor. I run
N 19° 41' W, on true line, bet. secs. 8 and 17.
Over mountainous land, ascend through timber.
40.10 Set a limestone, 15 x 10 x 8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N of cor., pits impracticable.
52.20 Ridge, bears S W and N E, elevation 9/10 ft., descend abruptly.
57.00 Canyon, drains S W, ascend.
60.20 Intersect the W bdy. of sec. 17, S 0° 0' E, 185 chs. from the closing cor. of secs. 17 and 18, herein before described.
Set a limestone, 17 x 9 x 9 ins., 12 ins. in the ground, for closing cor. of secs. 8 and 17, marked C C with 5 grooves on E, 4 grooves on S and 2 grooves on N faces, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, E of cor., pits impracticable.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedars and pines, undergrowth maple and mahogany brush.
Mountainous land 60.20 chs.

From the S E corner of sec. 7 I flag N to ascertain the bearing of the old line, or the E bdy. of sec. 7, and find N 0° 14' W.
I therefore run
N 0° 14' W, on E bdy. of sec. 7.

Subdivision of Tp. 12 N., R. 2 E.

Chains	
	Over mountainous land, through dense brush and timber.
27.00	Descend.
39.00	Canyon, drains N. W., elevation 7400 ft., ascend.
41.33	Find traces of the old cor., but no marked stone.
	Set a limestone, 19×12×3 ins., 13 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
60.00	Spur, bears W. and E., elevation 8000 ft., descend.
80.00	Canyon, drains N. W., ascend.
82.65	Intersect the cor. of secs. 5, 6, 7 and 8, which is a limestone, 9×10×6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
	Five lks. N. of the cor. I find an iron post, 18 ins. above ground, marked No. 94, T. 12 N., R. 2 E., S. 5 W. C., S. 6, S. 7, S. 8, U. S. Forest Reserve.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, pines, undergrowth, sage and maplebrush.
	Mountainous land 82.65 chs.
	S. 89° 48' E., on random line, bet. secs. 5 and 8.
35.20	Set temp. 1/4 sec. cor.
75.42	Intersect the N. and S. line 4.50 chs. N. of the cor. of secs. 4, 5, 8 and 9. Knowing then that I can not intersect within limit I run from this cor.
	N. 89° 48' W., on true line, bet. secs. 5 and 8.
	Over mountainous land, ascend throug timber.
17.00	Ridge, bears S. W. and N. E., elevation 8900 ft.
36.00	Head of hollow, drains N. W.
40.00	Set a limestone, 14×9×8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
53.00	Spur, bears N. W. and S. E., descend.
72.00	Canyon, drains N. W., ascend.
75.42	Intersect the E. bdy. of sec. 7 S. 0° 14' E., 4.50 chs. from the cor. of secs 5, 6, 7 and 8, destroy marks referring to sec. 7 & 8.
	Set a limestone, 16×6×6 ins., 11 ins. in the ground, for closing cor. of secs. 5 and 8,

Chains	
	marked C. C with 5 grooves on S. and E. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor., pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines and cedars.
	Mountainous land 75.42 chs.
	November 10, 1904.
	Note. The sky was overcast the entire night; Polaris not visible.
	November 11, 1904.
	West, on random line, bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
80.39	Intersect the cor. of secs. 1, 6, 7 and 12, herein before described. Thence I run
	East, on resurvey, bet. secs. 6 and 7.
	Over high bench, ascending.
3.70	Fence, bears N. and S.
19.50	Road, bears S.W. and N.E., in canyon, drains S.W.
36.00	Ascend on mountainous slope.
38.00	Spur, bears N.W. and S.E., descend
40.24	I find a limestone, 6×12×5 ins. above ground, firmly set, marked as described by the surveyor general. Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
41.50	Canyon, drains N.W., ascend.
66.50	Recross canyon, drains S.W.
79.50	Recross canyon, drains N.W.
80.39	The cor. of secs. 6 and 7.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd and 4th rates.
	No timber -
	Mountainous land 44.39 chs.
	November 11, 1904.
	Nov. 17, 1907. At this cor. I set off 18°50' S. on the decl. arc, and at 11h 45m I not observe the sun on the meridian; the resulting lat. is 41°48'. Knowing that I can not intersect the 3rd St. Par. N. within closing limit I run
	N. 0°14' W., on true line, on E. bdy. of Sec. 6
	Over mountainous land, through timber, descend.

Subdivision of Tp. 12 N., R. 2 E.

Chains.	
14.00	Spur, bears N.W. and S.E., descend.
22.25	Brook, ½ lk. wide, 1 in. deep, flows N.W. in canyon. Ascend.
40.00	I find a limestone, 6×10×9 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
50.50	Spur, bears N.W. and S.E., descend.
67.00	Gulch, drains N.W., ascend.
82.50	Canyon, elevation 7050 ft.; drains N.W.
82.77	Intersect the Third Standard Parallel North.
	Set a limestone, 17×8×7 ins., 12 ins. in the ground, for closing cor. of secs. 5 and 6, marked C.C. on S., with 1 groove on W. and 5 grooves on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor., pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, pines.
	Mountainous land 82.77 chs.
	Thence I run
	S. 89° 48' W. on Third Standard Parallel North.
	Over mountainous land.
9.83	Intersect the standard cor. of secs. 31 and 32, Tp. 13 N., R. 2 E., herein before described.
	Mountainous land 9.83 chs.
	November 17, 1907.

Boundaries of Tp. 12 N., R. 2 E.

Latitudes, departures, and closing errors.

Line designated	True bear.	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Bdy.	N. 89° 48' W.	474.65	1.66	....	....	474.65
West Bdy:						
secs. 31 and 30	N.	160.00	160.00	....	....	....
secs. 19, 18, 7 and 6	N. 0° 22' W.	326.52	326.52	....	....	2.09
North Bdy.	N. 89° 48' E.	476.07	1.66	....	476.07	....
East Bdy.	S.	490.02	....	490.02	....	....
Convergency			....	....	0.67	....
			489.84	490.02	476.74	476.74
				489.84		
Errors in		latitudes		0.18		

Subdivision of Tp. 12 N. R. 2 E.

General Description

This township is mountainous throughout, with exception of a small part in the north west corner, and along the rivers and water courses also very rough. The soil is rich and well adapted to forestry, and furnishes also good grazing. It is well timbered with pines, cedars and mahoganies. Water abounds, but it falls so rapidly that storing would be difficult and expensive.

There are one permanent settler within the Tp., namely Hans Hansen, on the S.W. 1/4 of sec. 28, with improvements consisting of a frame dwelling house, a small saw mill, barn, stable and corral, value $800.

The following persons claim improvements within the Tp.: Hiram J. De Witt, on N.E. 1/4 of sec. 27, a two room log house and fences, value $400.

Edward and Joseph Crowther, on N.W. 1/4 of sec. 27, each a one room log house, value, each, $150.

Adelbert Bell, same as Tacey Conrad, see Tp. 12 N. R. 3 E.

Olif Cronquist, same as L. Burris, on N.E. 1/4 of sec. 19, a one room frame house, value $125.

Jas. W. Mortimer, fences on S.W. 1/4 of sec. 22, value $50.

William Hyde, a frame house on N.W. 1/4 of S.W. 1/4 of sec. 7, and the land cultivated, value $400.

William C. Kilgore, on E. 1/2 of S.W. 1/4, and lots 5, 6 and 7, sec. 6, a one room frame house and about 30 acres of land cultivated, value $700.

William C. Cates, Eli J. Bell and Robert H. Smith were not found. They are probably among a number ordered off by the Forest Department.

Considerably prospecting for silver had been done in the western portion, but all the work appeared abandoned, and no land is therefore returned as mineral land.

Nephi P. Anderson,
U. S. Deputy Surveyor.

No officer authorized to administer oaths, other than myself, being available without great inconvenience, delay and expense, I administer all required preliminary and final oaths under this contract myself.

Nephi P. Anderson,
U. S. Deputy Surveyor.

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R0363

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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 Nephi P. Anderson, 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 Subdivisions of Tps. 12 N., Rs. 2 and 3 E., Salt Lake Base and Meridian, Utah. showing the respective capacities in which they acted:

George R. Freeman, *Chainman.*
Oscar Lee, *Chainman.*
Rawson A. Lee, *Moundman.*
, *Moundman.*
Errol C. Valentine, *Axman.*
, *Axman.*
Linus Hansen, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Tps. 12 N., Rs. 2 and 3 E., of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for The State of Utah.

George R. Freeman, *Chainman.*
Oscar Lee, *Chainman.*
Rawson A. Lee, *Moundman.*
, *Moundman.*
Errol C. Valentine, *Axman.*
, *Axman.*
Linus Hansen, *Flagman.*

Subscribed and sworn to before me this 2 day of December, 1904.

SEAL

Nephi P. Anderson,
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson, United States Deputy Surveyor, d solemnly swear that, in pursuance of a contract received from Edward L. Anderson, United States Surveyor General for The State of Utah, bearing date of th 12 day of February, 1903, I have well, faithfully, and truly, in my ow proper person, and in strict conformity with the instructions furnished by the United States Surveyo General for The State of Utah, the Manual of Surveying Instructions, and the laws of th United States, surveyed all those parts or portions of Subdivisions of Tps. 12 N., Rs. 2 and 3 E.

Void: Nephi P. Anderson

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

Nephi P. Anderson,
United States Deputy Surveyor

Subscribed by said Nephi P. Anderson, and sworn to before me this 14 day of January, 1908.

SEAL

N. J. Valentine
Clerk of District Court

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 Nephi P. Anderson, 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 Subdivisions of Tps. 12 N., Rs. 2 and 3 E., Salt Lake Base and Meridian, Utah showing the respective capacities in which they acted:

Linus Hansen, *Chainman.*
William N. Lee, *Chainman.*
Harry L. Freeman, *Moundman.*
, *Moundman.*
Errol C. Valentine, *Axman.*
, *Axman.*
Alma Tingey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Tps. 12 N., Rs. 2 and 3 E. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for the State of Utah.

Linus Hansen, *Chainman.*
William N. Lee, *Chainman.*
Harry L. Freeman, *Moundman.*
, *Moundman.*
Errol C. Valentine, *Axman.*
, *Axman.*
Alma Tingey, *Flagman.*

Subscribed and sworn to before me this 17 day of November, 1907

SEAL

Nephi P. Anderson
U. S. Deputy Surveyor.

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for the State of Utah, bearing date of t 12 day of February, 1903, I have well, faithfully, and truly, in my o proper person, and in strict conformity with the instructions furnished by the United States Survey General for the State of Utah, the Manual of Surveying Instructions, and the laws of t United States, surveyed all those parts or portions of Subdivisions of Tps. 12 N. Rs. 2 an 3 E.

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 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 the State of Utah and in the specific manner described in the field notes, and t the foregoing are the original field notes of such survey.

Nephi P. Anderson,
United States Deputy Surve

Subscribed by said Nephi P. Anderson, and sworn to before me this 14 day of January, 1908.

N. J. Valentine
Clerk of District Court

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 9, 19

The foregoing field notes of the survey of the subdivisional lines of Townshi No.12 North, Range No.2 East of the Salt Lake Base and Meridian, Uta

executed by Nephi P. Anderson under his contract No. 260, dated February 12, 190 3, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Bell
United States Surveyor Gen

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

United States Surveyor Gen

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BOOK A-363

FILED
JUN 13 1907

FIELD NOTES

OF THE SURVEY OF THE

South Boundary

of Tp. 12 N. R. 16 E.

Of the Salt Lake Base and Meridian,

Utah.

AS SURVEYED BY

Sylvester P. Anderson, United States Deputy Surveyor,

under his Contract No. 260, dated February 15, 1903

Survey commenced December 1, 1904

Survey completed December 1, 1904

NAMES AND DUTIES OF ASSISTANTS.

Oscar Lee, Chainman.

Rawson A. Lee, Chainman.

Errol C. Valentine, Moundman

Linus Hansen, Axman.

Alma Tingey, Flagman.

For preliminary affidavits see book "A" S.Bdy.T.12 N., R. 3 E.

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INDEX DIAGRAM.

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Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

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

..... *Chainman*

..... *Chainman*

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

SEAL

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

..... *Moundman*

..... *Moundman*

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

SEAL

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

..... *Axman*

..... *Axman*

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

SEAL

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

..... *Flagman*

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

SEAL

Resurvey of the South Boundary of Tp. 12 N., R. 1 E.

Chains

Survey commenced November 1, 1904, and executed with a W. & L. E. Gurley engineers transit. The horizontal limb is provided with two double verniers, placed opposite each other, reading to 20 seconds of arc, and the telescope is provided with a 6 ins. vertical circle, reading by a double vernier to 10 seconds of arc.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and approved by the surveyor general for Utah, June 16, 1903.

The elevations are taken from a two ins. aneroid barometer, made by Asprey, London, and adjusted to railway level at Logan station, Utah.

I search diligently for the closing cor. of Tps. 11 and 12 N., R. 1 E., but find no traces of it.

I also search for the cor. of Tps. 11 and 12 N., R. 2 E., purported to have been set 10.30 chs S. of the cor. of Tps. 11 and 12 N., R. 1 E., but find that no such cor. exists, and that there should be but one cor. for the four townships viz. Tps. 11 and 12 N., Rs. 1 and 2 E., as the retracement and resurvey of the North Boundaries of Tp. 11 N., Rs. 1 and 2 E., hereinafter recorded, shows.

Consequently the jog between the north boundaries of Tp. 11 N., Rs. 1 and 2 E. as shown on the diagram accompanying my contract does not exist.

I find an iron post, with a brass cap, marked R 1 E S 36 T 11 N S 1 R 2 E S 6 T 12 N S 31 No 6

Five lks. S. of the post I set temp. Tp. cor., and at this cor. at $4^h 41^m$ a. m., l. m. t, observe Polaris at western elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground 5 chs. N. of my station.

Latitude 41° 43' 27" N., Longitude 111° 46' 51" W.

November 1: At $8^h 30^m$ a. m., I lay off the

Chains	
	azimuth of Polaris, 1°37', to the east, and mark the true meridian thus determined by a cross on a stone, firmly set in the ground, east of the point established this a.m.
	The magnetic bearing of the true meridian is N. 17°42' W., which gives the magnetic declination 17°42' E.
	Thence I run
	West, on random line, bet. secs. 1 and 36.
40.00	Find no 1/4 sec. cor.
80.00	I search diligently but find no traces of the old cor.
	West, on random line, bet. secs. 2 and 35.
40.00	Find no traces of the 1/4 sec. cor.
80.92	North 26 lks., I find a blue limestone, 18×9×6 ins., loose on an old mound of earth, marked by a stake. The stone is properly marked.
	I reset the stone, 12 ins. in the ground for cor. of secs. 2, 3, 34 and 35, with 4 notches to the west and 2 notches to the east, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Thence I run
	S. 89°54' E. bet. secs. 2 and 35, on resurvey line.
	Over rolling benches.
40.23	Set a sandstone, 16×9×8 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
80.46	Set a limestone, 15×10×8 ins., 10 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked with 5 notches on W. and 1 notch on E. edge, dig pits, 18×18×12 ins. in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling benches.
	Soil, sandy, 2nd rate.
	No timber.

Resurvey of the South Boundary of Tp. 12 N., R. 1 E.

Chains	
	S. 89° 54' E. bet. secs. 1 and 36, on resurvey line.
	Over foothills, ascending.
7.50	Telephone line, bears S. W. and N. E.
11.00	Hercules power line, bears S. W. and N. E.
12.10	Hercules second power line, bears S. W. and N. E.
19.50	Spur, bears S. W. and N. E., descend.
32.00	Road, in cañon, both bear N. W. and S. E.; elevation 4750 ft.; ascend on mountainous slope.
40.23	Set a sandstone, 17 x 12 x 9 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
45.00	Spur; sloping S., descend.
72.00	Road in canyon, both bear S. W. and N. E.; ascend.
77.00	Spur, sloping N., descend.
80.46	The temp. Tp. cor.
	Set a sandstone, 22 x 6 x 4 ins., on surface rock, in mound of stone, for cor. of Tps. 11 and 12 N., Rs. 1 and 2 E., marked with 6 notches on S. W., N. and E. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor., pits impracticable.
	Land, foothills and mountainous.
	Soil, sandy and rocky, 3rd rate.
	No timber.
	Mountainous land 48.46 chs.
	November 1, 1904.

For general description see notes of subdivision.

Nephi P. Anderson,
U. S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

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

.....

ɔwing the respective capacities in which they acted:

r list of names and final oaths of assistants see book "J", *Chainman.*

S.Bdy.T.12 N., R. 2 E., *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

ıeral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

ɔscribed 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 .....

For final affidavit see book "J" S.bdy.Tp.12 N., R. 2 E.

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

.....
United States Deputy Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 9, 190 8

The foregoing field notes of the re survey of the South Boundary of Township No. 12 North, Range No. 1 East of the Salt Lake Base and Meridian, Utah,

executed by Nephi P. Anderson,
under his contract No. 260, dated February 12, 190 3, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the re surveys they describe, are hereby approved.

Thomas Hall
United States Surveyor General.

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

.....
United States Surveyor General.

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BOOK A-363

FILED
JUN 13 1907

H.

FIELD NOTES

OF THE re and retracement SURVEY OF THE

F. S. H.

East Boundary

of

Tp. 12 N., R. 1 E.

Of the Salt Lake Base and Meridian,

Utah

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

ler his Contract No. 260, dated February 12, 1903.

urvey and retracement ~~vey~~ commenced November 1, 1904.

urvey and retracement ~~vey~~ completed November 2, 1904.

6—151

Res. high 3-52-50
low 29-35
Retr. 2-04-65 Cor. 2.0400

NAMES AND DUTIES OF ASSISTANTS.

Oscar Lee,	Chainman,
Rawson A. Lee	Chainman,
Errol C. Valentine,	Moundman,
Linus Hansen,	Axman,
Alma Tingey,	Flagman.

For preliminary affidavits see book "A" Tp.12 N., R. 3 E.

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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 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

.....

.....

6—151

Resurvey of the East Boundary of Tp. 12 N., R. 1 E.

Chains	
	Survey commenced Nov. 1, 1904, and executed with a W. & L. E. Gurley engineers transit, described in notes of resurvey of the south boundary of this Tp.
	From the cor. of Tps. 11 and 12 N., Rs. 1 and 2 E., herein before described, and at which I made an observation of Polaris this morning, I run
	North bet. secs. 31 and 36.
	Over mountainous land, through cedars.
1.90	Road, bears S.W. and N.E., in canyon, draining N.E.; elevation 5900 ft. Ascend on precipitous slope.
28.65	On ridge, bears W. and E.
	I find a lime stone, 10×8×5 ins. above ground, marked W.C. ¼.
28.90	Descend abruptly on timbered slope.
33.30	On cliffs, 50 ft. high, bears N.W. and S.E.; can proceed no farther on line.
	Mark a cedar, 18 ins. diam., W.C. ¼ S.36 on W. and S.31 on E. side, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of tree; pits impracticable.
	Thence I run on offset line
	West 3.00 chs., north 33.52 chs., east 3.00 chs., and at
66.82	Find an iron post, marked W.C. T12N S30 R1E S25, S36 R2E S31, with 5 grooves on N. and 1 groove S., on bevelled edge of cap; No. 5 on top.
67.00	Road, bet. Logan and Bear Lake Valley, bears S.W. and N.E., telephone line along N. side, leave cedars.
67.50	Logan River, 60 lks. wide, 1 ft. deep, flows S.W.
	Ascend on precipitous slope.
71.50	Smithfield and Logan canal, 12 ft. wide, 1 ft. deep, drains S.W.; enter cedars.
72.50	Hercules flume, 6×6 ft., drains S.W.
80.00	5 lks. south of an iron post, marked No. 4 R1E S25 S36 R2E S31 T12N S30, with 1 groove S. and 5 grooves N.
	Set a limestone, 20×6×5 ins., 15 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	A cedar stump, 10 ins. diam., bears S. 31° 15' W.,

Resurvey of the East Boundary of Tp. 12 N., R. 1 E.

Chains	
	57 lks. dist., marked T12 N, R1E, S36 B.T.
	No other trees within limit
	Land mountainous and precipitous.
	Soil, rocky, 3rd rate.
	Timber, pines and cedars on 75.50 chs.
	Mountainous land 80.00 chs.
	November 1, 1904.
	Nov. 2: At this cor. at $4^h 32^m.9$ a.m., l.m.t., I observe Polaris at western elongation in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg, set in the ground 5 chs. N. of my station.
	Latitude 41°44'19" N., longitude 111°46'51" W.
	At $8^h 10^m$ a.m. I lay off the azimuth of Polaris, 1°36'.9, to the east, and mark the true meridian thus determined by a cross on a stone, firmly set in the ground, east of the point established last night.
	The magnetic bearing of the true meridian is N. 17°37' W., which gives the magnetic declination 17°57' E.
	Thence I run
	North bet. secs. 25 and 30.
	Over precipitous slope, ascend abruptly, through cedars.
8.00	Miner's cabin, 2 chs. W.; spring on east side of cabin.
11.00	Shaft, appears abandoned, 1.50 chs. E.
30.00	Spur, bears S.W. and N.E., elevation 6850 ft.
34.00	Descend among pines.
40.00	In maplebrush.
	I search diligently for the old cor., but find no traces of it.
	Set a limestone, 22×6×4 ins., 17 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
40.50	Hollow, drains W., ascend.

Resurvey of the East Boundary of Tp. 12 N., R. 18 E.

Chains	
53.00	Spur, bears E. and W., descend.
62.00	Small hollow, drains N. W., ascend.
80.00	I search diligently for the old cor, but find no trace of it.
	Set a limestone, 22×12×6 ins, 17 ins in the ground, for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor, pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines and cedars, scattered on 80.00 chs.
	Mountainous land 80.00 chs.
	North bet. secs. 19 and 24.
	Over mountainous land; through cedars.
0.05	I find an iron post, with a brass cap, marked R18 S24 S25 R26 S30 T12N S19 No 3 with two grooves on S. and 4 grooves on north bend of cap.
9.00	Spur, bears N. W. and S. E., descend.
11.50	Ringrod, bears N. W. and S. E.
25.75	Canyon, drains N. W., ascend.
31.50	Spur, bears N. W. and S. E., descend.
35.60	Canyon, drains N. W., elevation 4750 ft, ascend.
40.25	On ridge, bears N. W. and S. E.
	West 26 lks. I find a limestone, 10×7×6 ins above ground firmly set, marked and witnessed as described by the surveyor general.
	A cedar, 5 ins diam., bears S. 59°14' E., 1.17 chs dist., marked 14 S19 B.T.
54.00	On S. side of road, bearing S. W. and N. E.
	West 32 lks. I find an iron post, firmly set, marked W. C. S24 S19 No 2.
54.20	Road, bears S. W. and N. E., elevation 5150 ft.
57.00	Wash in Green Canyon, drains S. W. Ascend abruptly.
72.00	Spur, bears S. W. and N. E., descend
80.00	West 51 lks. and N. 50 lks. I find an iron post, firmly set, marked T12 N R18 E S24 S19 No 1, with 3 grooves on N. and S. side.

Chains	
	The bearing of this mile is therefore N. 0°22' W.
	West of this point and at 80.00 chs.
	Set a limestone, 16×8×7 ins., 11 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.
	Land, mountainous
	Soil, rocky, 3rd rate.
	Timber, cedars, scattered on 80.00 chs.
	Mountainous land 80.00 chs.
	N. 0°22' W. bet. secs. 13 and 18.
	Over mountainous land, through cedars, descend.
0.50	The iron post last described
4.70	I find another iron post, firmly set, marked R2E S19 C C T12N S18 No 99, with 3 grooves on N. and S. side of cap.
7.00	Prospect tunnel, 20 lks. E.
7.50	Hollow, drains W.
10.00	Prospect shaft, 75 lks. E.
40.41	I find a sand stone, 15×8×7 ins., loose by the mound. I reset the stone, 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable
52.50	Hollow, drains N. W.; leave rugged mountain and cedars, enter bench.
61.00	Enter alfalfa field.
70.00	Leave alfalfa field, enter grain field.
81.85	I find traces of the old cor., a mound of stone and a stone indistinctly marked.
52.50	
29.35	Set a basaltic rock, 17×7×5 ins., 12 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky and gravelly, 3rd and 2nd rates.
	Timber, cedars on 52.50 chs.
	Mountainous land 52.50 chs.

Traverse of East Boundary of Tp. 12 N., R. 1 E.

Chains	
	N. 0° 22' W., bet. secs. 7 and 12.
	Over mountainous, brushy land, descending
1.75	Fence, bears E. and W., leave grain field.
4.00	Hollow, drains N. W.
12.50	Hollow, drains S. W.
26.00	House of William Hyde bears E., 13 chs. dist.
41.35	I find the old 1/4 sec. cor., which is a boulder, 5 x 10 x 8 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
42.15	Fence, bears E. and W., road along N. side.
45.50	Hollow, drains W., ascend abruptly.
68.50	Hollow, drains W.
82.40	I find the old cor. of secs. 1, 6, 7 and 12, which is a quartz stone, 6 x 12 x 9 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
83.65	
1.75	
	Land, mountainous
	Soil, rocky and gravelly, 3rd rate.
	No timber.
	Land, mountainous and brushy 80.65 chs.
	N. 0° 22' W., bet. secs. 1 and 6.
	Over mountainous, rugged land.
41.12	I find the old 1/4 sec. cor., which is a limestone, 14 x 14 x 10 ins., marked as described by the surveyor general, loose by a mound of stone.
	I reset the stone, 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., 1/4 pits impracticable.
46.00	House of William C. Kilgore bears E., 11 chs. dist.
82.25	Intersect the Third Standard Parallel North, at the closing cor. of Tps. 12 N., Rs. 1 and 2 E., which is a sand stone, 16 x 10 x 9 ins. in mound of stone, marked and witnessed as described by the surveyor general.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	No timber.
	Mountainous land 82.25 chs.
	Note.— The original field notes describe

Chains	
	this cor. 28 lks. west of the standard Tp. cor. of same ranges, but I find both cors. in same mound of stone. November 2, 1904.
	For general description see notes of subdivision of Tps. 12 N., R. 2 E.; Tp. 12 N., R. 1 E., having been previously surveyed. Nephi P. Anderson, U. S. Deputy Surveyor.

Volume
#
R0363

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:

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

"J" S.bdy.T.12 N., R. 2 E. ....., *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

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

neral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

-161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 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 affidavit see book "J" S.bdy.Tp.12 N., R. 2 E.

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

.....

United States Deputy Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 9, 190

The foregoing field notes of the resurvey of and retracement of the East Boundary of Township No.12 North, Range No.1 East of the Salt Lake Base and Meridian, Utah,

executed by Nephi P.Anderson under his contract No. 2C0, dated February 12, 190 3, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurvey and 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-363

D.

FIELD NOTES

OF THE re SURVEY OF THE

Subdivision

of

Tp. 12 N., R. 1 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

under his Contract No. 260, dated February 12, 1903.

Survey commenced November 3, 1904

Survey completed November 4, 1904.

6—161

Res high 1-12-05 ✓
low 2-18-91 ✓

NAMES AND DUTIES OF ASSISTANTS.

Oscar Lee,	Chainman,
Rawson A. Lee,	Chainman,
Errol E. Valentine,	Moundman.
Linus Hansen,	Axman,
Alma Tingey,	Flagman.

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INDEX DIAGRAM.

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

We, Oscar Lee and Rawson A. Lee 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 ~~our~~ survey of Subdivisions of Tps. 12 N., R. 1 E., Salt Lake Base and Meridian Utah.

Oscar Lee, Chainman.
Rawson A. Lee, Chainman.

Subscribed and sworn to before me this 21 day of July, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

I ~~We~~, Errol C. Valentine and ..... do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the ~~our~~ survey of Subdivisions of Tps. 12 N., R. 1 E., Salt Lake Base and Meridian, Utah.

Errol C. Valentine, Moundman.
....., Moundman.

Subscribed and sworn to before me this 21 day of July, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

I ~~We~~, Linus Hansen 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 ~~our~~ survey of Subdivisions of Tps. 12 N., R. 1 E., Salt Lake Base and Meridian, Utah.

Linus Hansen, Axman.
....., Axman.

Subscribed and sworn to before me this 21 day of July, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

I, Alma Tingey, 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 Subdivisions of Tps. 12 N., R. 1 E., Salt Lake Base and Meridian, Utah.

Alma Tingey, Flagman.

Subscribed and sworn to before me this 21 day of July, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

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Resur. Subdivision of Tp. 12 N., R. 1 E.

Chains	
	Survey commenced November 3, 1904, and executed with a W. & L. E. Gurley engineers transit, described in notes of resurvey of the south boundary of this township.
	At the cor. of secs. 1, 2, 35 and 36, on S. bdy. of the Tp., herein before described,
	At 4h 33m a. m., l. m. t., I observe Polaris at western elongation in accordance with instruction in the Manual, and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground 5 chs. north of my station, lat. 41°43'27" N. longitude 111°47'51" W.
	At 7h 15m a. m., l. m. t., I lay off the azimuth of Polaris 1°36'.6 to the east, and mark the meridian thus determined by a cross on a stone firmly set in the ground, east of the point established this a. m.
	The magnetic bearing of the true meridian is N. 17°40' W., which gives the magnetic declination 17°40' E.
	Thence I run
	North, on resurvey line, bet. secs. 35 and 36.
	Over high benches.
4.00	Descend.
10.28	Road, bears N. W. and S. E., in hollow, ascend.
29.00	Ridge, bears N. W. and S. E.
33.00	Hollow, drains N. W.
	Ascend.
36.50	Ridge, bears N. W. and S. E.
	Descend.
38.80	Smart's ditch, 3 ft. wide, 18 ins. deep, drains S. W.
40.00	I search diligently for the old cor., but find no traces of it.
	Set a limestone, 16×12×8 ins., 11 ins. in the

Chains	
	ground, for 1/4 sec. cor., marked 1/4 on W. face, dig pits, 18×18×12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
40.78	Fence, bears S.W. and N.E.
	Enter alfalfa field.
49.00	Descend, leave alfalfa field.
56.50	South bank of Logan River, 2 ft. deep, flows S.W.
57.20	North bank of Logan River
57.60	Road, bears S.W. and N.E.
	Ascend.
57.75	Logan Canal, 10 ft. wide, 18 ins. deep, drains S.W.
68.50	Hercules electric pole line to Logan.
79.50	Road, bears E. and W.
80.00	I find a stake in small mound of stone, but no traces of the old cor.
	Set a sand stone, 17×8×5 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. pits impracticable.
	Land, heavy rolling benches.
	Soil, sandy and gravelly, 2nd rate.
	No timber.
	S. 89° 54' E. on random line, bet. secs. 25 and 36.
40.00	Set temp. 1/4 sec. cor. Find no traces of the old cor.
80.42	Intersect the east bdy. of the Tp. 14 lks. N. of the cor. of secs. 25, 30, 31 and 36, herein before described.
	Thence I run
	N. 89° 48' W., on true line, bet. secs. 25 and 36.
	Over rugged, maintainous land, through cedars, descend
29.00	Logan - Smithfield Canal, 12 ft. wide, 2 ft. deep, drains N.W.
31.00	Logan City electric pole line, bears N.W. and S.E.

Run. Subdivision of Tp. 12 N., R. 1 E.

Chains	
34.00	Hercules electric pole line, bears N.W. and S.E.
40.21	I search diligently for the old cor., but find no traces of it.
	Set a limestone, 20×8×7, 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
	Hercules gate house bears S. 81° E.
	Power house S. 65 1/4° E.
	Residence S. 78 1/4° E.
	Dining house S. 17° E.
	End of siphon S. 32° E.
41.50	Hercules electric pole line to Logan City, bears S.W. and N.E.
	Ascend.
46.75	Logan-Smithfield canal, drains S.W.
47.00	Precipice, bears N.E. and S.W.
	Hercules gate house, bears S. 82 1/2° E.
	Power house S. 77° E.
	Residence S. 86° E.
	Dining house S. 78° E.
	End of siphon S. 56 1/2° E.
49.00	Logan-Smithfield canal, drains N.W.
55.00	Leave rugged mountain and cedars, enter bench.
58.50	Logan electric pole line, bears N.W. and S.E.
80.42	The cor. of secs. 25, 26, 35 and 36.
	Land, mountainous and high bench.
	Soil, rocky and gravelly, 3rd and 2nd rate.
	Timber, cedars, scattered, on 55 chs.
	Land mountainous and rugged 55.00 chs.
	North, bet. secs. 25 and 26, on resurvey line.
	Over rolling bench.
0.30	Logan electric pole line, bears N.W. and S.E.
3.50	Logan Canal, 4 ft. wide, 2 ft. deep, drains west.
19.35	Road, bears E. and W.
40.00	I search diligently for the old cor., but find no traces of it.

Chains Set a limestone, 16×9×5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.

Thence along road.

79.75 Cor. of fences.

80.00 Under fence, bears N. and S.

I search diligently for the old cor., but find no traces of it.

Set a limestone, 14×10×7 ins., 9 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked with two notches on S. and one notch on E. edge, and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor., pits impracticable.

Land, rolling benches.

Soil, gravelly, 2 nd rate.

No timber.

November 3, 1904.

Nov. 4.

S. 89° 48' E., on random line, bet. secs. 24 and 25.

40.00 Set temp. 1/4 sec. cor.

80.49 Intersect the E. bdy. of the Tp. 16 lks. N. of the cor. of secs. 24 and 25, herein before described.

Thence I run

N. 89° 41' W., on true line, bet. secs. 24 and 25.

Over broken, mountain slope, through cedars, decand.

37.00 Leave broken mountain slope and cedars, enter bench.

40.242 I find a limestone, marked 1/4, 30 lks. N. and 26 lks. W., loose on the ground.

Set a limestone, 12×8×8 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.

58.30 Smithfield canal, 12 ft. wide, 1 ft. deep, drains N. W.

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

Land, mountainous and high bench.

Resur. Subdivisions of Tp. 12 N., R. 1 E.

Chains	
	Soil, gravelly and rocky, 3rd and 2nd rate. Timber, cedars on 37.00 chs. Mountainous, broken land 37.00 chs. November 4, 1904.
	General Description The east half of the two sections embraced in this survey is mountainous, precipitous and broken. The west half is high bench, partly cultivated. The mountainous part is largely covered with cedars and pines. There are no settlers on the land, excepting the Hercules Power Company's employees. The mountains has been prospected for minerals, but the work appears abandoned, and no land is therefore returned as mineral land. Nephi P. Anderson, 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 Nephi P. Anderson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the re-survey of Subdivisions of Tps. 12 N., R. 1 E. Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

Oscar Lee, Chainman.
Rawson A. Lee, Chainman.
Errol C. Valentine, Moundman.
, Moundman.
Linus Hansen, Axman.
, Axman.
Alma Tingey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson, United States Deputy Surveyor, in re-surveying all those parts or portions of the Subdivisions of Tps. 12 N., R. 1 E. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been re-surveyed by him and under his direction; and that said re-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 the State of Utah.

Oscar Lee, Chainman.
Rawson A. Lee, Chainman.
Errol C. Valentine, Moundman.
, Moundman.
Linus Hansen, Axman.
, Axman.
Alma Tingey, Flagman.

Subscribed and sworn to before me this 2 day of December, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of 12 day of February, 1905, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Subdivisions of Tp. 12 N. R. 1 E.

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

Nephi P. Anderson
United States Deputy Surveyor.

Subscribed by said Nephi P. Anderson and sworn to before me this 14 day of January, 1908.

N. J. Valentine
Clerk of District Court

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, June 9, 1908

The foregoing field notes of the re-survey of the subdivisional lines of fractional Township No. 12 North, Range No. 1 East of the Salt Lake Base and Meridian, Utah.

executed by Nephi P. Anderson under his contract No. 260, dated February 12, 1903 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-363

J.

U.S.F.
K.F.B.

FIELD NOTES

OF THE SURVEY OF THE

South Bdy. of Tp. 12 N., R. 2 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

under his Contract No. 260, dated February 12, 1903

Survey commenced November 5, 1904

Survey completed November 5, 1904

6—111

Res. high 74-65 V
Water 1.00-00 Pow

NAMES AND DUTIES OF ASSISTANTS.

Oscar Lee, Chainman.

Rawson F. Lee, Chainman.

Errol C. Vallentine, Moundman.

Linus Hansen, Axman.

Alma Tingey, Flagman.

For preliminary affidavits see book "A" S.bdy.Tp.12 N., R. 3 E.

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INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

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

..... *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 establishmen
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 corne
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 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

.....

Resurvey of the South Boundary of Tp. 12 N., R. 2 E.

Chains	
	Survey commenced November 5, 1904, and executed with a W. and L. E. Gurley engineer's transit, described in the field notes of the resurvey of the South Boundary of Tp. 12 N., R. 3 E.
	Failing to find the cor. of secs. 5, 6, 31 and 32, on S. Bdy. of the Tp. I return to the cor. of secs. 4, 5, 32 and 33, at which cor. I made an observation of Polaris October 23, and run
	N. 89° 48' W. bet. secs. 5 and 32, which is the course of the S. bdy. as ascertained from retracement.
	Over mountainous land, descending.
33.00	Canyon, drains N. W., ascend abruptly.
40.04	One lk. S. of the line, I find the old 1/4 sec. cor., which is a limestone, 6×8×6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
70.00	Leave abrupt ascend.
80.00	Find the old cor., loose and out of the ground.
	Set temp. cor. of secs. 5, 6, 31 and 32.
	N. 89° 48' W., on random line, bet. secs. 6 and 31.
40.00	Find no 1/4 sec. cor.
74.65	Intersect the W. bdy. of the Tp. at the cor. of Tps. 11 and 12 N., Rs. 1 and 2 E., herein before described. Thence I run
	S. 89° 48' E., on true line, bet. secs. 6 and 31.
	Over mountainous land descending.
12.15	Canyon, drains N. W., ascend on rocky slope.
34.65	Set a limestone, 18×8×6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
69.00	Ridge, bears N. W. and S. E., descend.
74.65	I find the old cor., loose on the ground.
	Set a limestone, 18×8×5 ins., 12 ins. in the ground, for re-established cor. of sec. 5, 6, 31 and 32, marked with 1 notch on W. and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., pits impracticable.
	Land, mountainous.

Chains

Soil, rocky, 4th rate.
Timber, pines and cedars scattered on 74.65 chs.
Mountainous land 74.65 chs.
November 5, 1904.

For general description see notes of subdivision.

Nephi P. Anderson,
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 Nephi P. Anderson, 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 S. bdy. of Tp. 12 N., Rs. 2 and 3 E., E. bdy. Tp. 12 N., R. 3 E., and resurvey and retracement of E. bdy. of Tp. 12 N., R. 1 E., of the Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

Oscar Lee, *Chainman.*
Rawson A. Lee, *Chainman.*
Errol C. Valentine, *Moundman.*
, *Moundman.*
Linus Hansen, *Axman.*
, *Axman.*
Alma Tingey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson, United States Deputy Surveyor, in surveying all those parts or portions of the S. bdy. of Tp. 12 N., Rs. 1, 2 and 3 E., E. bdy. of Tp. 12 N., R. 3 E., and resurvey and retracement of E. bdy. of Tp. 12 N., R. 1 E., of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for the State of Utah.

Oscar Lee, *Chainman.*
Rawson A. Lee, *Chainman.*
Errol C. Valentine, *Moundman.*
, *Moundman.*
Linus Hansen, *Axman.*
, *Axman.*
Alma Tingey, *Flagman.*

Subscribed and sworn to before me this 2 day of December, 1904.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of the 12 day of February, 1903, 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 State of Utah, the Manual of Surveying Instructions, and the laws of the United States, resurveyed all those parts or portions of S. bdy. of Tps. 12 N., Rs. 1, 2 and 3 E. E. bdy. of Tps. 12 N., R. 3 E., and resurvey and retracement of E. bdy. Tps. 12 N., R. 16 E.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes in books A, C, G, H, and J as having been resurveyed by me, and under my direction; and I do further solemnly swear that all the corners of said resurvey 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 the State of Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such resurvey.

Nephi P. Anderson,
United States Deputy Surveyor.

Subscribed by said Nephi P. Anderson, and sworn to before me this 14 day of January, 1908.

SEAL

N. J. Valentine
Clerk of District Court

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 9, 1908.

The foregoing field notes of the resurvey of the South Boundary of Township No. 12 North, Range No. 2 East, of the Salt Lake Base and Meridian, Utah,

executed by Nephi P. Anderson under his contract No. 260, dated February 12, 1903, having been critically examined, and the necessary corrections and explanations ~~made, the~~ said field notes, and the resurveys 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-363

V. 1 / R. 5

K.

FIELD NOTES

F.B

Re

OF THE SURVEY OF THE

Third Standard Parallel North, Rs. 2 and 3 E.

Of the Salt Lake Base and Meridian,

State of Utah,

AS SURVEYED BY

Nephi P. Anderson, United States Deputy Surveyor,

nder his Contract No. 260, dated February 12, 1903.

l supplemental special instructions dated September 3, 1907

special instructions to Daniel B. Miller from Hon. Com. G. L. O. June 16 1911

urvey commenced November 4, 1907

urvey completed August 15, 1911

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R. 2 E. Res high 5-70-55 ✓

R. 3 E Res high 5-00-00 ✓

NAMES AND DUTIES OF ASSISTANTS.

George R. Freeman,	Chainman.
Festus E. Wright,	Chainman,
Aly L. Freeman,	Chainman.
Orson L. Tingey,	Chainman,
Errol Valentine,	Moundman,
Linus Hansen,	Axman,
Alma Tingey,	Flagman.

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Volume
#
R0363

BOOK A-363

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PRELIMINARY OATHS OF ASSISTANTS.

We, George R. Freeman, Festus E. Wright, and Alf. L. Freeman and Orson L. Tingey 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 ~~u~~ survey of The Third Standard Parallel North, Rs. 2 and 3 E, Salt Lake Base and Meridian, Utah.

George R. Freeman, Chainman.
Festus E. Wright, Chainman.
Alf. L. Freeman, Chainman.
Orson L. Tingey, Chainman.

Subscribed and sworn to before me this 26 day of October, 1907.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

I, ~~We,~~ Errol Valentine and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the ~~u~~ survey of Third Standard Parallel North, Rs. 2 and 3 E, Salt Lake Base and Meridian, Utah

Errol Valentine, Moundman.
, Moundman.

Subscribed and sworn to before me this 26 day of October, 1907.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

I, ~~We,~~ Linus Hansen 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 ~~u~~ survey of Third Standard Parallel North, Rs. 2 and 3 E, Salt Lake Base and Meridian, Utah.

Linus Hansen, Axman.
, Axman.

Subscribed and sworn to before me this 26 day of October, 1907.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

I, Alma Tingey, 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 ~~u~~ survey of The Third Standard Parallel North, Rs. 2 and 3 E, Salt Lake Base and Meridian, Utah.

Alma Tingey, Flagman.

Subscribed and sworn to before me this 26 day of October, 1907.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

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Resurvey of the Third Standard Parallel North, R. 3 E.

Chains

Survey commenced November 4, 1907, and executed with a light mountain transit with solar attachment, made by W. & L. E. Gurley. The horizontal limb is provided with two opposite verniers, reading to 1' of arc, which is also the least count of the verniers of the latitude and declination arc.

The instrument was examined, tested on the true meridian at Salt Lake City, Utah, found correct, and was approved by the surveyor general for Utah, August 7, 1907.

The elevations are taken from a two ins. aneroid barometer, made by Asprey, London.

I begin at the standard corner of Tps. 13 N., R. 3 E., on the W. bdy. of Tp. 13 N., R. 4 E., which is a limestone, 5x8x5 ins. above ground, firmly set, marked and witnessed as described by the surveyor general, in latitude 41°48'40" N., longitude 111°32'59" W., elevation 5650 ft.

In order to test the solar apparatus, by comparing the results of observations on the sun, made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, I proceed as follows:

At 5h 44m p.m., local mean time I set off 41°49' on the latitude arc, 15°10' S. on the declination arc, and mark the meridian thus determined with the solar, by a cross on a stone firmly set in the ground, 5 chs. N. of the instrument.

November 4, 1907.

November 5, 1907. At 4h 26m a.m., l.m.t., I observe Polaris at western elongation in accordance with instructions in the Manual and mark the line thus determined by a tack driven in a wooden peg, set in the ground, 5 chains north of my station.

At 7h 45m a.m., I turn off the azimuth of Polaris, 1°36', to the east and mark the meridian thus determined, by cutting a small groove

Chains

in the stone set last evening, on which the meridian falls 0.3 ins. west of the mark determined with the solar.

At 3h 44m a.m., l.m.t., I set off 41° 49' on the lat. arc, 15° 24' 9" on the decl. arc, and mark the true meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station. This mark falls 0.1 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for the meridians, about 0' 16" and 0' 5" east of the meridian established by the Polaris observation, therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian is N. 18° 2' W., which gives the magnetic declination 18° 2' E.

From the standard cor. above described I run West on S. bdy. of sec. 36, on a random line.

Difference between measurements of 40.00 chs. by two sets of chainmen is 5 lks., position of middle point

By 1st set 40.02½ chs.,

By 2nd set 39.97½ chs., the mean of which is

40.00 Set temp. standard ¼ sec. cor.

Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks., position of middle point

By 1st set 80.02 chs.

By 2nd set 79.98 chs., the mean of which is

80.00 Set temp. standard cor. for secs. 35 and 36.

West on S. bdy. of sec. 35, on a random line.

Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks., position of middle point

By 1st set 40.01 chs.

By 2nd set 39.99 chs., the mean of which is

40.00 Set temp. standard ¼ sec. cor.

Difference between measurements of 80.00 chs. by two sets of chainmen is 7 lks., position of

Chains	
	middle point
	By 1st set 80.03½ chs.
	By 2nd set 79.96½ chs, the mean of which is
80.00	Set temp. standard cor. of secs. 34 and 35.
	The sky is overcast at noon time, and I can take no observation for lat. this day.
	West on S. bdy. of sec. 34, on random line.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks, position of middle point
	By 1st set 40.02 chs.
	By 2nd set 39.98 chs, the mean of which is
40.00	Set temp. standard ¼ sec. cor.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks, position of middle point
	By 1st set 80.03 chs.
	By 2nd set 79.97 chs, the mean of which is
80.00	Set temp. standard cor. of secs. 33 and 34.
	November 5, 1907.
	November 6, 1907, at the last described cor.
	At 7h 44m a.m., l.m.t. I set off 41° 49' on the lat. arc; 15° 42' S., on the declination arc. and mark the meridian thus determined by a cross on a stone, firmly set in the ground, 5 chs. N. of my station.
	From the standard cor. above described I run West, on S. bdy. of sec. 33, on random line.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 5 lks, position of middle point
	By 1st set 40.02½ chs.
	By 2nd set 39.97½ chs, the mean of which is
40.00	Set temp. standard ¼ sec. cor.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks, position of middle point
	By 1st set 80.04 chs.
	By 2nd set 79.96 chs, the mean of which is
80.00	Set temp. standard cor. of secs. 32 and 33.

Chains	
	November 6, 1907: I set off 15°48' S. on the decl. arc, and $11^h 46^m 41^s$ by my watch, which is 3^m fast of local mean time, observe the sun on the meridian, and obtain on the latitude arc 41°49', which agree with other data.
	West on S. bdy. of sec. 32, on random line.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 3 lks., position of middle point
	By 1st set 40.01½ chs.
	By 2nd set 39.98½ chs., the mean of which is
40.00	Set temp. standard ¼ sec. cor.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks., position of middle point
	By 1st set 80.05 chs.
	By 2nd set 79.95 chs., the mean of which is
80.00	Set temp. standard cor. of secs. 31 and 32.
	West on S. bdy. of sec. 31, on random line.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 7 lks., position of middle point
	By 1st set 40.03½ chs.
	By 2nd set 39.96½ chs., the mean of which is
40.00	Set temp. standard ¼ sec. cor.
	Difference in measurements of 80.00 chs. by two sets of chainmen is 7 lks., position of middle point
	By 1st set 80.03½ chs.
	By 2nd set 79.96½ chs., the mean of which is
80.00	Set temp. standard cor. of Tps. 13 N., Rs. 2 and 3 E.
	November 6, 1907.
	November 7, 1907.
	At $8^h 14^m$ a. m., l. m. t., I set off 41°49' on the lat. arc, 16°01' S. on the declination arc, and mark the meridian thus determined with the solar, by a cross on a stone, firmly set in the ground, 5 chs. N. of my station.

Chains	
	West, on S. bdy. of sec. 36, on random line
	Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks., position of middle point
	By 1st set 40.02 chs.
	By 2nd set 39.98 chs., the mean of which is
40.00	Set temp. standard 1/4 sec. cor.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 9 lks., position of middle point
	By 1st set 80.04 1/2 chs.
	By 2nd set 79.95 1/2 chs., the mean of which is
80.00	Set temp. standard cor. of secs. 35 and 36.
	West, on S. bdy. of sec. 35, on random line.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks., position of middle point
	By 1st set 40.03 chs.
	By 2nd set 39.97 chs., the mean of which is
40.00	Set temp. standard 1/4 sec. cor.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks., position of middle point
	By 1st set 80.05 chs.
	By 2nd set 79.95 chs., the mean of which is
80.00	Set temp. standard cor. of secs. 34 and 35.
	November 7: At this cor. I set off 16° 06' 8" on the decl. arc, and at 11h 44m, l. m. t., observe the sun on the meridian, the resulting lat. is 41° 49'.
	West on S. bdy. of sec. 34, on random line.
	Difference bet. measurements of 40.00 chs. by two sets of chainmen is 5 lks., position of middle point
	By 1st set 40.02 1/2 chs.
	By 2nd set 39.97 1/2 chs., the mean of which is
40.00	Set temp. standard 1/4 sec. cor.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 9 lks., position of middle point
	By 1st set 80.04 1/2 chs.
	By 2nd set 79.95 1/2 chs., the mean of which is
80.00	Set temp. standard cor. of secs. 33 and 34.

Chains	
	West, on S. bdy. of sec. 33, on random line.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks., position of middle point
	By 1st set 40.02 chs.
	By 2nd set 39.98 chs., the mean of which is
40.00	Set temp. standard 1/4 sec. cor.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks., position of middle point
	By 1st set 80.03 chs.
	By 2nd set 79.97 chs., the mean of which is
80.00	Set temp. standard cor. of secs. 32 and 33.
	November 7, 1907.
	November 8, 1907.
	At $8^h 14^m$ a. m., l. m. t., I set off 41° 49' " on the lat. arc., 16° 19' S. on the decl. arc., and mark the meridian thus determined with the solar, by a cross on a stone, firmly set in the ground, 5 chs. N. of my station.
	West on S. bdy. of sec. 32, on random line.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 8 lks., position of middle point
	By 1st set 40.04 chs.
	By 2nd set 39.96 chs., the mean of which is
40.00	Set temp. standard 1/4 sec. cor.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks., position of middle point
	By 1st set 80.04 chs.
	By 2nd set 79.96 chs., the mean of which is
80.00	Set temp. standard cor. of secs. 31 and 32.
	Note.—The sun is obscured at noon and meridian observation for latitude can not be obtained.
	West, on S. bdy. of sec. 31, on random line.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks., position of

Chains	
	middle point
	By 1st set 40.03 chs.
	By 2nd set 39.97 chs.; the mean of which is
40.00	Set temp. standard 1/4 sec. cor.
	Difference between measurements of 70.55 chs by two sets of chainmen is 14 lks.; position of middle point
	By 1st set 70.62 chs.
	By 2nd set 70.48 chs.; the mean of which is
70.55	Intersect the W. bdy. of the Tp. 3.31 chs. N. of the standard cor. of Tps. 13 N., Rs. 1 and 2 E., which is a sandstone, 16x12x10 ins., in mound of stone, marked and witnessed as described by the surveyor general.
	The true bearing from this cor. to the standard cor. of Tps. 13 N., R. 3 E. upon the W. bdy. of Tp. 13 N., R. 4 E., is therefore N. 89° 48' E.

November 8, 1907.

Nephi P. Anderson,
U. S. Deputy Surveyor.

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Chains	
	November 9, 1907: At the standard cor. of Tps. 13 N., Rs. 1 and 2 E., herein before described, at 8h 14m a. m., l. m. t., I set off 41° 49' on the lat. arc, 16° 36' S. on the declination arc, and determine a true meridian with the solar.
	Thence I run
	N. 89° 48' E., on S. bdy. of sec. 31, on true line.
	Over mountainous land, descending.
2.20	Hollow, drains S., ascend.
4.50	Spur, bears N. and S., descend.
15.00	Wash, in canyon, drains S. W.
18.00	Road, bears S. W. and N. E., elevation 5200 ft.
	Ascend.
	Difference between measurements of 30.55 chs. by two sets of chainmen is 4 lks., position of middle point
	By 1st set 30.57 chs.
	By 2nd set 30.53 chs., the mean of which is
30.55	Set a limestone, 27 x 8 x 7 ins., 21 ins. in the ground, for standard 1/4 sec. cor., marked S 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable
40.12	I find the old standard 1/4 sec. cor., which is a limestone, 15 x 12 x 6 ins., in mound of stone, marked and witnessed as described by the surveyor general.
	I reverse the stone, set it 10 ins. in the ground, for 1/4 sec. cor. of sec. 6, obliterate S 1/4, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.; pits impracticable.
44.00	Spur, bears N. and S.
	Enter scattered cedars and pines.
70.25	Limestone ledges, 8 ft. high, bears N. W. and S. E.
	Difference between measuremets of 70.55 chs. by two sets of chainmen is 7 lks.; position of middle point
	By 1st set 70.58 1/2 chs.
	By 2nd set 70.51 1/2 chs., the mean of which is
70.55	Set a limestone, 17 x 7 x 5 ins., 12 ins. in the ground, for standard cor. of secs. 31 and 32, marked S Cor. N., with 1 groove on W. and 5 grooves on

Chains	
	E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, cedars and pines, scattered on 26.55 chs.
	Mountainous land 70.55 chs.
	N. 89° 48' E., on S. bdy. of sec. 32, on true line.
	Over mountainous land, through scattered cedars and pines.
5.00	Sharp, rocky spur, bears N. and S., descend.
9.50	Canyon, drains N. W., ascend.
9.83	S. 20 lks., I find an iron post, firmly set, marked U. S. Geological Survey, Forest Reserve, W C T 12 N. R 2 E C C N 593, with 1 groove W. and 5 grooves E., on brass cap.
	I search diligently for the old cor., but find no traces of it.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 10 lks., position of middle point
	By 1st set 40.05 chs.
	By 2nd set 39.95 chs., the mean of which is
40.00	Set a limestone, 16 × 10 × 5 ins., 11 ins. in the ground, for standard ¼ sec. cor., marked S. C ¼ on N. face, and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
49.83	I search diligently for the old cor., but find no traces of it.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks., position of middle point
	By 1st set 80.05 chs.
	By 2nd set 79.95 chs.; the mean of which is
80.00	Set a limestone, 15 × 9 × 8 ins., 10 ins. in the ground, for standard cor. of secs. 32 and 33, marked S C on N., with 2 grooves on W. and 4 grooves on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
	Land, mountainous.
	Soil, gravelly and rocky, 3rd rate.
	Timber, cedars and pines, scattered on 80.00 chs.
	Mountainous land 80.00 chs.

Chains	November 9; At 11h 44m l. m. t., I set off 16° 41' S., on the decl. arc, and observe the sun on the meridian; the resulting lat. is 41° 49'.
	N. 89° 48' E., on S. bdy. of sec. 33, on true line.
	Over mountainous land, through scattered pines.
	Ascend.
9.35	N. 60 lks., I find the old cor., which I destroy.
28.50	Ridge, bears N. E. and S. W., elevation 8950 ft.
	Thence over southern, broken, mountain slope.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 14 lks., position of middle point
	By 1st set 40.07 chs.
	By 2nd set 39.93 chs., the mean of which is
40.00	Set a limestone, 18×8×6 ins., 12 ins. in the ground, for standard 1/4 sec. cor., marked S C 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
49.35	After diligent search I find no traces of the old cor.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 18 lks., position of middle point
	By 1st set 80.09 chs.
	By 2nd set 79.91 chs., the mean of which is
80.00	Set a limestone, 17×7×7 ins., 12 ins. in the ground, for standard cor. of secs. 33 and 34, marked S C on N., with 3 grooves on E. and W. faces, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines, scattered on 80.00 chs.
	Mountainous land 80.00 chs.
	Note.- The sky is overcast the entire night. Polaris can not be observed.
	November 9, 1907.
	November 10, 1907: At the cor. last described, at 8h 44m a. m., l. m. t., I set off 41° 49' on the lat. arc, 16° 56' S. on the decl. arc, and determine the true meridian with the solar-

Chains	Thence I run
	N. 89° 48' E., on S. bdy. of sec. 34, on true line.
	Over mountainous land, through scattered pines.
	Descend.
9.35	I search diligently for the old cor., but find no traces of it.
16.00	Brook, 2 lks. wide, 2 ins. deep, flows S.W. in Water Canyon, elevation 8450 ft., ascend.
24.00	Ridge, bears S.W. and N.E., descend.
37.50	Hollow, drains S.W., ascend.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 12 lks., position of middle point.
	By 1st set 40.06 chs.
	By 2nd set 39.94 chs., the mean of which is
40.00	Set a limestone, 13×8×6 ins., 12 ins. in the ground for standard ¼ sec. cor., marked S. 6¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
44.00	Ridge, bears S.W. and N.E.
47.35	After diligent search I find no traces of the old cor.
59.00	Ridge, bears N. and S., descend.
72.00	Hollow, drains S., ascend.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 18 lks., position of middle point.
	By 1st set 80.09 chs.
	By 2nd set 79.91 chs., the mean of which is
80.00	Set a limestone, 19×9×6 ins., 14 ins. in the ground for standard cor. of secs. 34 and 35, marked S. 6 on N., with 4 grooves on N. and 2 grooves on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor., pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines, scattered on 80.00 chs.
	Mountainous land 80.00 chs.

November 10: I set off 11h 30m S. on the dist. arc and, at 11h 36m 15s by my watch, which is 3m fast of t. m. t., I observe the sun on the meridian, and obtain on the lat. arc

Chains	
	the reading 41°49' which agrees with other data.
	N. 89°48' E., on S. bdy. of sec. 35, on true line.
	Over mountainous land, through scattered pines.
	Ascend.
8.80	N. 78 lks. I find the old cor., which I destroy.
20.00	Ridge, bears N. and S., descend.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 14 lks., position of middle point
	By 1st set 40.07 chs.
	By 2nd set 39.93 chs.; the mean of which is
40.00	Set a limestone, 15×9×5 ins., 10 ins. in the ground, for standard 1/4 sec. cor.; marked S 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
46.00	Green Canyon, drains S.W.; elevation 8450 ft.
	Ascend.
48.80	I search diligently for the old cor., but find no traces of it.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 20 lks., position of middle point
	By 1st set 80.10 chs.
	By 2nd set 79.90 chs.; the mean of which is
80.00	Set a limestone, 16×9×9 ins., 11 ins. in the ground, for standard cor. of secs. 35 and 36, marked S Cor N., with 5 grooves on W. and 1 groove on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
	A pine, 14 ins. diam., bears N. 52°42' W., 2.72 chs. dist., marked T13 N R2 E S35 B.T.
	A pine, 9 ins. diam., bears N. 15°2' E., 1.85 chs. dist., marked T13 N R2 E S36 B.T.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines, rather dense, on 80.00 chs.
	Mountainous land 80.00 chs.
	November 10:
	At this cor. at 11h 44m l. m. t., I set off 16° 58' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 41° 49'.

Resurvey of the Third Standard Parallel North, R. 2 E.

Chains	
	N. 89° 48' E., on S. bdy. of sec. 36, on true line.
	Over mountainous land, through pines.
	Ascend.
4.00	Ridge, bears N. E. and S. W., elevation 9720 ft.
	This is divide between Logan River and Green Canyon drainages.
	Descend.
8.82	N. 1.20 chs. I find the old cor.; which I destroy.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 12 lks.; position of middle point
	By 1st set 40.06 chs.
	By 2nd set 39.94 chs.; the mean of which is
40.00	Set a limestone, 15×8×8 ins., 10 ins. in the ground, for standard 1/4 sec. cor., marked S. C. 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
45.00	Hollow, drains S. E.
48.82	I search diligently for the old cor., but find no traces of it.
64.00	Precipitous spur, bears N. W. and S. E., descend.
75.50	Hollow, drains S. E.
	Thence along southern slope
	Difference between measurements of 80.00 chs. by two sets of chainmen is 16 lks.; position of middle point
	By 1st set 80.08 chs.
	By 2nd set 79.92 chs.; the mean of which is
80.00	Set a limestone, ~~18×7×6~~ 14×4×24 ins., 14 ins. in the ground, on bed rock, in mound of stone, for standard cor. of Tps. 13 N., Rs. 2 and 3 E., marked S. C. 13 N. on N., 2 E. on W., 3 E. on E. face, with 6 grooves on W., N. and E. faces, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.; pits impracticable.
	Land, mountainous.
	Soil, rocky, 4th rate.
	Timber, pines, scattered on 80.00 chs.
	Mountainous land 80.00 chs.
	Note.—I search diligently for the old Tp. cor. but find no traces of it
	November 10, 1907.

cor. re-established. page 21 This book.

For general description of Tp. 12 N., R. 2 E., see notes of subdivision.

Tp. 13 N., R. 2 E., is mountainous and rough, but contains good graging land, and should be subdivided.

Nephi P. Anderson,
U. S. Deputy Surveyor.

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Page

East, Salt Lake Base and Meridian. Utah.

In obedience to instructions from the Hon. Commissioner of the General Land Office, dated June 16, 1911 I have the honor to report the resuevey of the 3rd, Standard Parallel N. through Range 3 East. Salt Lake Base and Meridian, Utah. Survey commenced August 2, 1911 and executed with a Young and Sons, Light Mountain Transit No. 6517 with a Smith 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 tested by me on the true meridian at Salt Lake City, July 27, 1911 and examined and found correct in all its parts.

I examined the adjustment of the transit and correct the level and collimation errors, then to test the solar apparatus by comparing its indications resulting from solar observations during a.m. and p.m. hours with observations on Polaris, I proceed as follows.

Near the closing corner of secs. 4 and 5 T. 12 N. R. 3 E. at 4h. 30m. p.m. l.m.t. Aug. 2, I set off 41° 49' on the lat. arc and 17° 54' N. on the dec. arc and determine the meridian with the solar.

I mark the line thereof by noting a straight dead spruce on line about 1/2 mile S. of my station.

At 8h. 10m. p.m. I observe Polaris and mark a point in line therewith by setting a hub in the ground 3.00 chs. N. of my station. I also noted a tree on line on a mountain about one mile N.

Astronomical time of observation, Aug. 2, 1911.	8h. 10m.
Equivalent to time Aug. 1,	32h. 10m.
Astron. time, U.C. Polaris Aug. 1, 16h. 49m.	
Reduction to Aug. 2, subtract 4m.	
Aston. time of U.C. Polaris Aug. 2, 16h, 45m.	16h, 45m.
Hour angle of Polaris at observation	15h. 25m.

Resurvey of the 3rd, Stand Parallel, N. through Range 3 E.

Hour angle of Polaris at observation,	15h, 25m.
Subtract from	23 56
Time argument,	8h, 31m.
Azimuth of Polaris, at observation,	1°14' E.

August 3rd, at 8h.a.m. I set off the azimuth of Polaris 1°14' to the west, and mark the true meridian thus determined, by setting a hub in the ground about 3.00 chs. N. of my station, also coinciding with the meridian obtained by my solar observation yesterday.

At 8h, 10m. a.m. l.m.t. At the same point I set off 41°49' on the lat. arc, and 17°43' N. on the dec. arc and find the same resulting meridian.

I therefore conclude the adjustments of the instrument are satisfactory.

The chaining was done with a 2 chain steel tape tested by me at Salt Lake City on the standard.

Slope angles were read from an Abney Clinometer and reduced to the horizontal. The measurments were frequently checked from stadia readings.

This line crosses Logan River Canon and several canons branching off therefrom, at nearly right angles with the line.

These canons have such perpendicular walls and are so deep and the mountain spurs between are so steep, and in places covered with such dense growth of mountain laurel and other obstructions rendering the surface so difficult of access that I found it impractical to run the random or reconnoissance line through as a continuous line from one township corner to the other.

I therefore ran it in fractional parts, and part was run in opposite direction, but for convenience and uniformity I have written the field notes as though randum was run regularly and continuously.

Resurvey of the 3rd, Stand. Parallel N. Through Range 3 East.

August 3rd, 1911 I proceed to the vicinity of the standard corner of township 13 N. Range 3 E. and the closing cor. of township 12 N. Rang 3 E., where I found two corners 205 lks. dist. east and west from each other, evidently left by different deputy surveyors to mark the same corner point.

The west corner is a blue limestone, 6x8x10 in. above the surface, set in a mound of stone on solid bedrock surface, marked with 6 grooves on the S and W faces, CC on E. face, SC on W face, Mound of stone N. of cor.

This is the corner recognized by U.S. Deputy Surveyor, Nephi P. Anderson, under contract No. 260 and from which he initiated his resurvey of this standard parallel.

The other corner is 205 lks. E. of this corner and is a blue limestone, 5x7x8 in. above surface, marked with 6 grooves on the S, E and W. surface, SC on N. face, mound of stone N. of the cor.

In order to determine which of these corners was the true corner, I traced the line north bet. secs. 31 and 36 from the last described corner, and at 40.21 chs, fall 21 lks. W. of the 1/4 cor. and at 80.11 chs. 31 lks. W. of the corner of secs. 25, 30, 31 and 36.

These corners were both well built and properly marked.

Not having any knowledge that the township east of this line had been subdivided, I did not look for the closing corner for secs. 30 and 31. Such corner may have been obscured by the dense underbrush in the vicinity on the steep sidehill.

I returned to the corner from which I started the last line, and ran south.

At 4.62 chs. I fell 201 lks. E. of the S.W. corner of T. 13 N. R. 4 E. set by deputy surveyor Anderson. See pag Book D

This corner clearly seems out of place, because it is 7.88 chs. W. of the 1/4 cor. on the S. bdy. of sec. 31 instead of 6.15 chs. according to the plat and field notes, and is out of line with the corners to the north.

Resurvey of the 3rd, Stand. Parallel N. through Range 3 E.

I therefore destroyed the mound of stone and moved the corner 205 lks. east for the S.W. corner of township 13 N. Range 4 east.

See page 2 Book D.

This corner is a blue limestone, 10x12x16 in. set 10 in. in the ground, marked with 6 grooves on the north, and east faces and CC on the south face. T 13 N R 4 E on N. face. Build a mound of stone 2 1/2 ft. high, 3 ft at base north of the corner.

I destroy the west one of the two corners found for the S.E. corner of sec. 36 T. 13 N. R. 3 E.

August 4th, at the Stand. cor. at the intersection of the Standard Parallel with the west boundary of T. 13 N. R. 4 E. at 9h. a.m. l.m.t. I set off 41° 49' on the lat. arc and 17° 27' N. on the dec. arc and determine the meridian. Thence I run S. 89° 48' W. on the S. boundary of sec. 36 on a reconnoissance line.

41.40	Fall 10 lks. N. of the 1/4 cor. on S. bdy. of sec. 36.
51.35	Fall 11 lks. N. of the closing corner for secs. 1 and 2.
81.65	Fall 28 lks. N. of the Stand. Cor. of Secs. 35 and 36.
121.85	Fall 24 lks. N. of the 1/4 cor. on S. bdy of Sec. 35.
131.15	Fall 52 lks. N. of the Closing Cor. of Secs. 2 and 3.
161.93	Fall 72 lks. N. of the Standard Cor. of Secs. 34 and 35.
202.18	Fall 106.1 lks. N. of the 1/4 Cor. on the S. bdy of Sec. 34.
210.80	Fall 107 lks. N. of the Closing Cor. of Secs. 3 and 4.

August 5, at this point, at 9h. A.M. I set off 41° 49' on the lat. arc, and 17° 11' N. on the dec. arc, and determine the meridian with the solar.

Continued line S. 89° 48' W.

242.56	Fall 129 lks. N. of the Stand. Cor. of secs. 33 and 34.
282.28	Fall 220 lks. N. of the 1/4 Cor. on the S. bdy of Sec. 33.
290.17	Fall 195 lks. N. of the Closing Cor. of Secs. 4 and 5.
322.77	Fall 149 lks. N. of the Stand. Cor. of Secs. 32 and 33.

The point for the 1/4 sec. corner falls in a deep Canon, and I did not find the corner.

370.15	Fall 40 lks.S . of the mound of stone at the Closing corner of Secs.5 and 6.
	The stone had been removed,but the mound was intact.
403.14	Fall 20 lks.S.of the Stand. Cor.of Secs. 31 and 32.
440.69	Fall 170 lks. N.of the 1/4 cor. on the S bdy.of sec.31.
474.58	Intersect the Closing Cor.of Secs. 1 and 6,Ranges 2 and 3 East,T 12 N.
480.12	Fall 82 lks. N.of the mound of stone at the corner point for the Stand.Cor. of T.13 N.Rgs. 2 and 3 E.
	The stone had been removed.Mound. intact.
	I continue my line across Range 2,and at 951.13 fall 10 lks.N.of the Stand. Cor.for Rgs. 1 and 2 T.13 N.
	From which it appears that the distance to the partly destroyed Stand.Corner bet.Rgs. 2 and 3 is about the proper distance,but 82 lks. too far South.
	Allowing for difference of measurment over an exceptionally rough surface,the distances between the Standard Township Corners,was found sufficiently close for acceptance, but the Stand. Cor.of Rgs.2 and 3 was out of alinement.
	I therefore destroyed the old mound for this corner and set a new corner therefor 76 lks. N.of the old corner point.
	A limestone,14x4x24 in.set 10 in.above surface,in mound of stone,on bedrock,
	Marked,SC T 13 N 111111 on N. face,
	R 3 E 111111 on E face,
	R 2 E 111111 on W face,
	Mound of stone 3 ft.base,2 1/2 ft.high N.of the Cor.

See p 14, this

Resurvey of the 3rd, Stand Parallel N. through Range 3 East.

August 10, 1911 at the reestablished Standard Corner of Ranges 2 and 3 E heretofore described, at 9h. A.M.l.m.t I set 41°49' on the lat.arc, and 15°47' on the dec. arc and determine the meridian with the solar.

Thence I run on true line N.89°48' E. on S.bdy of Sec. 31.

Note. On account of this line crossing an exceedingly rough surface, several points being inaccessible, others over pinnacles, others ascending and descending cliffs and solid walls, hundreds of feet high, others through dense mountain laurel thickets, I found it impractical to run the line either as a tangent or secant, or chain with double party.

I took solar observations every half mile or as nearly as possible, and directed my chainmen to spare no effort to secure accurate measurments.

Along steep S. slope of high mountain spur over very broken surface.

5.54 Intersect the closing corner for Secs. 1 and 6 T.12 N. Ranges 2 and 3 East.

A granite 12x8x18 in. set 10 in. above surface in mound of stone on bedrocksurface, 6 grooves on the South, East and West faces, CC on South face.

Mound of stone 3 ft. base 2 1/2 ft. high S. of the Cor.

22.50 Begin steep descent through dense mountain laurel and sarvice brush.

40.00 Set 1/4 Cor.

A limestone 12x4x18 in. Set firmly in earth 10 in. above surface, Supported by stone base,

Marked, 1/4 on N. face,

Mound of stone 2 ft. base 18 in. high N. of the corner. I destroyed the old corner.

42.00 Dry draw, cse. S.E. ascend over broken surface.

48.50 Top of ridge, slopes S. descend sharp E slope.

66.00 Bottom of draw, dry, ascend steep W. side of spur.

68.00 Top of spur, slopes S. Steep descent from top.

72.00 Draw, with small spring outlet, in bottom. Cse. S. Ascend steep W. slope of high mountain,

Resurvey of the 3rd, Standard Parallel N. through Range 3 East.

80.00 Set a sandstone 8x8x16 in. firmly in mound of earth and stone for standard corner for secs. 31 and 32.
Marked, SC on N. face, 1 groove on W. face 5 grooves on E. face.
Built a mound of stone 2 1/2 ft. base, 24 in high, N. of the corner.
I destroyed the old corner.
Mountainous land, 80.00 chs. 4th, rate.
An occasional scrub cedar or pinon.
Mostly dense growth of mountain laurel, service berry or [illegible] or sage brush.

N. 89° 48' E. on S. bdy of sec. 32.
Steep ascent of high mountain spur, through dense underbrush.
16.00 Top of high mountain, 800 ft. above last draw. Descend through very dense thicket of laurel aspen and alder particularly difficult to penetrate.
30.05 Set a granite 16x10x8 in. firmly in ground, 6 in. above the surface, for closing corner of secs. 5 and 6 See pa 45 and 4 Book "B
Marked, CC on S. face, 1 groove on W. face and 5 grooves on the E. face.
Built a mound of stone 3 ft. base and 2½ ft. high S of the corner.
Destroyed the mound of stone at the old corner.
34.00 Set a granite 20x14x12 in. Marked SC WC 1/4 on N. face for The witness corner for the 1/4 cor. for S. bdy sec. 32.
Built a mound of stone 2 1/2 ft. base 24 in. high N. of cor.
34.15 Over edge of sandstone ledge dropping several hundred feet into an inaccessible point in canon or surface depression, line falling among a mass of ledges cliffs and canon debris.
40.00 Impractical to build corner at corner point.
To obtain the distance across the iaccessible place on line, I set the Stadia Rod on line and with the instrument on the witness corner, the reading on the rod is 5.55 ft. between the outside stadia hairs. Angle of eleva. 4° 10'.

Resurvey of the 3rd, Stand. Parallel through Range 3 East.

The stadia interval of the instument being 1 to 132.

The coefficient for 4°10' being .9947, the distance across is 11.04 chs.

45.19 Stadia point on top of sandstone dike projecting N.

Begin Very steep descent over perpendicular walls and rocky projections, cliffs and breaks.

76.00 Leave same, through dense undergrowth.

80.00 Set a granite 18x6x6, firmly, 8 in. above surface, for Stand. cor. for secs. 32 and 33. Marked S C on N. face, 2 grooves on the W. face and 4 grooves on the E. face.

I built a mound of stone 3 ft. base and 2 1/2 ft. high N. of the corner.

Destroyed the old corner.

Surface all mountainous. Badly broken, over declivities and through dense undergrowth and all very difficult to survey.

Little or no soil.

August 10, 1911.

August 12, at this corner at 9h30m A.M. l.m.t. set off 41°49' on the lat. arc and 15°12' W on the dec. arc, and determined on meridian with the solar.

Thence N. 89°48' E. on S. bdy of sec. 33

Over steep descent through dense undergrowth.

8.00 Bottom of deep canon, dry, Cse S.E. begin steep ascent, through scattered patches of dense undergrowth.

23.00 Top of S. side of high spur, Descend steep E. slope.

page 35 HF 29.85 Set closing corner for secs. 4 and 5.

A granite 16x8x6 in. in bed of sliderock.

Marked, CC on S. face, 2 grooves on W face and 4 grooves on E. face.

Built mound of stone 3 ft. base, 2 1/2 ft high S. of cor.

Destroyed old corner.

31.00	Wagon Road between Logan and Bear Lake.N & S.
31.50	Logan River,course South,2 ft.deep. Right bank.
32.50	Left bank of Logan River,ascend steep mountain spur.
40.00	Set a sandstone 6x8x18 in for Stand. 1/4 corner for the S bdy of sec.33,firmly set 7 in.above ground, . . . Marked 1/4 SC on N.face. Md.of stone 3 ft.base 2 ft.high erected N.of cor.I destroyed the old corner.
42.00	Descend into canon.
45.00	Bottom of canon.Small stream of water,use N.W.Ascend very steep mountain spur.
80.00	Set a sandstone 6x5x18 in.for Stand.corner of secs. 33 and 34.firmly set in md.of stone and earth. Marked SC on N. face,3 grooves on E.and W. faces. Erected a mound of stone 3 ft.base and 2 1/2 ft.high N.of the corner. I destroyed the old corner. Surface all mountainous,patches of dense gth.of laurel and sarvice brush. An occasional pinon or scrub cedar. Land 4th,rate.

	N.89° 48' E.on S.bdy of sec.34. Continue steep ascent of spur,over open surface.
11.00	Top of spur,about 600 ft.above Logan River.
29.40	Set a sandstone 7x10 18 in.for closing corner of secs. 3 and 4.Firmly set in md.of stone and earth, Marked with 3 grooves on E and W faces.CC on S face. I erected a mound of stone 3 ft.at base and 2 1/2 ft. high,S of the corner. Destroyed the old corner. August 14,1911 at this corner at 9h.A.M. l.m.t. I set off 41° 49' on the lat.arc,and 14° 36'30" N.on the dec,arc,and determine the meridian with the solar.
40.00	Set a granite 8x8 x 16 in.for Stand.1/4 sec.cor. Marked,1/4 SC on N.face.Set firmly in ground,8 in.above surface.Erected mound of stone 3 ft.base,2 ft.high.N.of the corner. I destroyed the old corner.

See page Book B

	Descend through dense thicket.
60.00	Foot of descent, dry draw, drains N. Ascend.
70.00	Top of ascent, desc. Through dense thicket.
80.00	Set a granite 7x10x24 in. for Stand. corner of secs. 34 and 35. Marked SC on N. face, 4 grooves on W. face and 2 on E. face. Firmly set in earth, 8 in. above surface. Built mound of earth 3 ft. base, 2 1/2 ft. high N. of corner. Destroyed the old corner. Surface mountainous, Steep and heavily rolling. Groves of thick Aspen, and patches of sarvice brush.
	N. 89° 48' E. on S. bdy of sec. 35. Surface same. Through dense thicket.
4.50	Enter open surface.
19.00	Enter Aspen thicket.
page 17 "B" 29.07	Set a granite 10x10x20 in. for closing corner for secs. 2 and 3. Marked 2 grooves on E face and 4 grooves on W. face. CC on S. face, formly set in earth, 7 in. above surface. I built a mound of earth 2 1/2 ft. at base and 18 in. high S. of the corner. Destroyed the old corner.
37.25	Telephone line N and S.
40.00	Set a granite 8x10x24 in. for the Stand. 1/4 cor. on S. bdy. of sec. 35. Marked 1/4 SC on N. face. Set firmly 18 in. in earth. I built a mound of ston 3 ft. base, 2 1/2 ft. high N. of the corner. Destroyed the old corner.
42.00	Leave aspen thicket, Ascend steep ridge.
46.00	Top of ridge N. and S. Descend through Aspen thicket.
74.00	Temple Creek, 20 lks. wide, Cse. N.W. Ascend steep ridge.
80.00	Set a granite 6x10x20 in. for Stand. cor. of secs. 35 and 36. Marked SC on N. face, 1 groove on East and 5 grooves on West faces. Firmly set in earth 12 inches. Built mounf of stone 3 ft. base, 21/2 ft. high, N. of cor. Destroyed the old corner.

Surface heavily rolling.

Generally open,with occasional Aspen thickets.

Land 3rd,class,fair grazing.

August 14th,1911.

August 15th,1911 at this corner I set off 41°49' on the lat.arc and 14°16'N.on the dec.arc at 10h.A.M. and determine the meridian with the solar.

Thence N.89°48'E.on S.bdy.of sec.36.

Surface same.

6.00 Enter Aspen thicket.

28.77 Set a granite 8x8x20 in.for closing corner of secs.1 and 2,marked CC on S.face,1 groove on E.and 5 grooves on W. faces.Firmly set 15 in.in ground. *See pa 9 and 10 Book "B*

Built a mound of stone 3 ft. base,2 1/2 ft.high,S.of the corner.

Destroyed the old corner.

31.00 Leave aspen thicket.Enter dense sarvice brush and mountain laurel.

40.00 Set stone for stand.1/4 cor.on S.bdy of sec.36

A granite 8x8x16 in.firmly set in earth 12 inches.

Marked SC 1/4 on N.face.

Built a mound of stone 2 1/2 ft.base,2 ft.high N.of the corner.Destroyed the old corner.

60.00 Begin very steep ascent of Temple Mountain.

80.00 The closing Standatd township corner heretofore described.

Surface mountainous and heavily rolling.

Aspen thicket and heavy underbrush 74.00chs.

Land 3rd,rate,fair grazing.

August 15th,1911.

From the reestablished S.W.corner of Tp. 13 N.R.4 E.heretofore described,Trun east bet.secs,1 and 31. *See pa Book "*

28.29 Fall 9 lks.S.of the closing corner for T.12 N.R.3 and 4 E.

A granite 12x12x5 in.above surface,properly mkd.& witnessed.

Resurvey of the 3rd, Stand. Parallel N. through Range 3 East.

This line is all mountainous and very difficult to survey. This ~~is~~ particularly true of the west three miles which crosses Logan River Canon, and several canons leading from the North West, which have such perpendicular walls that the surface is of the most difficult to survey.

Very respectfully
D. B. Miller
U.S. Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Nephi P. Anderson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~re~~ survey of The Third Standard Parallel North, Rs. 2 and 3 E., Salt Lake Base and Meridian Utah, showing the respective capacities in which they acted:

George R. Freeman, Festus E. Wright, Chainmen.
Alf L. Freeman, Orson L. Tingey, Chainman.
Errol Valentine, Moundman.
, Moundman.
Linus Hansen, Axman.
Alma Tingey, ~~Axman~~ Flagman.
, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Nephi P. Anderson, United States Deputy Surveyor, in ~~re~~ surveying all those parts or portions of the Third Standard Parallel North, Rs. 2 and 3 E., of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been ~~re~~ surveyed by him and under his direction; and that said ~~re~~ 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 the State of Utah.

George R. Freeman, Festus E. Wright, Chainman.
Alf L. Freeman, Orson L. Tingey, Chainman.
Errol Valentine, Moundman.
, Moundman.
Linus Hansen, Axman.
, Axman.
Alma Tingey, Flagman.

Subscribed and sworn to before me this 2 day of December, 1907.

SEAL

Nephi P. Anderson,
U. S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Nephi P. Anderson, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for the State of Utah, bearing date of the 12 day of February, 1903, and supplementary instructions dated Sept. 3, 1907, 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 State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Third Standard Parallel North, Rgs. 2 and 3 E.

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

Nephi P. Anderson,
United States Deputy Surveyor.

Subscribed by said Nephi P. Anderson and sworn to before me this 14 day of January, 1908.

SEAL

N. J. Valentine
Clerk of District Court

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 9, 1908.

The foregoing field notes of the survey of the Third Standard Parallel North through Ranges No. 2 and 3 East of the Salt Lake Base and Meridian, Utah,

executed by Nephi P. Anderson under his contract No. 260 dated February 12, 1903, ~~having been~~ and supplemental special instructions dated Sept. 3, 1907, 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.

6—151

4—680

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, Daniel B. Miller, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of The 3rd Stand. Parallel N. through Ranges 3 east, of the Salt Lake Base and Meridian.

of the Meridian, in the State of Utah.

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Claude L. Hoist	August 3, 1911	August 26, 1911	Chainman
W. M. Gavin	August 3, 1911	Aug. 31, 1911	Chainman
John E. Miller	August 3, 1911	August 31, 1911	F. laymen

Subscribed and certified to before me on the dates of the final service as shown above.

D. B. Miller

U. S. Surveyor.

6—2761

FINAL OATH OF UNITED STATES SURVEYOR.

I, Daniel B. Miller, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the ~~U. S. Surveyor General for Utah~~ Hon Commissioner of the General Land Office, bearing date of the 16th day of June, 1911, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The 3rd, Standard Parallel N. through Rgs. 3 East, Of the Salt Lake Base and meridian.

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

Daniel B. Miller
U. S. Surveyor.

Subscribed by said Daniel B. Miller, and sworn to before me this 29 day of Sept, 1911

Thomas Kell
U. S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 15, 1912

The foregoing field notes of the resurvey of the Third Standard Parallel North through Range 3 East of the Salt Lake Base and Meridian, Utah,

executed by Daniel B. Miller under his special instructions dated ~~dated June 16, 1911~~ from Hon. Commissioner G.L.O., ~~[illegible]~~, having been critically examined, and the necessary corrections and explanations ~~made, the said~~ field notes, and the resurveys they describe, are hereby approved.

Thomas Kell
U. S. Surveyor General.

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

U. S. Surveyor General.

6—2761

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4—679.

BOOK A-363

FIELD NOTES

OF THE SURVEY OF THE

East and South Boundaries

of

Township No.31 South, Range No.7 East

Of the Salt Lake Base and *Meridian,*

Utah

AS SURVEYED BY

John R. Stewart and Richard J. Bryant, *United States Deputy Surveyor,*

Under ~~his~~ their *Contract No.* 307, *dated* March 17, 1909, ~~19~~

Survey commenced September 12 1909, ~~19~~

Survey completed September 18, 1909. ~~19~~

6—161

	Map.	Int.	
South Bdy	5-77-74		
East "	5-56-48	57-30	15-70

BOOK A-363

NAMES AND DUTIES OF ASSISTANTS.

Howard West,	Chainman.
Dee Taft	Chainman.
Edmund Mulford,	Moundman.
Edmund Mulford,	Axman.

Volume
#
R0363

BOOK A-363

INDEX DIAGRAM.

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Meanders Page .....

6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, Howard West and Dee Taft

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 S. and E. bdys. Tp. 31 S. R 7 E. of the S.L.B.& M., Utah.

Howard West, Chainman.

Dee Taft, Chainman.

Subscribed and sworn to before me this 12th day of September, 1909

SEAL

John R. Stewart
U.S. Deputy Surveyor

~~We~~, I Edmund Mulford ~~and~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of S. and E. bdys. Tp. 31 S., R 7 E. of the S.L.B.& M., Utah

Edmund Mulford, Moundman.

, Moundman.

Subscribed and sworn to before me this 12th day of September, 1909

SEAL

John R. Stewart
U.S. Deputy Surveyor

~~We~~, I Edmund Mulford ~~and~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of S. and E. bdys. Tp. 31 S., R. 7 E. of the S.L.B.& M., Utah.

Edmund Mulford, Axman

, Axman

Subscribed and sworn to before me this 12th day of September, 1909

SEAL

John R. Stewart
U.S. Deputy Surveyor

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 , 19

SEAL

6—151

Survey commenced September 12,1909,and executed with a Young and Sons light mountain transit,No.7381,with solar attachment.The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is alos the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct,and was approved by the surveyor general for Utah on September 8, 1909.

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.31 and 32 S.,Rs.6 and 7 E.,which is an iron post,3 ins.in dia.,extending 1 foot above mound of earth and stone,firmly set,and mkd.and witnessed as described by the surveyor general,latitude 38°04'17"N.,longitude 111°14'21"W.,I set off 38°04'N.,on the lat.arc; 4° 10'S.,on the decl.arc;and at 3 h 56m 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 07 m p.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with the Manual,and mark a point thereof on a stone firmly set in the ground,5.00 chs.N. of the cor.

September 12,1909.

September 13,1909:At 7 h 00 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°30'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 0.22 ins.east of the meridian determined by the solar.

Chains	
	At 7 h 26 m a.m.,l.m.t.,I set off 38°04'N.,on the lat.arc; 3°56'N.,on the decl.arc;and mark the meridian determined by 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 0'11"West and 0'16"east of the meridian determined by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the meridian at 7 h 45 m a.m.,is N.16°01'W.,then angle thus determined gives the mag.decl. 16°01'E.
	— —
	East,on a true line bet.secs.6 and 31.
	Over mountainous land;through heavy timber and dense undergrowth.
	Desc.over ledges,bears NW and SE.
3.00	Bottom of hollow,50 ft.below cor.,course N.20°W.
	Asc.over ledges.
10.00	Top of spur,100 ft.above hollow,bears N.and S.
	Desc.over ledges.
16.00	Bottom of canon,200 ft.below spur,course NW.
	Asc.over ledges.
37.74	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 31 in N half and S 6 in S half;from which
	A pinon pine,8 ins.dia.,bears N.62°45'E.22 lks. dist..mkd.¼ S 31 B T.
	A pinon pine,14 ins.dia.,bears S.44°W.,45 lks. dist..mkd.¼ S 6 B T.

Chains	
48.00	Top of ridge,100 ft.above ¼ sec.cor. and 1200 ft.above canon,bears N and S.
	Leave ledges,bears N.and S.
	Desc.
60.00	Bottom of swale,100 ft.below ridge,course NE.
	Asc.
77.74	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.5,6,31,and 32,mkd.on brass cap
	T 31 S S 31 in NW.
	R 7 E S 32 in NE.
	R 7 E S 5 in SE.;and T 32 S S 6 in SW.quadrants;
	from which
	A pinon pine,10 ins.dia.,bears N.64°15'E.,96 lks. dist.,mkd.T 31 S R 7 E S 32 B T.
	A pinon pine,4 ins.dia.,bears S.62°30'E.,26 lks. dist..mkd.T 32 S R 7 E S 5 B T.
	A pinon pine,8 ins.dia.,bears S.61°30'W.,103 lks. dist..mkd.T 32 S R 7 E S 6 B T.
	A pinon pine,24 ins.dia.,bears N.44°30'W.,52 lks. dist..mkd.T 31 S R 7 E S 31 B T .
	Land,mountainous .
	Soil,gravelly loam and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,pricky ash,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,77.74 chs.
	Exceptionally difficult to survey,77.74 chs.
	September 13,1909:At this cor.I set off 3°50'N.,on the decl.arc;and at 11 h 56 m a.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 38°04'N.,which is the proper lat.nearly.

Chains	
	East,on a true line bet.secs.5 and 32.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc.
8.00	Top of ridge,30 ft.above sec.cor.,bears N.75°E.and S.75°W
	Desc.
29.00	Bottom of swale,50 ft.below ridge,course S.
	Asc.
32.50	Top of spur,50 ft.above swale,bears N.and S.
	Desc.
37.26	Top of ledge,100 ft.high,bears N.and S.
	Note:The ¼ sec.cor.will fall in ledges where it will be impossible to establish the cor;therefore at this point Set an iron post,3 ft.long,1 in.in dia.,14 ins.in the ground,on solid rock bottom,and surrounded by mound of stone for witness cor.to ¼ sec.cor..mkd.on brass cap T 31 S R 7 E S 32 in N half; S 5 in S half and W C ¼ in E half;from which
	A pinon pine,6 ins.dia.,bears N.46°10'W.,71 lks. dist..mkd.W C ¼ S 32 B T.
	A pinon pine,4 ins.dia.,bears S.23°30'E.,35 lks. dist..mkd. W C ¼ S 5 B T.
	Desc .abruptly over a series of ledges.
40.00	Point for ¼ sec.cor.falls in ledges and is not set.
50.00	Bottom of canon,300 ft.below ¼ sec.cor.,course S.30°E.
	Asc.abruptly overledges.
63.95	Top of ridge,300 ft.above canon,bears NW and SE.
	Desc.over ledges.
80.000	Set an iron post,3 ft.long,3 ins.in dia.,12 ins.in the ground,on solid sandstone ledge,and surrounded by mound of stone,for cor.of secs.4,5,32,and 33,mkd.on brass cap
	T 31 S S 32 in NW.
	R 7 E S 33 in NE.
	R 7 E S 4 in SE.;and

Chains

T 32 S S 5 in SW.quadrants;from which

A pinon pine,6 ins.dia.,bears N.57°45'E.,68 lks.

dist..mkd.T 31 S R 7 E S 33 B T.

A pinon pine,8 ins.dia.,bears S.31°E.,32 lks.

dist..mkd.T 32 S R 7 E S 4 B T.

A pinon pine,8 ins.dia.,bears S.55°45'W.,52 lks.

dist..mkd.T 32 S R 7 E S 5 B T.

A pinon pine,5 ins.dia.,bears N.58°15'W.,133 lks.

dist..mkd.T 31 S R 7 E S 32 B T.

Land,mountainous .

Soil,gravelly loam and rocky;2nd and 4th rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

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

Exceptionally difficult to survey,80.00 chs.

September 13,1909.

September 14,1909:At 7 h 26 m a.m.,l.m.t.,I set off 38° 04'N.,on the lat.arc ;5°33'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.4,5, 32,and 33.

Thence I run

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

Over mountainous land;through scattering timber.

Note:The line descends over precipitious ledges and crosses a number of ravines and ridges across which it is impossible to chain;therefore I set a flag on line on a ridge to the east and measure a base North 18.55 chs. to a point from which the flag bears S.67°46'E.,and

Chains	
	from the flag the north end of base bears N.67°46'W.
	I calculate the distance across the canons as follows:
	tan 67°46' x base = distance..or by logs.
	0.3885196 + 1.2683439 = 1.6568635 = 45.38 chs.
45.	Note:I will give the approximate notes of first part of
	line.
10.00	Bottom of rocky chasm,300 ft.deep,course SE.
	Asc.over ledges.
25.00	Top of rocky spur,500 ft.above chasm,bears NW and SE.
	Desc.over ledges.
38.00	Bottom of canon,500 ft.below spur,course SE.
	Asc.over ledges.
40.00	Falls in triangulation;corner not set.
45.38	Top of ridge,400 ft.above canon,bears N.20°W.and S.20°E.
	Setcan iron post,3 ft.long,1 in .in dia.,14 ins.in the
	ground,for witness cor.to ¼ sec.cor..mkd.on brass cap
	T 31 S R 7 E S 33 in N half;S 4 in S half;and W C ¼ in E
	half;from which
	A cedar,6 ins.dia.,bears N.22°W.,90 lks.
	dist..mkd.W C ¼ S 33 B T.
	No other trees within limits;and raise a mound of stone,
	2 ft.base,1½ ft.high,N.of cor.Impossible to set post deeper.
	Desc.over ledges through scattering timber and dense
	undergrowth.
76.00	Bottom of Coleman Canon,600 ft.below ridge,course NE.
	Asc.over ledges.
80.00	Top of spur,200 ft.above canon,bears NE and SW.
	Set an iron post,3 ft.long,3 ins.in dia.,12 ins.in the
	ground,on solid rock,and surrounded by mound of stone,
	for cor.of secs.3,4,33,and 34,mkd.on brass cap
	T 31 S S 33 in NW.
	R 7 E S 34 in NE.
	R 7 E S 3 in SE.;and
	T.32 S S 4 in SW.quadrants;and raise a mound of

Chains	
	stone,2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous.
	Soil,sandy loam and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Godd grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	September 14,1909:At this cor.I set off 3°27'N.,on the decl.arc;and at 11 h 56 m a.m.,l.t.,I observe the sun on the meridian,the resulting lat.is 38°04'N.,which is the proper lat.nearly.
	East,on a true line bet.secs.3 and 34.
	Over mountainous land;through scattering undergrowth.
	Desc.over ledges.
2.50	Leave ledges,bears N.30°E.and S.30°W.
7.40	Bottom of ravine,200 ft.deep,course NE.
	Asc.
8.50	Top of ridge,50 ft.above ravine,bears NE and SW.
	Desc.
18.75	Bottom of ravine,400 ft.deep,course NE.
	Asc.
22.00	Top of spur,100 ft.above ravine,bears NE and SW.
	Desc.
28.75	Bottom of ravine,100 ft.deep,course N.45°E.
	Asc.
32.00	Top of spur,50 ft.aboveravine,bears NE and SW.
	Desc.
37.20	Bottom of ravine,100 ft.deep,course SE.
	Asc., through timber.

Chains

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor.,mkd.on brass cap ¼ S 34 in N half and S 3 in S half;from which

A cedar,15 ins.dia.,bears N.9°E.,95 lks.dist. mkd.¼ S 34 B T.

A cedar,10 ins.dia.,bears S.9°25'E.,130 lks. dist.,mkd.¼ S 3 B T.

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

Desc.,through dense undergrowth, bears N. and S.

55.00 Bottom of hollow,100 ft.below ridge,course N.

Asc.

70.00 Top of ridge,70 ft.above hollow,bears N.and S.

Desc.

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

T 31 S S 34 in NW.

R 7 E S 35 in NE.

R 7 E S 2 in SE.;and

T 32 S S 3 in SW.quadrants;from which

A cedar,10 ins.dia.,bears N.89°24'E.,123 lks. dist.,mkd.T 31 S R 7 E S 35 B T.

A cedar,10 ins.dia.,bears S.82°10'E.,143 lks. dist.,mkd.T 32 S R 7 E S 2 B T.

A cedar,6 ins.dia.,bears S.54°35'W.,268 lks. dist.,mkd.T 32 S R 7 E S 3 B T.

A cedar,24 ins.dia.,bears N.82°25'W.,356 lks. dist.,mkd.T 31 S R 7 E S 34 B T.

Land,mountainous .

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

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainus land,or land covered with dense undergrowth.

80.00 chs.

Chains

Exceptionally difficult to survey,80100 chs.

September 14,1909.

September 15,1909:At 7 h 26 m a.m.,l.m.t.,I set off 38°04' N.,on the lat.arc;3°10'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.2,3,34,and 35.

Thence I run

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

Over mountainous land;through dense undergrowth and scattering timber .

Desc.

30.00 Wash,20 lks.wide,4 ft deep,in bottom of swale,100 ft.below cor.,course NE.This is South Coleman's canon.

Asc.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 35 in N half and S 2 in S half;from which

A cedar,6 ins.dia.,bears N.45°04'E.,82 lks. dist..mkd.¼ S 35 B T.

A cedar,8 ins.dia.,bears S.44°28'E.,112 lks. dist..mkd.¼ S 2 B T.

44.65 Top of spur,50 ft.above swale,bears N.and S.

Desc.

56.00 Bottom of hollow,50 ft.below spur,course N.

Asc.

60.00 Top of spur,50 ft.above hollow, bears N.and S.

Desc.

75.20 Wash,15 lks.wide,4 ft.deep,course S.80°E.

77.45 Same wash,15 lks.wide,5 ft.deep,course NE.

Asc.

80.00 Top of spur,50.ft.above wash,bears NE and SW.

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

S.bdy.T.31 S.,R.7 E.-Continued.

Chains	
	ground,for cor.of secs.1,2,35,and 36,mkd.on brass cap
	T 31 S S 35 in NW.
	R 7 E S 36 in NE.
	R 7 E S 1 in SE.;and
	T 32 S S 2 in SW.quadrants;and raise a mound of
	stone,2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,sandy loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush and greasewood.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	September 15,1909:At this cor.I set off 3°04'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 38°04'N.,which
	is the proper lat.nearly.
	East,on a true line bet.secs.1 and 36.
	Over mountainous land,through scattering timber and
	dense undergrowth.
	Desc.
3.35	Trail,bears N.20°W.and S.20°E.,in bottom of hollow,40
	ft.below sec.cor.,course S.20°E.
	Asc.
12.55	Top of spur,50 ft.above hollow,bears NE and SW.
	Desc.
17.20	Wash.10 lks.wide,4 ft.deep,in bottom of hollow,50 ft.
	below ridge,course N.20°E.
	Asc.
20.00	Top of spur,50 ft.above hollow,bears N.and S.

Chains	
	Desc.
23.00	Wash,10 lks.wide,3 ft.deep,in bottom of hollow,50 ft. below ridge,course NE.
	Asc.
30.00	Top of spur,50 ft.above hollow,bears NE and SW.
	Desc.
32.00	Bottom of hollow,60 ft.below ridge,course NE.
	Asc.
36.50	Top of ridge,70 ft.above hollow,bears N.80°E.and S.80° W.
	Desc.
40.00	Set an iron post,3 ft.lon g,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 36 in N half and S 1 in S half;dig pits,18x18x12 ins.,E.and W.of post, 3 ft.dist;.and raise a mound of earth,3½ ft.base,1½ ft.high, N.of cor.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of Tps.31 and 32 S.,Rs.7 and 8 E .,mkd. on brass cap T 31 S in N half. T 32 S in S half. R 7 E S 36 in NW. R 8 E S 31 in NE. R 8 E S 6 in SE.;and R 7 E S 1 in SW.quadrants;from which A cedar,12 ins.dia.,bears S.75°36'W.,256 lks. dist..mkd.T 32 S R 7 E S 1 B T.
	No other trees within limits;dig pits,24x24x12 ins. on each line E.,W.,and N.,of post,4 ft.and S.of post 8 ft.dist.;and raise a mound of earth,5 ft.base,2½ ft. high,S.of cor.
	Land,mountainous .
	Soil,sandy loam;2nd rate.

Chains	
	Timber,cedar and pinon pine.
	Undergrowth,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 15,1909.

East bdy.T.31 S.,R.7 E.

	September 16,1909:At 7 h 25 m a.m.,l.m.t.,I set off 38°04'
	N.,on the lat.arc;2°47'N.,on the decl.arc;and determine
	a meridian with the solar,at the cor.of Tps.31 and 32 S.,
	Rs.7 and 8 E.,
	Thence I run
	North,bet.secs.31 and 36.
	Over mountainous land;through dense undergrowth.
	Asc.
10.00	Top of sand ridge,100 ft.high,bears NE and SW.
	Desc.
16.20	Wash,50 lks.wide,4 ft.deep,in bottom of hollow,150 ft.
	below ridge,course NE.
	Asc.
34.00	Enter scattering timber,bears E.and W.
34.20	Wash,30 lks.wide,6 ft.deep,course S.70°E.
37.00	Foot of sloping sandstone ledge,bears NE and SW.
39.50	Top of ledge,100 ft.above foot,bears NE and SW.

Chains	
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..,mkd.on brass cap ¼ S 36 in W half and S 31 in E half;from which A cedar,12 ins.dia.,bears N.58°25'E.,120 lks. dist..mkd.¼ S 31 B T. A cedar,12 ins.dia.,bears S.30°14'W.,68 lks. dist..mkd.¼ S 36 B T.
42.00	Top of sandstone ridge,200 ft.above hollow,bears N.80°E. and S.80°W.
	Desc.
44.50	Bottom of hollow,100 ft.below ridge,course N.80°E.
	Asc.
47.65	Foot of perpendicular ledgem30 ft.high,bears E.and W.
49.20	Top of steep ascent,100 ft.above hollow,bears E.and W.
	Leave timber,bears E.and W. Ascend gradually.
61.70	Wire fence,bears N.80°15'E.and S.80°15'W. Enter Sand Creek Mesa,bears N.80°15'E.and S.80°15'W.
64.90	Old road,bears NW and SE.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.25,30,31,and 36,mkd.on brass cap T 31 S in N half. R 7 E S 25 in NW. R 8 E S 30 in NE. S 31 in SE.;and S 36 in SW.quadrants;dig pits,18x18x12 ins.in each sec.5½ ft.dist.;and raise a mound of earth,4 ft.base,2 ft high,W.of cor.
	Land,mountainous and rolling mesa.
	Soil,sandy loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,greasewood,rabbit brush,and sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	61.70 15.30

Chains	
	Exceptionally difficult to survey,61.70 chs.
	North,bet.secs .25 and 30.
	Over rolling mesa;through dense undergrowth.
	Asc.gentle slope.
7.00	Leave mesa,bears N.60°E.and S.60°W.
	Asc.rocky slope.
10.00	Top of ascent,bears N.60°E.and S.60°W.
	Thence over Sand Creek Mesa.
12.95	Road from Notom to Bown Dam,bears N.80°E.and S.80°W.
30.55	Wire fence,bears E.and W.
36.00	Leave mesa,bears NE and SW.
	Desc.into Sand Creek Canon.
	Enter scattering timber,bears NE and SW.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 25 in W half and S 30 in E half;from which
	A cedar,7 ins.dia.,bears N.72°E.,102 lks. dist..mkd.¼ S 30 B.T.
	A cedar,5 ins.dia.,bears S.21°50'W.,108 lks. dist..mkd.¼ S 25 BT
43.00	Bottom of hollow,50 ft.below ¼ cor.,course W.
	Asc.
49.00	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
65.00	Sand Creek,30 lks,wide 1ft.deep,in bottom of hollow, 100 ft. below ridge,course N.40°E.
69.00	Bend in same Creek,course N.E.
	Leave timber,bears N.E.and S.W.
75.00	Bend in same Creek,course N.E.
	Asc.abruptly.
80.00	Set an iron post,3 ft.long,3 in.in tdia.,24 ins.in the

Chains	
	ground,for cor.of secs.19,24,25,and 30..mkd.on brass cap
	T 31 S in N half.
	R 7 E S 24 in NW.
	R 8 E S 19 in NE.
	S 30 in SE.;and
	S 25 in SW.quadrants;from which
	A cottonwood,18 ins.in dia.,bears N.86°06'E.,
	291 lks.dist.,mkd.T 31 S R 8 E S 19 B T.
	A cottonwood,22 ins.in dia.,bears S.31°12'E.,226
	lks.dist..mkd.T 31 S R 8 E S 30 B T.
	No other tree within limit;and raise a mound of stone,
	2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous.
	Soil,sandy loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush,greasewood,and rabbit brush.
	Good grass for grazihg.
	Mountainous land;or land covered with dense undergrowth,
	80.00 chs.
	Exceptionally difficutl to survey,44.00 chs.
	September 16,1909:A t this cor.I set off 2°41'N.,on the
	decl.arc;and at 11 h 55 m a.m.l.m.t, I observe the
	sun on the meridian the resutling lat.is 38°06'N.,
	which is the proper lat.nearly.

	North bet.secs.19 and 24.
	Over mountainous land;through scattering timber and
	dense undergrowth.
	Desc.
3.00	Wash,30 lks.wide,18 ft.deep,course E.
	Asc.
5.00	Top of ascent,bears E.and W.

East bdy.T.31 S.,R.7 E.-Continued.

Chains	
	Thence over flat ridge.
10.50	Desc.from ridge,bears E.and W.
19.75	Wash,75 lks.wide,3 ft.deep,course E.
23.00	Trail,bears N.75°W.and S.75°E.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 24 in W half and S 19 in E half;dig pits,18x18x12 ins.N.and S.of post,3 ft.dist.;and raise a mound of earth,3½ ft. base,1½ ft.high,W.of cor.
44.00	Wash,75 ft.deep,150 lks.wide,course E.
49.00	Wash,75 lks.wide,50 ft.deep,course S. 40°E.
65.10	Wash,100 lks.wide,40 ft.deep,course SE.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground for ¼ sec.cor. 13,18,19,and 24,.mkd.on brass cap T 31 S in N half. R 7 E S 13 in NW. R 8 E S 18 in NE. S 19 in SE.and S 24 in SW;quadrants;and raise amound of stone 2 ft.base,1½ ft.high,W.of cor.

Land,mountainous.

Soil,sandy loam;and clay;2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush,greasewood and rabbit brush.

Good grass for grazing.

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

Exceptionally difficult to survey,80.00 chs.

September 16,1909.

September 17,1909:AT 7 h 35 m a.m.,l.m.t.,I set off 38°07'

Chains	
	N.,on the lat.arc;2°23'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.13,18,19,and 24.
	Thence I run
	North,bet.secs.13 and 18.
	Over mountainous land;through dense undergrowth.
	Desc.
4.00	Bottom of Gulch,30 ft.below sec.cor.,course NW.
	Asc.
12.00	Bottom of ravine ,50 ft.deep,course W.
	Asc.
21.00	Bend in Gulch,200 ft.deep,course NW.
	Asc.
23.25	Top of spur,100 ft.above gulch,bears NW and SE.
	Desc;
29.25	Bottom of Sheet's Gulch,300 ft.below spur,course NE.
	Asc.
39.60	Top of spur,100 ft.above Gulch,course N.70°E.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 13 in W half and S 18 in E half; and raise a mound of earth,3½ ft.base, 1½ ft.high,W. of cor.
41.00	Bottom of Gulch,40 ft.below spur,course E.
42.00	Top of spur,50 ft.above Gulch,bears E.and W.
46.00	Bottom of Gulch,40 ft.below spur,course E.
48.00	Top of spur,50 ft.above Gulch,bears NW.and SE.
55.75	Bottom of Gulch,75 ft.below spur,course SE.
60.50	Top of spur,100 ft.above Gulch,bears NW.and SE.
64.00	Bottom of Gulch,40 ft.below spur,course SE.
67.00	Top of spur,50 ft.above Gulch,bears NW.and SE.
70.00	Bottom of Gulch,40 ft.below spur,course S.70°E.
72.00	Top of spur,50 ft.above Gulch,bears E.and W.
73.50	Bottom of Gulch,50 ft.below spur,course E.
75.00	Top of spur,50 ft.above Gulch,bears E.and W.

East bdy.T.31 S.,R.7 E.-Continued.

Chains	
76.50	Bottom of Gulch,100 ft.below spur,course E.
77.50	T Top of spur,100 ft.above Gulch,bears E.and W.
78.90	Bottom of Gulch,100 ft.below spur,course E.
80.00	Set an iron post,3 ft.long,3 ins.in dia.24,ins.in the ground,for cor of secs.7,12,13,and 18,mkd.on brass cap
	T 31 S in N half.
	R 7 E S 12 in NW.
	R 8 E S 7 in NE.
	S 18 in SE.;and
	S 13 in SW.quadrants;dig pits,18x18x12 ins.in each sec.5½ ft.dist.;and raise a mound of earth,4 ft.base, 2 ft.high,W.of cor.
	Land,mountainous.
	Soil,sandy loam;2nd rate.
	No timber.
	Undergrowth,mountain rush,greasewood,and shad scale.
	Good grass for grazing.
	Mountainous land;or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.

	Thence I run
	North bet secs.7 and 12.
	Overmountainous land;through dense undergrowth.
	Asc.
.50	Top of spur,10 ft.above sec,cor.,bears E.and W.
2.75	Bottom of Gulch,51 ft.below spur,course E.
3.35	Top of spur,50 ft.above Gulch,bears E. and W.
5.75	Bottom of Gulch,100 ft.below spur,course S.70°E.
9.25	Top of spur,100 ft.above Gulch,bears E.and W.
10.00	Bottom of Gulch,50 ft.below spur,course E.

Chains	
12.50	Top of spur,70 ft.above Gulch,bears E.and W.
22.50	Bottom of Gulch,100 ft.below spur,course E.
25.00	Top of spur,100 ft.above Gulch,bears E.and W.
30.00	Bottom of swale,150 ft.below spur,course NE.
32.50	Top of spur,50 ft.above swale,bears E.and W.
33.25	Bottom of Gulch,50 ft.below spur,course E.
36.50	Top of spur,100 ft.above Gulch,bears E.and W.
39.75	Bottom of Gulch,100 ft.below spur,course E.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 12in W.half and S 7 in E half;dig pits,18x18x12 ins.,N. and S. of post,3 ft.dist;and raise a mound of earth,3½ ft.base,1½ ft.high,W.of cor.
45.00	Top of flat ridge,150 ft.above Gulch,bears E.and W.
55.00	Bottom of Gulch,100 ft.below ridge,course NE.
60.00	Top of spur,100 ft.above Gulch,bears E.and W.
64.75	Bottom of Gulch,100 ft.below spur,course NE.
79.10	Top of spur,50 ft.above Gulch,bears NE.nad SW.
80.00	Set an iron post,,3 ft.long,3 ins.in dia.24 ins.in the ground,for cor.of secs.1,6,7,and 12,mkd.on brass cap T.31 S in N half. R 7 E S 1 in NW. R 8 E S 6 in NE. S 7 in SE. S 12 in SW.quadrants;dig pits,18x18x12 ins.in each sec. 5½ ft.dist.;and raise a mound of earth,4 ft.base, 2 ft.high,W of cor. Land mountainous. Soil,clay and sandy loam;2nd rate. No timber. Undergrowth,sage brush,shade scale,mountain rush,and rabbit brush. Good grass for grazing. Mountainous land,or land covered with dense undergrowth,

East bdy.T.31 S.,R.7 E.-Continued.

Chains	
	80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	Septmenber 17,1909;At this cor.I set off 2°18'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 38°09'N., which is the proper lat.nearly.
	Thence I run
	North bet.secs.1 and 6.
	Over mountainous land;and dense undergrowth.
	Desc.
11,85	Road from Notom to Colorado river,bears N.30°W.and S.30°E.
12.00	Wash,10 lks.wide,2 ft.deep,in broad hollow,30 ft. below sec.cor.course N.10°W.
	Asc.gradually.
23.50	Wash,30 lks.wide,6 ft.deep,in same hollow,40 ft.below sec.cor.course N.20°E.
35.00	Wash,100 lks wide,20 ft.deep,course N.20°E.
	Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼S1 in W half and S 6 in E half;dig pits,18x18x12 ins.N.and S.of post,3 ft.dist;and raise a mound of earth,3½ ft.base, 1½ ft.high,W.of cor.
42.00	Bend in wash,course N20°E.
50.00	Wash,50 lks.wide 10 ft.deep,course NE.
55.00	Top of sand spur,50 ft.above wash,bears E.and W.
61.00	Wash,150 lks.wide,25 ft.deep in hollow,100 ft.below spur,course E.
104.20	Top of sand spur,350 ft.above wash,course N.30°E.and S.30°W.
	Decs.
110.78	Intersect Sixth Standard Parellel South,15.70 chs. W.

Chains

of the Standard ¼ sec.cor.on the S.bdy.Sec.32,T.30 S., R.8 E.,heretofore described.

Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for the closing corner of Tps.31 S.,Rs.7 and 8 E..mkd.on brass cap

T 30 S R 8 E S 31 S 32 C in H half

T 31 S in S half

R 8 E S 6 in SE;and

R 7 E S 1 in SW;quadrants,dig pits,24x24x12 ins.crosswise on each line,E.and W.of post,4 ft.and S.of post,8 ft.dist;raise a mound of earth,4 ft.base, 2 ft.high,W.of cor.

Land,mountainous.

Soil,clay and sandy loam;2nd rate.

No timber.

Undergrowth,sage brush,shade scale and mountain rush and rabbit brush.

Good grass for grazing.

Mountainous land,or land ocvered with dense undergrowth, 110.78 chs.

Exceptionally difficult to survey,110.78 chs.

September 17,1909.

Chains

Boundaries of T.31 S.,R.7 E.

Latitudes,departures,and closing errors.

Line	designated	Course	Distance	Latitudes N	Latitudes S	Departures E	Departures W
			chs.	chs.	chs.	chs.	chs.
W.bdy.T.31 S R 7 E		North	515.25	515.25			
6th Std.Par.S.		S.98°02'E	8.90		.15	8.90	
6th Std.Par.S.		S.89°21'E.	39.99		.45	39.99	
6th Std.Par.S.		East	80.58			80.58	
6th Std.Par.S.		East	40.40			40.40	
6th Std.Par.S.		S.86°45'E	43.10		2.44	43.03	
6th Std.Par.S.		S.89°38'E	79.80		.51	79.80	
6th Std.Par.S.		S.89°36'E.	39.70		.20	39.70	
6th Std.Par.S.		N.89°53'E.	40.46	.08		40.46	
6th Std.Par.S.		East	80.00			80.00	
6th Std.Par.S.		East	24.30			24.30	
E.bdy.T.31 S R 7E		South	510.78		510.78		
S.bdy.T.31 S R 7E		West	477.74				477.74
Convergency						.60	
Totals				515.33	514.53	477.76	477.74
				514.53		477.74	
Error in Lat.				.80			
Error in Dep.						.02	

GENERAL DESCRIPTION.

For general description see subdivision of Township.

John R Stewart

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 John R. Stewart 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 S. and E. bdys. Tp. 31 S., R. 7 E. of the S.L.B.& M., Utah, showing the respective capacities in which they acted:

Howard West, *Chainman.*
Dee Taft, *Chainman.*
Edmund Mulford, Axman and *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John R. Stewart United States Deputy Surveyor, in surveying all those parts or portions of the S. and E. bdys. Tp. 31 S., R. 7 E. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Howard West, *Chainman.*
Dee Taft, *Chainman.*
Edmund Mulford, Axman, and *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
, *Flagman.*

Subscribed and sworn to before me this 7th day of November, 1909

SEAL

John R. Stewart
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John R Stewart, United States Deputy Surveyor, d
solemnly swear that, in pursuance of a contract received from Thomas Hull
United States Surveyor General for Utah, bearing date of th
17th day of March, 1909, I have well, faithfully, and truly, in my ow
proper person, and in strict conformity with the instructions furnished by the United States Survey
General for Utah, the Manual of Surveying Instructions, and the laws of th
United States, surveyed all those parts or portions of S. and E. bdys.
Tp. 31 S R 7 E

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.

John R. Stewart
United States Deputy Survey

Subscribed by said John R. Stewart, and sworn to before ~~me~~
this 5th day of July, 19 10.

Thomas Hull
U. S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 6, 19

The foregoing field notes of the survey of the East and South Boundaries of Township No. 31 South, Range No. 7 East of the Salt Lake Base and Merid ian, Utah,

executed by John R. Stewart and Richard J. Bryant,
under ~~his~~ their contract No. 307, dated March 17, 1909, 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

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BOOK A-363

" A "

FILED
DEC 1910

FIELD NOTES

RE

OF THE SURVEY OF THE

SECOND STANDARD PARALLEL SOUTH

through

RANGE NO. 14 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, *United States Deputy Surveyor,*

Under his Contract No. 318, *dated* January 15, *1900*

The Survey commenced April 18, *1900*

The Survey completed April 19, *1900*

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1-69-20 9-65

NAMES AND DUTIES OF ASSISTANTS.

Claude L.Heist,	Chainman
Granville A.Cooper,	"
Thomas J.Garrod,	"
Thomas Callahan,	"
Thomas J.Garrod,	Moundman
Claude L.Heist,	"
John William Simpson,	Axman
Claude Hume,	Flagman

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BOOK A-363

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PRELIMINARY OATHS OF ASSISTANTS.

We, Claude L. Heist, Granville A. Cooper, Thomas J. Garrod & Thomas Call 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 resurvey of

2nd. Stan. Par. South, through R. 14 E., S.L.B.& M., in the state of Utah

Claude L. Heist. Granville A. Cooper, Chainman.

Thomas J. Garrod Thomas Calleby, Chainman.

Subscribed and sworn to before me this 18th day of April, 1910

Frank T. Robuck
U.S. Deputy Surveyor

SEAL

We, Thomas J. Garrod and Claude L. Heist, 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 resurvey of

2nd. Stan. Par. South, through R. 14 E., S.L.B.& M., in the state of Utah.

Thomas J. Garrod, Moundman.

Claude L. Heist, Moundman.

Subscribed and sworn to before me this 18th day of April, 1910

Frank T. Robuck
U.S. Deputy Surveyor

SEAL

~~We~~ I, John William Simpson, and

do solemnly swear that ~~we~~ I will well and truly perform the duties of ~~axmen~~ my 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 resurvey of

2nd. Stan. Par. South, through R. 14 E., S.L.B.& M., in the state of Utah.

John William Simpson, Axman.

, Axman.

Subscribed and sworn to before me this 18th day of April, 1910

Frank T. Robuck
U.S. Deputy Surveyor

SEAL

I, Claude Hume, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the resurvey of the 2nd. Stan. Par. S., through R. 14 E., S.L.B.& M., in the state of Utah.

Claude C. Hume, Flagman.

Subscribed and sworn to before me this 18th day of April, 1910

Frank T. Robuck
U.S. Deputy Surveyor

SEAL

CHAINS

Survey commenced, April 18, 1910, and executed with a W.& L.E.Gurley, light mountain transit, No.-, with solar attachment.

The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, April 14, 1910.

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

At the established standard cor. of Tp.10 S., Rs.14 and 15 E., which is a sandstone 10x15x6 ins. above the ground, marked and witnessed as described by the surveyor general, in approximate latitude 39°54'N., longitude, 110°19'W.; I set off 39°54'N. on lat. arc, 10°48'N. on decl. arc, and at 3h.59m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

April, 18, 1910

April 19: At 5h.44m., a.m, l.m.t., I observe Polaris at eastern, elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs. N. of my station.

At 7 a.m., I lay off the azimuth of Polaris, 1°32' to the west, and mark the meridian thus determined, by cutting

CHAINS	
	a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.
	At 7h. 59m., a.m., l.m.t., I set off 39°54'N. on lat. arc, 11°02'N. on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.2 ins. east of the meridian established by the Polaris observation.
	The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0'10" west and east of the meridian established by the Polaris observations; therefore, I conlcude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian, at 8h. 30m., a.m. is N. 16°40'W., the angle thus determined gives the mag. decl. 16°40' E.
	The 2nd. Stan. Par. S., through R.14 E., has been previously surveyed, and as there are no subdivisions dependent upon it and it being known that the line is not within limits, in alinement or measurement, I therefore resurvey this line as follows:
	I begin at the stan. cor. of T.10 S., Rs.14 and 15 E., already described and run
	West, on resurvey line,
	along S. bdy. of sec. 36.
	Descend over rocky and mountainous land, through heavy timber.
0.60	Hollow, 75 ft. deep, course NE.
	Abrupt ascent.
3.00	Spur, projects N.
	Descend.
6.00	Hollow, 75 ft. deep, course NE.
	Ascend.
8.57	Intersect the closing cor. for Tp.11 S., Rs.14 and 15 E.

CHAINS	
	which is a sandstone, 6x23x3 ins. above ground, marked and witnessed as described by the surveyor general.
11.00	Ridge, bears NE. and SW.
	Abrupt descent.
18.25	Leave timber, bears N. and S.
21.50	Hollow, 75 ft. deep, course NE.
	Abrupt ascent.
22.25	Enter heavy timber, bears NE. and SW.
25.60	Spur, projects NE.
	Abrupt descent.
35.75	Hollow, 100 ft. deep, course NE.
	Abrupt ascent.
38.00	Spur, projects NE.
	Descend.
	Difference between measurement of 40.00 chs. by two sets of chainmen is 6 lks., position of middle point
	By 1st. set, 39,97 chs.,
	By 2nd. set, 40.03 chs., the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established stan. ¼ sec. cor., marked on brass cap ¼ S 36 on N. half, from which
	A pinon, 18 ins. diam., bears N. 55°E., 42½ lks. dist. marked S C ¼ S 36 BT.
	A pinon, 24 ins. diam., bears N. 79°30'E., 23 lks. dist., marked S C ¼ S 36 BT.
	The old stan. ¼ sec. cor. bears N. 37°E., 49 lks. dist.,
	I destroy all traces of the old stan. ¼ sec. cor.
42.50	Hollow, 100 ft. deep, course NE.
	Abrupt ascent.
60.00	Ridge, bears NE. and SW.
	Descend along north slope.
77.50	Enter hollow, 100 ft. deep, course NE.
	Leave timber, bears NE. and SW.

CHAINS	
	Difference between measurement of 80.00 chs., by two sets of chainmen is 10 lks., position of middle point,
	By 1st. set, 80.05 chs.,
	By 2nd. set, 79.95 chs., the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for re-established stan. cor. of secs. 35 and 36, marked on brass cap, T 10 S S 35 in NW. and R 14 E S 36 in NE. quadrant, from which
	A pinon, 12 ins. diam., bears N. 4°30'E., 203 lks. dist., marked T 10 S R 14 E S 36 S C BT.
	A pinon, 13 ins. diam., bears N. 77°W., 142 lks. dist. marked T 10 S R 14 E S 35 SC. BT.
	The old stan. sec. cor. bears N. 63°E., 74 lks. dist.,
	I destroy all traces of the old stan. sec. cor.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.
	April 19: At this cor. I set off 11°05'N. on decl. arc, and at 11h. 59m. a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°54'N.
	West, on resurvey line, on S. bdy. of sec. 35.
	In hollow, course NE.
0.25	Leave hollow, begin abrupt ascent along steep south, slope over rocky land.
1.00	Enter heavy timber, bears NE. and SW.
12.25	Spur, projects S.
	Abrupt descent.
17.25	Hollow, 100 ft. deep, course SE.
	Abrupt ascent.
23.30	Spur, projects SE.
	Abrupt descent.

CHAINS	
26.00	Hollow, 75 ft. deep, course SE.
	Abrupt ascent.
39.20	The old stan. ¼ sec. cor. on line.
	I destroy all traces of the old stan. ¼ sec. cor.
	Difference between measurement of 40.00 chs., by two sets of chainmen is 8 lks., position of middle point
	By 1st. set, 39.96 chs.
	By 2nd. set, 40.04 chs., the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established stan. ¼ sec. cor., marked on brass cap, ¼ S 35 on N. half, from which
	A pinon, 14 ins. diam., bears N. 27°E., 144 lks. dist., marked S C ¼ S 35 BT.
	A pinon, 14 ins. diam., bears N. 10°W., 21 lks. dist., marked S C ¼ S 35 BT.
40.10	Spur, projects SE.
	Descend.
45.50	Hollow, 75 ft. deep, course SE.
	Ascend.
56.00	Ridge, bears NE. and SW.
	Leave timber, bears NE. and SW.
	Descend along north slope.
64.00	Hollow, 50 ft. deep, course NE.
	Ascend.
67.00	Spur, projects NE.
	Descend.
	Difference between measurement by two sets of chainmen to the intersection with the S. bdy. of the Uintah Indian Reservation is 8 lks., position of bdy.,
	By 1st. set, 69.24, chs.
	By 2nd. set, 69.16 chs., the mean of which is
69.20	Intersect the S. bdy. of the Uintah Indian Reservation, 9.60 chs., S. 10°30'E., from the 42nd. Mile Cor., which is a sandstone, 18x14x5 ins. above ground, marked and

CHAINS

witnessed as described by the surveyor general.

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for closing stan. cor. for Tps. 10 and 11 S., R. 14 E. marked on brass cap, T. 10 S R 14 E S 35 in NE., S 2 R 14 E T 11 S in SE. quadrant, and 42 M CC U I R on W. half, from which

A pinon, 8 ins. diam., bears N. 64° E., 227 lks. dist., marked T 10 S R 14 E S 35 BT.

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

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

Timber, cedar and pinon.

Mountainous land on 69.20 chs.

April 19, 1910

For General Description see Subdivisions of T. 10 S., R. 14 E.

Frank T. Roberts

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 Frank T. Roberts, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the re survey of the 2nd. Stan. Par. South, through R. 14 E., S. L. B. & M., in the state of Utah showing the respective capacities in which they acted:

Claude L. Heist, Granville A. Cooper, *Chainmen.*

Thomas J. Garrod, Thomas Callahan, *Chainmen.*

Thomas J. Garrod, *Moundman.*

Claude L. Heist, *Moundman.*

John William Simpson, *Axman.*

Axman.

Claude Hume, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frank T. Roberts, United States Deputy Surveyor, in re surveying all those parts or portions of the Second Standard Parallel South, through Range No. 14 East, 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 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.

Claude L. Heist. Granville A. Cooper, *Chainmen.*

Thomas J. Garrod Thomas Callahan, *Chainmen.*

Thomas J. Garrod, *Moundman.*

Claude L. Heist, *Moundman.*

John William Simpson, *Axman.*

Axman.

Claude Hume, *Flagman.*

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

Frank T. Roberts

U. S. Deputy Surveyor

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Frank T. Roberts, 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 15th. day of January, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, resurveyed all those parts or portions of the Second Standard Parallel South, through R. 14 E. 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 resurvey 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 resurvey.

Frank T. Roberts
United States Deputy Surveyor.

Subscribed by said Frank T. Roberts, and sworn to before me this 19th day of May, 1911.

SEAL

Thomas Hull
U. S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Sept. 23, 1911

The foregoing field notes of the resurvey of the Second Standard Parallel South, through Range No. 14 East of the Salt Lake Base and Meridian, Utah,

executed by Frank T. Roberts under his contract No. 318, dated January 15, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys 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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" B "

BOOK A-363

FILED
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FIELD NOTES

M.S.B.

OF THE SURVEY OF THE

EAST BOUNDARY

of

TOWNSHIP NO.10 SOUTH, RANGE NO.14 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Frank T.Roberts, *United States Deputy Surveyor,*

Under his Contract No. 318, *dated* January 15, *1910*

Survey commenced April 20, *1910*

Survey completed April 20, *1910*

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NAMES AND DUTIES OF ASSISTANTS.

Granville A. Cooper,	Chainman
Thomas Callahan,	"
Thomas J. Garrod,	Moundman
Claude L. Heist,	"
John William Simpson,	Axman
Claude Hume,	Flagman

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BOOK A-363

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We, Granville A. Cooper, and Thomas Callahan

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 E.bdy.of T.10 S.,R.14 E.,the N.& E.bdys.of T.10 S.,Rs.15,16,17 & 18 E., N.bdy.of T.10 S.,R.19 E.the N.& E.bdys.of T.9 S.,Rs.15,16,17 & 18 E.,N.bdy. of T.9 S.,R.19 E.,the E.bdys.of T.8 S.,Rs.15,16,17 & 18 E.,S.L.B.& M.,in th state of Utah.

Granville A. Cooper, Chainman.

Thomas Callahan, Chainman.

Subscribed and sworn to before me this 20th. day of April, 1910

Frank T. Roberts

U.S.Deputy Surveyor

SEAL

We, Thomas J.Garrod, and Claude L.Heist,

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 E.bdy.of T.10 S.,R.14 E.,the N.& E.bdys.of T.10 S.,Rs.15,16,17 & 18 E., N.bdy.of T.10 S.,R.19 E.,the N.& E.bdys.of T.9 S.,Rs.15,16,17 & 18 E.,N.bdy T.9 S.,R.19 E.,the E.bdys.of T.8 S.,Rs.15,16,17 & 18 E.,S.L.B.& M.,in the s of Utah.

Thomas J. Garrod, Moundman.

Claude L. Heist, Moundman.

Subscribed and sworn to before me this 20th. day of April, 1910

Frank T. Roberts

U.S.Deputy Surveyor

SEAL

~~We,~~ I, John William Simpson, ~~and~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me to the best of ~~our~~ my skill and ability, in the survey of the E.bdy.of T.10 S.R.14 E.the N.& E.bdys.of T.10 S.Rs.15,16,17 & 18 E.,the bdy.of T.10 S.R.19 E.,the N.& E.bdys.of T.9 S.Rs.15,16,17 & 18 E.,N.bdy.of T.9 S R 19 E.,the E.bdys.of T.8 S.,Rs.15,16,17 & 18 E.,S.L.B.& M.,in the st of Utah.

John William Simpson, Axman.

, Axman.

Subscribed and sworn to before me this 20th. day of April, 1910

Frank T. Roberts

U.S.Deputy Surveyor

SEAL

I, Claude Hume, 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 E.bdy.of T.10 S.R.14 E.the N.& E.bdys.of T.10 S.Rs.15,16,17 & E.,the N.bdy.of T.10 S.R.19 E.,the N.& E.bdys.of T.9 S.Rs.15,16,17 & 18 E. N.bdy.of T.9 S.R.19 E.,the E.bdys.of T.8 S.,Rs.15,16,17 & 18 E.,S.L.B.& M., in the state of Utah.

Claude Hume, Flagman.

Subscribed and sworn to before me this 20th. day of April, 1910

Frank T. Roberts

U.S.Deputy Surveyor

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CHAINS	
	Survey commenced, April 20, 1910, and executed with the instrument described in book "A",of this survey.
	I begin at the stan.cor.of T.10 S.,Rs.14 and 15 E., heretofore described on the Second Standard Parallel South.
	I know from recent observations made April 18 and 19, 1910 at this same cor.that the instrument is in adjustment.
	At 7h.59m.,a.m.,l.m.t.,I set off 39°54'N.on lat.arc, 11°23'N.on decl.arc,and determine a meridian with the solar.
	Thence I run
	North,bet.secs.31 and 36.
	Over rocky and mountainous land,descend along west slope,through heavy timber.
2.50	Enter hollow,75 ft.deep,course from SW.to N.
	Descend in rocky hollow.
3.60	Leave hollow,course from S.to NW.
	Ascend along rocky west slope.
11.50	Spur,projects NW.
	Descend.
24.00	Same hollow,75 ft.deep,course NE.
	Ascend.
27.00	Spur,projects NE.
	Leave timber, bears NE.and SW.
	Descend.
32.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
34.00	Enter heavy timber,bears NE.and SW.
40.00	On top of spur,projects NE.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 36 on W.half,S 31 on E.half,from which

CHAINS	
	A pinon,13 ins.diam.,bears N.61°W.,53 lks.dist. marked ¼ S 36 BT.
	A pinon,9 ins.diam.,bears N.72°E.,37 lks.dist. marked ¼ S 31 BT.
	Descend.
43.00	Head of hollow,course NE.
	Ascend.
48.00	Ridge,bears NE.and SW.
	Abrupt descent.
63.00	Hollow,75 ft.deep,course NE.
	Abrupt ascent.
71.25	Ridge,bears NE.and SW.
	Descend.
76.30	Leave timber,bears NE.and SW.
78.00	Hollow,50 ft.deep,course NE.
	Ascend.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.25-30-31 and 36,marked on brass cap,T 10 S on N.half,.,
	R 14 E S 25 in NW.,
	R 15 E S 30 in NE.,
	S 31 in SE.and S 36 in SW.quadrant, from which
	A pinon,18 ins.diam.,bears N.49°W.,18 lks.dist. marked T 10 S R 14 E S 25 BT.
	A pinon,18 ins.diam.,bears S.88°W.,151 lks. dist.,marked T 10 S R 14 E S 36 BT.
	No other trees within limits and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

CHAINS	
	North,bet.secs.25 and 30.
	Ascend over mountainous land.
0.25	Enter heavy timber,bears NE.and SW.
15.00	Spur,projects NE.
	Descend.
20.00	Leave timber,bears NE.and SW.
25.50	Hollow,150 ft.deep,course NE.
	Ascend.
30.00	Enter timber,bears NE.and SW.
32.00	Spur,projects E.
	Descend.
35.00	Hollow,100 ft.deep,course E.
	Ascend.
37.75	Spur,projects SE.
	Descend.
39.25	Hollow,75 ft.deep,course SE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 25 on W. half,S 30 on E.half,from which
	A pinon,6 ins.diam.,bears S.34°E.,42 lks.dist., marked ¼ S 30 BT.
	A pinon,18 ins.diam.,bears S.28°W.,57 lks.dist., marked ¼ S 25 BT.
50.00	Ridge,bears NE.and SW.
	Abrupt descent.
57.00	Leave timber,bears NE.and SW.
60.50	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
64.00	Enter heavy timber,bears NE.and SW.
76.00	Ridge,bears NE.and SW.
	Descend.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.19-24-25 and 30,marked on brass

CHAINS	
	cap,T 10 S on N.half,
	R 14 E S 24 in NW.,
	R 15 E S 19 in NE.,
	S 30 in SE.and S 25 in SW.quadrant,from which
	A pinon,15 ins.diam.,bears S.27°W.,74 lks.dist.,
	marked T 10 S R 14 E S 25 BT.
	A cedar,7 ins.diam.,bears N.76°W.,51 lks.dist.,
	marked T 10 S R 14 E S 24 BT.
	No other trees within limits and raise a mound of stone
	2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	April 20: At this cor.I set off 11°26'N.on decl.arc,
	and at 11h.59m.a.m.,l.m.t.,observe the sun on the
	meridian,the resulting lat.is 39°56'N.
	North,bet.secs.19 and 24.
	Descend over rocky and mountainous land,through heavy
	timber.
14.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
21.50	Spur,projects NE.
	Abrupt descent.
36.00	Hollow,200 ft.deep,course NE.
	Leave heavy timber,bears NE.and SW.
	Abrupt ascent through scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the
	ground,for ¼ sec.cor.,marked on brass cap,¼ S 24 on W.
	half,S 19 on E.half,from which
	A pinon,8 ins.diam.,bears S.29°W.,35 lks.dist.
	marked ¼ S 24 BT.

CHAINS	
	A pinon,15 ins.diam.,bears N.59°E.,98 lks.dist., marked ¼ S 19 BT.
48.00	Ridge,bears NE.and SW.
	Descend.
52.00	Leave timber. Enter dense undergrowth.
55.00	Hollow,50 ft.deep,course NE.
	Ascend .
56.89	Intersect South Boundary of the Uintah Indian Reservation 5.00 chs.,S.67°45'W., from the ½ Mile Cor. bet.the 38th.and 39th. mile corners, which is a sandstone 15x10x6 ins.above ground,marked and witnessed as described by the surveyor general.
	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for closing cor.of secs.19 and 24,marked on brass cap, CC U I R on N.half,
	T 10 S on S.half,
	R 15 E S 19 in SE.,and
	R 14 E S 24 in SW.quadrant, dig pits, 30x24x12 ins., crosswise on each line,NE.and SW.,4 ft.and S.of post, 8 ft.dist.,and raise a mound of earth,5 ft.base,2½ ft.high,S.of cor.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 56.89 chs.
	April 20, 1910

BOUNDARIES OF T.10 S.,R.14 E.

Latitudes,departures and closing errors

Line Designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		Chs.	Chs.	Chs.	Chs.	Chs.
2nd.Stan.Par. South,	East,	149.20			149.20	
E.Bdy.	North	216.89	216.89			
S.Bdy.Uintah Ind.Res.	S.67°45'W.	50.00		18.93		46.28
	S.35°30'W.	191.60		155.98		111.26
	S.10°30'E.	43.00		42.28	7.84	
Convergency,						0.05
	Totals,		216.89	217.19	157.04	157.59
				216.89		157.04
	Error in lat.and dep.			0.30		0.55

For General Description see Subdivisions of T.10 S.,R.14 E.

Frank T. Robirk
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:

....., *Chainman.*

For list of names and final oath of assistants see book "Z[3]", *Chainman.*

T.9 S., R.19 E., *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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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 see book "Z^3" T.9 S., R. 19 E.

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

.....

United States Deputy Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Sept. 23, 1911

The foregoing field notes of the survey of the East Boundary of Township No.10 South, Range No. 14 East of the Salt Lake Base and Meridian, Utah,

executed by Frank T.Roberts under his contract No. 318, dated January 15, 1910, ~~190~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas 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-363

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FIELD NOTES

M.S.B.

OF THE SURVEY OF THE

SUBDIVISIONS

of

TOWNSHIP NO.10 SOUTH, RANGE NO.14 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Frank T.Roberts, *United States Deputy Surveyor,*

Under his Contract No. 318, *dated* January 15, 1910

Survey commenced April 21, 1910

Survey completed April 21, 1910

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NAMES AND DUTIES OF ASSISTANTS.

Granville A Cooper,	Chainman
Thomas Callahan,	"
Thomas J. Garrod,	Moundman
Claude L. Heist,	"
John William Simpson,	Axman
Claude Hume,	Flagman

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We, Granville A. Cooper, and Thomas Callahan,

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 Subdivisions of Ts.10 S.,Rs.14,15,16,17,18 & 19 E., Ts.9 S.,Rs.15,16,1 18 & 19 E., Ts.8 S.,Rs.15,16,17,18 & 19 E.,S.L.B.& M.,in the state of Utah

Granville A. Cooper, Chainman.

Thomas Callahan, Chainman.

Subscribed and sworn to before me this 21st. day of April, 1910

SEAL

Frank T. Robuck

U.S.Deputy Surveyor

We, Thomas J.Garrod, and Claude L.Heist,

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 Subdivisions of Ts.10 S.,Rs.14,15,16,17,18 & 19 E., Ts.9 S.,Rs.15,16,1 & 19 E., Ts.8 S.,Rs.15,16,17,18 & 19 E.,S.L.B.& M.,in the state of Utah.

Thomas J. Garrod, Moundman.

Claude L. Heist, Moundman.

Subscribed and sworn to before me this 21st. day of April, 1910

SEAL

Frank T. Robuck

U.S.Deputy Surveyor

~~We,~~ I, John William Simpson, ~~and~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the Subdivisions of Ts.10 S.,Rs.14,15,16,17,18 & 19 E., Ts.9 S.,Rs.15,16,1 18 & 19 E.,Ts.8 S.,Rs.15,16,17,18 & 19 E.,S.L.B.& M.,in the state of Utah.

John William Simpson, Axman.

..... Axman.

Subscribed and sworn to before me this 21st. day of April, 1910

SEAL

Frank T. Robuck

U.S.Deputy Surveyor

I, Claude Hume, 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 Subdivisions of Ts.10 S.,Rs.14,15,16,17,18 & 19 E.,Ts.9 S.,R 16,17,18 & 19 E., Ts.8 S.,Rs.15,16,17,18 & 19 E.,S.L.B.& M.,in the state o Utah.

Claude Hume, Flagman.

Subscribed and sworn to before me this 21st. day of April, 1910

SEAL

Frank T. Robuck

U.S.Deputy Surveyor

6—151

CHAINS	
	Survey commenced, April 21, 1910, and executed with the instrument described in book "A",of this survey.
	I know the instrument to be in adjustment from recent observations made April 18 and 19,1910,at the stan. cor.of T.10 S.,Rs.14 and 15 E., and recorded in book "A",of this survey.
	I begin at the re-established stan.cor.of secs.35 and 36, heretofore described on the Second Standard Parallel South.
	At 7h.59m.,a.m.,l.m.t.,I set off 39°54'N.on lat.arc, 11°43'N.on decl.arc,and determine a meridian with the solar.
	Thence I run
	N.0°01'W.,bet.secs.35 and 36.
	In bottom of hollow,course NE.
0.50.	Leave hollow,begin abrupt ascent through heavy timber bearing NE.and SW.
9.00	Spur,projects E.
	Abrupt descent.
13.50	Hollow,100 ft.deep,course E.
	Abrupt ascent.
31.00	Ridge,bears NE.and SW.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 35 on W.half,S 36 on E.half, from which
	A pinon,4 ins.diam.,bears N.29°W.,22 lks.dist. marked ¼ S 35 BT.
	A pinon,7 ins.diam.,bears S.17°E.,21 lks.dist. marked ¼ S 36 BT.
49.00	Leave timber,bears NE.and SW.
51.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.

CHAINS	
53.00	Enter heavy timber,bears NE.and SW.
78.50	Ridge,bears NE.and SW.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.25-26-35 and 36,marked on brass cap,T. 10 S. S 26 in NW.,
	R 14 E S. 25 in NE.,
	S 36 in SE.and S 35 in SW.quadrant, from which
	A cedar,10 ins.diam.,bears N.1°30'E.,80 lks. dist.,marked T 10 S R 14 E S 25 BT.
	A pinon,15 ins.diam.,bears S.41°30'E.,25 lks. dist.,marked T 10 S R 14 E S 36 BT.
	A pinon,18 ins.diam.,bears S.15°30'W.,69½ lks. dist.,marked T 10 S R 14 E S 35 BT.
	A pinon,15 ins.diam.,bears N.26°30'W.,28 lks. dist.,marked T 10 S R 14 E S 26 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	East,on a random line,bet.secs.25 and 36.
40.00	Set temp.¼ sec.cor.
80.04	Intersect E.bdy.of Tp.,5 lks.N.of the cor.of secs. 25-30-31 and 36,heretofore described.
	Thence I run
	N.89°58'W.,on a true line, Bet.secs.25 and 36.
	Ascend over rocky and mountainous land.
0.25	Enter heavy timber,bears NE.and SW.
6.00	Ridge,bears NE.and SW.
	Descend.
9.50	Hollow,50 ft.deep,course NE.
	Ascend.

CHAINS	
14.50	Spur,projects NE.
	Descend.
23.00	Hollow,100 ft.deep,course N E.
	Ascent.
25.00	Spur,projects NE.
	Descend.
27.00	Hollow,125 ft.deep,course NE.
	Abrupt ascent.
38.00	Ridge,bears NE.and SW.
	Abrupt descent.
40.02	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 25 on N. half,S 36 on S.half,from which
	A pinon,8 ins.diam.,bears N.5°W.,32 lks.dist., marked ¼ S 25 BT.
	A pinon,15 ins.diam.,bears S.69°30'E.,48 lks. dist.,marked ¼ S 36 BT.
46.00	Leave timber,bears NE.and SW.
51.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
56.00	Enter heavy timber,bears NE.and SW.
79.00	Ridge,bears NE.and SW.
	Descend.
80.04	The cor.of secs. 25-26-35 and 36.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.04 chs.
	April 21: At this cor.I set off 11°46'N.on decl.arc, and at 11h.59m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°55'N.

CHAINS	
	From the cor.of secs.25-26-35 and 36, I run West,on a true line,bet.secs.26 and 35.
	Descend through heavy timber.
9.00	Hollow,75 ft.deep,course N.
	Abrupt ascent.
13.25	Spur,projects N.
	Abrupt descent.
20.00	Leave timber,bears N.and S.
26.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
28.50	Enter heavy timber,bears NE.and SW.
40.00	Top of ridge,bears NE.and SW.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 26 on N. half,S 35 on S.half,from which.
	A pinon,5 ins.diam.,bears S.31°E.,5 lks.dist., marked ¼ S 35 BT.
	A pinon,14 ins.diam.,bears N.34°W.,23 lks.dist., marked ¼ S 26 BT.
	Descend.
42.20	Leave timber,bears NE.and SW.
43.00	Head of hollow,course NE.
	Ascend.
46.00	Enter heavy timber,bears NE.and SW.
50.40	Intersect S.bdy.of the Uintah Indian Reservation, 0.43 chs.,S.35°30'W.,from the 41st.Mile Cor.,which is a sandstone,10x15x4 ins.above ground,marked and witnessed as described by the surveyor general.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.26 and 35,marked on brass cap, U I R CC on W.half, and T 10 S R 14 E S 26 S 35 on E.half, from which
	A pinon,14 ins.diam.,bears N.48°E.,45 lks.dist. marked T 10 S R 14 E S 26 BT.

CHAINS	
	A pinon,6 ins.diam.,bears S.22°E.,53 lks.dist. marked T.10 S R 14 E S 35 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainousland on 50.40 chs.
	———
	From the cor.of secs.25-26-35 and 36,I run N.0°01'W.,bet.secs.25 and 26.
	Descend over mountainous land,through heavy timber.
17.50	Hollow,100 ft.deep,course NW.
	Ascend.
20.00	Spur,projects NW.
	Abrupt descent along steep,west slope.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 26 on W. half,S 25 on E.half,from which
	A pinon,14 ins.diam.,bears N.72°E.,23 lks.dist. marked ¼ S 25 BT.
	A pinon,13 ins.diam.,bears S.34°W.,34 lks.dist. marked ¼ S 26 BT.
49.50	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
53.00	Spur,projects NE.
	Abrupt descent.
59.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
70.68	Intersect the S.bdy.of the Uintah Indian Reservation, 6.50 chs.N.35°30'E.,from the 40th.Mile cor.,which is a sandstone,8x12x6 ins.above ground,marked and witnessed as described by the surveyor general.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.25 and 26,marked on brass

CHAINS	
	cap,U I R CC on N.half, and
	T 10 S R 14 E S 25 S 26 on S.half,from which
	A pinon,9 ins.diam.,bears S.82°E.,20 lks.dist.
	marked T 10 S R 14 E S 25 BT.
	A pinon,15ins.diam.,bears S.25°W.,60 lks.dist.
	marked T 10 S R 14 E S 26 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 70.68 chs.

	From the cor.of secs.19-24-25 and 30,heretofore described,on the E.bdy.of the Tp., I.run
	N.89°58'W.,on a true line,
	Bet.secs.24 and 25.
	Descend over rocky and mountainous land,through heavy timber.
16.00	Hollow,75 ft.deep,course NE.
	Abrupt ascent.
25.00	Ridge,bears NE.and SW.
	Abrupt descent.
36.50	Hollow, 100 ft.deep,course NE.
	Abrupt ascent.
39.75	Spur,projects NE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 24 on N. half,S 25 on S.half,from which
	A pinon,14 ins.diam.,bears N.45°E.,14 lks.dist., marked ¼ S 24 BT.
	A pinon,10 ins.diam.,bears S.30°E.,65½ lks.dist., marked ¼ S 25 BT.
44.70	Hollow,75 ft.deep,course NE.

CHAINS	
	Ascend.
47.00	Spur,projects NE.
	Abrupt descent.
56.00	Hollow,150 ft.deep,course NE.
	Leave heavy timber,bears NE.and SW.
	Abrupt ascent over broken sandstone ledges,along steep, south slope,through scatteringt timber.
73.44	Intersect S.bdy.of Uintah Indian Reservation,17.95 chs. N.35°30'E.,from the 40th.Mile cor.,heretofore described. Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.24 and 25,marked on brass cap, CC UIR on W.half, and T 10 S R 14 E S 24 S 25 on E.half, from which
	A pinon,14 ins.diam.,bears N.48°E.,45 lks.dist., marked T 10 S R 14 E S 24 BT.
	A pinon,6 ins.diam.,bears S.22°E.,53 lks.dist., marked T 10 S R 14 E S 25 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 73.44 chs.

April 21, 1910

GENERAL DESCRIPTION.

This fractional township is mountainous t hroughout and is cut by many hollows,draining in a northeasterly direction.

Nearly the entire surface is covered with a heavy growth of cedar and pinon timber and the soil is rocky and generally covered with a sparse growth of grass. There is no surface water or settlers in this township. There are no indications of oil,coal or minerals found in this township.

Frank T. Robinson
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 see book "Z[6]", *Chainman.*

T. 10 S., R. 19 E., _____, *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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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 see book "Z^6" T.10 S., R. 19 E.

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

_____

United States Deputy Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Sept. 23, 1911.

The foregoing field notes of the survey of the subdivisional lines of Township No. 10 South, Range No. 14 East of the Salt Lake Base and Meridian, Utah,

executed by Frank T. Roberts under his contract No. 318, dated January 15, 1910, ~~190~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

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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4—679.

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BOOK A-363

M.S.B.

FIELD NOTES

RETRACEMENT
OF THE ~~SURVEY~~ OF THE

SECOND STANDARD PARALLEL SOUTH

through

RANGE NO. 15 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, *United States Deputy Surveyor,*

Under his Contract No. 318, *dated* January 15, 1[illegible], *1910*

Retracement
~~*Survey*~~ *commenced* April 22, *1910*

Retracement
~~*Survey*~~ *completed* April 23, *1910*

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6-02-56

NAMES AND DUTIES OF ASSISTANTS.

Granville A. Cooper, ... Chainman

Thomas Callahan, ... "

Thomas J. Garrod, ... Rodman

Claude L. Keisel, ... "

John William Simpson, ... Axman

Claude Kime, ... Flagman

BOOK A-363

INDEX DIAGRAM.

Township 10 south, , *Range* 15 East,

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

Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

We, Granville A. Cooper, and Thomas Callahan,
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~~ retracem of the 2nd. Stan. Par. S., through R. 15 E., S. L. B. & M., in the state of Utah.

Granville A. Cooper, Chainman.
Thomas Callahan, Chainman.

Subscribed and sworn to before me this 22nd. day of April, 1910

Frank T. Robertson
U.S. Deputy Surveyor

SEAL

We, Thomas J. Garrod, and Claude L. Heist,
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~~ retracemen of the 2nd. Stan. Par. S., through R. 15 E., S. L. B. & M., in the state of Utah.

Thomas J. Garrod, Moundman.
Claude L. Heist, Moundman.

Subscribed and sworn to before me this 22nd. day of April, 1910

Frank T. Robertson
U.S. Deputy Surveyor

SEAL

~~We,~~ I, John William Simpson, ~~and~~
do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me to the best of ~~our~~ my skill and ability, in the ~~survey~~ retracement of the 2nd. Stan. Par. S., through R. 15 E., S. L. B. & M., in the state of Utah.

John William Simpson, Axman.
, Axman.

Subscribed and sworn to before me this 22nd. day of April, 1910

Frank T. Robertson
U.S. Deputy Surveyor

SEAL

I, Claude Hume, 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 the 2nd. Stan. Par. S., through R. 15 E., S. L. B. & M., in the state of Utah.

Claude Hume, Flagman.

Subscribed and sworn to before me this 22nd. day of April, 1910

Frank T. Robertson
U.S. Deputy Surveyor

SEAL

6—151

CHAINS

Survey commenced,April 22,1910, and executed with the instrument described in book "A",of this survey.

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

At the stan.cor.of T.10 S.,Rs.15 and 16, E.,which is a sandstone,12x8x8 ins.above ground,marked and witnessed as described by the surveyor general,in approximate latitude 39°54'N.,longitude 110°12'W., I set off 39°54'N.,on lat.arc,12°10'N.on decl.arc,and at 3h.59m.,p.m.,l.m.t.,determine with the solar a meridian and mark a point in the line thus determined on a stone firmly set in the ground,5 chs.N.of the cor.

April 22, 1910

April 23: At 5h.28m.,a.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with Manual of Instructions,and mark a point in the line thus determined on a peg driven in the ground,,5 chs.N.of my station.

At 7 a.m.,I lay off the azimuth of Polaris,1°32'to the west,and mark the meridian thus determined,by cutting a small groove in the stone set last evening,on which the meridian falls 0.2 ins.east of the mark determined by the solar.

At 7h.58m.,a.m.,l.m.t.,I set off 39°54'N.on lat.arc, 12°24' N.on decl.arc,and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N.of my station; this mark falls 0.2 ins.east of the meridian established by the Polaris observation.

The solar apparatus,by p.m.and a.m.observations,defines positions for meridians,respectively about 0'11" west

CHAINS	
	and east of the meridian established by the Polaris observations; therefore,I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 8h.30m., a.m.,is N.16°20'E., the angle thus determined gives the mag.decl. 16°20'E.
	From the stan.Tp.cor.already described, I run
	West, on retracement line,on S.bdy.of sec.36.
11.00	Intersect the closing cor.of T.11 S.,Rs.15 and 16 E. which is a sandstone,12x12x6 ins.above ground,marked and witnessed as described by the surveyor general.
40.00	Intersect the stan.¼ sec.cor.,which is a sandstone, 8x8x4 ins.above ground,marked and witnessed as described by the surveyor general.
80.00	Intersect the stan.cor.of secs.35 and 36,which is a sandstone,10x10x6 ins.above ground,marked and witnessed as described by the surveyor general.
	West,on retracement line,on S.bdy.of sec.35.
10.90	Fall 9 lks.S.of closing cor.of secs.1 and 2, T.11S.,R.15 E.,which is a sandstone,8x10x6 ins.above ground,marked and witnessed as described by the surveyor general.
40.02	Fall 36 lks.S.of the stan.¼ sec.cor.,which is a sandstone,9x12x5 ins.above ground,marked and witnessed as described by the surveyor general.
80.10	Fall 72 lks.S.of the stan.cor.of secs.34 and 35,which is a sandstone,6x10x3 ins.above ground,marked and witnessed as described by the surveyor general.
	The course of this line is therefore N.89°39'W.,and the distance 80.10 chs.

CHAINS	
	West, on retracement line, on S. bdy. of sec. 34.
10.82	Fall 4 lks. S. of closing cor. of secs. 2 and 3, T. 11 S., R. 15 E., which is a sandstone, 12x12x3 ins. above ground, marked and witnessed as described by the surveyor general.
40.17	Fall 15 lks. S. of the stan. ¼ sec. cor., which is a sandstone, 9x12x5 ins. above ground, marked and witnessed as described by the surveyor general.
80.10	Fall 30 lks. S. of the stan. cor. of secs. 33 and 34, which is a sandstone, 8x10x3 ins. above ground, marked and witnessed as described by the surveyor general.
	The course of this line is therefore, N. 89°47' W., and the distance, 80.10 chs.
	April 23: At this cor. I set off 12°26' N. on decl. arc, and at 11h. 58m. a. m., l. m. t., observe the sun on the meridian, the resulting lat. is 39°54' N.
	West, on retracement line, on S. bdy. of sec. 33.
11.00	Fall 1 lk. S. of closing cor. of secs. 3 and 4, T. 11 S., R. 15 E., which is a sandstone, 12x15x6 ins. above ground, marked and witnessed as described by the surveyor general.
39.58	Fall 6 lks. S. of the stan. ¼ sec. cor., which is a sandstone 10x10x4 ins. above ground, marked and witnessed as described by the surveyor general.
	The course of this line is therefore N. 89°55' W., and the distance, 39.58 chs.
	I offset over the stan. ¼ sec. cor. and continue, west.
39.40	Fall 6 lks. S. of the stan. cor. of secs. 32 and 33, which is a sandstone, 9x10x8 ins. above ground, marked and witnessed as described by the surveyor general.
	The course of this line is therefore N. 89°55' W., and the distance, 39.40 chs.

CHAINS	
	West,on retracement line,on S.bdy.of sec.32.
11.05	Fall 10 lks.S.ofclosing cor.of secs.4 and 5,T.11 S.,R.15 E.,which is a sandstone,10x10x4 ins.above ground, marked and witnessed as described by the surveyor general.
39.68	Fall 37 lks.S.of the stan.¼ sec.cor.,which is a sandstone,15x15x2 ins.above ground,marked and witnessed as described by the surveyor general.
	The course of this line is therefore, N.89°28'W.,and the distance, 39.68 chs.
	I offset over the stan.¼ sec.cor.and continue west
41.24	Fall 38 lks.S.of the stan.cor.of secs.31 and 32,which is a sandstone,7x8x3 ins.above ground,marked and witnessed as described by the surveyor general.
	The course of this line is therefore,N.89°28'W.,and the distance,41.24 chs.
	West,on retracement line,on S.bdy.of sec.31.
10.92	Fall 6 lks.S.of closing cor.of secs.5 and 6, T.11 S.,R.15 E.,which is a sandstone,8x8x6 ins.above ground,marked and witnessed as described by the surveyor general.
39.14	Fall 23 lks.S.of the stan.¼ sec.cor.,which is a sandstone,7x10x3 ins.above ground,marked and witnessed as described by the surveyor general.
	I continue west on same line.
82.46	Fall 47 lks.S.of the stan.cor.of T.10 S.,Rs.14 and 15 W.,heretofore described.
	The course of this line is therefore,N.89°40'W.,and the distance, 82.46 chs.
	April 23,1910
	For General Description,see Subdivisions of T.10 S., R.15 E.
	Frank T. Polasek 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 Frank T. Roberts, 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~~ retracement of the 2nd. Stan. Par. S., through R. 15 E., S. L. B. & M., in the state of Utah, showing the respective capacities in which they acted:

Granville A. Cooper, *Chainman.*

Thomas Callahan, *Chainman.*

Thomas J. Garrod, *Moundman.*

Claude L. Heist, *Moundman.*

John William Simpson, *Axman.*

Axman.

Claude Hume, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frank T. Roberts, United States Deputy Surveyor, in ~~surveying~~ retracing those parts or portions of the Second Standard Parallel South, through R. 15 E. 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 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

Granville A. Cooper, *Chainman.*

Thomas Callahan, *Chainman.*

Thomas J. Garrod, *Moundman.*

Claude L. Heist, *Moundman.*

John William Simpson, *Axman.*

Axman.

Claude Hume, *Flagman.*

Subscribed and sworn to before me this 23rd. day of April, 1910

SEAL

Frank T. Roberts

U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Frank T. Roberts, 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 15th day of January, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed~~ retraced all those parts or portions of the Second Standard Parallel South, through R.15 E.

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 ~~xxxxx~~ retracement.

Frank T. Roberts
United States Deputy Surveyor

Subscribed by said Frank T. Roberts, and sworn to before me this 19th day of May, 1911. ~~xxx~~

Thomas Hull
U.S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Sept. 23, 1911.

The foregoing field notes of the ~~xxxxx~~ of retracement of the Second Standard Parallel South, through Range No.15 East, of the Salt Lake Base and Meridian, Utah,

executed by Frank T. Roberts under his contract No. 318, dated January 15, 1910, ~~xxx~~, 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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" E "

BOOK A-363

FILED
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FIELD NOTES

336

OF THE SURVEY OF THE

EAST and NORTH BOUNDARIES

of

TOWNSHIP NO.10 SOUTH, RANGE NO.15 EAST,

Of the Salt Lake Base and *Meridian,*

in the State of Utah

AS SURVEYED BY

Frank T.Roberts, *United States Deputy Surveyor,*

Under his Contract No. 318, *dated* January 15, 1910

Survey commenced April 24, 1910

Survey completed April 26, 1910

BOOK A-363

NAMES AND DUTIES OF ASSISTANTS.

Granville A. Cooper,	Chainman
Thomas Callahan,	"
Thomas J. Garrod,	Moundman
Claude L. Heist,	"
John William Simpson,	Axman
Claude Hume,	Flagman

For preliminary affidavits see book "B" T.10 S., R. 14 E.

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BOOK A-363

INDEX DIAGRAM.

Township 10 South, , *Range* 15 East,

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Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

..... *Moundman.*

..... *Moundman.*

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

SEAL

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

..... *Axman.*

..... *Axman.*

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

SEAL

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

..... *Flagman*

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

SEAL

CHAINS

Survey commenced, April 24, 1910, and executed with the instrument described in book "A", of this survey.

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

At the cor. of T.10 S., Rs.15 and 16 E., on the Second Standard Parallel South, heretofore described, in approximate latitude, 39°54'N., longitude 110°12'W., I set off 39°54'N. on lat. arc, 12°50'N. on decl. arc, and at 3h.58m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

April 24, 1910

April 25: At 5h.20m., a.m., l.m.t., I observe Polaris, at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs. N. of my station.

At 7 a.m., I lay off the azimuth of Polaris, 1°32' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 7h.58m., a.m., l.m.t., I set off 39°54'N. on lat. arc, 13°03'N. on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.2 east of the meridian established by the Polaris observation.

CHAINS

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

The magnetic bearing of the true meridian,at 8h.30m., a.m.,is N.16°20'W., the angle thus determined gives the mag.decl. 16°20'E.

From the stan.Tp.cor.,already described, I run

North, bet.secs.31 and 36.

Ascend over mountainous land,through heavy timber.

1.50 Spur,projects E.

Leave timber,bears E.and W.

Descend.

9.90 Hollow,100 ft.deep,course NE.

Ascend.

12.05 Spur,projects E.

Enter heavy timber,bears E.and W.

Descend.

15.00 Head of hollow,course E.

Ascend.

17.75 Ridge,bears NE.and SW.

Descend.

20.00 Hollow,50 ft.deep,course NE.

Ascend.

23.65 Ridge,bears NE.and SW.

Descend.

36.25 Hollow,100 ft.deep,course NE.

Ascend.

40.00 Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 36 on W. half,S 31 on E.half,from which

A pinon,10 ins.diam.,bears N.9°E.,86 lks.dist., marks ¼ S 31 BT.

CHAINS	
	A pinon,9 ins.diam.,bears N.55°W.,47 lks.dist. marked ¼ S 36 BT.
41.50	Ridge,bears NE.and SW.
	Descend.
52.75	Hollow,100 ft.deep,course NE.
	Ascend.
63.50	Spur,projects NE.
	Descend.
66.75	Hollow,75 ft.deep,course NE.
	Ascend.
70.00	Spur,projects NE.
	Descend.
77.00	Leave timber,bears NE.and SW.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.25-30-31 and 36,marked on brass cap, T 10 S on N.half,
	R 15 E S 25 in NW.,
	R 16 E S 30 in NE.,
	S 31 in SE.and S 36 in SW.quadrant,from which
	A cedar,5 ins.diam.,bears N.84°30'E.,100 lks.dist. marked T 10 S R 16 E S 30 BT.
	A pinon,6 ins.diam.,bears S.37°E.,58 lks.dist.,, marked T 10 S R 16 E S 31 BT.
	No other trees within limits and raise a mound of stone 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

CHAINS	
	North, bet.secs.25 and 30.
	Descend over rocky and mountainous land.
2.50	Hollow,100 ft.deep,course NE.
	Ascend.
4.00	Enter scattering timber.
5.00	Spur,projects E.
	Descend.
7.80	Hollow,75 ft.deep,course NE.
	Ascend.
10.80	Spur,projects NE.
	Descend.
12.90	Hollow,50 ft.deep,course NE.
	Ascend.
16.00	Spur,projects NE.
	Descend.
26,70	Hollow,100 ft.deep,course E.
	Ascend.
29.00	Spur,projects E.
	Descend.
31.50	Hollow,75 ft.deep,course E.
	Ascend.
36.00	Spur,projects E.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 25 on W. half,S 30 on E.half,from which
	A pinon,12 ins.diam.,bears N.52°E.,20 lks.dist. marked ¼ S 30 BT.
	A pinon,12 ins.diam.,bears N.18°W.,34 lks.dist. marked ¼ S 25 BT.
44.75	Hollow,75 ft.deep,course NE.
	Ascend.
50.00	Ridge,bears NE.and SW.
	Descend.

CHAINS	
58.00	Enter bottom of wide hollow,100 ft.deep,course NE.
	Leave timber.
60.70	Wash,5 lks.wide,5 ft.deep,course NE.
65.00	Leave hollow, ascend.
75.00	Enter scattering timber.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.19-24-25 and 30,marked on brass cap,T 10 S on N.half,
	R 15 E S 24 in NW.,
	R 16 E S 19 in NE.,
	S 30 in SE.and S 25 in SW.quadrant,from which
	A cedar,10 ins.diam.,bears N.33°E.,203 lks.dist., marked T 10 S R 16 E S 19 BT.
	A pinon,14 ins.diam.,bears S.41°E.,129 lks.dist., marked T 10 S R 16 E S 30 BT.
	A cedar,18 ins.diam.,bears S.19°W.,35 lks.dist, marked T 10 S R 15 E S 25 BT.
	A cedar,8 ins.diam.,bears N.23°W.,23 lks.dist., marked T 10 S R 15 E S 24 BT.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	April 25: At this cor.I set off 13°06'N.on decl.arc, and at 11h.58m.a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°56'N.

North, bet.secs.19 and 24.

	Ascend over rocky and mountainous land,through scattering timber.
5.05	Spur,projects E.
	Descend.
10.25	Hollow,50 ft.deep,course E.
	Ascend over broken east slope.

CHAINS	
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ seccor.,marked on brass cap, ¼ S 24 on W.half,S 19 on E.half, from which
	A pinon,6 ins.diam.,bears N.2°30'E.,17½ lks. dist.,marked ¼ S 19 BT.
	A cedar,12 ins.diam.,bears S.48°W.,40½ lks. dist.,marked ¼ S 24 BT.
64.00	Spur,projects E.
	Descend.
65.25	Head of hollow,course E.
	Ascend.
74.25	Spur,projects E.
	Descend.
76.00	Head of hollow,course E.
	Ascend.
78.00	Enter heavy timber,bears NE.and SW.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.13-18-19 and 24,marked on brass cap,T 10 S.on N.half,
	R 15 E S 13 in NW.,
	R 16 E S 18 in NE.,
	S 19 in SE.and S 24 in SW.quadrant,from which
	A pinon,6 ins.diam.,bears N.68°E.,28 lks.dist. marked T 10 S R 16 E S 18 BT.
	A cedar,12 ins.diam.,bears S.14°E.,35 lks.dist. marked T 10 S R 16 E S 19 BT.
	A pinon,8 ins.diam.,bears S.72°30'W.,46 lks. dist.,marked T 10 S R 15 E S 24 BT.
	A pinon,9 ins.diam.,bears N.56°W.,87 lks.dist., marked T 10 S R 15 E.S 13 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

CHAINS	
	North, bet.secs.13 and 18.
	Ascend over mountainous land,through heavy timber.
2.50	Ridge,bears NE.and SW.
	Descend.
5.50	Head of hollow,course NE.
	Ascend.
20.00	Spur,projects NE.
	Descend.
24.50	Leave timber,bears NE.and SW.
27.50	Hollow,100 ft.deep,course NE.
	Ascend.
32.15	Enter heavy timber,bears NE.and SW.
39.00	Spur,projects E.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 13 on W. half,S 18 on E.half,from which
	A pinon,8 ins.diam.,bears S.42°E.,26 lks.dist., marked ¼ S 18 BT.
	A cedar,7 ins.diam.,bears N.65°W.,34½ lks.dist., marked ¼ S 13 BT.
40.75	Head of hollow,course E.
	Ascend.
45.00	Ridge,bears NE.and SW.
	Leave timber,bears NE.and SW.
	Descend.
60.00	Enter heavy timber,bears NE.and SW.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.7-12-13 and 18,marked on brass cap,T 10 S on N.half,
	R 15 E S 12 in NW.,
	R 16 E S 7 in NE.,
	S 18 in SE.and S 13 in SW.quadrant,from which

CHAINS	
	A pinon,6 ins.diam.,bears N.49°E.,24 lks.dist. marked T 10 S R 16 E S 7 BT.
	A pinon,7 ins.diam.,bears S.32°E.,126 lks.dist. marked T 10 S R 16 E S 18 BT.
	A pinon,10 ins.diam.,bears S.4°30'W.,187 lks. dist.,marked T 10 S R 15 E S 13 BT.
	A pinon,7 ins.diam.,bears N.81°W.,136 lks. dist.,marked T 10 S R 15 E S 12 BT.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	North,bet.secs.7 and 12.
	Descend over rocky and mountainous land,through scattering timber.
6.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
26.50	Ridge,bears NE.and SW.
	Enter heavy timber,bears NE.and SW.
	Descend.
33.00	Hollow,75 ft.deep,course NE.
	Ascend.
40.00	Ridge,bears NE.and SW.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 12 on W. half,S 7 on E.half,from which
	A pinon,7 ins.diam.,bears S.62°W.,64 lks.dist., marked ¼ S 12 BT.
	A cedar,8 ins.diam.,bears N.11°E.,72 lks.dist., marked ¼ S 7 BT.
	Descend along steep west slope.
72.00	Hollow,200 ft.below ¼ sec.cor.,course NE.
	Ascend.

CHAINS	
75.00	Spur,projects NE.
	Leave heavy timber,bears NE.and SW.
	Enter scattering timber.
	Descend.
80.00	Set an iron post,3 ft.long,3 in.dia.,24 ins.in the ground,for cor.of secs.1-6-7 and 12,marked on brass cap,
	T 10 S on N.half,
	R 15 E S 1 in NW.,
	R 16 E S 6 in NE.,
	S 7 in SE.and S 12 in SW.quadrant, from which
	A pinon,9 ins.diam.,bears N.87°E.,256 lks.
	dist.,marked T 10 S R 16 E S 6 BT.
	A pinon,10 ins.diam.,bears S.58°E.,301 lks.
	dist.,marked T 10 S R 16 E S 7 BT.
	A pinon,9 ins.diam.,bears S.44°W.,133 lks.dist.
	marked T 10 S R 15 E S 12 BT.
	A pinon,8 ins.diam.,bears N.67°W.,80 lks.dist.,
	marked T 10 S R 15 E S 1 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	April 25, 1910

April 26: At 7h.58m.,a.m.,l.m.t.,I set off 39°58'N.on lat.arc,13°23'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.1-6-7 and 12.

Thence I run

North,bet.secs.1 and 6.

	Descend over rocky and mountainous land,along east, slope, through scattering timber.
8.00	Leave timber.
22.50	Enter bottom of Wells Draw,150 ft.deep,course NE.
	Over level land,in bottom of draw,through sparse

CHAINS	
	undergrowth.
28.23	Telephone line between Price and Fort Duchesne,bears NE.and SW.
	From this point the well at Smith's Well,bears N.64°27'E.
31.75	Road from Price to Vernal,bears NE.and SW.
37.00	Leave bottom of draw.
	Begin abrupt ascent over shale ledges,bearing NE.and SW.
40.00	Set an iron post,3 ft.long,1 in.dia.,in mound of stone and earth,for ¼ sec.cor.,marked on brass cap,¼ S 1 on W.half, S 6 on E.half,from which
	A pinon,10 ins.diam.,bears N.21°E.,145 lks.dist., marked ¼ S 6 BT.
	A pinon,8 ins.diam.,bears N.60°W.,112 lks.dist., marked ¼ S 1 BT.
	This cor.cannot be set over 12 ins.in the ground.
41.25	Spur,projects NE. and top of shale ledges.
	Enter scattering timber.
	Descend.
45.00	Hollow,50 ft.deep,course NE.
	Abrupt ascent.
56.35	Spur,projects NE.
	Abrupt descent.
71.50	Hollow,125 ft.deep,course E.
	Ascend.
76.50	Spur,projects E.
	Enter heavy timber,bears E.and W.
	Descend.
80.00	Set an iron post,3 ft.long,3 ins.dia.,in mound of stone and earth,for cor.of Tps.9 and 10 S.,Rs.15 and 16 E., marked on brass cap, T 9 S on N.half,
	T 10 S on S.half,
	R 15 E S 36 in NW.,
	R 16 E S 31 in NE.,

EAST BOUNDARY OF T.10 S.,R.15 E.

CHAINS	
	R 16 E S 6 in SE.and
	R 15 E S 1 in SW.quadrant, from which
	A pinon,14 ins.diam.,bears N.3°E.,83 lks.dist., marked T 9 S R 16 E S 31 BT.
	A pinon,10 ins.diam.,bears S.47°E.,31 lks.dist. marked T 10 S R 16 E S 6 BT.
	A pinon,18 ins.diam.,bears S.63°W.,31 lks.dist., marked T 10 S R 15 E S 1 BT.
	A pinon,9 ins.diam,bears N.39°W.,45 lks.dist., marked T 9 S R 15 E S 36 BT.
	Note:
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous,and level.
	Soil,rocky, 3rd.and 4th.rate on 64.50 chs.
	balance, loam,2nd.rate.
	Timber,cedar and pinon.
	Undergrowth, low greasewood.
	Mountainous land on 64.50 chs.

NORTH BOUNDARY OF T.10 S.,R.15 E.

	From the cor.of Tps.9 and 10 S.,Rs.15 and 16 E., I run West, on a true line,bet.secs.1 and 36.
	Ascend over rocky and mountainous land,through heavy timber.
5.00	Spur,projects NE.
	Descend.
11.00	Hollow,75 ft.deep,course NE.
	Abrupt ascent.
31.00	Ridge,bears NE.and SW.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 36 on N.

CHAINS	
	half,S 1 on S.half,from which
	A pinon,8 ins.diam.,bears North,34 lks.dist.,
	marked ¼ S 36 BT.
	A pinon,9 ins.diam.,bears S.49°E.,36 lks.dist.,
	marked ¼ S 1 BT.
41.60	Hollow,100 ft.deep,course N.
	Abrupt ascent.
46.00	Spur,projects N.
	Abrupt descent.
50.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
59.00	Spur,projects N.
	Abrupt descent.
65.00	Hollow,100 ft.deep,course N.
	Abrupt ascent.
68.00	Spur,projects N.
	Abrupt descent.
73.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
76.00	Spur,projects NE.
	Descend along steep,north slope.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.1-2-35 and 36,marked on brass cap,T 9 S S 35 in NW.,
	R 15 E S 36 in NE.,
	R 15 E S 1 in SE.,and
	T 10 S S 2 in SW.quadrant, from which
	A pinon,6 ins.diam.,bears N.27°30'E.,27 lks. dist.,marked T 9 S R 15 E S 36 BT.
	A pinon,6 ins.diam.,bears S.81°E.,29 lks.dist., marked T 10 S R 15 E S 1 BT.
	A pinon,5 ins.diam.,bears S.73°W.,13 lks.dist. marked T 10 S R 15 E S 2 BT.

CHAINS	
	A pinon,5 ins.diam.,bears N.80°W.,68 lks.dist., marked T 9 S R 15 E S 35 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	April 26: At this cor.I set off 13°26'N.on decl.arc,and at 11h.58m.a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°59'N.
	West, bet.secs.2 and 35.
	Descend over broken,rocky and mountainous land,along steep,north slope, through heavy timber.
10.00	Enter wide hollow,150 ft.deep,course NE.
	Leave timber,bears NE.and SW.
	Over level land.
19.00	Wash,15 lks.wide,5 ft.deep,course NE.
31.00	Leave hollow.
	Begin abrupt ascent over rocky land,through scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 35 on N. half,S 2 on S.half, from which
	A pinon,18 ins.diam.,bears N.52°W.,5 lks.dist., marked ¼ S 35 BT.
	A pinon,15 ins.diam.,bears S.2°30'E.,37 lks.dist. marked ¼ S 2 BT.
50.40	Rocky spur,projects SE.
	Descend along steep,rocky,broken south slope.
61.00	Hollow,100 ft.deep,course S.
	Ascend abruptly along steep,south slope.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.2-3-34 and 35,marked on brass cap, T 9 S S 34 in NW.,

CHAINS	
	R 15 E S 35 in NE.,
	R 15 E S 2 in SE.,and
	T 10 S S 3 in SW.quadrant,from which
	A cedar,12 ins.diam.,bears N.45°E.,6 lks.dist., marked T 9 S R 15 E S 35 BT.
	A pinon,6 ins.diam.,bears S.17°30'E.,82 lks.dist. marked T 10 S R 15 E S 2 BT.
	A pinon,9 ins.diam.,bears S.64°W.,95 lks.dist., marked T 10 S R 15 E S 3 BT.
	A pinon,15 ins.diam.,bears N.70°15'W.,64 lks. dist.,marked T 9 S R 15 E S 34 BT.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 59.00 chs. balance,loam,2nd.rate.
	Timber,cedar and pinon.
	Mountainous land on 59.00 chs.
	West,bet.secs.3 and 34.
	Ascend abruptly over rocky and mountainous land,along steep,south slope,through heavy timber.
10.00	Rocky spur,projects S.
	Abrupt descent.
14.50	Hollow,100 ft.deep,course S.
	Abrupt ascent.
24.00	Ridge,bears NE.and W.
	Ascend along top of ridge.
37.00	Leave ridge,bears NW.and E.
	Descend along south slope.
40.00	Set an iron post,3 ft.long,1 in.d ia., 26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 34 on N. half,S 3 on S.half,from which
	A pinon,7 ins.diam.,bears S.67°W.,17 lks.dist., marked ¼ S 3 BT.

CHAINS	
	A pinon,8 ins.diam.,bears N.43°30'W.,113 lks. dist.,marked ¼ S 34 BT.
45.00	Head of hollow,course S.
	Ascend.
50.00	Same ridge,bears W.and NE.
	Ascend along top of ridge.
61.00	Leave ridge,bears E.and SW.
	Descend.
63.00	Leave timber,bears NE.and SW.
80.00	Set an iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for cor.of secs.3-4-33 and 34,marked on brass cap,T 9 S S 33 in NW.,
	R 15 E S 34 in NE.,
	R 15 E S 3 in SE.,and
	T 10 S S 4 in SW.quadrant, from which
	A pinon,6 ins.diam.,bears N.53°E.,124 lks.dist. marked T 9 S R 15 E S 34 BT.
	A pinon,6 ins.diam.,bears S.18°15'E.,338 lks. dist.,marked T 10 S R 15 E S 3 BT.
	A cedar,8 ins.diam.,bears S.54°W.,104 lks.dist. marked T 10 S R 15 E S 4 BT.
	A pinon,7 ins.diam.,bears N.88°W.,125 lks.dist., marked T 9 S R 15 E S 33 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	West, bet.secs.4 and 33.
	Ascend through scattering timber.
3.23	Intersect South Bdy.of the Uintah Indian Reservation, 9.52 chs.,S.3°30'W.,from the 33 Mile Cor.,which is a sandstone,10x12x5 ins.above ground,marked and witnessed as described by the surveyor general.

CHAINS

Set and iron post,3 ft.long,3 ins.dia.,24 ins.in the ground,for closing cor.of Tps.9 and 10 S.,R.15 E., marked on brass cap,U I R CC on W.half,
T 9 S R 15 E S 33 in NE.,and
T 10 S R 15 E S 4 in SE.quadrant, from which
A pinon,7 ins.diam.,bears N.56°30'E.,48 lks. dist.,marked T 9 S R 15 E S 33 BT.
A pinon,12 ins.diam.,bears S.38°30'E.,101 lks. dist.,marked T 10 S R 15 E S 4 BT.
Land, rolling.
Soil,rocky,3rd.rate.
Timber,cedar and pinon.

April 26, 1910

BOUNDARIES OF T.10 S.,R.15 E.
Latitudes,departures and closing errors

Line Designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		Chs.	Chs.	Chs.	Chs.	Chs.
2nd.Stan.Par.S.						
	S.89°40'E.	82.46		0.48	82.46	
	S.89°28'E.	80.92		0.75	80.92	
	S.89°55'E.	78.98		0.11	78.98	
	S.89°47'E.	80.10		0.30	80.10	
	S.89°29'E.	80.10		0.72	80.10	
	East	80.00			80.00	
E.Bdy.	North	480.00	480.00			
N.Bdy.	West	243.23				243.23
U.Res.Bdy.	S.3°30'W.	190.48		190.12		11.63
	S.48°30'W.	52.00		34.45		38.94
	S.81°15'W.	161.00		24.50		159.13
	S.67°45'W.	32.00		12.11		29.61
West Bdy.	South	216.89		216.89		
Convergency						0.46
	Totals,		480.00	480.43	482.56	483.00
				480.00		482.56
	Error in lat.and dep.			0.43		0.44

For General Description,see Subdivisions of T.10 S. R.15 E.

Frank T. Tobin

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:

_____, *Chainman.*

_____, *Chainman.*

or list of names and final oath of assistants see book "Z³ ", *Moundman.*

T. 9 S., R. 19 E., _____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

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

_____

_____

_____ of the _____

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

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

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

SEAL

_____

_____

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

For final oath of deputy see book "Z[3]" T. 9 S., R. 19 E.

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

.....
United States Deputy Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Sept. 23, 1911 190

The foregoing field notes of the survey of the East and North Boundaries of Township No. 10 South, Range No. 15 East, of the Salt Lake Base and Meridian, Utah.

executed by Frank T. Roberts under his contract No. 318, dated January 15, 1910, 190 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas 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.

6—151

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Page

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Page

4—679.

"F"
BOOK A-363

FILED
DEC 27 1910

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

of

TOWNSHIP NO. 10 SOUTH, RANGE NO. 15 EAST,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Frank T. Roberts, *United States Deputy Surveyor,*

Under his Contract No. 318, *dated* January 15, *1910*

Survey commenced April 27, *1910*

Survey completed May 6, *1910*

6—151

47-29-74 32-06

NAMES AND DUTIES OF ASSISTANTS.

Granville A.Cooper,	Chainman
Thomas Callahan,	"
Thomas J.Garrod,	Moundman
Claude L.Heist,	"
John William Simpson,	Axman
Claude Hume,	Flagman

For preliminary affidavits see book "C" T.10 S., R. 14 E.

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BOOK A-363

INDEX DIAGRAM.

Township 10 South, , *Range* 15 East,

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

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

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

..... *Moundman.*

..... *Moundman.*

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

SEAL

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

..... *Axman*

..... *Axman*

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

SEAL

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

..... *Flagman*

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

SEAL

CHAINS

Survey commenced April 27, 1910, and executed with the instrument described in book "A", of this survey.

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

At the stan. cor. of secs. 35 and 36, heretofore described on the Second Standard Parallel South, in approximate latitude, 39°54'N., longitude 110°12'W., I set off 39°54' N. on lat. arc, 13°49'N. on decl. arc, and at 3h. 58m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

April 27, 1910

April 28: At 5h. 12m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 7 a.m., I lay off the azimuth of Polaris, 1°32' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 7h. 58m., a.m., l.m.t., I set off 39°54'N. on lat. arc, 14°01'N. on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of my station; this mark falls 0.2 ins. east of the meridian established by the Polaris observation.

CHAINS	
	The solar apparatus,by p.m.and a.m.observations,defines positions for meridians,respectively about,0'11" west and east of the meridian established by the Polaris observations; therefore,I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian, at 8h.30m., is N.16°20'W.,the angle thus determined gives the mag. decl.16°20'E.
	From the stan.sec.cor.,already described, I run N.0°01'W.,bet.secs.35 and 36.
	Descend over mountainous land,through heavy timber.
2.00	Head of hollow,course NW.
	Ascend.
4.25	Spur,projects NW.
	Descend.
18.75	Hollow,75 ft.deep,course NW.
	Ascend.
25.00	Spur,projects NW.
	Descend.
30.00	Leave heavy timber,bears NE.and SW.
	Enter scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 35 on W. half,S 36 on E.half,from which
	A cedar,6 ins.diam.,bears N.32°30'E.,220 lks. marked ¼ S 36 BT.
	A cedar,12 ins.diam.,bears S.38°W.,121 lks.dist. marked ¼ S 35 BT.
41.00	Leave timber.
50.00	Hollow,100 ft.deep,course NE.
	Ascend.
61.50	Enter scattering timber.
64.00	Leave timber.
67.00	Ridge,bears NE.and SW.

CHAINS	
	Descend.
77.75	Head of hollow, course NE.
	Ascend.
	Enter scattering timber.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.25-26-35 and 36,marked on brass cap,T 10 S S 26 in NW., R 15 E S 25 in NE., S 36 in SE.,and S 35 in SW.quadrant,from which
	A pinon,10 ins.diam.,bears N.59°45'E.,94 lks. dist.,marked T 10 S R 15 E S 25 BT.
	A pinon,15 ins.diam.,bears S.16°E.,133 lks. dist.,marked T 10 S R 15 E S 36 BT.
	A pinon,12 ins.diam.,bears S.5°15'W.,77 lks. dist.,marked T 10 S R 15 E S 35 BT.
	A pinon,14 ins.diam.,bears N.21°15'W.,181 lks. dist.,marked T 10 S R 15 E S 26 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	East,on a random line,bet.secs.25 and 36.
40.00	Set temp.¼ sec.cor.
79.92	Intersect E.bdy.of Tp., 12 lks.S.of the cor.of secs. 25-30-31 and 36,heretofore described.
	Thence I run
	S.89°55'W.,on a true line,
	Bet.secs.25 and 36.
	Descend over rocky and mountainous land.
2.00	Hollow,100 ft.deep,course NE.
	Ascend through scattering timber.
13.00	Enter heavy timber,bears NE.and SW.
19.00	Ridge,bears NE.and SW.

CHAINS	
	Descend.
24.25	Hollow,50 ft.deep,course NE.
	Ascend.
27.50	Spur,projects NE.
	Descend.
32.00	Hollow,75 ft.deep,course NE.
	Ascend.
35.00	Spur,projects NE.
	Descend.
39.00	Hollow,75 ft.deep,course NE.
	Ascend.
39.96	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 25 on N. half,S 36 on S.half,from which
	A cedar,7 ins.diam.,bears N.62°W.,33 lks.dist., marked ¼ S 25 BT.
	A pinon,14 ins.diam.,bears S.89°W.,185 lks.dist., marked ¼ S 36 BT.
50.00	Ridge,bears NE.and SW.
	Descend.
66.50	Hollow,100 ft.deep,course NE.
	Ascend.
72.00	Spur,projects N.
	Descend.
74.25	Hollow,50 ft.deep,course NE.
	Ascend.
79.92	The cor.of secs.25-26-35 and 36.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.92 chs.

CHAINS	
	N.0°01'W.,bet.secs.25 and 26.
	Ascend over mountainous land,through scattering timber.
1.00	Ridge,bears NE.and SW.
	Descend.
18.25	Hollow,100 ft.deep,course NE.
	Ascend.
19.50	Spur,projects E.
	Descend.
25.00	Hollow,75 ft.deep,course E.
	Ascend.
30.00	Spur,projects E.
	Descend.
34.50	Hollow,75 ft.deep,course E.
	Ascend.
37.50	Spur,projects E.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 26 on W. half,S 25 on E.half,from which
	A pinon,12 ins.diam.,bears S.70°30'E.,60½ lks. dist.,marked ¼ S 25 BT.
	A pinon,10 ins.diam.,bears S.86°W.,8 lks.dist., marked ¼ S 26 BT.
45.00	Hollow,50 ft.deep,course E.
	Ascend.
60.00	Spur,projects E.
	Descend.
64.50	Hollow,75 ft.deep,course E.
	Ascend.
67.00	Spur,projects E.
	Descend.
74.60	Hollow,75 ft.deep,course SE.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the

CHAINS	
	ground,for cor.of secs.23-24-25 and 26,marked on br ass cap,T 10 S S 23 in NW.,
	R 15 E S 24 in NE.,
	S 25 in SE.and S 26 in SW.quadrant, from which
	A pinon,5 ins.diam.,bears N.12°E.,67 lks.dist., marked T 10 S R 15 E S 24 BT.
	A pinon,5 ins.diam.,bears S.69°30'E.,106 lks. dist.,marked T 10 S R 15 E S 25 BT.
	A pinon,14 ins.diam.,bears S.29°30'W.,72 lks. dist.,marked T 10 S R 15 E S 26 BT.
	A pinon,8 ins.diam.,bears N.64°30'W.,30 lks. dist.,marked T 10 S R 15 E S 23 BT.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	April 28: At this cor.I set off 14°04'N.on decl.arc,and at 11h.58m.,a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°56'N.

	N.89°55'E.,on a random line,bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
79.72	Intersect E.bdy.of Tp.,3 lks.S.of the cor.of secs. 19-24-25 and 30,heretofore described.
	Thence I run
	S.89°54'W.,on a true line,
	Bet.secs.24 and 25.
	Ascend over rocky and mountainous land,through heavy timber.
23.00	Spur,projects SE.
	Descend.
26.20	Hollow,50 ft.deep,course SE.
	Ascend.
39.86	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the

CHAINS	
	ground,for ¼ sec.cor.,marked on brass cap,¼ S 24 on N. half,S 25 on S.half,from which
	A cedar,16 ins.diam.,bears S.26°E.,29 lks.dist.
	marked ¼ S 25 BT.
	A pinon,10 ins.diam.,bears N.35°E.,14 lks.dist.
	marked ¼ S 24 BT.
42.25	Spur,projects SE.
	Descend.
45.00	Hollow,50 ft.deep,course SE.
	Ascend.
47.50	Spur,projects SE.
	Descend.
51.00	Hollow,50 ft.deep,course SE.
	Ascend.
55.00	Spur,projects SE.
	Descend.
79.72	The cor.of secs.23-24-25 and 26.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.72 chs.

N.0°01'W.,bet.secs.23 and 24.

	Ascend over rocky and mountainous land,through heavy timber.
15.00	Spur,projects SW.
	Descend.
22.00	Hollow,50 ft.deep,course SW.
	Ascend.
24.00	Spur,projects SW.
	Descend.
28.00	Hollow,75 ft.deep,course SW.
	Ascend.
35.00	Ridge,bears NE.and SW.

CHAINS	
	Leave heavy timber,bears NE.and SW.
	Descend through scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 23 on W. half, S 24 on E.half,from which
	A cedar,15 ins.diam.,bears S.52°30'W.,261 lks. dist.,marked ¼ S 23 BT.
	A cedar,15 ins.diam.,bears S.35°E.,68 lks.dist., marked ¼ S 24 BT.
45.00	Hollow,50 ft.deep,course NE.
	Ascend.
53.00	Spur,projects NE.
	Descend.
60.00	Hollow,50 ft.deep,course NE.
	Ascend.
69.00	Spur,projects NE.
	Descend.
74.50	Hollow,50 ft.deep,course E.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.13-14-23 and 24,marked on brass cap,T 10 S S 14 in NW.,
	R 15 E S 13 in NE.,
	S 24 in SE.and S 23 in SW.quadrant, from which
	A pinon,6 ins.diam.,bears N.23°30'E.,68 lks.dist. marked T 10 S R 15 E S 13 BT.
	A cedar,6 ins.diam.,bears S.61°E.,20 lks.dist., marked T 10 S R 15 E S 24 BT.
	A cedar,6 ins.diam.,bears S.33°W.,46 lks.dist., marked T 10 S R 15 E S 23 BT.
	A pinon,7 ins.diam.,bears N.20°30'W.,46 lks.dist., marked T 10 S R 15 E S 14 BT.
	Land,mountainous.
	Soil,rocky,3rd.rate.

CHAINS	
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°54'E.,on a random line,bet.secs.13 and 24.
40.00	Set temp.¼ sec.cor.
79.80	Intersect E.bdy.of Tp.,3 lks.S.of the cor.of secs. 13-18-19 and 24,heretofore described.
	Thence I run
	S.89°53'W.,on a true line,
	Bet.secs.13 and 24.
	Ascend over rocky and mountainous land,through heavy timber.
8.00	Ridge,bears NE.and SW.
	Descend.
19.70	Hollow,75 ft.deep,course NE.
	Ascend.
31.50	Ridge,bears NE.and SW.
	Descend.
38.00	Leave timber,bears N.and S.
39.90	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 13 on N. half,S 24 on S.half,from which
	A cedar,5 ins.diam.,bears N.72°E.,235 lks.dist marked ¼ S 13 BT.
	A pinon,6 ins.diam.,bears S.71°E.,167 lks.dist. marked ¼ S 24 BT.
41.75	Hollow,100 ft.deep,course N.
	Ascend.
48.00	Spur,projects NE.
	Enter scattering timber.
51.00	Leave timber.
60.00	Hollow,50 ft.deep,course NE.
	Ascend.
71.00	Enter scattering timber.

CHAINS	
79.80	The cor.of secs.13-14-23 and 24.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.80 chs.
	April 28, 1910
	April 29: At 7h.57m.,a.m.,l.m.t.,I set off 39°57'N.on lat.arc,14°20'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.13-14-23 and 24.
	Thence I run
	N.0°01'W.,bet.secs.13 and 14.
	Ascend over rocky and mountainous land,through scattering timber.
2.41	Ridge,bears NE.and SW.
	Descend.
14.00	Hollow,100 ft.deep,course NE.
	Ascend.
37.50	Ridge,bears NE.and SW.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 14 on W.half,S 13 on E.half,from which
	A pinon,6 ins.diam.,bears S.25°E.,47 lks.dist, marked ¼ S 13 BT.
	A pinon,7 ins.diam.,bears N.73°W.,37 lks.dist., marked ¼ S 14 BT.
42.00	Head of hollow,course NE.
	Ascend.
45.00	Spur,projects NE.
	Descend,along broken west slope.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.11-12-13 and 14,marked on brass cap,T 10 S S 11 in NW.,-

CHAINS	
	R 15 E S 12 in NE.,
	S 13 in SE.and S 14 in SW.quadrant, from which
	A pinon,12 ins.diam.,bears N.87°15'E.,22 lks. dist.,marked T 10 S R 15 E S 12 BT.
	A cedar,12 ins.diam.,bears S.9°30'E.,54 lks. dist.,marked T 10 S R 15 E S 13 BT.
	A cedar,12 ins.diam.,bears S.89°15'W., 85 lks. dist.,marked T 10 S R 15 E S 14 BT.
	A pinon,17 ins.diam.,bears N.58°W.,49 lks.dist. marked T 10 S R 15 E S 11 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°53'E.,on a random line,bet.secs.12 and 13.
40.00	Set temp 1¼ sec.cor.
79.64	Intersect E.bdy.of Tp.,9 lks.N.of the cor.of secs. 7-12-13 and 18,heretofore described.
	Thence I run
	S.89°57'W.,on a true line, Bet.secs.12 and 13.
	Descend over rocky and mountainous land,through scattering timber.
8.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
12.50	Enter heavy timber,bears NE.and SW.
21.00	Ridge,bears NE.and SW.
	Abrupt descent.
26.50	Hollow,75 ft.deep,course N.
	Abrupt ascent.
31.50	Spur,projects N.
	Abrupt descent.
37.00	Hollow,75 ft.deep,course N.

CHAINS	
	Abrupt ascent.
39.82	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 12 on N. half,S 13 on S.half,from which
	A pinon,6 ins.diam.,bears S.82°E.,25 lks.dist., marked ¼ S 13 BT.
	A pinon,5 ins.diam.,bears N.31°30'E.,79 lks.dist., marked ¼ S 12 BT.
42.00	Spur,projects NE.
	Abrupt descent.
48.20	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
55.00	Spur,projects NE.
	Abrupt descent.
61.40	Hollow,75 ft.deep,course N.
	Ascend.
64.35	Rocky spur,projects N.
	Abrupt descent over broken land.
79.64	The cor.of secs.11-12-13 and 14.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.64 chs.
	April 29: At this cor.I set off 14°23'N.on decl.arc, and at 11h.57m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°57'N.
	N.0°01'W.,bet.secs.11 and 12.
	Descend over rocky and mountainous land,through scattering timber.
8.25	Enter bottom of Wells Draw, 150 ft.deep,course NE.
	Leave timber, and rocky land, bears NE.and SW.
	Over level land,through sparse undergrowth.
20.53	Telephone line from Price to Fort Duchesne,bears NE.

CHAINS	
	and SW.
23.09	Wash, 20 lks.wide, 15 ft.deep,course NE.
26.25	Leave bottom of draw.
	Begin abrupt ascent,bears NE.and SW.
33.50	Top of west slope of knoll,100 ft.high, top of knoll bears E.,75 lks.dist.
	Abrupt descent.
	Enter scattering timber.
36.70	Hollow,75 ft.deep,course NE.
	Ascend.
37.60	Road from Price to Vernal,bears NE.and SW.
39.30	Spur,projects NE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 11 on W. half,S 12 on E.half,from which
	A cedar,8 ins.diam.,bears S.77°W.,67 lks.dist., marked ¼ S 11 BT.
	A pinon,9 ins.diam.,bears S.61°E.,70 lks.dist, marked ¼ S 12 BT.
40.35	Hollow,50 ft.deep,course NE.
	Ascend.
44.60	Spur,projects NE.
	Descend.
46.50	Hollow,50 ft.deep,course E.
	Ascend.
48.60	Spur,projects E.
	Descend.
52.00	Hollow,50 ft.deep,course SE.
	Ascend.
55.20	Spur,projects SE.
	Descend.
57.00	Hollow,50 ft.deep,course E.
	Ascend.

CHAINS	
62.00	Spur,projects NE.
	Descend.
65.00	Hollow,75 ft.deep,course NE.
	Ascend.
68.80	Spur,projects NE.
	Abrupt descent.
72.00	Hollow,100 ft.deep,course E.
	Abrupt ascent.
74.70	Spur,projects E.
	Descend.
78.00	Hollow,75 ft.deep,course E.
	Abrupt ascent.
80.00	On top of rocky spur,projects SE.
	Set an iron post,3 ft.long,2 ins.dia.,in mound of stone and earth,for cor.of secs.1-2-11 and 12,marked on brass cap,T 10 S S 2 in NW., R 15 E S 1 in NE., S 12 in SE.and S 11 in SW.quadrant, from which
	A pinon,10 ins.diam.,bears N.38°E.,19 lks.dist., marked T 10 S R 15 E S 1 BT.
	A cedar,8 ins.diam.,bears S 23°E.,20½ lks.dist., marked T 10 S R 15 E S 12 BT.
	A pinon,10 ins.diam.,bears S.67°W.,55 lks.dist, marked T 10 S R 15 E S 11 BT.
	A pinon,8 ins.diam.,bears N.77°W.,58 lks.dist, marked T 10 S R 15 E S 2 BT.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 62.00 chs. balance, loam,2nd.rate.
	Timber,cedar and pinon.
	Mountainous land on 62.00 chs.

CHAINS	
	N.89°57'E.,on a random line,bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.
79.84	Intersect E.bdy.of Tp.,14 lks.S.of the cor.of secs. 1-6-7 and 12,heretofore described.
	Thence I run
	S.89°51'W.,on a true line,
	Bet.secs.1 and 12.
	Ascend over rocky and mountainous land,through scattering timber.
2.20	Spur,projects N.
	Descend.
4.40	Hollow,75 ft.deep,course N.
	Ascend.
8.30	Spur,projects N.
	Leave timber.
	Descend.
14.00	Hollow,100 ft.deep,course NE.
	Ascend.
19.00	Spur,projects NE.
	Descend.
	Enter scattering timber.
21.00	Hollow,50 ft.deep,course N.
	Ascend.
23.00	Spur,projects N.
	Descend.
28.00	Leave timber.
32.00	Enter bottom of Wells Draw,150 ft.deep,course NE.
	Over level land,through sparse undergrowth.
37.20	Wash, 25 lks.wide,2 ft.deep,course NE.
39.27	Telephone line,between Price and Fort Duchesne,bears NE.and SW.
39.52	Road from Price to Vernal,bears NE.and SW.
39.92	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 1 on N.

CHAINS	
	half, S 12 on S.half,from which
	A pinon,10 ins.diam.,bears N.60°45'W., 259 lks.
	dist.,marked ¼ S 1 BT.
	A cedar,6 ins.diam.,bears S.89°30'W.,347 lks.
	dist.,marked ¼ S 12 BT.
43.00	Leave Wells Draw.
	Begin abrupt ascent bears NE.and SW.
	Enter scattering timber.
44.50	Spur,projects SE.
	Descend along south slope.
49.70	Hollow,50 ft.deep,course SE.
	Ascend.
56.00	Spur,projects S.
	Descend.
58.00	Hollow,50 ft.deep,course S.
	Ascend.
61.65	Spur,projects S.
	Descend.
63.25	Hollow,75 ft.deep,course S.
	Ascend.
76.00	Rocky spur,projects S.
	Descend.
78.00	Hollow,75 ft.deep,course SE.
	Abrupt ascent.
79.84	The cor.of secs.1-2-11 and 12.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 68.84 chs.
	balance,loam,2nd.rate.
	Timber,cedar and pinon.
	Undergrowth,low greasewood.
	Mountainous land on 68.84 chs.

CHAINS	
	N.0°01'W.,on a random line,bet.secs.1 and 2.
40.00	Set temp.¼ sec.cor.
80.26	Intersect N.bdy.of Tp.,19 lks.E.of the cor.of secs. 1-2-35 and 36,heretofore described.
	Thence I run
	S.0°09'E.,on a true line,
	Bet.secs.1 and 2.
	Ascend abruptly over rocky and mountainous land, through scattering timber.
2.50	Spur,projects NE.
	Abrupt descent.
12.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
28.00	Ridge,bears NE.and SW.
	Abrupt descent.
32.70	Hollow,75 ft.deep,course NE.
	Abrupt ascent.
37.50	Spur,projects NE.
	Descend.
40.26	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 2 on W. half,S 1 on E.half,from which
	A pinon,10 ins.diam.,bears S.35°W.,43 lks.dist. marked ¼ S 2 BT.
	A pinon,6 ins.diam.,bears N.58°E.,25 lks.dist, marked ¼ S 1 BT.
40.60	Head of hollow,course NE.
	Ascend.
45.00	Ridge,bears E.and W.
	Abrupt descent.
53.00	Hollow,150 ft.deep,course E.
	Abrupt ascent.
61.00	Spur,projects E.
	Abrupt descent.

CHAINS	
66.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
72.00	Ridge,bears E.and W.
	Abrupt descent.
79.30	Hollow,100 ft.below top of ridge,course SE.
	Ascend.
80.26	The cor.of secs.1-2-11 and 12.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.26 chs.
	April 29, 1910

April 30: At 7h.57m.,a.m.,l.m.t.,I set off 39°55'N.on lat.arc,14°39'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.25-26-35 and 36. The Second Standard Parallel South being out of limits for course and distance in the west 5 miles in this township, I run a sectional correction line as follows:

West, on a true line,bet.secs.26 and 35.

	Ascend over mountainous land,through scattering timber.
0.90	Ridge,bears NE.and SW.
	Descend.
22.00	Hollow,75 ft.deep,course NE.
	Ascend.
40.00	Ridge,bears NE.and SW.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 26 on N.half,S 35 on S.half,from which
	A pinon,6 ins.diam.,bears S.30°W.,312 lks.dist., marked ¼ S 35 BT.
	A cedar,6 ins.diam.,bears N.87°W.,411 lks.dist., marked ¼ S 26 BT.

CHAINS	
50.00	Hollow,75 ft.deep,course NE.
	Leave timber.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia., 24 ins.in the ground,for cor.of secs.26-27-34 and 35,marked on brass cap,T 10 S S 27 in NW.,
	R 15 E S 26 in NE.,
	S 35 in SE.and S 34 in SW.quadrant, from which
	A cedar,7 ins.diam.,bears N.35°E.,164 lks.dist., marked T 10 S R 15 E S 26 BT.
	A pinon,13 ins.diam.,bears S.29°E.,121 lks.dist., marked T 10 S R 15 E S 35 BT.
	A pinon,12 ins.diam.,bears S.41°W.,101 lks.dist. marked T 10 S R 15 E S 34 BT.
	A pinon,7 ins.diam.,bears N.78°30'W.,38 lks.dist. marked T 10 S R 15 E S 27 BT.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	West,on sectional correction line, Bet.secs.27 and 34.
	Ascend over mountainous land,through scattering timber.
1.50	Spur,projects SE.
	Descend.
4.00	Hollow,50 ft.deep,course SE.
	Ascend.
7.00	Enter heavy timber,bears N.and S.
20.50	Spur,projects SE.
	Descend.
24.00	Hollow,50 ft.deep,course SE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the

CHAINS	
	ground,for ¼ sec.cor.,marked on brass cap,¼ S 27 on N. half,S 34 on S.half,from which
	A pinon, 14 ins.diam.,bears S.39°E.,20 lks.dist., marked ¼ S 34 BT.
	A pinon,7 ins.diam.,bears N.18°W.,38½ lks.dist., marked ¼ S 27 BT.
45.00	Ridge,bears NE.and SW.
	Descend.
55.00	Hollow,50 ft.deep,course N.
	Ascend.
61.00	Spur,projects N.
	Descend.
63.79	Head of hollow,course NW.
	Ascend.
68.00	Ridge,bears NW.and SE.
	Descend.
75.75	Hollow,50 ft.deep,course NW.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.27-28-33 and 34,marked on brass cap,T 10 S S 28 in NW.,
	R 15 E S 27 in NE.,
	S 34 in SE.and S 33 in SW.quadrant, from which
	A cedar,6 ins.diam.,bears N.29°E.,39 lks.dist., marked T 10 S R 15 E S 27 BT.
	A pinon,9 ins.diam.,bears S.37°30'E.,40 lks.dist., marked T 10 S R 15 E S 34 BT.
	A cedar,14 ins.diam.,bears S.51°30'W.,65 lks.dist. marked T 10 S R 15 E S 33 BT.
	A pinon,5 ins.diam.,bears N.9°W.,41 lks.dist., marked T 10 S R 15 E S 28 BT.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.

CHAINS	
	Mountainous land on 80.00 chs.
	West, on sectional correction line,
	Bet. secs. 28 and 33.
	Descend over mountainous land, through scattering timber.
5.00	Leave timber.
9.00	Enter Wells Draw, 100 ft. deep, course N.
	Over level land, through sparse undergrowth.
12.30	Wash, 15 lks. wide, 8 ft. deep, course N.
12.60	Road from Price to Vernal, bears N. and S.
	Leave Wells Draw.
	Begin abrupt ascent.
13.40	Telephoneline, from Price to Fort Duchesne, bears N. and S.
14.35	Spur, projects N.
	Enter heavy timber, bears N. and S.
	Descend.
20.00	Hollow, 50 ft. deep, course NE.
	Ascend.
32.50	Ridge, bears NE. and SW.
	Descend.
38.75	Hollow, 50 ft. deep, course NE.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, ¼ S 28 on N. half, S 33 on S. half, from which
	A cedar, 6 ins. diam., bears N. 37°W., 28 lks. dist., marked ¼ S 28 BT.
	A cedar, 14 ins. diam., bears S. 61°W., 93 lks. dist., marked ¼ S 33 BT.
43.00	Ridge, bears NE. and SW.
	Descend.
48.00	Hollow, 75 ft. deep, course NE.
	Abrupt ascent.

CHAINS	
57.00	Ridge,bears NE.and SW.
	Descend.
63.00	Hollow,50 ft.deep,course NE.
	Ascend.
72.00	Ridge,bears NE.and SW.
	Descend.
75.00	Hollow,75 ft.deep,course NE.
	Ascend.
80.00	Set an iron post,3 ft.long.2 ins.dia.,in mound of stone and earth,for cor.of secs.28-29-32 and 33,marked on brass cap,T 10 S S 29 in NW., R 15 E S 28 in NE., S 33 in SE.and S 32 in SW.quadrant, from which
	A pinon,8 ins.diam.,bears N.23°E.,61½ lks.dist., marked T 10 S R 15 E S 28 BT.
	A pinon,15 ins.diam.,bears S.13°E.,60 lks.dist., marked T 10 S R 15 E S 33 BT.
	A pinon,14 ins.diam.,bears S.17°30'W.,55 lks.dist., marked T 10 S R 15 E S 32 BT.
	A pinon,6 ins.diam.,bears N.33°W.,63 lks.dist., marked T 10 S R 15 E S 29 BT.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground,
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	April 30: At this cor.I. set off 14°41'N.on decl.arc, and at 11h.57m.,a.m.l.m.t.,observe the sun on the meridian,the resutling lat.is 39°55'N.

CHAINS	
	West,on sectional correction line,
	Bet.secs.29 and 32.
	Ascend over rocky and mountainous land,through heavy timber.
1.00	Spur,projects NE.
	Descend.
19.00	Hollow,75 ft.deep,course NE.
	Ascend.
25.00	Ridge,bears NE.and SW.
	Descend.
32.00	Hollow,50 ft.deep,course NE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 29 on N. half,S 32 on S.half, from which
	A cedar,10 ins.diam.,bears N.15°W.,26 lks.dist., marked ¼ S 29 BT.
	A pinon,6 ins.diam.,bears S.16°W.,70 lks.dist., marked ¼ S 32 BT.
41.00	Ridge,bears NE.and SW.
	Abrupt descent.
48.50	Hollow,75 ft.deep,course NE.
	Abrupt ascent.
60.00	Leave timber,bears NE.and SW.
62.50	Ridge,bears NE.and SW.
	Descend.
67.00	Hollow,75 ft.deep,course NE.
	Ascend.
72.00	Enter heavy timber,bears NE.and SW.
75.00	Spur,projects NE.
	Descend.
79.00	Leave timber,bears NE.and SW.
80.00	Set an iron post,3 ft.long,2 in.dia.,24 ins.in the ground,for cor.of secs.29-30-31 and 32,marked on brass

CHAINS	
	cap, T 10 S S 30 in NW.,
	R 15 E S 29 in NE.,
	S 32 in SE. and S 31 in SW. quadrant, from which
	A pinon, 12 ins. diam., bears N.65°E., 237 lks. dist.
	marked T 10 S R 15 E S 29 BT.
	A pinon, 12 ins. diam., bears S.63°E., 83 lks. dist.,
	marked T 10 S R 15 E S 32 BT.
	A cedar, 11 ins. diam., bears S.13°30'W., 121 lks.
	dist., marked T 10 S R 15 E S 31 BT.
	A cedar, 13 ins. diam., bears N.56°W., 200 lks. dist.,
	marked T 10 S R 15 E S 30 BT.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.
	Knowing the line bet. secs. 30 and 31 will not close within limits on the W. bdy. of the Tp., I run West, on a sectional correction line, Bet. secs. 30 and 31.
	Descend over mountainous land.
1.00	Hollow, 75 ft. deep, course NE.
	Ascend.
2.50	Enter heavy timber, bears NE. and SW.
13.00	Ridge, bears NE. and SW.
	Descend.
25.00	Leave timber, bears N. and S.
26.50	Hollow, 100 ft. deep, course NE.
	Abrupt ascent.
28.50	Enter heavy timber, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, ¼ S 30 on N. half, S 31 on S. half, from which

CHAINS	
	A pinon,5 ins.diam.,bears N.26°W.,51 lks.dist. marked ¼ S 30 BT.
	A pinon,12 ins.diam.,bears S.78°W.,29 lks.dist., marked ¼ S 31 BT.
43.00	Ridge,bears NE.and SW.
	Descend.
47.00	Hollow,50 ft.deep,course N.
	Ascend.
49.20	Spur,projects N.
	Descend.
56.50	Hollow,50 ft.deep,course NE.
	Ascend.
58.20	Spur,projects NE.
	Descend.
63.50	Hollow,75 ft.deep,course NE.
	Ascend.
75.00	Spur,projects NE.
	Descend.
81.00	Leave timber,bears NE.and SW.
82.33	Intersect E.bdy.of T.10 S R.14 E., 2.73 chs. S.of the cor.of secs.25-30-31 and 36, heretofore described. Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.30 and 31,marked on brass cap, T 10 S on N.half, R 14 E S 25 S 36 CC on W.half,and R 15 E S 30 S 31 on E.half, from which
	A pinon,18 ins.diam.,bears N.79°E.,217 lks.dist., marked T 10 S R 15 E S 30 BT.
	A pinon,7 ins.diam.,bears S.61°E.,85 lks.dist., marked T 10 S R 15 E S 31 BT.
	I destroy all marks on the cor.of secs.25-30-31 and 36 that pertain to R.15 E.
	Land,mountainous.
	Soil,rocky,3rd.rate.

CHAINS	
	Timber,cedar and pinon.
	Mountainous land on 82.33 chs.
	April 30, 1910
	May 1: At 7h.57m.,a.m.,l.m.t.,I set off 39°55'N.on lat. arc,14°57'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.26-27-34 and 35,
	Thence I run
	S.0°01'E.,on a random line,bet.secs.34 and 35,
40.00	Set temp.¼ sec.cor.
79.31	Intersect 2nd.stan.par.south, 7 lks.E.of the stan.cor. of secs.34 and 35,heretofore described.
	Thence I run
	N.0°02'E.,on a true line,
	Bet.secs. 34 and 35.
	Descend over mountainous land.
7.50	Enter heavy timber,bears NW.and SE.
10.00	Leave timber,bears NE.and SW.
25.75	Hollow,50 ft.deep,course NE.
	Ascend.
28.00	Spur,projects NE.
	Descend.
35.70	Same hollow,50 ft.deep,course NW.
	Ascend.
38.50	Spur,projects NW.
	Descend.
39.31	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 34 on W. half,S 35 on E.half,from which
	A pinon,8 ins.diam.,bears N.74°E.,84 lks.dist., marked ¼ S 35 BT.
	A cedar, 14 ins.diam.,bears N.82°30'W.,386 lks. dist.,marked ¼ S 34 BT.
43.00	Hollow,75 ft.deep,course NE.
	Ascend.

CHAINS	
60.00	Spur,projects NE.
	Descend.
64.00	Enter scattering timber.
72.00	Hollow,75 ft.deep,course E.
	Ascend.
77.00	Leave timber.
79.31	The cor.of secs. 26-27-34 and 35.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.31 chs.
	N.0°01'W.,bet.secs.26 and 27.
	Ascend over mountainous land.
2.00	Enter scattering timber.
12.00	Spur,projects SE.
	Descend.
17.00	Hollow,50 ft.deep,course SE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 27 on W. half,S 26 on E.half,from which
	A pinon,12 ins.diam.,bears N.81°E.,49 lks.dist., marked ¼ S 26 BT.
	A cedar,5 ins.diam.,bears N.45°W.,43 lks.dist., marked ¼ S 27 BT.
53.00	Ridge,150 ft.above sec.cor.,bears NE.and SW.
	Enter heavy timber,bears NE.and SW.
	Abrupt descent.
57.00	Hollow,75 ft.deep,course NE.
	Ascend.
71.00	Ridge,bears NE.and SW.
	Descend.
75.75	Hollow,75 ft.deep,course NE.

CHAINS

Ascend.

80.00 Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.22-23-26 and 27,marked on brass cap,T 10 S S 22 in NW.,

R 15 E S 23 in NE.,

S 26 in SE.and S 27 in SW.quadrant, from which

A pinon,5 ins.diam.,bears N.57°E.,33 ½ lks.dist. marked T 10 S R 15 E S 23 BT.

A pinon,12 ins.diam.,bears S.85°E.,85½ lks.dist. marked T 10 S R 15 E S 26 BT.

A cedar,10 ins.diam.,bears S.33°30'W.,87 lks.dist. marked T 10 S R 15 E S 27 BT.

A cedar,8 ins.diam.,bears N.5°15'W.,30 lks.dist., marked T 10 S R 15 E S 22 BT.

Land,mountainous.

Soil,rocky,3rd.and 4th.rate.

Timber,cedar and pinon.

Mountainous land on 80.00 chs.

East,on a random line,bet.secs.23 and 26.

40.00 Set temp.¼ sec.cor.

80.12 Intersect N.and S.line,3 lks.S.of the cor.of secs. 23-24-25 and 26.

Thence I run

S.89°59'W.,on a true line,

Bet.secs.23 and 26.

Descend over mountainous land along broken south slope, through heavy timber.

15.00 Hollow,100 ft.deep,course S.

Abrupt ascent.

29.00 Ridge,bears NE.and SW.

Abrupt descent.

39.00 Hollow,100 ft.deep,course N.

Ascend.

CHAINS	
40.06	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 23 on N. half,S 26 on S.half,from which
	A cedar, 8 ins.diam.,bears S.47°W.,49½ lks.dist., marked ¼ S 26 BT.
	A cedar,6 ins.diam.,bears N.81°W.,34 lks.dist., marked ¼ S 23 BT.
54.00	Spur,projects N.
	Descend.
61.00	Hollow,100 ft.deep,course NE.
	Ascend.
72.00	Ridge,bears NE.and SW.
	Descend.
77.50	Hollow,100 ft.deep,course NE.
	Ascend.
80.12	The cor.of secs.22-23-26 and 27.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land om 80.12 chs.
	May 1: At this cor.I set off 15°00'N.,on decl.arc,and at $11^h.57^m$.,a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°56'N.

N.0°01'W.,bet.secs.22 and 23.

	Ascend over rocky and mountainous land,through heavy timber.
2.00	Spur,projects NE.
	Abrupt descent.
9.00	Hollow,75 ft.deep,course NE.
	Ascend.
19.50	Ridge,bears NE.and SW.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground, for ¼ sec.cor.,marked on brass cap,¼ S 22 on W.

Chains	
	half,S 23 on E.half, from which
	A cedar,15 ins.diam.,bears S.54°E.,21 lks.dist.,
	marked ¼ S 23 BT.
	A cedar,24 ins.diam.,bears N.51°W.,14½ lks.dist.,
	marked ¼ S 22 BT.
51.30	Hollow,75 ft.deep,course NW.
	Ascend.
56.25	Ridge,bears NW.and SE.
	Descend.
77.00	Hollow,75 ft.deep,course NW.
	Ascend.
79.00	Spur,projects NW.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the
	ground,for cor.of secs.14-15-22 and 23,marked on brass
	cap,T 10 S S 15 in NW.,
	R 15 E S 14 in NE.,
	S 23 in SE.and S 22 in SW.quadrant, from which
	A pinon,14 ins.diam.,bears N.84°E.,48 lks.dist.,
	marked T 10 S R 15 E S 14 BT.
	A pinon,16 ins diam.,bears S.31°E.,94 lks.dist.
	marked T 10 S R 15 E S 23 BT.
	A pinon,7 ins.diam.,bears S.9°30'W.,47 lks.dist,
	marked T 10 S R 15 E S 22 BT.
	A pinon,6 ins.diam.,bears N.17°W.,19 lks.dist.,
	marked T 10 S R 15 E S 15 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

CHAINS	
	N.89°59'E., on a random line, bet.secs.14 and 23.
40.00	Set temp. ¼ sec.cor.
80.02	Intersect N.and S.line, 3 lks.S.of the cor.of secs. 13-14-23 and 24.
	Thence I run
	S.89°58'W., on a true line,
	Bet. secs.14 and 23.
	Ascend over rocky and mountainous land, along steep, south slope, through sparse undergrowth and scattering timber.
1.75	Ridge, bears NE.and SW.
	Descend.
4.10	Head of hollow, course NE.
	Ascend.
6.00	Ridge, bears N.and S.
	Abrupt descent over broken and rocky land.
39.90	Bottom of hollow , 200 ft.below top of ridge , course NW.
	Ascend. Enter heavy timber bears NE. and SW.
40.01	Set an iron post, 3 ft.long , 1 in.dia. , in mound of stone and earth, for ¼ sec.cor., marked on brass cap, ¼ S 14 on N.half, S 23 on S.half,
	from which
	A pinon, 20 ins.diam., bears N.24°E.,39 lks. dist., marked ¼ S 14 BT.
	A pinon, 18 ins.diam., bears S.61°E., 49 lks. dist., marked ¼ S 23 BT.
	Note:
	On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
42.00	Rocky spur, projects NW.

CHAINS	
	Abrupt descent.
47.00	Leave timber, bears NE.and SW.
51.00	Hollow, 150 ft.deep, course N.
	Abrupt ascent.
59.00	Enter scattering timber.
63.25	Spur, projects N.
	Abrupt descent.
72.00	Enter heavy timber, bears N.and S.
	Ascend.
77.50	Head of hollow, course NW.
	Ascend.
79.00	Spur,projects N.
	Abrupt descent over rocky land.
80.02	The cor.of secs.14-15-22 and 23.
	Land,mountainous.
	Soil, rocky, 3rd.and 4th.rate.
	Timber, cedar and pinon.
	Undergrowth, sage brush and bunch grass.
	Mountainous land on 80.02 chs.

May 1, 1910

May 2 : At 8h. 03m., a.m., l.m.t. , I set off 39° 57' N. , on lat.arc, 15° 15' N. , on decl. arc , and determine a meridian with the solar , at the cor. of secs. 14-15-22 and 23.

Thence I run

N.0°01'W., bet. secs.14 and 15.

CHAINS	
	Descend over rocky and mountainous land,through heavy timber.
1.50	Head of hollow,course NW.
	Ascend.
3.75	Spur,projects W.
	Descend over broken land.
22.50	Leave timber,bears NE.and SW.
26.00	Enter bottom of Wells Draw,150 ft.deep,course NE.
	Over level land,through sparse undergrowth.
32.20	Wash,15 lks.wide,10 ft.deep,course NE.
33.62	Telephone line,between Price and Fort Duchesne,bears NE.and SW.
34.70	Road from Price to Vernal,bears NE.and SW.
38.00	Leave Wells Draw.
	Begin abrupt ascent over rocky land.
39.60	Rocky spur,projects SE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 15 on W. half,S 14 on E.half,and raise a mound of stone,2 ft.base 1½ ft.high,W.of cor.
	Pits impracticable.
43.00	Hollow,75 ft.deep,course E.
	Ascend.
45.00	Enter scattering timber.
50.50	Spur,projects E.
	Descend.
59.00	Hollow,75 ft.deep,course E.
	Ascend.
78.50	Spur,projects E.
	Enter heavy timber,bears E.and W.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.in mound of stone and earth,for cor.of secs.10-11-14 and 15,marked on brass

CHAINS	
	cap T 10 S S 10 in NW.;
	R 15 E S 11 in NE.,
	S 14 in SE.and S 15 in SW.quadrant, from which
	A pinon,12 ins.diam.,bears N.28°30'E.,105 lks. dist.,marked T 10 S R 15 E S 11 BT.
	A pinon,15 ins.diam.,bears S.15°E.,75 lks.dist., marked T 10 S R 15 E S 14 BT.
	A pinon,24 ins.diam.,bears S.42°W.,33 lks.dist., marked T 10 S R 15 E S 15 BT.
	A cedar,5 ins.diam.,bears N.51°W.,49 lks.dist., marked T 10 S R 15 E S 10 BT.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.
	Land,mountainous,and level.
	Soil,rocky,3rd.and 4th.rate, on 68.00 chs.
	Balance, loam, 2nd.rate.
	Timber,cedar and pinon.
	Mountain ous land on 80.00 chs.

	N.89°58'E.,on a randomm line,bet.secs.11 and 14.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.92	Intersect N.and S.line 12 lks.N.of the cor.of secs. 11-12-13 and 14.
	Thence I run
	N.89°57'W.,on a true line,
	Bet.secs.11 and 14.
	Descend over rocky and mountainous land,through scattering timber.
6.00	Enter bottom of Wells Draw, 150 ft.deep,course NE.
	Leave timber,and rocky land.
	Over level land,through sparse undergrowth.
19.75	Wash,10 lks.wide,5 ft.deep,course NE.
21.95	Road from Price to Vernal,bears NE.and SW.
24.05	Telephone line from Price to Fort Duchesne,bears NE. and SW.

CHAINS	
26.00	Leave Wells Draw.
	Begin ascent,bears NE.and SW.
32.00	Enter scattering timber.
39.96	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 11 on N. half,S 14 on S.half,from which
	A pinon,10 ins.d iam., bears N.9°W.,52 lks.dist., marked ¼ S 11 BT.
	A pinon,10 ins.diam.,bears S.28°W.,3 lks.dist., marked ¼ S 14 BT.
52.50	Spur,projects S.
	Descend.
54.60	Hollow,75 ft.deep,course S.
	Ascend.
56.00	Spur,projects S.
	Descend.
59.75	Hollow,75 ft.deep,course S.
	Ascend.
63.00	Spur,projects S.
	Descend.
73.00	Hollow,100 ft.deep,course SE.
	Ascend.
79.92	The cor.of secs.10-11-14 and 15.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate, on 59.92 chs.
	balance, loam,1st.rate.
	Timber,cedar and pinon.
	Undergrowth,low greasewood.
	Mountainous land on 59.92 chs.
	May 2: At this cor.I set off 15°18'N.on decl.arc,and at 11h.57m,a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°57'N.

CHAINS	
	N.0°01'W.,bet.secs.10 and 11.
	Descend over rocky and mountainous land,through scattering timber.
6.00	Hollow,100 ft.deep,course SE.
	Abrupt ascent.
17.00	Ridge,bears NE.and SW.
	Abrupt descent.
28.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
40.00	On top of ridge,bears NE.and SW.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 10 on W. half,S 11 on E.half,from which
	A pinon,5 ins.diam.,bears S.10°30'E.,36 lks.dist., marked ¼ S 11 BT.
	A cedar,5 ins.diam.,bears S.67°15'W.,84 lks.dist., marked ¼ S 10 BT.
	Abrupt descent.
49.20	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
57.00	Ridge,bears NE.and SW.
	Abrupt descent.
68.00	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
76.50	Spur,projects NE.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.2-3-10 and 11,marked on brass cap T 10 S S 3 in NW., R 15 E S 2 in NE., S 11 in SE.and S 10 in SW.quadrant,from which
	A pinon,15 ins.diam.,bears N.66°E.,29 lks.dist., marked T 10 S R 15 E S 2 BT.
	A pinon,7 ins.diam.,bears S.58°E.,37 lks.dist., marked T 10 S R 15 E S 11 BT.

CHAINS	
	A pinon,8 ins.diam.,bears S.71°30'W.,54 lks. dist.,marked T 10 S R 15 E S 10 BT.
	A cedar,6 ins.diam.,bears N.50°W.,60 lks.dist., marked T 10 S R 15 E S 3 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

	S.89°57'E.,on a random line,bet.secs.2 and 11.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.94	Intersect N.and S.line,3 lks.S.of the cor.of secs. 1-2-11 and 12.
	Thence I run
	N.89°58'W.,on a true line,
	Bet.secs.2 and 11.
	Along steep,rocky south slope, ascending through scattering timber.
12.00	Leave timber.
	Begin descent along steep, south slope over shale ledges.
23.50	Hollow,150 ft.deep,course from SW.to SE.
	Abrupt ascent along steep,south slope.
39.97	Ridge,bears NE.and SW.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 2 on N.half S 11 on S.half,from which
	A cedar,6 ins.diam.,bears N.62°30'W.,36$\frac{1}{2}$ lks. dist.,marked $\frac{1}{4}$ S 2 BT.
	A pinon,4 ins.diam. bears S.84°W.,76 lks.dist., marked $\frac{1}{4}$ S 11 BT.
	Descend.
47.00	Hollow,100 ft.deep,course N.
	Abrupt ascent.
55.00	Spur,projects N.
	Abrupt descent.
70.75	Hollow,150 ft.deep,course NE.

CHAINS	
	Abrupt ascent.
79.94	The cor.of secs.2-3-10 and 11.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.94 chs.
	N.0°01'W.,on a random line,bet.secs.2 and 3.
40.00	Set temp.¼ sec.cor.
80.18	Intersect N.bdy.of Tp.,16 lks.E.of the cor.of secs. 2-3-34 and 35,heretofore described.
	Thence I run
	S.0°08'E.,on a true line,
	Bet.secs.2 and 3.
	Abrupt descent over rocky and mountainousland,through scattering timber.
9.00	Hollow,150 ft.deep,course E.
	Abrupt ascent.
16.00	Spur,projects NE.
	Abrupt descent.
23.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
36.60	Spur,projects NE.
	Descend.
40.18	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 3 on W. half,S 2 on E.half,from which
	A pinon,9 ins.diam.,bears S.77°E.,36 lks.dist., marked ¼ S 2 BT.
	A pinon,8 ins.diam.,bears S.28°W.,77 lks.dist., marked ¼ S 3 BT.
41.00	Head of hollow,course NE.
	Ascend.
43.50	Ridge,bears NE.and SW.
	Abrupt descent.

CHAINS	
61.00	Hollow,15 0 ft.deep,course E.
	Ascend.
80.18	The cor.of secs. 2-3-10 and 11.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.18 chs.
	May 2, 1910
	May 3: At 7h.57m.,a.m.,l.m.t.,I set off 39°55'N.,on lat. arc,15°33'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.27-28-33 and 34.
	Thence I run
	S.0°02'E.,on a random line,bet.secs.33 and 34
40.00	Set temp.¼ sec.cor.
78.92	Intersect the 2nd.Stan.Par.S., 5 lks.W.of the stan.cor. of secs.33 and 34,heretofore described.
	Thence I run
	N.0°04'W.,on a true line,
	Bet.secs.33 and 34.
	Ascend over mountainous land,through heavy timber.
9.25	Spur,projects NE.
	Descend.
18.00	Hollow,50 ft.deep,course NE.
	Ascend.
22.00	Spur,projects NE.
	Descend.
33.00	Leave heavy timber,bears E.and W.
	Enter scattering timber.
38.92	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,½ S 33 on W. half,S 34 on E.half,from which
	A pinon,5 ins.diam.,bears N.47°E.,73 lks.di st. marked ¼ S 34 BT.
	A pinon,14 ins.diam.,bears N.62°W.,136 lks.dist.,

CHAINS	
	marked ¼ S 33 BT.
39.00	Hollow,50 ft.deep,course NW.
	Ascend.
46.25	Spur,projects W.
	Descend.
50.00	Hollow,50 ft.deep,course NW.
	Ascend.
53.00	Spur,projects W.
	Descend.
55.15	Hollow,50 ft.deep,course W.
	Ascend.
58.00	Spur,projects W.
	Descend.
60.15	Hollow,50 ft.deep,course W.
	Ascend.
62.00	Spur,projects W.
	Descend.
65.00	Hollow,50 ft.deep,course W.
	Ascend.
67.50	Spur,projects W.
	Descend.
72.50	Hollow,50 ft.deep,course NW.
	Ascend.
78.30	Spur,projects NW.
	Descend.
78.92	The cor.of secs.27-28-33 and 34.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 78.92 chs.

CHAINS	
	N.0°02'W.,bet.secs.27 and 28.
	Descend over rocky and mountainous land,through scattering timber.
3.00	Hollow,50 ft.deep,course NW.
	Ascend.
8.00	Spur,projects NW.
	Descend.
35.00	Hollow,75 ft.deep,course NW.
	Ascend.
38.75	Spur,projects W.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 28 on W. half,S 27 on E.half, from which
	A pinon,6 ins.diam.,bears S.16°30'W.,96 lks.dist., marked ¼ S 28 BT.
	A pinon,12 ins.diam.,bears S.44°E.,47½ lks.dist. marked ¼ S 27 BT.
41.00	Leave timber.
43.00	Enter Wells Draw,100 ft.deep,course NE.
	Over level land.
45.40	Road from Price to Vernal,bears NE.and SW.
46.90	Wash,50 lks.wide, 15 ft.deep,course NE.
49.00	Telephone line, from Price to Fort Duchesne,bears NE. and SW.
50.00	Leave Wells Draw.
	Begin abrupt ascent over broken and rocky land,along steep,east slope,through scattering timber.
69.50	Ridge,bears NE.and SW.
	Descend.
73.25	Leave timber.
75.00	Hollow,75 ft.deep,course NE.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the

CHAINS	
	ground,for cor.of secs.21-22-27 and 28,marked on brass cap,T 10 S S 21 in NW.,
	R 15 E S 22 in NE.,
	S 27 in SE.and S 28 in SW.quadrant, from which
	A pinon,6 ins.diam.,bears N.24°30'E.,44 lks.dist., marked T 10 S R 15 E S 22 BT.
	A cedar,12 ins.diam.,bears S.50°E.,446 lks.dist., marked T 10 S R 15 E S 27 BT.
	A pinon,28 ins.diam.,bears S.60°30'W.,149 lks. dist.,marked T 10 S R 15 E S 28 BT.
	A pinon,14 ins.diam.,bears N.23°W.,86 lks.dist. marked T 10 S R 15 E S 21 BT.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 73.00 chs.
	balance,loam,2nd.rate.
	Timber,cedar and pinon.
	Mountainous land on 73.00 chs.
	East,on a random line,bet.secs.22 and 27.
40.00	Set temp.¼ sec.cor.
79.98	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.
	Ascend over rocky and mountainous land,through heavy timber.
3.35	Spur,projects NE.
	Descend.
14.00	Hollow,100 ft.deep,course NE.
	Ascend.
23.00	Ridge,bears N.and S.
	Leave heavy timber,bears N.and S.
	Descend abruptly over shale ledges, through scattering timber.

CHAINS	
38.50	Hollow,150 ft.deep,course SW.
	Ascend along steep,south slope.
39.99	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 22 on N. half,S 27 on S.half,from which
	A pinon,4 ins.diam.,bears N.77°E.,147 lks.dist., marked ¼ S 22 BT.
	A pinon,15 ins.diam.,bears S.51°30'E., 48 lks. dist.,marked ¼ S 27 BT.
40.25	Spur,projects S.
	Descend.
44.00	Same hollow,75 ft.deep,course NW.
	Ascend.
51.10	Spur,projects NW.
	Descend.
53.00	Hollow,50 ft.deep,course NW.
	Ascend.
54.80	Spur,projects NW.
	Descend.
57.00	Hollow,50 ft.deep,course NW.
	Ascend.
60.50	Spur,projects NW.
	Descend.
66.00	Enter bottom of Wells Draw,100 ft.deep,course NE.
	Leave timber.
	Over level land,
71.00	Telephone line,bet.Price and Fort Duchesne,bears NE.and SW.
72.00	Road from Price to Vernal,bears NE.and SW.
73.50	Wash,30 lks.wide,7 ft.deep,course NE.
	Leave Wells Draw, ascend.
75.00	Spur,projects N.
	Descend.
78.00	Hollow,75 ft.deep,course NE.
	Ascend.
79.98	The cor.of secs.21-22-27 and 28.

CHAINS	
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 72.48 chs.
	balance,loam,2nd.rate.
	Timber,cedar and pinon.
	Mountainous land on 72.48 chs.
	May 3: At this cor.I set off 15°36'N.on decl.arc,and at 11.^{h}57^{m}.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°56'N.
	N.0°02'W.,bet.secs.21 and 22.
	Ascend over rocky and mountainous land.
2.00	Enter scattering timber.
5.00	Spur,projects NE.
	Descend.
9.00	Hollow,50 ft.deep,course NE.
	Ascend.
12.50	Spur,projects NE.
	Descend.
19.50	Hollow,50 ft.deep,course NE.
	Ascend.
23.00	Spur,projects NE.
	Descend.
34.00	Leave timber.
39.65	Hollow,75 ft.deep,course NE.
	Ascend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 21 on W. half ,S 22 on E.half,dig pits,18x18x12 ins.,N.and S.of post.,3 ft.dist.,and raise a mound of earth,3½ ft.base, 1½ ft.high,W.of cor.
47.00	Spur,projects NE.
	Enter scattering timber.
54.00	Hollow,50 ft.deep,course NE.
	Ascend.
56.00	Spur,projects NE.

CHAINS	
	Leave timber.
	Descend.
61.00	Enter hollow,100 ft.deep,course E.
	Over level land.
66.00	Leave hollow, begin ascent,bears E.and W.
68.00	Enter heavy timber,bears E.and W.
69.00	Spur,projects SE.
	Descend.
73.50	Hollow,50 ft.deep,course SE.
	Ascend.
76.00	Spur,projects SE.
	Descend.
79.00	Hollow,75 ft.deep,course SE.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.15-16-21 and 22,marked on brass cap,T 10 S S 16 in NW.,
	R 15 E S 15 in NE.,
	S 22 in SE.and S 21 in SW.quadrant,from which
	A pinon,20 ins.diam.,bears N.87°E.,61 lks.dist., marked T 10 S R 15 E S 15 BT.
	A cedar,6 ins.diam.,bears S.47°E.,87 lks.dist., marked T 10 S R 15 E S 22 BT.
	A pinon,12 ins.diam.,bears S.20°30'W.,7 lks.dist., marked T 10 S R 15 E S 21 BT.
	A pinon,8 ins.diam.,bears N.67°15'W.,53 lks.dist. marked T 10 S R 15 E S 16 BT.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate on 75.00 chs.
	balance,loam,2nd.rate.
	Timber,cedar and pinon.
	Mountainous land on 75.00 chs.

CHAINS	
	S.89°58'E.,on a random line,bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,3 lks.S.of the cor.of secs. 14-15-22 and 23.
	Thence I run
	N.89°59'W.,on a true line,
	Bet.secs.15 and 22.
	Descend abruptly over rock and mountainous land,through scattering timber.
0.50	Hollow,75 ft.deep,course NW.
	Ascend.
3.50	Spur,projects N.
	Descend.
5.50	Hollow,50 ft.deep,course N.
	Ascend.
11.00	Spur,projects NW.
	Descend.
14.00	Leave timber.
15.00	Enter bottom of Wells Draw,150 ft.deep,course NE.
	Over level land.
23.50	Road from Price to Vernal,bears NE.and SW.
26.75	Telephone line,bet.Price and Fort Duchesne,bears NE. and SW.
27.00	Wash,10 lks.wide, 6 ft.deep,course NE.
33.00	Leave Wells Draw, begin abrupt ascent,bears NE.and SW.
	Enter heavy timber,bears NE.and SW.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 15 on N. half,S 22 on S.half,from which
	A pinon,10 ins.diam.,bears N.40°E.,41 lks.dist. marked ¼ S 15 BT.
	A pinon,15 ins.diam.,bears S.87°E.,72 lks.dist., marked ¼ S 22 BT.
44.00	Spur,projects SE.
	Descend.

CHAINS	
47.00	Hollow,50 ft.deep,course SE.
	Ascend.
76.00	Spur,projects SE.
	Descend.
77.00	Hollow,50 ft.deep,course SE.
	Ascend.
80.00	The cor.of secs.15-16-21 and 22.
	Land,mountainous and level.
	Soil,rocky,3rd.and 4th.rate,on 62.00 chs.
	balance,loam,2nd.rate.
	Timber,cedar and pinon.
	Mountainous land on 62.00 chs.
	N.0°02'W.,bet.secs.15 and 16.
	Ascend abruptly over broken and rocky land, through heavy timber.
31.40	Rocky ridge,bears E.and W.
	Abrupt descent.
39.90	Hollow,200 ft.deep,course E.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 16 on W. half,S 15 on E.half,from which
	A pinon,12 ins.diam.,bears S.22°W.,121 lks.dist., marked ¼ S 16 BT.
	A pinon,12 ins.diam.,bears S.53°E.,109 lks.dist., marked ¼ S 15 BT.
59.00	Ridge,bears NE.and SW.
	Abrupt descent.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.9-10-15 and 16,marked on brass cap,T 10 S S 9 in NW.,
	R 15 E S 10 in NE.,
	S 15 in SE.and S 16 in SW.quadrant,from which

CHAINS	
	A cedar,18 ins.diam.,bears N.36°E.,65 lks.dist., marked T 10 S R 15 E S 10 BT.
	A pinon,5 ins.diam.,bears S.56°E.,117 lks.dist., marked T 10 S R 15 E S 15 BT.
	A pinon,6 ins.diam.,bears S.21°30'W.,58 lks. dist.,marked T 10 S R 15 E S 16 BT.
	A cedar,12 ins.diam.,bears N.82°15'W.,32 lks. dist.,marked T 10 S R 15 E S 9 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	May 3, 1910
	May 4: At 7h.57m.,a.m.,l.m.t.,I set off 39°57'N.on lat. arc,15°51'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.9-10-15 and 16.
	Thence I run
	S.89°59'E.,on a random line,bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,5 lks.N.of the cor.of secs. 10-11-14 and 15.
	Thence I run
	N.89°57'W.,on a true line,
	Bet.secs.10 and 15.
	Ascend along north slope,over mountainous land,through heavy timber.
25.00	Spur,projects NE.
	Descend.
26.00	Leave timber,bears NE.and SW.
30.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
32.00	Enter heavy timber,bears NE.and SW.
40.02	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the

CHAINS	
	ground,for ¼ sec.cor.,marked on brass cap,¼ S 10 on N. half,S 15 on S.half,from which
	A pinon,10 ins.diam.,bears N.60°E.,1½ lks.dist., marked ¼ S 10 BT.
	A pinon,5 ins.diam.,bears S.52°E.,64½ lks.dist., marked ¼ S 15 BT.
49.00	Spur,projects NE.
	Descend.
53.50	Hollow,75 ft.deep,course NE.
	Ascend.
58.00	Spur,projects NE.
	Descend along north slope.
66.00	Head of hollow,course NE.
	Ascend along north slope.
80.04	The cor.of secs.9-10-15 and 16.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.04 chs.
	N.0°02'W.,bet.secs.9 and 10.
	Descend over rocky and mountainous land,through heavy timber.
4.80	Hollow,75 ft.deep,course E.
	Ascend.
10.00	Ridge,bears NE.and SW.
	Abrupt descent.
32.00	Hollow,125 ft.deep,course NE.
	Abrupt ascent.
36.50	Rocky ridge,bears NE.and SW.
	Abrupt descent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 9 on W.half S 10 on E.half,from which
	A pinon,5 ins.diam.,bears S.65°W.,39 lks.dist.,

CHAINS	
	marked ¼ S 9 BT.
	A cedar,18 ins.diam.,bears S.73°E.,25 lks.dist.,
	marked ¼ S 10 BT.
45.80	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
49.40	Spur,projects NE.
	Abrupt descent.
52.00	Hollow,75 ft.deep,course NE.
	Abrupt ascent.
55.10	Spur,projects NE.
	Abrupt descent.
59.25	Hollow,75 ft.deep,course NE.
	Abrupt ascent.
67.00	Ridge,bears NE.and SW.
	Abrupt descent.
80.00	In hollow,100 ft.deep,course NE.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.3-4-9 and 10,marked on brass cap
	T 10 S S 4 in NW.,
	R 15 E S 3 in NE.,
	S 10 in SE.and S 9 in SW.quadrant,from which
	A cedar,14 ins.diam.,bears N.51°30'E.,75 lks. dist.,marked T 10 S R 15 E S 3 BT.
	A pinon,7 ins.diam.,bears S.36°30'E.,22 lks.dist. marked T 10 S R 15 E S 10 BT.
	A cedar,12 ins.diam.,bears S.82°30'W.,69 lks. dist.,marked T 10 S R 15 E S 9 BT.
	A cedar,6 ins.diam.,bears N.19°30'W.,53 lks.dist marked T 10 S R 15 E S 4 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	May 4: At this cor.I set off 15°53'N.on decl.arc,and at $11^h.57^m$.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°58'N.

CHAINS	
	S.89°57'E.,on a random line,bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,5 lks.S.of the cor.of secs. 2-3-10 and 11.
	Thence I run
	N.89°59'W.,bet.secs.3 and 10,on true line
	Ascend abruptly over rocky and mountainous land,through heavy timber.
5.00	Spur,projects N.
	Abrupt descent.
10.30	Hollow,100 ft.deep,course N.
	Abrupt ascent.
13.00	Spur,projects N.
	Abrupt descent.
17.50	Hollow,150 ft.deep,course N.
	Abrupt ascent.
25.50	Spur,projects N.
	Abrupt descent.
35.20	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
38.00	Spur,projects NE.
	Descend.
40.05	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 3 on N. half,S 10 on S.half,from which
	A pinon,14 ins.diam.,bears N.48°E.,20 lks.dist., marked ¼ S 3 BT.
	A pinon,8 ins.diam.,bears S.69°E.,10 lks.dist., marked ¼ S 10 BT.
54.00	Hollow,100 ft.deep,course NE.
	Ascend.
75.00	Spur,projects N.
	Descend.
80.10	The cor.of secs.3-4-9 and 10.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.

CHAINS	
	Timber,cedar and pinon.
	Mountainous land on 80.10 chs.
	N.0°02'W.,on a random line,bet.secs.3 and 4.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.18	Intersect N.bdy.of Tp.,14 lks.E.of the cor.of secs. 3-4-33 and 34,heretofore described.
	Thence I run
	S.0°08'E.,on a true line,
	Bet.secs.3 and 4.
	Ascend over mountainous land.
4.00	Enter heavy timber,bears NE.and SW.
19.00	Ridge,bears NE.and SW.
	Descend.
25.75	Hollow,50 ft.deep,course E.
	Ascend.
33.00	Spur,projects E.
	Descend.
40.18	Set an iron post,3 ft.long, 1in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap,$\frac{1}{4}$ S 4 on W. half,S 3 on E.half,from which
	A pinon,14 ins.diam.,bears S.23°E.,46$\frac{1}{2}$ lks.dist., marked $\frac{1}{4}$ S 3 BT.
	A cedar,10 ins.diam.,bears S.79°W.,14 lks.dist., marked $\frac{1}{4}$ S 4 BT.
40.75	Hollow,75 ft.deep,course NE.
	Abrupt ascent.
56.00	Ridge,bears E.and W. Abrupt descent.
70.00	Leave timber,bears E.and W.
74.00	Hollow,150 ft.deep,course E.
	Abrupt ascent.
77.50	Spur,projects NE.
	Enter scattering timber.
	Descend.
80.18	The cor.3-4-9 and 10.

CHAINS	
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.18 chs.
	May 4, 1910
	May 5: At 7h.57m.,a.m.,l.m.t.,I set off 39°55'N.on lat. arc,16°08'N.on decl.arc and determine a meridian with the solar,at the cor.of secs.28-29-32 and 33, Knowing from the retracement of the 2nd.Stan.Par.S., that the line bet.secs.32 and 33,will not close within limits on the stan.cor.of secs.32 and 33, I run-
	S.0°03'E.,on a true line,
	Bet.secs.32 and 33.
	Descend over mountainous land, through heavy timber.
4.00	Hollow,75 ft.deep,course NE.
	Abrupt ascent.
18.00	Leave timber,bears NE.and SW.
18.50	Ridge,bears NE.and SW.
	Descend.
24.00	Hollow,50 ft.deep,course NE.
	Ascend.
28.50	Ridge,bears NE.and SW.
	Descend.
32.00	Hollow,50 ft.deep,course NE.
	Ascend.
34.00	Enter heavy timber, bears NE.and SW.
39.00	Ridge,bears NE.and SW.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 32 on W. half,S 33 on E.half,from which
	A pinon,8 ins.diam.,bears S.28°30'W.,52 lks.dist., marked ¼ S 32 BT.
	A pinon,12 ins.diam.,bears N.71°E.,107 lks.dist., marked ¼ S 33 BT.

CHAINS	
41.50	Hollow,50 ft.deep,course NE.
	Ascend.
47.75	Spur,projects NE.
	Descend.
50.00	Hollow,50 ft.deep,course NE.
	Ascend.
54.00	Ridge, bears NE.and SW.
	Descend.
58.00	Hollow,50 ft.deep,course E.
	Ascend.
64.50	Spur,projects E.
	Descend.
66.25	Hollow,35 ft.deep,course E.
	Ascend.
68.10	Spur,projects E.
	Descend.
78.73	Intersect Second Standard Parallel South, 1.11 chs., N.89°28'W.from the stan.cor.of secs.32 and 33, heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,24.ins.in the ground,for closing cor.of secs.32 and 33,marked on brass cap,T 11 S R 15 E CC on S.half,
	T 10 S R 15 E S 32 S 33 on N.half, and SC in NE.quadrant, from which
	A pinon,18 ins.diam.,bears N.53°E.,105 lks. dist.,marked T 10 S R 15 E S 33 BT.
	A pinon,9 ins.diam.,bears N.29°W.,63 lks.dist., marked T 10 S R 15 E S 32 BT.
	I destroy all marks on the stan.cor.of secs.32 and 33, leaving it as an angle cor.only.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 78.73 chs.

CHAINS	
	From the cor.of secs.28-29-32 and 33,I run N.0°03'W.,bet.secs.28 and 29.
	Ascend over rocky and mountainous land,through heavy timber.
4.00	Spur,projects NE.
	Descend.
8.00	Hollow,50 ft.deep,course NE.
	Ascend.
13.50	Ridge,bears NE.and SW.
	Descend.
33.25	Hollow,75 ft.deep,course NE.
	Ascend.
38.00	Ridge,bears NE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 29 on W. half,S 28 on E.half,from which
	A pinon,15 ins.diam.,bears N.15°W.,204 lks.dist. marked ¼ S 29 BT.
	A pinon,14 ins.diam.,bears N.1°30'E.,272 lks.dist., marked ¼ S 28 BT.
47.00	Hollow,50 ft.deep,course NE.
	Ascend.
49.00	Spur,projects NE.
	Descend.
53.00	Leave timber,bears NE.and SW.
55.00	Hollow,75 ft.deep,course NE.
	Ascend.
57.70	Spur,projects NE.
	Enter heavy timber,bears NE.and SW.
	Descend.
65.80	Hollow,50 ft.deep,course SE.
	Ascend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.20-21-28 and 29,marked on brass

CHAINS	
	cap,T 10 S S 20 in NW.,
	R 15 E S 21 in NE.,
	S 28 in SE.and S 29 in SW.quadrant.,from which
	A pinon,9 ins.diam.,bears N.48°E.,143 lks.dist.
	marked T 10 S R 15 E S 21 BT.
	A cedar,12 ins.diam.,bears S.45°E.,24 lks.dist.,
	marked T 10 S R 15 E S 28 BT.
	A cedar,8 ins.diam.,bears S.43°W.,15½ lks.dist.,
	marked T 10 S R 15 E S 29 BT.
	A pinon,5 ins.diam.,bears N.24°W.,103 lks.dist.,
	marked T 10 S R 15 E S 20 BT.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	East,on a random line,bet.secs.21 and 28.
40.00	Set temp.¼ sec.cor.
79.82	Intersect N.and S.line,9 lks.S.of the cor.of secs.
	21-22-27 and 28.
	Thence I run
	S.89°56'W.,on a true line,
	Bet.secs.21 and 28.
	Ascend over mountainous land,through scattering timber.
20.50	Ridge,bears NE.and SW.
	Descend.
32.00	Hollow,50 ft.deep,course N.
	Ascend.
37.00	Spur,projects NE.
	Descend.
39.91	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the
	ground,for ¼ sec.cor.,marked on brass cap,¼ S 21 on N.
	half,S 28 on S.half,from which
	A cedar,12 ins.diam.,bears N.57°W.,41 lks.dist.
	marked ¼ S 21 BT.

CHAINS	
	A pinon,14 ins.diam.,bears S.11°E.,67 lks.dist., marked ¼ S 28 BT.
40.50	Hollow,50 ft.deep,course NE.
	Ascend.
79.82	The cor.of secs.20-21-28 and 29.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.82 chs.
	May 5: At this cor.I set off 16°11'N.on decl.arc,and at 11h.57m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°56'N.
	N.0°03'W.,bet.secs.20 and 21.
	Ascend over rocky and mountainous land,through heavy timber.
7.75	Ridge,bears NE.and SW.
	Descend.
14.00	Hollow,50 ft.deep,course NE.
	Ascend.
22.50	Ridge,bears NE.and SW.
	Descend.
38.00	Hollow,50 ft.deep,course NE.
	Ascend.
40.00	On top of spur,projects NE.
	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 20 on W. half,S 21 on E.half,from which
	A cedar,15 ins.diam.,bears N.82°30'W.,25½ lks. dist.,marked ¼ S 20 BT.
	A pinon,15 ins.diam.,bears N.1°E.,52½ lks.dist., marked ¼ S 21 BT.
	Descend.
47.00	Leave timber,bears NE.and SW.
52.00	Hollow,100 ft.deep,course NE.

CHAINS	
	Ascend.
64.00	Enter heavy timber,bears E.and W.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.16-17-20 and 21,marked on brass cap,T 10 S S 17 in NW., R 15 E S 16 in NE., S 21 in SE.and S 20 in SW.quadrant,from which
	A pinon,6 ins.diam.,bears N.6°E.,45 lks.dist., marked T 10 S R 15 E S 16 BT.
	A pinon,15 ins.diam.,bears S.32°E.,22 lks.dist., marked T 10 S R 15 E S 21 BT.
	A pinon,18 ins.diam.,bears S.77°W.,155 lks.dist., marked T 10 S R 15 E S 20 BT.
	A pinon,6 ins.diam.,bears S.18°W.,137 lks.dist., marked T 10 S R 15 E S 17 BT.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	N.89°56'E.,on a random line,bet.secs.16 and 21.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.94	Intersect N.and S.line,5 lks.N.of the cor.of secs. 15-16-21 and 22.
	Thence I run
	S.89°58'W.,on a true line,
	Bet.secs.16 and 21.
	Ascend over rocky and mountainous land,through heavy timber.
2.00	Rocky spur,projects SE.
	Abrupt descent.
3.50	Hollow,50 ft.deep,course SE.
	Ascend along steep,broken and rocky south slope.
32.00	Rocky spur,projects S.
	Descend.

CHAINS	
39.97	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 16 on N. half,S 21 on S.half,from which
	A pinon,7 ins.diam.,bears N.12°E.,13 lks.dist., marked ¼ S 16 BT.
	A cedar,14 ins.diam.,bears S.4°W.,8½ lks.dist., marked ¼ S 21 BT.
40.25	Hollow,50 ft.deep,course S.
	Ascend along broken and rocky,steep south slope.
79.94	The cor.of secs.16-17-20 and 21.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.94 chs.
	N.0°03'W.,bet.secs.16 and 17.
	Ascend over rocky and mountainous land,through heavy timber.
6.00	Leave timber,bears E.and W.
	Begin abrupt ascent over shale ledges,bearing E.and W.
11.93	Intersect S.bdy.of the Uintah Indian Reservation,2.10 chains, N.81°15'E., from the ½ mile cor.bet.the 36th. and 37th.mile cors., which is a sandstone,15x12x4 ins. firmly set in a mound of stone,marked and witnessed as described by the surveyor general.
	Set an iron post, 3 ft.long,2 ins.dia. in mound of stone and earth,for closing cor.of secs.16 and 17,marked on brass cap, U I R CC on N.half, and T 10 S R 15 E S 16 S 17 on S.half,from which
	A pinon,8 ins.diam.,bears N.85°E.,27 lks.dist. marked T 10 S R 15 E S 16 BT.
	A pinon,6 ins.diam.,bears S.67°W.,114 lks.dist. marked T 10 S R 15 E S 17 BT.
	Note: On account of natural obstacles it is impossible to set this post over 12 ins.in the ground.

CHAINS	
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 11.93 chs.
	From the cor.of secs.9-10-15 and 16, I run S.89°58'W.,on a true line, Bet.secs.9 and 16.
	Ascend over rocky and mountainous land,through heavy timber.
5.00	Ridge,bears N.and S.
	Abrupt descent.
13.35	Intersect S.bdy.of the Uintah Indian Reservation, 10.06 chs.S.3°30'W., from the 35th.Mile Cor.,which is a cross (X), on the solid sandstone ledge, marked and witnessed as described by the surveyor general.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.9 and 16,marked on brass cap, U I R CC on W.half, T 10 S R 15 E S 9 S 16 on E.half, from which A pinon,5 ins.diam.,bears N.9°E.,43 lks.dist.; marked T 10 S R 15 E S 9 BT. A pinon,10 ins.diam.,bears S.35°E.,86 lks.dist., marked T 10 S R 15 E S 16 BT.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 13.35 chs.
	From the cor.of secs.3-4-9 and 10, I run S.89°58'W.,on a true line, Bet.secs.4 and 9.
	Ascend abruptly over rocky and mountainous land,through heavy timber.
4.70	Spur,projects N.
	Descend along steep,south slope.

CHAINS	
8.41	Intersect S.bdy.of the Uintah Indian Reservation,9.57 chs.S.3°30'W.,from the 34th.Mile Cor.,which is a sandstone,14x12x5 ins.,firmly set in in mound of stone, marked and witnessed as described by the surveyor general.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.4 and 9,marked on brass cap,U I R CC on W.half, and
	T 10 S R 15 E S 4 S 9 on E.half,from which
	A pinon,8 ins.diam.,bears N.46°E.,46½ lks.dist., marked T 10 S R 15 E S 4 BT.
	A pinon,15 ins.diam.,bears S.46°30'E.,18 lks. dist.,marked T 10 S R 15 E S 9 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 8.41 chs.
	May 5, 1910

	May 6: At 7h.57m.,a.m.,l.m.t.,I set off 39°55'N.,on lat. arc,16°25'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.29-30-31 and 32.
	Thence I run
	S.0°03'E.,on a random line,bet.secs.31 and 32.
40.00	Set temp.¼ sec.cor.
77.98	Intersect 2nd.Stan.Par.South, 6 lks.W.of the stan.cor. of secs.31 and 32,heretofore described.
	Thence I run
	N.0°06'W.,on a true line,
	Bet.secs.31 and 32.
	Descend over rocky and mountainous land,through heavy timber.
8.00	Hollow,75 ft.deep,course NE.
	Ascend.
12.00	Spur,projects NE.

CHAINS	
	Abrupt descent.
16.00	Leave timber,bears E.and W.
18.00	Same hollow,75 ft.deep,course NW.
	Abrupt ascent.
20.10	Spur,projects NW.
	Enter scattering timber.
	Descend.
22.50	Hollow,50 ft.deep,course NW.
	Ascend.
30.00	Spur,projects NW.
	Descend.
34.00	Hollow,40 ft.deep,course NW.
	Ascend.
37.50	Spur,projects NW.
	Descend.
37.98	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 31 on W. half,S 32 on E.half,from which
	A pinon,8 ins.dia.,bears S.12°E.,25 lks.dist., marked ¼ S 32 BT.
	A pinon,6 ins.diam.,bears S.17°30'W.,48 lks.dist., marked ¼ S 31 BT.
55.00	Hollow,75 ft.deep,course NE.
	Ascend.
59.75	Ridge,bears NE.and SW.
	Descend.
65.00	Hollow,50 ft.deep,course NE.
	Ascend.
74.50	Ridge,bears NE.and SW.
	Descend.
77.00	Leave timber,bears NE.and SW.
77.98	The cor.of secs.29-30-31 and 32.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 77.98 chs.

CHAINS	
	N.0°03'W.,bet.se cs.29 and 30.
	Descend over mountainous land.
1.00	Hollow,50 ft.deep,course NE.
	Ascend.
4.50	Enter heavy timber,bears NE.and SW.
8.00	Ridge,bears NE.and SW.
	Descend.
23.00	Hollow,75 ft.deep,course NE.
	Ascend.
29.00	Ridge,bears NE.and SW.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 30 on W. half,S 29 on E.half,from which
	A cedar,9 ins.diam.,bears N.27°E.,19 lks.dist. marked ¼ S 29 BT.
	A pinon,8 ins.diam.,bears N.20°W.,45 lks.dist., marked ¼ S 30 BT.
43.00	Hollow,75 ft.deep,course NW.
	Abrupt ascent.
47.00	Spur,projects NW.
	Descend.
58.00	Hollow,100 ft.deep,course NE.
	Ascend.
70.00	Spur,projects NE.
	Descend.
73.00	Hollow,50 ft.deep,course NE.
	Ascend.
78.00	Spur,projects NE.
	Descend.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.19-20-29 and 30,marked on brass cap,T 10 S S 19 in NW., R 15 E S 20 in NE., S 29 in SE.and S 30 in SW.quadrant, from which

CHAINS	
	A pinon,14 ins.diam.,bears N.70°E.,193 lks.dist marked T 10 S R 15 E S 20 BT.
	A cedar,15 ins.diam.,bears S.85°E.,97 lks.dist. marked T 10 S R 15 E S 29 BT.
	A pinon,13 ins.diam.,bears S.10°30'W.,190 lks. dist.,marked T 10 S R 15 E S 30 BT.
	A cedar,14 ins.diam.,bears N.11°W.,88 lks.dist., marked T 10 S R 15 E S 19 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.
	East,on a random line,bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
80.14	Intersect N.and S.line,5 lks.N.of the cor.of secs. 20-21-28 and 29.
	Thence I run
	N.89°58'W.,on a true line,
	Bet.secs.20 and 29.
	Ascend over rocky and mountainous land,through heavy cedar and pinon timber.
26.00	Ridge,bears NE.and SW.
	Descend.
40.07	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 20 on N. half,S 29 on S.half,from which
	A pinon,8 ins.diam.,bears S.17°E.,9 lks.dist., marked ¼ S 29 BT.
	A pinon,5 ins.diam.,bears N.48°30'E.,59 lks.dist., marked ¼ S 20 BT.
47.00	Hollow,50 ft.deep,course NW.
	Ascend.
54.00	Spur,projects NW.
	Descend.

CHAINS	
58.00	Leave timber,bears NE.and SW.
63.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
67.50	Enter heavy timber,bears NE.and SW.
80.14	The cor.of secs.19-20-29 and 30.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.14 chs.
	May 6: At this cor.I set off 16°28'N.on decl.arc,and at 11h.57m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting latis 39°56'N.

	Knowing the line bet.secs.19 and 30, will not close within limits on the west bdy.of the Tp., I run West, on a true line, bet.secs.19 and 30.
	Ascend over rocky and mountainous land,through heavy timber.
26.40	Ridge,bears NE.and SW.
	Descend.
34.00	Hollow,50 ft.deep,course NE.
	Ascend.
38.00	Spur,projects NE.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 19 on N. half,S 30 on S.half,from which
	A cedar,7 ins.diam.,bears S.71°W.,30 lks.dist., marked ¼ S 30 BT.
	A cedar,6 ins.diam.,bears N.51°W.,27 lks.dist., marked ¼ S 19 BT.
43.00	Hollow,75 ft.deep,course NE.
	Ascend.
46.00	Spur,projects NE.
	Descend.

CHAINS	
50.50	Hollow,150 ft.deep,course NE.
	Abrupt ascent.
80.00	Ridge,bears NE.and SW.
	Descend.
82.24	Intersect E.bdy.of T.10 S.,R.14 E.,2.70 chs.,South of the cor.of secs.19-24-25 and 30,heretofore described. Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.19 and 30,marked on brass cap,T 10 S.,on N.half, R 14 E S 24 S 25 CC on W.half,and R 15 E S 19 S 30 on E.half, from which
	A pinon,5 ins.diam.,bears N.74°E.,25 lks.dist., marked T 10 S R 15 E S 19 BT.
	A pinon,15 ins.diam.,bears S.70°E.,96 lks.dist. marked T 10 S R 15 E S 30 BT.
	I destroy all marks on the cor.of secs.19-24-25 and 30 that pertain to R.15 E.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 82.24 chs.
	N.0°03'W.,bet.secs.19 and 20.
	Descend over mountainous land,through heavy timber.
6.00	Hollow,50 ft.deep,course NE.
	Ascend.
16.00	Ridge,bears NE.and SW.
	Descend.
30.00	Hollow,100 ft.deep,course NE.
	Abrupt ascent.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 19 on W. half,S 20 on E.half,from which
	A pinon,14 ins.diam.,bears S.48°E.,25 lks.dist. marked ¼ S 20 BT.

CHAINS	
	A pinon,18 ins.diam.,bears N.40°W.,33 lks.dist., marked ¼ S 19 BT.
41.30	Spur,projects NE.
	Abrupt descent.
53.50	Hollow,100 ft.deep,course E.
	Ascend.
67.00	Leave heavy timber,bears E.and W.
	Begin abrupt ascent over shale ledges,bearing E.and W. through scattering timber.
77.90	Top of abrupt ascent,bears NE.and SW.
	Enter heavy timber,bears NE.and SW.
	Gradual ascent on top of wide ridge,bears NE.and SW.
79.60	Intersect S.bdy.of the Uintah Indian Reservation,0.33 chs.N.81°15'E.,from the ½ mile cor.,bet.the 37th and 38th.Mile Cors.,which is a sandstone 10x10x7 ins.above ground,marked and witnessed as described by the surveyor general.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.19 and 20,marked on brass cap, U I R CC on N.half,and
	T 10 S R 15 E S 19 S 20 on S.half,from which
	A pinon,12 ins.diam.,bears S.54°E.,262 lks.dist., marked T 10 S R 15 E S 20 BT.
	A pinon,8 ins.diam.,bears S.64°W.,13½ lks.dist., marked T 10 S R 15 E S 19 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 79.60 chs.

	From the cor.of secs.16-17-20 and 21, I run N.89°58'W.,on a true line, Bet.secs.17 and 20.
	Ascend over broken and rocky south slope, through heavy timber.

CHAINS	
16.00	Leave heavy timber,bears NE.and SW.
	Begin abrupt ascent over broken shale ledges,through scattering timber.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for ¼ sec.cor.,marked on brass cap,¼ S 17 on N. half,S 20 on S.half,from which
	A pinon,8 ins.diam.,bears S.14°30'E.,224 lks. dist.,marked ¼ S 20 BT.
	A pinon,15 ins.diam.,bears N.73°W.,96 lks.dist., marked ¼ S 17 BT.
48.00	Top of abrupt ascent,bears NE.and SW.
	Leave shale ledges.
	Enter heavy timber,bears NE.and SW.
	Gradual descent along the top of a wide ridge,bearing NE.and SW.
77.38	Intersect S.bdy.of the Uintah Indian Reservation,3.46 chs.N.81°15'E.,from the ½ mile cor.bet.the 37th and 38th. Mile Cors., heretofore described.
	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for closing cor.of secs.17 and 20,marked on brass cap,U I R CC on NW.half,and
	T 10 S R 15 E S 17 S 20 on SE.half,from which
	A cedar,24 ins.diam.,bears N.84°E.,48 lks.dist., marked T 10 S R 15 E S 17 BT.
	A pinon,15 ins.diam.,bears S.46°W.,32½ lks.dist., marked T 10 S R 15 E S 20 BT.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 77.38 chs.
	May 6, 1910

GENERAL DESCRIPTION OF T.10 S.,R.15 E.

This fractional township is mountainous throughout,being cut by many hollows all draining in a northeasterly direction.

The soil is generally rocky and covered with a heavy growth of pinon and cedar timber, with sage brush, greasewood and bunch grass in places where the timber is scattering.

There is no surface water in this township.

The only agricultural land in the township is along the bottom of Wells Draw, this is a hollow, 150 ft.deep, having a width in the bottom averaging about 15.00 chs., and runs in a northeasterly direction through the township, the soil of the bottom is loam,covered with a sparse growth of greasewood brush and is capable of producing crops with irrigation.

The wagon road between Price and Vernal and the telephone line between Price and Fort Duchesne cross this township in the bottom of Wells Draw.

There no settlers or land claimed by any settler in this township.

There are no indications of oil,coal or minerals found in this township.

Frank T. Robertson
U.S.Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____ showing the respective capacities in which they acted:

_____, *Chainman.*

For list of names and final oath of assistants see book "Z 6", *Chainman.*

T. 10 S., R. 19 E., *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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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 see book "Z[6]" T. 10 S., R. 19 E.

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

_____

United States Deputy Surveyor.

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

_____

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Sept. 23, 1911. MOX

The foregoing field notes of the survey of the subdivisional lines of Township No. 10 South, Range No. 15 East of the Salt Lake Base and Meridian, Utah,

executed by Frank T. Roberts under his contract No. 318, dated January 15, 1900, 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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